

CURRICULUM VITAE

Randall Ellis Morris, M.D., F.R.C.P.

This website is under construction, and information since 2008 is being added.

PERSONALIA

Present Position Head of Therapeutic Sciences for Transplantation & Immunology

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Immunology & Infectious Diseases (IID)
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Place of Birth: San Mateo, California, USA

Citizenship: U.S.A.

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Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

EDUCATION & DEGREES

Degree	Institution	Major Field	Dates
	Westminster Public School, London, England	Biology	1963 – 1966
A.B.	Stanford University	Biology (Honors in Molecular Biology) (Degree Conferred 1970)	1966 – 1969
M.D.	Stanford University	Medicine Transplantation Immunology (NIH Medical Scientist Training Program)	1969 – 1976
F.R.C.P.	Fellow of Royal College of Physicians (Glasgow)		2008

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RESEARCH AND PROFESSIONAL EXPERIENCE

- 2006 – present Head of Therapeutic Sciences for Transplantation & Immunology Immunology & Infectious Diseases (IID), Novartis AG, Basel Switzerland
- 2004 – present Research Professor of Cardiothoracic Surgery (Emeritus), Stanford University School of Medicine, Stanford, California
- 2004 - 2006 Translational Medicine Head for Transplantation, Exploratory Development, Novartis AG, Basel Switzerland
- 2004 - 2006 Global Head of Transplantation Research (Autoimmune Disease and Transplantation Disease Area) Novartis Institutes for Biomedical Research (NIBR), Novartis AG, Basel, Switzerland
- 2002 – 2004 Global Head of Transplantation and Immunology Therapeutic Area, NIBR, Novartis AG, Basel, Switzerland
- 1995 - 2004 Research Professor of Cardiothoracic Surgery and, by courtesy in the Department of Surgery and the Department of Medicine, and Director of Transplantation Immunology in the Department of Cardiothoracic Surgery, Stanford University School of Medicine.
- 1983 - 1995 Senior Research Scientist and Director, Laboratory of Transplantation Immunology, Department of Cardiothoracic Surgery, Stanford University School of Medicine.
- 1977 - 1983 Residency in General Surgery (Chief Resident in Renal Transplantation) and Research Fellowship in Immunology in the

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Departments of Surgery and Pediatrics at the University of Wisconsin Health Sciences Center, Madison, WI.

- 1976 - 1977 Intern in Surgery at Stanford University Hospital.
- 1971 - 1976 NIH Medical Scientist Training Program in the Department of Cardiovascular Surgery (Transplantation Immunology), Stanford University School of Medicine.
- 1970 - 1971 NIH Medical Scientist Training Program in the Division of Renal Transplantation, Department of Surgery, Stanford University School of Medicine.
- 1967 - 1969 Undergraduate Research Student (four quarters/yr) in the Division of Medical Genetics, Department of Medicine, Stanford University School of Medicine.

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HONORS AND AWARDS

- N.I.H. Medical Scientist Training Program, 1970-1976
- Stanford Medical School Alumni Award - Medical Scholar for 1972
- American College of Surgeons Schering Award, 1980
- President's Award, Meeting of the International Society for Heart and Lung Transplantation, 1990
- Karolinska Institute Huddinge Transplant Medal, Annual Meeting of the Swedish Society for Medical Science, Stockholm, Sweden, 1991
- Award for Best Poster Presentation, Meeting of the International Society for Heart and Lung Transplantation, 1992
- Upjohn Lecture to the joint session of the annual meetings of the American Society of Transplant Physicians and American Society of Transplant Surgeons, 1992
- Eurotransplant 25th Anniversary Lecture, 1992, Leiden, The Netherlands
- Outstanding Speaker Award, American Association for Clinical Chemistry, 1994
- European Society for Organ Transplantation Biannual Congress, State of the Art Lecture: Molecular Mechanisms of New Immunosuppressants, 1995, Vienna, Austria
- European Society for Organ Transplantation Award for Highest Ranked Abstract, Vienna Congress, 1995

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- *San Francisco Focus Magazine* - Bay Area Brain Trust: Top 101, 1995
- President, International Conference on New Trends in Clinical and Experimental Immunosuppression, Geneva, Switzerland, 1996
- Royal Society of Medicine, Anglo/American Visiting Fellow in Transplantation, 1996
- Councillor, International Society of Transplantation, 1994-1996; 2000-2006
- Elected Honorary Scientific Member, American Society of Transplant Surgeons, 1998-present
- Keynote Speaker, Tenth Annual Meeting of the German Transplantation Society, Regensburg, Germany, 2000
- Honorary Member, German Transplantation Society, 2000.
- Andrew Lazarovits Memorial Lecture of the Canadian Society of Transplantation, 2003.
- Fellow of the Royal College of Physicians (Glasgow), 2008

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RESEARCH GRANTS

- NIH Medical Scientist Training Program Award, 1970-1976
- Orthotopic Heart Transplantation, (N.E. Shumway, Principal Investigator) NHLBI, NIH, 1972-1975 American College of Surgeons Fellowship, 1979-1980
- Orthotopic Heart Transplantation, (N.E. Shumway, Principal Investigator), NHLBI, NIH, 1984-1987
- Orthotopic Heart Transplantation, (N.E. Shumway, Principal Investigator), NHLBI, NIH, 1987-1990
- Principal Investigator, (Pfizer) Studies to Evaluate CP-105,696 in a Murine Ear-Heart Transplant Model and in a Guinea Pig Delayed Graft Function Model, 1996-97
- Principal Investigator, Development of Leflunomide Analogues 1996-1999 (Hoechst-Marion-Roussel)
- Principal Investigator, Intl. Lung Transplant Database 1997-98 (Novartis Pharmaceuticals)
- Principal Investigator, Lung Transplant Drug Phase I Clinical Trial 1997-98 (Novartis Pharmaceuticals)
- Principal Investigator, Non-Human Primate Lung Transplant Research, 1997-99 (Novartis Pharmaceuticals)

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- Principal Investigator, Rapamycin as Treatment for Allograft Vasculopathy in Non-Human Primates, 1997-2001 (Wyeth-Ayerst Research)
- Principal Investigator, Immunosuppressant VX497 in Transplanted Rats, 1997-98 (Vertex Pharmaceuticals)
- Principal Investigator, Pharmacodynamic Drug monitoring of MMF, 1998-99 (Roche Laboratories)
- Principal Investigator, for New Immunosuppressant in Non-Human Primate Renal Transplants, 1998-99 (Pfizer Research)
- Principal Investigator, Evaluation of Monoclonal Antibodies in Non-Human Primate Renal Transplant, 1998-2001 (Genetics Institute)
- Principal Investigator, Evaluation of New Immunosuppressive Drug in Non-Human Primate Heart Transplants, 1998-2001 (Abbott Labs)
- Principal Investigator, Pharmacodynamic monitoring of MMF—A Study in Healthy Volunteers, 2000 (Roche Laboratories)
- Principal Investigator, Use of MMF to Reverse Graft Vascular Disease in Aortic Transplantation in Non-Human Primates, 1999-2000 (Roche Laboratories)
- Principal Investigator, 1999-2000 (Vascular Innovations)
- Principal Investigator, Immunosuppression in Xenotransplantation, 1999-2004 (Novartis Pharma)
- Principal Investigator, Study of Pharmacokinetics, Pharmacodynamics and Efficacy of FK778 in Non-Human Primate Renal Allograft Recipients, 1999-2001 (Fujisawa Healthcare)

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- Principal Investigator, Serine Proteinase Inhibitors in Organ Transplants, 2000-01 (Viron Therapeutics)
- Principal Investigator for Study of Pharmacokinetics, Pharmacodynamics and Efficacy of ISA-247 in Non-Human Primate Renal Allograft Recipients, 2001-2002 (Isotechnika, Inc.)
- Principal Investigator, Study of CP-690,550 Pharmacokinetics, Pharmacodynamics and Efficacy in Non-Human Primate Renal Allograft Recipients, 2001-2003 (Pfizer, Research)
- Co-Principal Investigator, A Phase 2, Randomized, Multicenter, Open-label Safety Study of ISA 247 and Cyclosporine (Neoral) in Post-Renal Transplant Patients, 2001-2003 (Isotechnika, Inc.)

FOUNDATION SUPPORT

- Hawes Foundation, 1983-1993
- Baxter Foundation, 1984
- HEDCO Foundation, 1985, 1988, 1994, 1998
- Dr. Ralph and Marian Falk Medical Research Trust 1994-2003

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EDITORIAL BOARDS

- 1990 - present Editorial Advisory Board, *Reviews in Contemporary Pharmacotherapy*
- 1991 – 1997 Editorial Board, *Transplantation*
- 1994 – 2002 Editorial Board, *Transplantation Proceedings*
- 1994 – 1996 Section Editor, *New Developments in Transplantation Medicine*
- 1995 – present Editorial Board, *Journal for Heart and Lung Transplantation*
- 1996 – present Editorial Board, *Transplantation Immunology*
- 1996 – present Editorial Board, *Current Opinion in Organ Transplantation*
- 1998 – 2002 Editor, *Graft-Journal of Organ and Cell Transplantation*
- 1998 – 2004 Editorial Board, *Transplant Infectious Diseases*
- 1999 – present Editorial Board, *Current Opinion in Anti-inflammatory and Immunomodulatory Drugs*
- 2000 – 2002 Associate Editor, *American Journal of Transplantation*

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ADVISORY ROLES

- 1981 – 1987 Costar Corp., Cambridge, MA
- 1981 – 1985 Sherwood Medical Inc., St. Louis, MO
- 1983 – 1985 Scientific Advisory Board, Tago, Inc., Burlingame, CA
- 1987 – 1990 Fujisawa Pharmaceutical Inc., Osaka, Japan
- 1987 – 1994 Syntex Pharmaceutical Inc., Palo Alto, CA
- 1988 – 1994 Bristol-Myers Pharmaceutical, Inc., Wallingford, CT
- 1988 – 1995 Genentech Inc., South San Francisco, CA
- 1988 – 2002 Wyeth-Ayerst Research, Inc., Princeton, NJ
- 1991 – 1999 Abbott Labs, Abbott Park, IL
- 1992 – 1993 Glycomed, Inc., Alameda, CA
- 1992 – 2000 Hoechst AG, Weisbaden, Germany
- 1993 – 1994 Roussel Uclaf, Romainville, France
- 1993 – 1994 F. Hoffmann La-Roche, Nutley, NJ
- 1994 – 1995 ALZA Corporation, Palo Alto, CA
- 1994 – 1995 GenPharm International, Sunnyvale, CA
- 1994 – 1997 Ortho Biotech, Raritan, NJ
- 1994 – 1995 Houghten Pharmaceuticals, Inc., San Diego, CA
- 1995 Pathology Council, International Society for Heart and Lung Transplantation
- 1995 Council on Cardiac Surgery, International Society for Heart and Lung Transplantation
- 1995 Council on Pulmonary Transplantation, International Society for Heart and Lung Transplantation
- 1995 Council on Pediatric Transplantation, International Society for Heart and Lung Transplantation
- 1995 – 2000 Signal Pharmaceuticals, Inc., San Diego, CA

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- 1995 – 1996 Ad Hoc Government Relations Committee, American Society of Transplantation
- 1995 – 1997 Agouron Pharmaceuticals, Inc., San Diego, CA
- 1995 – 1997 Procept Pharmaceuticals, Inc., San Diego, CA

- 1995 – 1998 Scientific Studies Committee, American Society of Transplantation
- 1996 Scientific Board, *Scientific Engineering*
- 1997 – 1998 Program Committee - Kidney I Subcommittee, American Society of Transplantation
- 1997 – 2000 Xenotransplantation Clinical Advisory Board, Imutran, Novartis, Cambridge, England
- 1997 – 2000 Imutran, Novartis, Cambridge, England
- 1997 External Reviewer, Transplantation Research, Novartis Research, Basel, Switzerland
- 1999 External Reviewer, Transplantation Research, Novartis Research, Basel, Switzerland
- 2001 External Reviewer, Transplantation Research, Novartis Research, Basel, Switzerland
- 1998 – 2002 Fujisawa Pharmaceuticals, Deerfield, IL
- 1998 – 2001 Genetics Institute, Andover, MA
- 1998 – 2001 Scientific Advisory Council, Abbott Laboratories, Abbott Park, IL
- 1999 – 2001 Chair, Xenotransplantation Committee, American Society of Transplantation, Morristown, NJ
- 1999 – 2002 Protein Design Labs, Research Management Committee, Fremont, CA

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MEMBERSHIPS (PAST AND PRESENT)

- The International Transplantation Society
- International Society for Heart and Lung Transplantation
- European Society for Organ Transplantation
- International Society for Immunopharmacology
- International Lectin Society
- American Association for the Advancement of Science
- International Association of Therapeutic Drug Monitoring and Clinical Toxicology
- American Society of Transplantation
- American Society of Transplant Surgeons
- Transplantation Society for Australia & New Zealand
- The Xenotransplantation Association (A Section of the Transplantation Society)
- The Transplant Infectious Disease Association

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PATENTS

- **Morris, R.E.:** Concanavalin A Dimers as Therapeutic Agents," U.S. Patent #4,889,842, issued 12/26/89.
- Gregory, C, **Morris, R.E.:** "Methods of Treating Hyperproliferative Vascular Disease," U.S. Patent 5,283,257, issued 2/94.
- **Morris, R.E,** Gregory, C.: "Method of Treating Hyperproliferative Vascular Disease," U.S. Patent 5,563,146, issued 10/8/96 (continuation).
- **Morris, R.E,** Drell, W., Fox R.: "Administration of Azaribine to Control Ongoing Rejection", issued 1996.
- **Morris, R.E.,** Drell, W., Fox R.: "Method for Inhibiting Allograft Rejection by the Administration of 6-Azauridine or its Triacetate Derivative," issued 1996.
- **Morris, R.E,** Bartlett, R.: "Method of Treating Hyperproliferative Vascular Disease," United States Patent #5,519,042, issued 5/21/96.
- **Morris, R.E,** Gregory, C.: "Method of Treating Hyperproliferative Vascular Disease with Rapamycin and Mycophenolic Acid," U.S. Patent #5,646,160, issued 7/8/97.
- **Morris, R.E,** Gregory, Clare R.: "Method of Treating Hyperproliferative Vascular Disease" United States Patent #5,665,728, issued 5/9/97.

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PUBLICATIONS

JOURNAL ARTICLES

1. **Morris RE** and Lucas ZJ.: Immunologic enhancement of rat kidney grafts: Evidence for peripheral action of homologous antiserum. *Transplant. Proc.*, 3:697-700, 1971.
2. **Morris RE**, Enomoto K, Kay GL, Dong E, and Shumway NE: Prolongation of rat renal allograft survival by chicken anti-rat lymphocyte globulin. *Transplant. Proc.*, 5:535-540, 1973.
3. Caves PK, Dong E Jr., **Morris RE**, and Shumway NE: The immunologic diagnosis of orthotopic cardiac allograft rejection in dogs. *Transplant. Proc.*, 5:745-748, 1973.
4. Caves PK, Dong E Jr., **Morris RE**, and Shumway NE.: Hyper-acute rejection of orthotopic cardiac allografts in dogs following solubilized antigen pretreatment. *Transplantation*, 16:252-256, 1973.
5. Souther SG, **Morris RE**, and Vistnes LM: Prolongation of rat cardiac allograft survival by splenectomy following transplantation. *Transplantation*, 17:317-319, 1974.
6. **Morris RE**, Dong E Jr., Struthers CM, Griep RB, Stinson EB, Billingham ME, and Shumway NE: Immunologic detection of human cardiac rejection, *Surgical Forum*, 25:282-284, 1974.
7. **Morris RE**, Souther S.G., Dong E Jr., Vistnes L.M., and Shumway N.E.: Prolongation of rat cardiac allograft survival by a new immunosuppressant: Chicken anti-rat lymphocyte globulin. *Surgery*, 76:150-159, 1974.

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8. **Morris RE**, Souther SG, Dong E Jr. and Shumway NE: Chicken antilymphocyte globulin: Mechanisms of action. *Transplant. Proc.*, 7:427-429, 1975.
9. Souther SG, **Morris RE**, and Vistnes LM: Trapping, splenectomy and allograft survival. *J. Immunol. (Letter to Editor)*, 114:1138, 1975.
10. **Morris RE**, and Dong E. Jr.: Clarification of certain characteristics of chicken antilymphocyte globulin. *Transplantation (Letter to Editor)*, 21:511-512, 1976.
11. **Morris RE**, Dong E Jr., and Shumway NE: Chicken anti-rat lymphocyte globulin (CARLG): Dose response study. *Surgical Forum*, 27:327-330, 1976.
12. **Morris RE**: High-efficiency differential ultracentrifugation of small sample volumes using Sorvall TFT-80.4 and TFT-80.2 rotors. *Biotechnology Update*, 3:11-12, 1988.
13. **Morris RE**, Hanley JM, Griep RB, and Shumway NE: Chicken antilymphocyte globulin: A source of heterologous enhancing antibody. *Transplant. Proc.*, 9:1037-1039, 1977.
14. **Morris RE**, Dong E Jr., Struthers CM, Griep RB and Stinson EB: Immunologic monitoring of cardiac transplant recipients by a modified reactive leukocyte blastogenesis assay (MRLB). *Transplant. Proc.*, 10:585-588, 1978.
15. **Morris RE**: Chicken anti-rat lymphocyte globulin: Dose-response study and determination of strain specific alloantibody. *Transplantation*, 28:77-83, 1979.
16. **Morris RE**: Chicken anti-rat lymphocyte globulin (CARLG): A new specific immunosuppressant. *Current Surgery*, 36:356-359, 1979.

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17. **Morris RE:** Sources of noncomplement-binding xenoantibody for passive enhancement of allografts. *Transplantation*, 34:157-159, 1982.
18. **Morris RE, Thomas PT and Hong R.:** Cellular enzyme-linked immunospecific assay (CELISA). A new micromethod that detects antibodies to cell-surface antigens. *Human Immunology*, 5:1-19, 1982.
19. **Morris RE:** A new, highly sensitive assay for quantitating antibody bound to cell-surface antigens. *Transplant. Proc.*, 15:60-62, 1983.
20. **Morris RE:** The induction of tolerance to and the definition of the pharmacokinetics of chicken anti-rat lymphocyte globulin. *Current Surgery*, 40:448-451, 1983.
21. **Morris RE:** Cellular enzyme-linked immunospecific assay. Use of the CELISA to quantitate monoclonal antibodies bound to HLA antigens and to sub-set specific antigens on cell surfaces. *Transplantation*, 36:719-725, 1983.
22. **Morris RE and Horowitz DA:** Cellular enzyme linked immunospecific assay (CELISA). Inhibition of endogenous cellular alkaline phosphatase activity. *J. Immunol. Methods*, 68:11-17, 1984.
23. **Morris RE:** Progress in the use of the cellular enzyme linked immunospecific assay (CELISA) for the phenotyping of cellular antigens associated with subpopulation of T-cells. *Review of Immunology and Immunopharmacology (EOS)*, 4:47-53, 1984.

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24. Anderson JE, **Morris RE** and Blaschke TE: Pharmacodynamics of cyclosporine-ketoconazole interaction in mice: Combined therapy potentiates cyclosporine immunosuppression and toxicity. *Transplantation*, 43:529-533, 1987.
25. **Morris RE**, DeValeria P, Skogen B, Pratt F, Cheng P-J, Kim J and Clark WA: Intravenously injected anti-cardiac myosin monoclonal antibody specifically demarcates cardiac rejection. *Transplant. Proc.*, 29:1053-1055, 1987.
26. **Morris,RE**, Hoyt,G. and DeValeria,P. A comparison in the in vitro and in vivo immunological activities of concanavalin A and its succinylated derivative. *Transplant. Proc.*, 29:626-627, 1987.
27. Cheng,P-J and **Morris,RE**: A new, rapid, high-capacity chromatographic purification of IgG 1 monoclonal antibodies directly from mouse ascites fluid. *Transplant. Proc.*, 29:607-609, 1987.
28. Anderson SE, **Morris RE** and Blaschke TE: Ketoconazole potentiates cyclosporine immunosuppression and toxicity in mice. *Transplant. Proc.*, 29:1267-1268, 1987.
29. Babany G, **Morris RE**, Babany I and Kates RE: Evaluation of the in vivo dose response relationship of immunosuppressive drugs using a mouse heart transplant model: Application to cyclosporine. *J. Pharmacol. and Exp. Therapeutics*, 244:259-262, 1988.
30. **Morris RE**, Hoyt G, Baldwin JC, and Meiser B.: Splenectomy antagonizes the action of cyclosporine. *Transplant. Proc.*, 20:1079-1080, 1988.

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31. Babany G, **Morris RE**, Babany I, Shepherd S, Kates R: In vivo evaluation of the effects of altered cyclosporine metabolism on its immunosuppressive potency. *J. Pharmacol. and Exp. Therapeutics*, 248:893-899, 1989.
32. **Morris RE**, Hoyt EG, Murphy MP, and Shorthouse R: Immunopharmacology of FK 506. *Transplant. Proc.*, 21:1042-1044, 1989.
33. Yuh D, Zurcher RP, Carmichael PG, **Morris RE**: Efficacy of Didemnin B therapy in suppressing allograft rejection in mice and rats. *Transplant. Proc.*, 21:1141-1143, 1989.
34. Gudas V, Carmichael PG, **Morris RE**: Comparison of the immunosuppressive and toxic effects of high dose oral FK-506 in the rat cardiac xenograft model. *Transplant. Proc.*, 21:1072-1073, 1989.
35. Carmichael PG, **Morris RE**: Alteration of in vivo allogeneic functions by ultraviolet B (UVB). *Transplant. Proc.*, 21:1137-1138. 1989.
36. **Morris RE** and Meiser B: A new pharmacologic action for an old compound Rapamycin. *Medical Science Research*, 17:609-610, 1989. (Republished due to typesetting errors, *Med. Sci. Res.* 17:877-878, 1989.)
37. **Morris RE**, Hoyt G, Eugui E and Allison A: Prolongation of rat heart allograft survival by RS-61443 Mycophenolace Mofetil. *Surgical Forum*, 40:337-338, 1989.
38. Meiser BM, Wang J, **Morris RE**: Rapamycin: A new and highly active immunosuppressive macrolide with efficacy superior to cyclosporine. *Progress in Immunology*, 7:1195-1198, 1989.

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39. Palladino MA, **Morris RE**, Starnes HF and Levinson AD: The transforming growth factor-betas: A new family of immunosuppressive molecules. *Ann. N.Y. Acad. Sci.*, 593:181-187, 1990.
40. **Morris RE**, Wu J, and Shorthouse R: Comparative immunopharmacological effects of FK506 and cyclosporine in in vivo models of organ transplantation. *Transplant. Proc.*, 22:(Suppl)1:110-112, 1990.
41. **Morris RE**, Wu J, and Shorthouse R: A study of the contrasting effects of cyclosporine, FK506 and rapamycin on the suppression of allograft rejection. *Transplant. Proc.*, 22:1638-1641, 1990.
42. **Morris RE**, Hoyt G, Murphy MP, Eugui EM, and Allison AC: Mycophenolic acid morpholinoethyl ester (RS-61443) is a new immunosuppressant that prevents and halts heart allograft rejection by selective inhibition of T and B cell purine synthesis. *Transplant. Proc.*, 22:1659-1662, 1990.
43. **Morris RE**: Treating rejection of transplants in the post-cyclosporine era. *Dialysis and Transplant*, 19:544, 1990.
44. Wallick SC, Figari IS, **Morris RE**, Levinson AD and Palladino MA: Immunoregulatory role of transforming growth factor β (TGF- β) in development of killer cells: Comparison of active and latent TGF- β_1 . *J. Exp. Med.*, 172:1777-1784, 1990.
45. Meiser BM and **Morris RE**: The importance of the spleen for the immunosuppressive action of cyclosporine in transplantation. *Transplantation*, 51:690-696, 1991.

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46. **Morris RE**, Wang J: Comparison of the immunosuppressive effects of mycophenolic acid and the morpholinoethyl ester of mycophenolic acid (RS-61443) in recipients of heart allografts. *Transplant. Proc.*, 23:493-496, 1991.
47. **Morris RE**, Meiser BM, Wu J, Shorthouse R, and Wang J: Use of rapamycin for the suppression of alloimmune reactions in vivo: schedule dependence, tolerance induction, synergy with cyclosporine and FK506, and effect on host-versus-graft and graft-versus-host reactions. *Transplant. Proc.*, 23:521-524, 1991
48. Zheng B, Shorthouse R, Masek MA, Berry G, Billingham ME and **Morris RE**: Effects of the new and highly active immunosuppressant, rapamycin, on lymphoid tissues and cells *in vivo*. *Transplant. Proc.*, 23:851-855, 1991
49. Wu J, Palladino MA, Figari IS, and **Morris RE**: Comparative immunoregulatory effects of rapamycin, FK506 and cyclosporine on mitogen-induced cytokine production and lymphoproliferation. *Transplant. Proc.*, 23:238-240, 1991.
50. Wang J, **Morris RE**: Effect of Splenectomy and mono- or combination therapy with rapamycin, the morpholinoethyl ester of mycophenolic acid and deoxyspergualin on cardiac xenograft survival. *Transplant. Proc.*, 23:699-702, 1991.
51. Flavin T, Ivens K, Wang J, Gutierrez J, Hoyt EG, Billingham M, **Morris RE**: Initial experience with FK506 as an immunosuppressant for nonhuman primate recipients of cardiac allografts. *Transplant. Proc.*, 23:531-532, 1991.
52. Yuh D, **Morris RE**: 15-Deoxyspergualin is a more potent and effective immunosuppressant than cyclosporine but does not effectively suppress lymphoproliferation *in vivo*. *Transplant. Proc.*, 23:535-539, 1991.

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53. **Morris RE**, Wang J, Blum J, Flavin T, Almquist SJ, Chu N, Lam YL, Kaloostian M, Allison A, and Eugui E: Immunosuppressive effects of the morpholinoethyl ester of mycophenolic acid (RS-61443) on rat and non-human primate recipients of cardiac allografts. *Transplant. Proc.*, 23(Supp 2):19-25, 1991.
54. **Morris RE**: Rapamycin: FK506's fraternal twin or distant cousin? *Immunol. Today*, 12:137-140, 1991.
55. Meiser BM, Billingham ME, **Morris RE**: Effects of cyclosporine, FK506 and rapamycin on graft vessel disease. *The Lancet*, 338:1297-1298, 1991.
56. **Morris RE**: In vivo immunopharmacology of the macrolides FK506 and rapamycin: toward the era of rational immunosuppression drug discovery, development and use. *Transplantation Proceedings*, 23:2722-2724, 1991.
57. **Morris RE**: 15-Deoxyspergualin: a mystery wrapped within an enigma. *Clinical Transplant*, 5:530-533, 1991.
58. Murphy MP, **Morris RE**: Brequinar sodium (Dup 785) is a highly potent antimetabolite immunosuppressant that suppresses heart allograft rejection. *Medical Science Res.*, 19:835-836, 1991.
59. **Morris RE**: Rapamycins: antifungal, antitumor, antiproliferative and immunosuppressive macrolides. *Transplant Rev.*, 6:39-87, 1992.
60. **Morris RE**: Immunopharmacology of new xenobiotic immunosuppressive molecules. *Seminars in Nephrology*, 4:304-314, July 1992.

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Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

61. Walpoth B, Galdikas J, Tschopp A, Lazeyras F, Altermatt HJ, Schaffner T, Althaus U, Billingham M and **Morris RE**: Prevention of cardiac allograft rejection by FK506 and rapamycin: assessment by histology and nuclear magnetic resonance. *Transplant. Intl.*, 5(Suppl 1):S561-S563, 1992.
62. Walpoth B, Galdikas J, Vorburger T, Altermatt HJ, Schaffner T, Althaus U, Billingham M, **Morris RE**: Assessment of new immunosuppressive drugs in a rat cardiac allograft heterotopic model. *Eur. J. Surg. Res.*, 24:243-248, 1992.
63. Mohacsi PJ, **Morris RE**: Brief treatment with rapamycin in vivo increases responsiveness to alloantigens measured by the mixed lymphocyte response. *Immunology Letters*, 34:273-278, 1992.
64. Yuh D and **Morris RE**: The immunopharmacology of immunosuppression by 15-deoxyspergualin. *Transplantation*, 55:578-591, 1993.
65. **Morris RE**: Prevention and treatment of allograft rejection in vivo by rapamycin: molecular and cellular mechanisms of immunosuppressive action. *Annals NY Acad. of Sci.*, 685:68-72, 1993.
66. **Morris RE**: Commentary on new xenobiotic immunosuppressants for transplantation: where are we, how did we get here, and where are we going? *Clinical Transplantation*, 7(Issue 1, Part 2):138-145, 1993.
67. Nakakura EK, McCabe SM, Zheng B, Shorthouse RA, Scheiner TM, Blank G, Jardieu PM, and **Morris RE**: Potent and effective prolongation by anti-LFA-1 monoclonal antibody monotherapy of non-primarily vascularized heart allograft

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- survival in mice without T cell depletion. *Transplantation (Rapid Communication)*, 55:412-417, 1993.
68. Gregory CR, Huie P, Shorthouse R, Wang J, Rowan R, Billingham ME, **Morris RE**: Treatment with rapamycin blocks arterial intimal thickening following mechanical and alloimmune injury. *Transplant Proc.*, 25:120-121, 1993.
69. Gregory CR, Pratt RE, Huie P, Shorthouse R, Dzau VJ, Billingham ME, **Morris RE**: Effects of treatment with cyclosporine, FK506, rapamycin, mycophenolic acid or deoxyspergualin on vascular smooth muscle proliferation in vitro and in vivo. *Transplant Proc.*, 25:770-771, 1993.
70. Nakakura EK, McCabe SM, Zheng B, Shorthouse RA, Scheiner TM, Blank G, Jardieu PM, **Morris RE**: A non-lymphocyte depleting monoclonal antibody to the adhesion molecule LFA-1 (CD11a) prevents sensitization to alloantigens and effectively prolongs the survival of heart allografts. *Transplant Proc.*, 25:809-812, 1993.
71. Murphy M, **Morris RE**: Brequinar sodium effectively and potently suppresses allograft rejection in a heterotopic mouse heart transplant model. *Transplant Proc.*, 25(Supp 2):75-76, 1993.
72. Gregory CR, Huie P, Billingham ME, and **Morris RE**: Rapamycin inhibits arterial intimal thickening caused by both alloimmune and mechanical injury: effect on cellular growth factor and cytokine responses in injured vessels. *Transplantation (Rapid Communication)*, 55:1409-1418, 1993.

CURRICULUM VITAE

Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

73. **Morris RE:** New small molecule immunosuppressants for transplantation: review of essential concepts. *J. Heart and Lung Transplant*, 12:S275-S286, 1993.
74. **Morris RE:** Primer on new small molecule immunosuppressants: Emergency treatment for the confused and bewildered. *Transplantation Society Bulletin*, Issue No. 1:15-21, 1993.
75. Fealy MJ, Umansky WS, Bickel KD, Nino JJ, **Morris RE**, Press BHJ: Efficacy of rapamycin and FK506 in prolonging rat hind limb allograft survival: a comparative study. *Annals of Surgery*, 219:88-93, 1994.
76. Mohacsi PJ, Joshi A, Wang J, **Morris RE**, Billingham ME: Endocardial mononuclear cell infiltrates (Quilty Effect) in heterotopic cardiac allografts in rapamycin-treated rats. *Transplant Proc*, 26:3255-3259, 1994.
77. **Morris RE:** Modes of action of FK506, cyclosporin A, and rapamycin. *Transplant Proc*, 26:3272-3275, 1994.
78. Walpoth BH, Lazeyras F, Tschopp A, Schaffner T, Althaus U, Billingham M, **Morris RE:** Assessment of cardiac rejection and immunosuppression by magnetic resonance imaging and spectroscopy. *Transplant Proc.*, 1995, June, 27(3):2088-91.
79. Cao W, Mohacsi PJ, Pratt RE, **Morris RE:** Effects of rapamycin on growth factor-stimulated vascular smooth muscle cell proliferation: inhibition of bFGF and PDGF action and antagonism of rapamycin by FK506. *Transplantation*, 59:390-395, 1995.
80. **Morris RE** Huang X, Cao W, Zheng B, Shorthouse RA: Leflunomide (HWA 486) and its analogs suppress T and B cell proliferation in vitro, acute rejection, ongoing

CURRICULUM VITAE

Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

- rejection, and anti-donor antibody synthesis in mouse, rat and cynomolgus monkey transplant recipients, as well as arterial intimal thickening after balloon catheter injury. *Transplant Proc*, 27:445-447, 1995.
81. **Morris RE**, Cao W, Huang X, Gregory CR, Billingham, MR, Rowan R, Shorthouse RA: Rapamycin (sirolimus) inhibits vascular smooth muscle DNA synthesis in vitro and suppresses narrowing in arterial allografts and in balloon-injured carotid arteries: evidence that rapamycin antagonizes growth factor action on immune and nonimmune cells. *Transplant Proc*, 27:430-431, 1995.
82. Gregory CR, Huang X, Pratt RE, Dzau V, Billingham ME, **Morris RE**: Treatment with rapamycin and mycophenolic acid reduces arterial intimal thickening after balloon catheter injury and allows endothelial replacement. *Transplantation (Rapid Communication)*, 59:655-661, 1995.
83. Fealy MF, Most D, Huie P, Wolf M, Sibley, RK, **Morris RE**, Press BHJ: Association of down-regulation of cytokine activity with rat hind limb allograft survival. *Transplantation* 59:1475-1480, 1995.
84. **Morris RE**, Huang X, Gregory CR, Billingham ME, Rowan R, Shorthouse R, Berry G: Studies in experimental models of chronic rejection: use of rapamycin (sirolimus) and isoxazole derivatives (leflunomide and its analog) for the suppression of graft vascular disease and obliterative bronchiolitis. *Transplant Proc*, 27:2068-2069, 1995.
85. Nair RV, **Morris RE**: Immunosuppression in cardiac transplantation: a new era in immunopharmacology. *Current Opinion in Cardiol*, 10:207-217, 1995.

CURRICULUM VITAE

Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

86. Galili U, Gregory CR, **Morris RE**: Contribution of anti-gal antibodies to primate and human IgG binding to porcine endothelial cells. *Transplantation*, 60:210-213, 1995.
87. **Morris RE**, Brown BW Jr.: Tacrolimus for prevention of liver allograft rejection: clinical trials and tribulations. *The Lancet*, 346:1310-1311, 1995.
88. Nair RV, Cao W, **Morris RE**: Inhibition of smooth muscle cell proliferation in vitro by leflunomide, a new immunosuppressant, is antagonized by uridine. *Immunol Letters*, 1995; 47(3):171-174.
89. Yuh DD, Gandy KL, **Morris RE**, Hoyt G, Gutierrez J, Reitz BA, Robbins RC: Leflunomide prolongs lung allo- and xenograft survival. *J Heart and Lung Transplant*, 14:1136-44, 1995.
90. Reichenspurner H, Huang X, Adams B., Soni V, Shorthouse R, Reitz BA, Berry GJ, **Morris RE**: Pathogenesis and treatment of obliterative airway disease after heterotopic tracheal allograft and xenograft transplantation. *Surgical Forum*, 46:456-8, 1995.
91. **Morris RE**: Mechanisms of action of new immunosuppressants. *Therapeutic Drug Monitoring*, 17:564-569, 1995.
92. Reichenspurner H, Girgis RE, Robbins RC, Conte JV, Nair R, Valentine V, Berry GJ, **Morris RE**, Theodore J, Reitz BA: Review of the pathogenesis, diagnosis and management of obliterative bronchiolitis after lung- and heart-lung transplantation - a 14 year experience in 163 patients. *Annals of Thoracic Surgery*, 60:1845-53, 1995.

CURRICULUM VITAE

Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

93. Cao WE, Kao PN, Chao AC, Gardner P, Ng J, **Morris RE**: Mechanism of the anti-proliferative action of leflunomide: A771726, the active metabolite of leflunomide, does not block T cell receptor-mediated signal transduction but its antiproliferative effects are antagonized by pyrimidine nucleosides. *J Heart Lung Transp*, 14:1016-30, 1995.
94. Galili U, Gregory CR, **Morris RE**: New World monkeys as a primate model for xenografts in the absence of anti-Gal antibodies. *Transpl Proc* 28:567-568, 1995.
95. Shaw LM, Sollinger HW, Halloran P, **Morris RE**, et al: Mycophenolate mofetil: A report of the consensus panel. *Therap Drug Monitoring*, 17(6):690-699, 1995.
96. Reichenspurner H, Girgis RE, Robbins RC, Conte JV, Nair RV, Valentine V, Berry GJ, **Morris RE**, Theodore J, Reitz BA: Obliterative bronchiolitis after lung and heart-lung transplantation. *Annals of Thoracic Surgery*, 60:1845-1853, 1995.
97. **Morris RE**: Mechanisms of Action of New Immunosuppressive Drugs. *Kidney International*, 49(Suppl 53):S-26-S-38, 1996.
98. Lirtzman RA, Gregory CR, Levitski RE, Griffey SM, Yeh L-S, Patz JD, **Morris RE**: Combined immunosuppression with leflunomide and cyclosporine prevents MLR-mismatched renal allograft rejection in a mongrel canine model. *Transplantation Proceedings*, 28(2): 945-947, 1996.
99. Reichenspurner H, Adams B, Soni V, Brazelton T, Shorthouse R, Reitz BA, Berry GJ, and **Morris RE**: Obliterative airway disease (OAD) after heterotopic tracheal xenotransplantation in a concordant rodent model: pathogenesis and treatment. *Transplantation Proceedings*, 28(2): 729-730, 1996.

CURRICULUM VITAE

Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

100. Nair RV, **Morris RE**: New immunosuppressive strategies in renal transplantation: new answers to old questions. *Current Opinion in Organ Transplantation*, 1:8-21, 1996.
101. Suthanthiran M, **Morris RE**, Strom, T.B.: Immunosuppressants: Cellular and molecular mechanisms of action. *American Journal of Kidney Diseases*, 28: 159-172, 1996.
102. Nakakura EN, Shorthouse R, Zheng B, McCabe S, Jardieu P, **Morris RE**: Prolongation of heart allograft survival by anti-LFA-1 monoclonal antibody monotherapy: mechanisms of induction of antigen-specific unresponsiveness. *Transplantation*, 62: 547-552, 1996.
103. Gregory CR, Cooke JP, Patz JD, Berryman ER, Shorthouse R, **Morris RE**: Enhanced nitric oxide production induced by the administration of L-arginine does not inhibit arterial neointimal formation after overwhelming alloimmune injury. *J. of Heart and Lung Transplantation*, 15: 58-66, 1996.
104. Brazelton TR, **Morris RE**: Molecular mechanisms of action of new xenobiotic immunosuppressive drugs: Tacrolimus (FK506), sirolimus (rapamycin), mycophenolate mofetil, and leflunomide. *Current Opinion in Immunology*, 8:710-720, 1996.
105. Silva HT, Cao W, Shorthouse R, **Morris RE**: Mechanisms of action of leflunomide: In vivo uridine administration reverses its inhibition of lymphocyte proliferation. *Transplantation Proceedings*, 28: 3082-3084, 1996.

CURRICULUM VITAE

Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

106. Goldman ME, Ransone LJ, Anderson DW, Gaarde QA, Suto MJ, Sullivan RW, Shorthouse R, Morikawa M, **Morris RE**: SP100030 is a novel T-cell-specific transcription factor inhibitor that possesses immunosuppressive activity in vivo. *Transplantation Proceedings*, 28:3106-3109, 1996.
107. Cao W, Kao PN, Aoki Y, Xu JC, Shorthouse R, **Morris RE**: A novel mechanism of the immunomodulatory drug, leflunomide: augmentation of the immunosuppressive cytokine, TGF β 1, and suppression of the immunostimulatory cytokine, IL-2. *Transplantation Proceedings*, 28:3079-3080, 1996.
108. Reichenspurner H, Girgis R, Robbins R, Yun K, Nitschke M, Berry G, **Morris RE**, Theodore J., Reitz B.A.: Stanford experience with obliterative bronchiolitis after lung- and heart-lung transplantation. *Annals of Thoracic Surgery*, 62:1467-1473, 1996.
109. Silva HT, Shorthouse R, **Morris RE**: Single- and multiple-dose pharmacokinetics and pharmacodynamics of leflunomide's active metabolite A771726 in normal Lewis rats. *Transplantation Proceedings*, 28:3092-3094, 1996.
110. Nair RV, Cao W, **Morris RE**: The antiproliferative effects of leflunomide on vascular smooth muscle cells in vitro is mediated by selective inhibition of pyrimidine biosynthesis. *Transplantation Proceedings*, 28:3081, 1996.
111. **Morris RE**: Beware: Shifting Paradigms Ahead. *Lancet*, 348 (suppl II), 26, 1996.
112. Yeh L-S, Gregory CR, Griffey SM, Lecouteur RA, and **Morris RE**: Effects of leflunomide and cyclosporine on myocutaneous allograft survival in the rat. *Transplantation* 62, 6, 1996.

CURRICULUM VITAE

Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

113. Fahrni JA, **Morris RE**, Rosen GD: Rapamycin inhibits the development of obliterative airway disease in a murine heterotopic airway transplant model. *Transplantation*. 63(4):533-7, 1997.
114. Silva HT, **Morris RE**: Leflunomide and malononitriloamides. *Exp. Opin. Invest. Drugs* 6:51-64, 1997.
115. Morikawa M, Shorthouse RA, Suto MJ, Goldman ME, **Morris RE**: A novel inhibitor of nuclear factor- κ B and activator protein-1 transcription factors in T cells suppresses host-versus-graft alloreactivity in vivo. *Transplantation Proceedings*, 29:1269-70, 1997.
116. Nair RV, Huang X, Shorthouse R, Adams B, Brazelton T, Braun-Dullaeus R, **Morris RE**: Antiproliferative effects of rapamycin on growth factor-stimulated human adult lung fibroblasts in vitro may explain its superior efficacy for prevention and treatment of allograft obliterative airway disease in vivo. *Transplant Proceedings*, 29(1-2):614-615, 1997.
117. Silva HT, **Morris RE**: Leflunomide and malononitrilamides. *American Journal of Medical Sciences*. 313(5):289-301, 1997.
118. Yeh L-S, Gregory CR, Griffey SM, Lecouter RA, **Morris RE**: Combination of leflunomide and cyclosporine prevents rejection of functional whole limb allografts in rats. *Transplantation* 64(6):919-22, 1997
119. Ikonen T, Uusitalo M, Taskinen E, Korpela A, Salminen U-S, **Morris RE**, Harjula ALJ: A new large-animal heterotopic lung and bronchial allograft model for research of obliterative bronchiolitis. *Transplantation Proceedings*, 29(6):2611-2, 1997.

CURRICULUM VITAE

Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

120. Metcalfe SM, Canman CE, Milner J, **Morris RE**, Goldman S, Kastan MB: Rapamycin and p53 act on different pathways to induce G1 arrest in mammalian cells. *Oncogene* 15(14):1635-42, 1997.
121. Hausen B, Mueller P, Bahra M, Ramsamooj R, **Morris RE**, Hewitt CW: Donor treatment with the lazeroid U74389G reduces ischemia-reperfusion injury in a rat lung transplant model. *Annals of Thoracic Surgery*, 64(3):814-20, 1997.
122. Hausen B, **Morris RE**: Review of Immunosuppression for lung transplantation. Novel drugs, new uses for conventional immunosuppressants, and alternative strategies. *Clinics in Chest Medicine*. 18(2):353-66, 1997.
123. Reichenspurner H, Soni V, Nitschke M, Berry G, Brazelton TR, Shorthouse R, Huang X, Reitz B, **Morris RE**: Obliterative airway disease after heterotopic tracheal xenotransplantation-pathogenesis and prevention using new immunosuppressive agents. *Transplantation* 64(3):373-83, 1997.
124. Briffa N, **Morris RE**: New immunosuppressive regimens in lung transplantation. *European Respiratory Journal*, 10(11):2630-37, 1997.
125. Cheung A, Billingham M, Sherwood S, Brazelton T, Shorthouse R, and **Morris RE**: Leflunomide Abrogates Accelerated Heart Allograft Rejection in Presensitized Rats. *Transplantation Proceedings*, 29, 1294-1295, 1997.

CURRICULUM VITAE

Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

126. Salminen US, Uusitalo M, Ikonen T, Taskinen E, **Morris RE**, Harjula ALJ: Effect of immunosuppression on obliterative lesions in a heterotopic large-animal bronchial allograft model. *Transplantation Proceedings*, 29:7, 3155-56, 1997.
127. Silva HT Jr., Cao W, Shorthouse RA, Loffler M, **Morris RE**: In vitro and in vivo effects of leflunomide, brequinar, and cyclosporine on pyrimidine biosynthesis, *Transplantation Proceedings*. 29(1-2).1997. 1292-1293.
128. Reichenspurner H, Soni V, Nitschke M, Brazelton T, Shorthouse R, Boname J, Adams B, Girgis R, Reitz BA, Mocarski E, Sandford G, Berry G, **Morris RE**: Enhancement of obliterative airway disease (OAD) in rat tracheal allografts infected with recombinant rat cytomegalovirus. *Journal of Heart & Lung Transplantation*. 17(5):439-51, 1998.
129. Gregory CR, Galili U, Hancock WW, Valverde CR, Griffey SM, Berryman ER, **Morris RE**: Squirrel monkeys hyperacutely reject porcine musculocutaneous flaps despite a lack of naturally occurring xenoantibodies. *Transplantation Proceedings*. 30(4):1082-3, 1998.
130. Dosanjh AK, Wan B, Thronset W, Sherwood S, **Morris RE**: Pirfenidone: a novel antifibrotic agent with implications for the treatment of obliterative bronchiolitis. *Transplantation Proceedings*. 30(5):1910-1, 1998.
131. Gregory CR, Stewart A, Sturges B, DeManville T, Cannon A, Ortega T, Harb M, **Morris RE**: Leflunomide effectively treats naturally occurring immune-mediated and inflammatory diseases of dogs that are unresponsive to conventional therapy. *Transplantation Proceedings*. 30(8):4143-8, 1998.

CURRICULUM VITAE

Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

132. Ikonen T, Uusitalo M, Taskinen E, Korpela A, Salminen US, **Morris RE**, Harjula AL: Small airway obliteration in a new swine heterotopic lung and bronchial allograft model. *Journal of Heart & Lung Transplantation*; 17(10):945-53, 1998.
133. Shaw LM, Nicholls A, Hale M, Armstrong VW, Oellerich M, Yatscoff R, **Morris RE**, Holt DW, Venkataramanan R, Haley J, Halloran P, Ettenger R, Keown P, **Morris, REG**: Therapeutic monitoring of mycophenolic acid. A consensus panel report. *Clinical Biochemistry*. 31(5):317-22, 1998.
134. Hausen B, Bahra M, Mueller P, Poets CF, Hewitt CW, **Morris RE**: Donor pretreatment with ambroxol or dexamethasone fails to ameliorate reperfusion injury in experimental lung transplantation. *Transplantation International*. 11(3):186-94, 1998.
135. Hausen B, Ikonen T, Berry G, Hook L, and **Morris RE**: Noninvasive monitoring of pulmonary arterial pressure by telemetry for long-term assessment of graft function following lung transplantation. *Surgical Forum*, 59, 366-69, 1998.
136. Gregory CR, Silva HT, Patz JD, **Morris RE**: Comparative effects of malononitriloamide analogs of leflunomide on whole blood lymphocyte stimulation in humans, rhesus macaques, cats, dogs, and rats. *Transplantation Proceedings*. 30(4):1047-8, 1998.
137. Briffa N, **Morris RE**: Immunosuppressive drugs after lung transplantation. *British Medical Journal*. 316 (7133):719-20, 1998.
138. Gummert JF, Ikonen T, Briffa, Honda Y, Hayase M, Perlroth J, Kobayashi Y, Hausen Barlow C, Billingham ME, Fitzgerald, Yock P, Robbins RC, **Morris, RE**: A new

CURRICULUM VITAE

Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

- large-animal model for research of graft vascular disease. *Transplantation Proceedings*. 30(8):4023, 1998.
139. Segarra I, Brazelton TR, Guterman N, Hausen B, Jacobsen W, **Morris RE**, Benet LZ, Christians U: Development of a high-performance liquid chromatographic-electrospray mass spectrometric assay for the specific and sensitive quantification of the novel immunosuppressive macrolide 40-O-(2-hydroxyethyl)rapamycin. *Journal of Chromatography*. 720(1-2):179-87, 1998.
140. Gummert JF, Christians U, Barten M, Silva H, **Morris RE**: High-performance liquid chromatographic assay with a simple extraction procedure for sensitive quantification of mycophenolic acid in rat and human plasma. *Journal of Chromatography*. 721(2):321-6, 1999.
141. Hausen B, Boeke K, Berry GJ, Segarra IT, Christians U, **Morris RE**: Suppression of acute rejection in allogeneic rat lung transplantation: a study of the efficacy and pharmacokinetics of rapamycin derivative (SDZ RAD) used alone and in combination with a microemulsion formulation of cyclosporine. *Journal of Heart & Lung Transplantation*. 18(2):150-9, 1999.
142. Ikonen TS, Romanska HM, Bishop AE, Berry GJ, Polak JM, **Morris RE**: Alterations in inducible nitric oxide synthase (iNOS) and nitrotyrosine (NitroY) during re-epithelialization of heterotopic rat tracheal composite grafts. *Transplantation Proceedings*. 31(1-2):182, 1999.
143. Jeremias A, Kolz ML, Ikonen TS, Jan F, Gummert JF, Oshima A, Hayase M, Komiyama M, Berry GJ, **Morris RE**: Yock, PG, Fitzgerald PJ: Feasibility of in vivo

CURRICULUM VITAE

Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

- intravascular ultrasound tissue characterization in the detection of early vascular transplant rejection. *Circulation*, 100(21):2127-30, 1999.
144. Brazelton TR, Adams B, Shorthouse R, **Morris RE**: Chronic rejection: the result of uncontrolled remodeling of graft tissue by recipient mesenchymal cells? Data from two rodent models and the effects of immunosuppressive therapies. *Inflammation Research.*; 48 Suppl 2:S134-5, 1999.
145. Slauson S, Billingham ME, Silva HT, Wang Y, **Morris RE**: Quilty effect in heterotopic cardiac allografts in malononitriloamide-treated rats. *Journal of Heart & Lung Transplantation*;18(12):1251-3, 1999.
146. Fox RI, Herrmann ML, Frangou CG, Wahl GM, **Morris RE**, Strand V, Kirschbaum BJ: Mechanism of action for leflunomide in rheumatoid arthritis. *Clinical Immunology*; 93(3):198-208, 1999.
147. Gummert JF, Barten MJ, Sherwood SW, van Gelder T, **Morris RE**: Pharmacodynamics of immunosuppression by mycophenolic acid: inhibition of both lymphocyte proliferation and activation correlates with pharmacokinetics. *Journal of Pharmacology & Experimental Therapeutics*; 291(3):1100-12, 1999.
148. Hausen B, Berry GJ, Dagum P, Ikonen T, Christians U, Briffa N, Hook L, **Morris RE**: The histology of subcutaneously implanted donor bronchial rings correlates with rejection scores of lung allografts in a primate lung transplant model. *Journal of Heart & Lung Transplantation*; 18(7):714-24, 1999.

CURRICULUM VITAE

Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

149. Poston RS, Billingham M, Hoyt EG, Pollard J, Shorthouse R, **Morris RE**, Robbins RC: Rapamycin reverses chronic graft vascular disease in a novel cardiac allograft model. *Circulation*. 100(1):67-74, 1999.
150. Slauson SD, Silva HT, Sherwood SW, **Morris RE**: Flow cytometric analysis of the molecular mechanisms of immunosuppressive action of the active metabolite of leflunomide and its malononitriloamide analogues in a novel whole blood assay. *Immunology Letters*; 67(3):179-83, 1999.
151. Gummert JF, Ikonen T, **Morris RE**: Newer immunosuppressive drugs: a review. *Journal of the American Society of Nephrology*;10(6):1366-80, 1999.
152. Gummert JF, Otto G, Barten MJ, **Morris RE**: Effect of anesthesia on a whole blood lymphocyte proliferation assay in the rat. *Immunopharmacology & Immunotoxicology*; 21(2):267-76, 1999.
153. Ikonen TS, Gummert JF, Honda Y, Hayase M, Perloth J, Hausen B, Barlow C, Fitzgerald P, Yock PG, **Morris RE**: Development of models of graft vascular disease (GVD) in nonhuman primates: evaluation of GVD by intravascular ultrasound. *Transplantation Proceedings*; 31(1-2):687, 1999.
154. Hausen B, Boeke K, Berry GJ, Gummert JF, Christians U, **Morris RE**: Potentiation of immunosuppressive efficacy by combining the novel leflunomide analog, HMR 279, with microemulsion cyclosporine in a rat lung transplant model. *Transplantation*; 67(3):354-9, 1999.
155. Hausen B, Boeke K, Berry GJ, Segarra I, Benet LZ, Christians U, **Morris RE**: Coadministration of Neoral® and the novel rapamycin analog, SDZ RAD, to rat lung

CURRICULUM VITAE

Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

- allograft recipients: potentiation of immunosuppressive efficacy and improvement of tolerability of staggered versus simultaneous treatment. *Transplantation*; 67(7):956-62, 1999.
156. Rubin RH, Ikonen T, Gummert JF, and **Morris RE**: The therapeutic prescription for the organ transplant recipient: The linkage of immunosuppression and antimicrobial strategies. *Transplant Infectious Disease*, 1:1, 29-39, 1999.
157. Hausen B, Ikonen T, Briffa N, Berry GJ, Christians U, Robbins RC, Hook L, Serkova N, Benet LZ, Schuler W, **Morris RE**: Combined immunosuppression with cyclosporine (Neoral®) and SDZ RAD in non-human primate lung transplantation: systematic pharmacokinetic-based trials to improve efficacy and tolerability. *Transplantation*; 69(1):76-86, 2000.
158. Chen BJ, **Morris RE**, Chao NJ: Graft-versus-host disease prevention by rapamycin: cellular mechanisms. *Biology of Blood, Marrow & Transplants*. 6(5A):529-36, 2000.
159. Dambrin C, Klupp J, **Morris RE**: Pharmacodynamics of immunosuppressive drugs. *Current Opinion in Immunology*; 12(5):557-62, 2000.
160. Serkova N, Hausen B, Berry GJ, Jacobsen W, Benet LZ, **Morris RE**, Christians U: Tissue distribution and clinical monitoring of the novel macrolide immunosuppressant SDZ-RAD and its metabolites in monkey lung transplant recipients: interaction with cyclosporine. *Journal of Pharmacology & Experimental Therapeutics*; 294(1):323-32, 2000.
161. Hausen B, Gummert J, Berry GJ, Christians U, Serkova N, Ikonen T, Hook L, Legay F, Schuler W, Schreier MH, **Morris RE**: Prevention of acute allograft rejection

CURRICULUM VITAE

Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

- in nonhuman primate lung transplant recipients: induction with chimeric anti-interleukin-2 receptor monoclonal antibody improves the tolerability and potentiates the immunosuppressive activity of a regimen using low doses of both microemulsion cyclosporine and 40-O-(2-hydroxyethyl)-rapamycin. *Transplantation*; 69(4):488-96, 2000.
162. Adams BF, Brazelton T, Berry GJ, **Morris RE**: The role of respiratory epithelium in a rat model of obliterative airway disease. *Transplantation*; 69(4):661-4, 2000.
163. Poston RS, Robbins RC, Chan B, Simms P, Presta L, Jardieu P, **Morris RE**: Effects of humanized monoclonal antibody to rhesus CD11a in rhesus monkey cardiac allograft recipients. *Transplantation*; 69(10):2005-13, 2000.
164. Adams BF, Berry GJ, Huang X, Shorthouse R, Brazelton T, **Morris,RE**: Immunosuppressive therapies for the prevention and treatment of obliterative airway disease in heterotopic rat trachea allografts. *Transplantation*; 69(11):2260-6, 2000.
165. Ikonen TS, Briffa N, Gummert JF, Honda Y, Hayase M, Hausen B, Billingham ME, Yock PG, Robbins RC, **Morris RE**: Multidimensional assessment of graft vascular disease (GVD) in aortic grafts by serial intravascular ultrasound in rhesus monkeys. *Transplantation*; 70(3):420-9, 2000.
166. Ikonen TS, Brazelton TR, Berry GJ, Shorthouse RS, **Morris RE**: Epithelial re-growth is associated with inhibition of obliterative airway disease in orthotopic tracheal allografts in non-immunosuppressed rats. *Transplantation*; 70(6):857-63, 2000.
167. Romanska HM, Ikonen TS, Bishop AE, **Morris RE**, Polak JM: Up-regulation of inducible nitric oxide synthase in fibroblasts parallels the onset and progression of

CURRICULUM VITAE

Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

- fibrosis in an experimental model of post-transplant obliterative airway disease. *Journal of Pathology*;191(1):71-7, 2000.
168. Ikonen, TS, Gummert, JF, Serkova, N, Hayase, M, Honda, Y, Kobayase, Y, Hausen, B, Yock, PG, Christians, U, **Morris RE**: Efficacies of sirolimus (rapamycin) and cyclosporine in allograft vascular disease in non-human primates: Trough levels of sirolimus correlate with inhibition of progression of arterial intimal thickening. *Transplant Intl.*; 13 (Suppl 1): S314-20, 2000.
169. Duane DD, Monroe J, **Morris RE**: Mycophenolate in the prevention of recurrent neutralizing botulinum toxin A antibodies in cervical dystonia. *Movement Disorders*;15(2):365-6, 2000.
170. Hausen B, Boeke K, Berry GJ, Christians U, Schuler W, **Morris RE**: Successful treatment of acute, ongoing rat lung allograft rejection with the novel immunosuppressant SDZ-RAD. *Annals of Thoracic Surgery*; 69(3):904-9, 2000.
171. Serkova N, Litt L, Leibfritz D, Hausen B, **Morris RE**, James TL, Benet LZ, Christians U: The novel immunosuppressant SDZ-RAD protects rat brain slices from cyclosporine-induced reduction of high-energy phosphates. *British Journal of Pharmacology*; 129(3):485-92, 2000.
172. Ikonen TS, Gummert JF, Hayase M, Honda Y, Hausen B, Christians U, Berry GJ, Yock PG, **Morris RE**: Sirolimus (rapamycin) halts and reverses progression of allograft vascular disease in non-human primates. *Transplantation*; 70(6):969-75, 2000.

CURRICULUM VITAE

Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

173. Gummert JF, Barten MJ, van Gelder T, Billingham ME, **Morris RE**: Pharmacodynamics of mycophenolic acid in heart allograft recipients: correlation of lymphocyte proliferation and activation with pharmacokinetics and graft histology. *Transplantation*; 70(7):1038-49, 2000.
174. **Morris RE**: Immunosuppression for transplantation. *Current Opinion in Anti-inflammatory & Immunomodulatory Investigational Drugs*. 2(4):275, 2000.
175. Serkova N, Hausen B, Berry GJ, Jacobsen W, Benet LZ, **Morris RE**, Christians U: Tissue distribution and clinical monitoring of the novel macrolide immunosuppressant SDZ-RAD and its metabolites in monkey lung transplant recipients: Interaction with cyclosporine, *Journal of Pharmacology & Experimental Therapeutics*. 294(1), 2000. 323-332.
176. Doyle RL, Hertz MI, Dunitz JM, Loyd JE, Stecenko AA, Wong RL, Chappell KA, Brazelton T, Kovarik JM, Appeldingemane S, Dou L, Smith HT, Tudor D, and **Morris RE**: RAD in stable lung and heart/lung transplant recipients: Safety, tolerability, pharmacokinetics, and impact of cystic fibrosis. *Journal of Heart & Lung Transplantation*, 20:3, 330-39, 2001.
177. Morikawa M, Brazelton T, Berry GJ, **Morris RE**: Prolonged inhibition of obliterative airway disease in murine tracheal allografts by brief treatment with anti-LFA-1 (CD11a) monoclonal antibody. *Transplantation*. 71(11), 2001. 1616-1621.
178. Klupp J, Van Gelder T, Dambrin C, Regieli J, Boeke K, Billingham ME, **Morris RE**. Mycophenolate mofetil pharmacodynamics and pharmacokinetics correlate with

CURRICULUM VITAE

Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

- rejection score in a BN to LEW heterotopic heart transplant model. *Transplantation Proceedings*. 33(3), 2001. 2170-2171.
179. Van Gelder T, Klupp J, Barten MJ, Christians U, and **Morris RE**: Comparison of the effects of tacrolimus and cyclosporine on the pharmacokinetics of mycophenolic acid. *Therapeutic Drug Monitoring*. 23(2), 2001. 119-128.
180. Walpoth BH, Pavlicek M, Celik B, Nicolaus B, Schaffner T, Althaus U, Hess OM, **Morris RE**: Prevention of neointimal proliferation by immunosuppression in synthetic vascular grafts. *European Journal of Cardio-Thoracic Surgery*, 19, 487-492, 2001.
181. Hausen B, Klupp J, Christians U, Higgins JP, Baumgartner RE, Hook LE, Friedrich S, Celnicker A and **Morris RE**: Co-administration of either cyclosporine or steroids with humanized monoclonal antibodies against CD80 and CD 86 successfully prolong allograft survival times after life supporting renal transplantation in cynomolgus monkeys. *Transplantation* 72 (6): 1128-37, 2001.
182. **Morris RE**: Vascular and cellular mechanisms of chronic renal allograft dysfunction. *Transplantation* 71 (11 supplement): SS 37-41, 2001.
183. Hausen B, Boeke K, Berry GJ and **Morris RE**: Viral serine proteinase inhibitor (SERP-1) effectively decreases the incidence of graft vasculopathy in heterotopic heart allografts. *Transplantation* 72 (3): 364-8, 2001.
184. Braun-Dullaeus RC, Mann MJ, Seay U, Zhang L, Von Der Leyen HE, **Morris RE** and Dzau VJ: Cell cycle protein expression in vascular smooth muscle cells in vitro and in vivo is regulated through phosphatidylinositol 3-kinase and mammalian target of rapamycin. *Arteriosclerosis, Thrombosis and Vascular Biology* 21 (7): 1152-8, 2001.

CURRICULUM VITAE

Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

185. Van Gelder T, Klupp J, Sawamoto T, Christians U and **Morris RE**: ATP-binding cassette transporters and calcineurin inhibitors: potential clinical applications. *Transplantation proceedings* 33(3): 2420-1, 2001.
186. Barten MJ, van Gelder T, Gummert JF, Shorthouse R, Boeke K, Billingham ME and **Morris RE**: New mechanisms of action of mycophenolate mofetil in transplant recipients by assessment of its pharmacodynamics. *Transplantation Proceedings* 33 (3): 2254-5, 2001.
187. Klupp J, Dambrin C, Regieli J, Van Gelder T, Shorthouse R and **Morris, RE**: New approach in drug development: whole blood pharmacodynamic assays reflect biological activities of tacrolimus. *Transplantation Proceedings* 33 (3): 2172, 2001.
188. Klupp J, Van Gelder T, Dambrin C, Regieli J, Boeke K, Billingham ME and **Morris RE**: Mycophenolate mofetil pharmacodynamics and pharmacokinetics correlate with rejection score in a BN-to-LEW heterotopic heart transplant model. *Transplantation Proceedings* 33(3): 2170-1, 2001.
189. Barten MJ, Gummert JF, Van Gelder T, Shorthouse R and **Morris RE**: Assessment of mechanisms of action of immunosuppressive drugs using novel whole blood assays. *Transplantation Proceedings* 33(3):2119-20, 2001.
190. Barten MJ, Gummert JF, Van Gelder T, Shorthouse R and **Morris RE**: Flow cytometric quantitation of calcium-dependent and independent mitogen-stimulation of T cell functions in whole blood: inhibition by immunosuppressive drugs in vitro. *Journal of Immunological Methods* 253(1-2):95-112, 2001.

CURRICULUM VITAE

Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

191. Jacobsen W, Serkova N, Hausen B, **Morris RE**, Benet LZ, Christians U: Comparison of the in vitro metabolism of the macrolide immunosuppressants sirolimus and RAD, Transplantation Proceedings. 33(1-2), 2001. 514-515.
192. Vriens PW, Pollard JD, Hoyt G, **Morris RE**, Scheringa M, Bouwman E, Robbins RC: Hamster cardiac xenografts are protected against antibody mediated damage, early after transplantation to Lewis rats. Xenotransplantation 8(4):239-46, 2001.
193. Dosanjha A, Wan B, Ikonen T, Boeke K, **Morris RE**: Airway goblet cells and respiratory epithelial injury in an animal model of obliterative airways disease (OAD). Am J Transplant. 2001 Nov;1(4):321-324
194. Dosanjha A, **Morris RE**, Wan B: Bronchial epithelial cell-derived cytokine IL-10 and lung fibroblast proliferation. Transplant Proc. 2001 Feb-Mar; 33(1-2):352-354. No abstract available
195. Kyles AE, Gregory CR, Griffey SM, Galvez J, Ramsamooj R, **Morris RE**: Evaluation of the clinical and histologic features of renal allograft rejection in cats. Vet Surg. 31(1):49-56, 2002.
196. Barten MJ, van Gelder T, Gummert JF, Boeke K, Shorthouse R, Billingham ME, **Morris RE**: Pharmacodynamics of mycophenolate mofetil after heart transplantation: new mechanisms of action and correlations with histologic severity of graft rejection, American Journal of Transplantation 2002 (2):719-32.
197. Dosanjh A, Ikonen T, Wan B, **Morris RE**: Pirfenidone: A novel anti-fibrotic agent and progressive chronic allograft rejection. Pulmonary Pharmacology & Therapeutics. 15(5).2002. 433-437.

CURRICULUM VITAE

Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

198. Barten MJ, van Gelder T, Gummert JF, Shorthouse R, **Morris RE**: Novel assays of multiple lymphocyte functions in whole blood measure new mechanisms of action of mycophenolate mofetil in vivo. *Transplant Immunology* 10(1) 1-14, 2002.
199. Borie DC, Hausen B, Larson M, Klupp J, Stalder M, Birsan T, **Morris, RE**: A life-supporting technique of renal allotransplantation in macaca fascicularis to evaluate
200. Lam TT, Hausen B, Squires E, Cozzi E, **Morris RE**: Cyclophosphamide induced postoperative anemia in cynomolgus monkey recipients of hDAF-transgenic pig organ xenografts. *Transpl Proc* 2002; 34: 1451-1452.
201. Kyles AE, Gregory CR, Griffey SM, Jackson J, Bernsteen L, **Morris RE**: An evaluation of combined immunosuppression with MNA 715 and microemulsified cyclosporine on renal allograft rejection in mismatched mongrel dogs. *Vet surg.* 2002 Jul-Aug;31(4):358-366
202. Singer LG, Brazelton TR, Doyle RL, **Morris RE**, Theodore J: Weight gain after lung transplantation. *J Heart Lung Transplant.* 2003 Aug, 22(8): 894-902
203. Kyles AE, Gregory CR, Griffey SM, Bernsteen L, Pierce J, Kilia HS, **Morris RE**: Modified noble plication for the prevention of intestinal intussusception after renal transplantation in dogs. *J Invest Surg.* 2003 May-June; 16(3): 161-166
204. Kyles AE, Gregory CR, Griffey SM, Bernsteen L, Pierce J, Lilja HS, **Morris RE**: Immunosuppression with a combination of the leflunomide analog, FK778, and microemulsified cyclosporine for renal transplantation in mongrel dogs. *Transplantation.* 2003 April 27;75(8): 1128-1133

CURRICULUM VITAE

Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

205. Lam TT, Borie DC, Masek M, Berry G, Larson M, **Morris RE**: Graft thrombosis in hDAF-transgenic pig hearts transplanted into Rhesus monkeys. *Xenotransplantation*, 2003;0:185-186.
206. Borie DC, Si M-S, **Morris RE**, Reitz BA, Changelian PS: JAK3 inhibition as a new concept for immune suppression. *Current Opinion in Investigational Drugs* 2003, 4 (11):1297-1303.
207. Changelian PS, Flanagan ME, Ball DJ, Kent CR, Magnuson KS, Martin WH, Rizzuti BJ, Sawyer PS, Perry BD, Brissette WH, McCurdy SP, Kudlacz EM, Conklyn MJ, Elliott EA, Koslov ER, Fisher MB, Strelevitz TJ, Yoon K, Whipple, DA, Sun J, Munchhof MJ, Doty JL, Casavant JM, Blumenkopf TA, Hines M, Brown MF, Lillie BM, Subramanyam C, Shang-Pao C, Milici AJ, Beckius GE, Moyer JD, Su C, Woodworth TG, Gaweco AS, Beals CR, Littman BH, Fisher DA, Smith JF, Zagouras P, Magna HA, Saltarelli MJ, Johnson KS, Nelms LF, Des Etages SG, Hayes LS, Kawabata TT, Finco-Kent D, Baker DL, Larson M, Si M-S, Paniagua R, Higgins J, Holm B, Reitz B, Zhou Y-J, **Morris RE**, O'Shea JJ, Borie DC: Prevention of organ allograft rejection by a specific Janus Kinase 3 inhibitor. *Science*, 2003; 302:875-878.
208. Stalder M, Birsan T, Hubble RW, Paniagua RT, **Morris RE**: In vivo evaluation of the novel calcineurin inhibitor ISATX247 in non-human primates. *Journal of Heart & Lung Transplantation*. 2003, 22 (12)1343-1352.
209. Stalder M, Birsan T, Holm B, Haririfar M, Scandling J, **Morris RE**: Quantification of immunosuppression by flow cytometry in stable renal transplant recipients. *Therapeutic Drug Monitoring*. 2003, 25 (1) 22-27.

CURRICULUM VITAE

Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

210. Birsan Tudor, Hausen B, Higgins JP, Hubble RW, Klupp J, Stalder M, Celniker A, Friedrich S, O'Hara RM, **Morris RE**: Treatment with humanized monoclonal antibodies against CD80 and CD86 combined with sirolimus prolongs renal allograft survival in cynomolgus monkeys. *Transplantation*, 2003 75 (12) 2106-2113
211. Dambrin C, Klupp J, Birsan T, Luna J, Suzuki T, Lam T, Stahr P, Hausen B, Christians U, Fitzgerald P, Berry G, **Morris RE**: Sirolimus (rapamycin) monotherapy prevents graft vascular disease in nonhuman primate recipients of orthotopic aortic allografts. *Circulation*. 2003, 107(18):2369-74
212. Freitag DG, Abel MD, Aspeslet LJ, Trepanier DJ, Mayo PR, Halloran PF, Kneteman NT, **Morris RE**, Gregory CR, Foster RT, Yatscoff RW: Development of the novel immunosuppressive agent ISATX247 using a pharmacodynamic approach. *Toxicological Sciences* 2003, 72 :4-4
213. Gregory CR, Kyles AE, Bernsteen L, Wagner GS, Tarantal AF, Christe KL, Brignolo L, Spinner Abigail, Griffey SM, Paniagua RT, Hubble RW, Borie DC, **Morris RE**: Compared with Cyclosporine, ISATX247 Significantly Prolongs Renal-Allograft Survival in a Nonhuman Primate Model. *Transplantation*. 2004, 78(5):681-685
214. Lam TT, Hausen B, Boeke-Purkis K, Paniagua R, Lau M, Hook L, Berry G, Higgins J, Duthaler R, Katopodis A, Robbins R, Reitz B, Borie DC, Schuurman H, **Morris RE**: Hyperacute rejection of hDAF-transgenic pig organ xenografts in cynomolgus monkeys: influence of pre-existing anti-pig antibodies and prevention by the α Gal glycoconjugate GAS914; *Xenotransplantation* 2004: 11: 517-524

CURRICULUM VITAE

Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

215. Flores MG, Zhang S, Ha A, Holm B, Reitz BA, **Morris RE**, Borie DC: In vitro evaluation of the effects of candidate immunosuppressive drugs: flow cytometry and quantitative real-time PCR as two independent and correlated read-outs; 2004: Journal of Immunological Methods 2004: 289(1-2) 123-135
216. Klupp J, Van Gelder T, Dambrin C, Regieli JJ, Boeke K, Billingham ME, **Morris RE**: Sustained suppression of peripheral blood immune functions by treatment with mycophenolate mofetil correlates with reduced severity of cardiac allograft rejection. Journal of Heart & Lung Transplantation. 2004: 23(3). 334-351
217. Lam TT, Boeke-Purkis K, Lau M, Paniagua R, Schuurman H-J, **Morris RE**: Anti-pig antibody levels in nonhuman primates of various origin. Xenotransplantation. 2004;11:332-339.
218. Lam TT, Paniagu R, Shivaram G, Schuurman H-J, Borie D, **Morris RE**: Anti-non-Gal porcine endothelial cell antibodies in acute humoral xenograft rejection of hDAF-transgenic porcine hearts in cynomolgus monkeys. Xenotransplantation. 2004, 11, 6, 531-535
219. Murata S, Sundell CL, Lijkwan MA, Balsam LB, Hammainen P, Coleman C, York C, Luchoomun J, Suen K-L, Howard R, Somers PK, **Morris RE**, Robbins RC: Effects of AGI-1096, a novel antioxidant compound with anti-inflammatory and antiproliferative properties, on rodent allograft arteriosclerosis; Transplantation. 2004. 77(10). 1494-1500.
220. Dosanjh A, Ikonen T, **Morris RE**: Respiratory epithelial expression of integrin alphaVbeta6 in chronic progressive allograft rejection; Journal of Heart & Lung Transplantation. 23(4) 2004. 456-460.

CURRICULUM VITAE

Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

221. Briffa NP, Shorthouse R, Chan J, Silva H, Billingham M, Brazelton T, **Morris RE**: Histological and immunological characteristics of, and the effect of immunosuppressive treatment on, xenograft vasculopathy. *Xenotransplantation*. 11(2) 2004. 149-159
222. **Morris RE**: The future of immunosuppression: A personal view. *Transplantation Proceedings*. 36(2S) 2004. 577-579
223. Burkhart C, Heusser C, **Morris RE**, Raulf F, Weckbecker G, Weitz-Schmidt G, Welzenbach K: Pharmacodynamics in the Development of New Immunosuppressive Drugs. *Ther Drug Monit*. 2004, 26:588-593
224. Birsan T, Dambrin C, Marsh KC, Jacobsen W, Djuric SW, Mollison KW, Christians U, Carter GW, **Morris RE**: Preliminary in vivo pharmacokinetic and pharmacodynamic evaluation of a novel calcineurin-independent inhibitor of NFAT, *Transplant International*. 2004, 17: 145-150
225. Voshol H, Brendlen N, Müller D, Inverardi B, Augustin A, Pally Ch, Wieczorek G, **Morris, RE**, Raul F, van Oostrum J: Evaluation of Biomarker Discovery approaches to Detect Protein Biomarkers of Acute Renal Allograft Rejection, *Journal of Proteome Research*. 2005, 4, 1192 – 1199
226. Birsan T, Dambrin C, Freitag DG, Yatscoff RW, **Morris RE**: The novel calcineurin inhibitor ISATX247: a more potent immunosuppressant than cyclosporine in vitro; *Transplant International*, 2005, 17: 767-771

CURRICULUM VITAE

Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

227. Paniagua R, Holm B, Lau M, Kale A, Changelian PS, Larson M, Reitz BA, **Morris RE**, Borie DC: Quantitative analysis of the immunosuppressant CP-690,550 in whole blood by column-switching high-performance liquid chromatography and mass spectrometry detection; *Ther Drug Monit.* 2005; 27(5):608-16.
228. Lam TT, Hausen B, Hook L, Lau M, Higgins J, Christians U, Jacobsen W, Baluom M, Duthaler R, Katopodis A, Chavez G, Cozzi E, Harrison R, Schuurman H-J, Borie D, and **Morris RE**: The effect of soluble complement receptor type 1 on acute humoral xenograft rejection in hDAF-transgenic pig-to-primate life-supporting kidney xenografts, *Xenotransplantation.* 2005, 12, 1, 20-29
229. Stalder M, Tye T, Lam TT, Chan MCY, Berry GJ, Borie DC, **Morris RE**: Improved assessment of graft function by echocardiography in cynomolgus monkey recipients of hDAF-transgenic pig cardiac xenografts, *The Journal of Heart and Lung Transplantation.* 2005. 24, 2, 215-221,
230. Borie DC, Changelian PS, Larson MJ, Si M-S, Paniagua R, Higgins JP, Holm B, Campbell A, Lau M, Zhang S, Flores MG, Rousvoal G, Ball DA, Hawkins J, Kudlacz EM, Brissette WH, Elliott EA, Reitz BA, **Morris RE**: Immunosuppression by the JAK3 Inhibitor CP-690,550 Delays Rejection and Significantly Prolongs Kidney Allograft Survival in Nonhuman Primates: *Transplantation.* 2005; 79: 791-801
231. Chan MCY, Stalder M, Lam TT, Tye T, Borie DC, **Morris RE**: Use of Echocardiography to Assess Function of HDAF-Transgenic Pig Cardiac Xenografts, *Transplantation Proceedings,* 37, 1923-1925, 2005

CURRICULUM VITAE

Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

232. Stalder M, Birsan T, Hausen B, Borie DC, **Morris RE**: Immunosuppressive effects of surgery assessed by flow cytometry in nonhuman primates after nephrectomy, *Transplant International*. 2005. 18, 1158-1165
233. Lam TT, Hausen B, Hook L, Lau M, Higgins J, Christians U, Jacobsen W, Baluom M, Duthaler R, Katopodis A, Chavez G, Cozzi E, Harrison R, Schuurman HJ, Borie D, **Morris RE**: The effect of soluble complement receptor type 1 on acute humoral xenograft rejection in hDAF-transgenic pig-to-primate life-supporting kidney xenografts. *Xenotransplantation*. 2005. 12(1):20-9
234. Weckbecker G, Bruns C, Fischer KD, Heusser C, Li J, Metzler B, **Morris RE**, Nuesslein-Hildesheim B, Raulf F, Wieczorek G, Zecri F, Zenke G: Strongly reduced alloreactivity and Long-Term Survival Times of Cardiac Allografts in Vav1- and Vav1/Vav2-Knockout Mice, *Transplant International* 2007 20 (4):353-64
235. Weckbecker G, Bruns C, Fischer KD, Heusser C, Li J, Metzler B, **Morris RE**, Nuesslein-Hildesheim B, Raulf F, Wieczorek G, Zenke G: Strongly reduced alloreactivity and long-term survival times of cardiac allografts in Vav1- and Vav1/Vav2-knockout mice. *Transpl Int*. 2007 Apr;20(4):353-64
236. Zahorsky-Reeves JL, Kearns-Jonker MK, Lam TT, Jackson JR, **Morris RE**, Starnes VA, Cramer DV: The xenoantibody response and immunoglobulin gene expression profile of cynomolgus monkeys transplanted with hDAF-transgenic porcine hearts. *Xenotransplantation*. 2007 Mar;14(2):135-44
237. Chapman JR, Valantine H, Albanell J, Arns WA, Campistol JM, Eisen H, Frigerio M, Lehmkuhl H, Marcen R, **Morris RE**, Nashan B, Pascual J, Pohanka E, Segovia J, Zuckermann A: Proliferation signal inhibitor in transplantation: Questions at the

CURRICULUM VITAE

Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

- cutting edge. 2007. Transplantation Proceedings. 39 (10):2937-50
238. **Morris, RE**: Discovery and Development of Immunosuppressants for Transplantation: What are the lessons for specialty medicines? Current Opinion in Investigational Drugs. 2008. 9 (5): 451-454.
239. Chadban S, **Morris RE**, Hirsch H, Bunnapradist S, Arns W, Budde K, Immunosuppression in renal Transplantation; Some aspects for the modern era. Transplant Rev. 2008. July 25.
240. Skvara H, Dawid M, Kleyn CE, Kopp T, Fallahi N, Knight H, Dumortier T, Burkhart C, Grenet O, Wagner J, Hijazi Y, **Morris, RE**, McGeown C, Marbach P, Rordorf C, Griffiths CEM, Stingl G, Jung T: The PKC Inhibitor AEB071, may be a therapeutic option for psoriasis. 2008. J Clin Investigation. 118 (9):3181-3199
241. Wagner J, Zenke G, Baier G, Bigaud M, Evenou J-P, Brinkmann V, Pally C, Wieczorek G, Weckbecker G, Beerli C, Bruns C, Heusser C, Burkhart C, Welzenbach K, Kovarik J, Gruber T, Lutz-Nicoladoni C, Thuille N, Albert R, Cooke N, Sedrani R, van Eis M, Vangrevelinghe E, von Matt P, Marbach P, Dumortier T, Geiser M, Strauss A, Rummel G, Stark W, **Morris RE**, Cottens S: Pharmacological Inhibitor of Protein Kinase C Prevents Early T-Cell Activation and Organ Allograft Rejection. Submitted, 2008
242. Knochenmuss R, Zhang J, Houdiere F, Muller A, Pally C, Wieczorek G, **Morris RE**, Raulf F, Falchetto R. Applications of metabolomics by high resolution mass spectrometry to early diagnosis of acute rejection of renal allograft rejection. Submitted, 2008

CURRICULUM VITAE

Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

MONOGRAPHS

1. Transplantation's grim reality demands improvements in immunology. Invited profile in Bioresearch Separations Forum, 3, No. 1, Washington D.C., 1986.
2. **Morris, RE**, Metcalfe, S.: Immunosuppression and induced tolerance: prospective approaches for the control of transplant rejection, 1-47, 1996.

CURRICULUM VITAE

Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

3. **Morris, RE**, "Evolution of Immunology" Discovery of New Immunosuppressants for Transplantation, 2006 Evolution of Immunology, Saito, R(Ed.), Iyaku (Medicine + Drug) Journal, Osaka, Japan

CURRICULUM VITAE

Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

BOOK CHAPTERS

1. **Morris RE:** Rapamycin. In New Immunosuppressive Drugs, edited by D. Przepiorka, 951-75, 1994.
2. **Morris RE:** Rapamycin for transplantation. In New Immunosuppressive Modalities and Anti-rejection Approaches in Organ Transplantation, edited by J.W. Kupiec-Weglinski, 43-63, 1994.
3. **Morris RE:** New immunosuppressive drugs. In Heart Surgery 1995, edited by L.C. D'alessandro, Rome, 1995, Casa Editrice Scientifica Internazionale, pp. 221-236.
4. **Morris RE:** New immunosuppressants for transplantation. In Thoracic Transplantation, edited by S.J. Shumway and N.E. Shumway, (eds.), Blackwell Science, Cambridge, MA, 1995, pp 445-451.
5. **Morris RE:** New immunosuppressive drugs. New Developments in Transplantation Medicine, 1:30-31, 1995
6. **Morris RE:** New immunosuppressive drugs: mycophenolate mofetil. New Developments in Transplantation Medicine, 2: 10-12, 1995
7. **Morris RE:** New immunosuppressive drugs. In Handbook of Cardiac Transplantation, edited by R. Emery and L. Miller, Hanley & Belfus, Philadelphia, PA, 1995, pp. 109-117.
8. Hayry P and **Morris RE:** Biological agents and third-generation immunosuppressants. In Atlas Clinical Transplantation, ed. A. Harjula and K. Hockerstedt, 194-99, 1995.

CURRICULUM VITAE

Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

9. **Morris RE:** New small molecule immunosuppressants for transplantation: Review for essential concepts. In Transplantation Immunology, edited by F. Bach and H. Auchincloss, 199-120, 1995.
10. **Morris RE:** New immunosuppressive drugs. In Trends in Organ Transplantation, edited by B.A.H. Williams and D.M. Sandiford-Guttenbeil, Springer Publishing Company, 1996, pp. 83-94.
11. **Morris RE:** New immunosuppressive drugs. In Transplantation of the Liver, edited by R.W. Bussuttil and G.B. Klintmalm, W.B. Saunders, 1996, pp. 760-786.
12. Suthanthiran M, **Morris RE**, Strom TB: Transplantation Immunobiology. In Campbell's Urology, 7th Edition, edited by Walsh et al., 491-504, 1996.
13. Brazelton TR, Cheung A, **Morris RE:** Immunosuppressants in xenografting. In Xenotransplantation: The Transplantation of Organs and Tissues Between Species. edited by D. Cooper, 1996 pp. 602-633.
14. Alfrey EJ, **Morris RE:** Transplant immunopharmacology. Fundamentals of Surgery, 1997.
15. Fox RI and **Morris RE:** Inhibitors of de novo nucleotide synthesis in the treatment of rheumatoid arthritis. In Novel Therapeutic Agents for the Treatment of Autoimmune Diseases, V. Strand, D.L. Scott, and L.S. Simon, eds., Marcel Dekker, New York, NY, 1997, pp. 257-286.
16. Nair RV, Gregory CR, Huang X, Cao W, **Morris RE:** Prevention of arterial restenosis by rapamycin and mycophenolate mofetil: A new role for novel immunosuppressants in the prevention of post-balloon angioplasty restenosis? In The Role of Immune

CURRICULUM VITAE

Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

- Mechanisms in Cardiovascular Disease, edited by H-P Schultheiss & P. Schwimmbeck, 1997, pp 270-281.
17. **Morris RE**: Investigational immunosuppressants: non-biologics. In ASTP Primer on Transplantation, 103-112, 1999.
 18. Gummert JF, Ikonen, T, **Morris RE**: New Immunosuppressive Agents, in *Transplantation Immunobiology*, edited by R. J. Duquesnoy. 2000.
 19. Klupp J, and **Morris RE**. Unapproved Non-Biologic Immunosuppressants, in Pediatric Solid Organ Transplantation, Eds., AH Tejani, WE Harmon and RN Fine. Copenhagen: Munksgaard, 121-134, 2000.
 20. Briffa NP, Gregory CR, **Morris RE**: Immunosuppressive Drugs for the Prevention and Treatment of Transplant Coronary Artery Vasculopathy. In Transplant Associated Coronary Artery Vasculopathy, edited by M.L. Rose, Georgetown, Texas: R. G. Landes Co., 2001.
 21. Gummert JF, Ikonen TS, **Morris RE**: Newer Immunosuppressants in Transplant Rejection. in Cardiac Allograft Rejection. M. Ballester, I. Carrio, G.W. Dec, J. Narula, editors, Springer-Verlag, 2001.
 22. Klupp J, **Morris RE**: Unapproved nonbiologic immunosuppressants. In Primer on Transplantation, 119-132, 2001.
 23. Klupp J, **Morris RE**: Unapproved nonbiologic immunosuppressants. In Heart and Lung Transplantation, edited by Baumgartner WA, Kasper E, Reitz B and Theodore J, W.B. Saunders, 2002, pp. 567-577.

CURRICULUM VITAE

Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

CURRICULUM VITAE

Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

PUBLISHED ABSTRACTS

1. **Morris RE**, Thomas, P.T. and Hong, R.: Detection of cell surface antigens by the cellular enzyme-linked immunosorbent assay (CELISA) *Human Immunology*, 3:377, 1981.
2. Shorthouse R and **Morris RE**: Use of enzyme assays to assess *in vitro* lymphocyte activation. *Fed. Proc.*, 46:634, 1986.
3. Cheng PJ and **Morris RE**: A new rapid, high capacity chromatographic technique for the purification of IgG₁ monoclonal antibodies directly from mouse ascites. *Fed. Proc.*, 46:733, 1986.
4. **Morris RE** and Shorthouse R: "Turbo ELISA" or how to get the most from alkaline phosphatase conjugates. *Fed. Proc.*, 46:733, 1986.
5. DeValeria P and **Morris RE**: Re-transplanted tissue from long-term allografts is highly immunogenic. *Fed. Proc.*, 45:267, 1986.
6. Hoyt G, DeValeria P, Whitehead J and **Morris RE**: Concanavalin A and its succinylated derivative are nontoxic immunosuppressants of graft rejection. *Fed. Proc.*, 45:500, 1986.
7. Skogen B, DeValeria P, Clark W, Cheng P, Kim J, and **Morris RE**: Anticardiac myosin monoclonal antibody demarcates cardiac rejection. *Fed. Proc.*, 45:501, 1986.
8. Keller J, DeValeria P and **Morris RE**: 1,4-BIS<(2-Aminoethyl) Amino>-5, 8-Dihydroxy-9, 10-Anthracendione (AEAD) and Mitoxantrone (MXN) are ineffective immunosuppressants for cardiac transplantation. *FASEB J.*, 2:1847, 1988.

CURRICULUM VITAE

Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

9. Shorthouse R and **Morris RE**: Development of a radiometric host vs. graft rejection (HVGR) popliteal lymph node (PLN) assay to evaluate immunosuppressive (IS) drugs. FASEB, 2:1846, 1988.
10. Gudas V and **Morris RE**: FK-506 does not prolong rat cardiac xenograft survival. FASEB J., 2:1847, 1988.
11. Carmichael PG and **Morris RE**: Alteration of in vivo allogeneic functions by ultraviolet B (UVB). FASEB J., 2:1847, 1988.
12. **Morris RE**, R Shorthouse R, Hoyt G: Initial studies on oral FK-506 in cardiac allograft recipients: dose response, effect of splenectomy, and synergism with cyclosporine (CsA). FASEB J., 2:1847, 1988.
13. Yuh DD, Zurcher B, Rulifson E and **Morris RE**: Efficacy of Didemnin B therapy in prolonging cardiac allograft survival in mice and rats. FASEB J., 2:1846, 1988.
14. Meiser BM, Reichart B, **Morris RE**: FK506(FK) and rapamycin (RPM), two new immunosuppressive macrolides have much more efficacy and less side effects than cyclosporine (CsA) in experimental heart transplantation. The Thoracic and Cardiovascular Surgeon, 38(Supplement 1):90, 1990.
15. Meiser BM, Billingham ME, **Morris RE**: The effect of cyclosporine and two new immunosuppressive macrolides FK506 and rapamycin, on heart graft rejection and graft coronary atherosclerosis. J. Heart Transplant., 9:55, 1990.

CURRICULUM VITAE

Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

16. **Morris RE**, Hoyt EG, Wang J: RS-61443 (RS) is a novel and specific inhibitor of T and B cell purine synthesis that induces transplant tolerance reverses acute rejection and prolongs xenograft survival. *J. Heart Transplant.*, 9:62, 1990.
17. **Morris RE**, Wang J, Wu J, Shorthouse R, and Meiser B: Induction of graft tolerance by brief treatment with rapamycin (RPM): a new, far more potent and effective immunosuppressant than cyclosporine A. *J. Heart Transplant.*, 9:62, 1990.
18. **Morris RE** and Yuh DD: 15-Deoxyspergualin: an immunopharmacologic and mechanistic analysis of an effective immunosuppressant. *J. Heart Transpl.*, 55:73, 1990.
19. **Morris RE**, Wang J, Zheng B: A new paradigm for immunoregulation: prolongation of allograft survival by potent T-cell mitogen. *J. Heart Transpl.*, 55:73, 1990.
20. Figari I, **Morris RE** and Palladino M: Regulation of immune functions in vivo by transforming growth factor-beta. *FASEB J.*, 4:A1866, 1990.
21. **Morris RE**, Wang J, Wu J, Shorthouse R and Meiser B: Induction of graft tolerance by brief treatment with rapamycin (RPM): a new, far more potent and effective immunosuppressant than cyclosporine (CsA). *FASEB J.*, 4:A2267, 1990.
22. Yuh DD and **Morris RE**: 15-Deoxyspergualin: an immunopharmacologic and mechanistic analysis of an effective immunosuppressant. *FASEB J.*, 4:A2267, 1990.
23. Wang J, **Morris RE**, Allison AC and Eugui E: RS-61443 (RS) is a novel and specific inhibitor of T and B cell purine synthesis that induces transplant tolerance, reverses acute rejection, and prolongs xenograft survival. *FASEB J.*, 4:A2268, 1990.

CURRICULUM VITAE

Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

24. **Morris RE**, Rodriguez M, Murphy M, Billingham M, and Wang J: Treatment of rat heart allograft recipients with RS-61443: prevention of graft coronary disease and effective combined treatment with FK506, rapamycin and cyclosporine. *J. Heart and Lung Transplant*, 10:182, 1991.
25. **Morris RE**, Wang J, Gregory C, Jiang B: Initial studies of the efficacy and safety of rapamycin administered to cynomolgus monkey recipients of heart allografts. *J. Heart and Lung Transplant*, 10:182, 1991.
26. Wang J, **Morris RE**, Blum J, Flavin T, Almquist S, Chun N, Allison A, and Eugui E: Study of the immunosuppressive, pharmacokinetic, and pharmacodynamic effects of RS-61443 monotherapy in cynomolgus monkey recipients of heart allografts. *J. Heart and Lung Transplant*, 10:175, 1991.
27. Murphy MP, **Morris RE**: The new antimetabolite immunosuppressant Brequinar sodium (Dup 785) selectively, effectively, and potently suppresses and reverses cardiac allograft rejection. *J. Heart and Lung Transplant*, 11:223, 1992.
28. Wang J, **Morris RE**: Heterotopic transplantation of beating atrial tissue allografts (ATA) beneath the renal capsule is a new and simple technique for the study of rejection and its treatment. *J. Heart and Lung Transplant*, 11:234, 1992.
29. Zheng B, Beschoner WE, Shorthouse R, and **Morris RE**: Mechanisms of tolerance induction by rapamycin: demonstration by immunohistochemistry of unique alterations caused by rapamycin treatment. *J. Heart and Lung Transplant*, 11:198, 1992.

CURRICULUM VITAE

Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

30. Nakakura E, Jardieu P, Zheng B, **Morris RE**: An anti-adhesion molecule (FLA-1, CD11a) monoclonal antibody suppresses ongoing rejection and prolongs heart allograft survival indefinitely without lymphocyte depletion. *J. Heart and Lung Transplant*, 11:223, 1992.
31. Gregory C, **Morris RE**, Pratt R, Billingham M, Shorthouse R: The use of new antiproliferative immunosuppressants is a novel and highly effective strategy for the prevention of vascular occlusive disease. *J. Heart and Lung Transplant*, 11:197, 1992.
32. Gregory CR, **Morris RE**, Pratt M, Billingham M, Shorthouse R: Use of antiproliferative agents for the treatment of occlusive vascular disease. *FASEB J.*, 6:A940, 1992.
33. **Morris RE**: New immunosuppressive compounds in transplantation. *Fesenius J. Anal. Chem.*, 343:32, 1992.
34. Mohacsi P, Zheng B, Shorthouse R, **Morris RE**: A paradox of immunosuppression by rapamycin: lymphocytes from rats treated with rapamycin are hypo-responsive to alloantigens in vivo but hyper-responsive to alloantigens in the mixed lymphocyte reaction. *J. Heart and Lung Transplant*, 12:S73, 1993.
35. **Morris RE**, Gregory C, Huie P, Shorthouse R, Ohsumi S, Billingham M, Wang J: Rapamycin reverses severe heart allograft rejection in rats and nonhuman primates: mechanisms of rapamycin's actions at the cellular and molecular levels. *J. Heart and Lung Transplant*, 12:S74, 1993.
36. Gregory CR, Wang J, Cao W, Shorthouse R, Huang X, Rowan R, Billingham M, **Morris RE**: Leflunomide is a new immunosuppressant that effectively reduces

CURRICULUM VITAE

Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

- arterial intimal thickening produced by alloimmune injury. *J. Heart and Lung Transplant.* 13(1):S 68, 1994.
37. Cao W, Chao AC, **Morris RE**: Leflunomide, A New Immunosuppressant, Inhibits Tyrosine Kinase, Calcium Signaling and DNA Synthesis in Vascular Smooth Muscle Cells. *FASEB Journal*, 8:A486, 1994.
38. Cao W, Kao P, Xu J, Chao A, Gardner P, and **Morris RE**: Studies of the immunosuppressive actions of A1726, the active metabolite of leflunomide (LFM): description of a novel mechanism of action for the anti-proliferative effects on lymphocytes. *The Immunologist*, 1995.
39. Nair R, Cao W, and **Morris RE**: Molecular mechanism of suppression of arterial intimal thickening by leflunomide (LFM): demonstration of direct antiproliferative effect on murine vascular smooth muscle cells (M-VSMC) in vitro and antagonism of action by uridine. *J. Heart and Lung Transplant.*, 14(1):S54, 1995.
40. Huang X, Reichenspurner H, Shorthouse R, Cao W, Berry G, and **Morris RE**: Heterotopic tracheal allograft transplantation: a new model to study the cellular and molecular events causing obliterative airway disease (OAD) in rats. *J. Heart and Lung Transplant.*, 14(1):S49, 1995.
41. **Morris RE**, Huang X, Shorthouse R, Reichenspurner H, Adams B, and Berry G: Use of cyclosporine (CsA), mycophenolic acid (MPA), rapamycin (RPM), leflunomide (LFM) or deoxyspergualin for prevention and treatment of obliterative airway disease (OAD) in new animal models. *J. Heart and Lung Transplant.*, 14(1):S65, 1995.

CURRICULUM VITAE

Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

42. Yuh DD, **Morris RE**, Hoyt G, Gutierrez J, and Robbins R: Leflunomide effectively prolongs lung allo- and xenograft survival. *J. Heart and Lung Transplant.*, 14(1):S73, 1995.
43. Silva HT, Shorthouse R, Cao W, **Morris RE**: Studies of the pharmacodynamics of leflunomide's (LFM) active metabolite, A771726 using whole blood assay (WBA), 9TH INTERNATIONAL CONGRESS OF IMMUNOLOGY. The 9th International Congress of Immunology 1995. 855.
44. Gregory CR, Lirtzman RL, Griffey SM, Yeh L, Patz JD, and **Morris RE**: Combination leflunomide and cyclosporine immunosuppression prevents MLR mismatched allograft rejection in mongrel dogs. *J. Heart and Lung Transplant.*, 14(1):S51, 1995.
45. Gregory CR, Patz JD, Berryman ER, Cooke JP, Shorthouse R, and **Morris RE**: Nitric oxide induced by the administration of L-arginine does not inhibit arterial neointimal formation following alloimmune injury. *J. Heart and Lung Transplant.*, 14(1):S45, 1995.
46. Cao W, Kao P, Xu J, Chao A, Gardner P, **Morris RE**: Molecular mechanism of lymphocyte specific anti-proliferative action of leflunomide, a novel and effective immunosuppressant. *FASEB J*, 9:A1370, 1995.
47. **Morris RE**, Huang X, Shorthouse R, Reichenspurner H, Adams B, Berry G: Tracheal allograft transplantation: A model of obliterative airway disease (OAD) and its treatment with new immunosuppressive drugs. Abstract book, 9th International Congress of Immunology, 856, 1995.

CURRICULUM VITAE

Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

48. Reichenspurner R, Shorthouse R, Cao W, Berry G, **Morris RE**: The cellular and molecular events causing obliterative airway disease (OAD) after heterotopic tracheal allograft transplantation in rats. Abstract book, 9th International Congress of Immunology, 648, 1995.
49. Silva HT, Shorthouse R, Cao W, **Morris RE**: Studies of the pharmacodynamics of leflunomide's (LFM) active metabolite, A771726, using whole blood assay (WBA). Abstract book, 9th International Congress of Immunology, 855, 1995.
50. Cao W, Kao P, Chao A, **Morris RE**: Molecular mechanism of lymphocyte specific antiproliferative action of leflunomide, a novel and effective immunosuppressant. Abstract book, 9th International Congress of Immunology, 855, 1995.
51. **Morris RE**, Huang X, Shorthouse R, Reichenspurner H, Adams B, Berry G: Use of cyclosporine (CsA), mycophenolic acid (MPA), rapamycin (RPM), leflunomide (LFM) or deoxyspergualin (DSG) for prevention and treatment of obliterative airway disease (OAD) in new animal models, Journal of Heart & Lung Transplantation. 14(1 PART 2).1995. S65.
52. Reichenspurner H, Soni V, Brazelton T, Shorthouse R, Boname, J, Adams B, Nitschke M, Girgis R, Reitz BA, Mocarski E, Sandford G, Berry G, **Morris RE**: Enhancement of obliterative airway disease (OAD) rat tracheal allografts infected with genetically engineered cytomegalovirus (CMV). The Journal of Heart and Lung Transplantation, 15(1) Part 2: S45, 1996.
53. Silva HT, Cao W, Shorthouse R, **Morris RE**: Inhibition of pyrimidine biosynthesis in lymphocytes is a mechanism of immunosuppressive action *in vivo* of the novel immunosuppressant, leflunomide (LFM): Uridine reverses the antiproliferative effects

CURRICULUM VITAE

Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

- of LFM after *in vivo* treatment. The Journal of Heart and Lung Transplantation, 15(1) Part 2: S63, 1996.
54. Reichenspurner H, Soni V, Adams B, Brazelton T, Shorthouse R, Reitz BA, Berry G, **Morris RE**: Pathogenesis and treatment of obliterative airway disease (OAD) after xenogeneic tracheal transplantation in rodents. The Journal of Heart and Lung Transplantation, 15(1) Part 2: S92, January 1996.
55. Nair RV, **Morris RE**: Cellular and molecular mechanisms for inhibition by rapamycin (RPM) of experimental allograft obliterative airway disease (OAD): Inhibition of growth-factor stimulated human adult lung fibroblast (HALFB) proliferation *in vivo* by RPM. Journal Heart Lung Transplant 15(1) Part 2: S98, January 1996.
56. Silva HT, Jr, Huang X, Cheung A, Shorthouse R, Billingham M, **Morris RE**: Optimization of preclinical drug development: correlation among dosing schedule, pharmacokinetics (PK), pharmacodynamics (PD) and degree of histologic rejection in leflunomide (LFM)-treated heart transplanted rats. J Amer Soc Neph 7(9):3244, September 1996.
57. Silva HT, Jr, Cao W, Shorthouse R, Loffler M, **Morris RE**: Evidence that *in vitro* and *in vivo* antiproliferative effects of leflunomide (LFM) are mediated by inhibition of *de novo* pyrimidine biosynthesis: *in vivo* inhibition of dihydroorotate dehydrogenase (DHOdehase). J Amer Soc Neph 7(9): 1895, September 1996.
58. Braun-Dullaeus RC, von der Leyen HE, Mann MJ, Zhang L, **Morris RE**, Dzau VJ: Loss of p27^{Kip1} and induction of Cdk1 in the rat carotid artery following balloon catheter injury: *in vivo* and *in vitro* influence of rapamycin. FASEB J 11: A153, 1997.

CURRICULUM VITAE

Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

59. Silva HT, Bryce T, Wade A, **Morris RE**: Single- and multiple-dose pharmacokinetics (PK) of two leflunomide analogues, the malononitrilimides (MNAS) HMR1279 and HMR1715. *Therapeutic Drug Monitoring*, 19: 5, 1997.
60. Silva HT, Slauson S, Shorthouse R, Cao W, Loffler M, **Morris RE**: Molecular mechanism of the immunosuppressive effect of leflunomide in vivo: inhibition of dihydroorotate dehydrogenase (DHODH). *Therapeutic Drug Monitoring*, 19: 5, 1997.
61. Silva HT, Sherwood S, Bryce T, Wade A, Wang Y, Shorthouse R, Billingham M, **Morris RE**: Relevance of combined pharmacokinetic/pharmacodynamic (PK/PD) Studies to optimize administration and efficacy of two leflunomide analogues, the malononitrilamides (MNAS) HMR 1279 and HMR1715. *Therapeutic Drug Monitoring*, 19:5, 1997
62. Fahmi T, Berry GJ, **Morris RE**, and Rosen GD: Rapamycin inhibits development of obliterative airway disease in a murine heterotopic airway transplant model. *Transplantation*, 63, 533-537, No. 4, February 27, 1997.
63. Gregory CR, Galili U, Griffey SM, Hancock WW, Valverde C, Berryman ER and **Morris RE**: Squirrel monkeys hyperacutely reject porcine musculocutaneous flaps despite a lack of naturally occurring xeoantibodies. *Veterinary Surgery* 1997, 25(5):415, #30.
64. Gregory CR, Silva H, Patz JD and **Morris RE**: Comparative effects of malononitrilamide analogs of leflunomide on whole blood lymphocyte stimulation in human beings, rhesus macaques, cats, dogs and rats. *Veterinary Surgery* 1997, 26(5):415, #31.

CURRICULUM VITAE

Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

65. Hausen B, Ikonen T, Briffa N, Berry GJ, Christians U, Robbins RC, Sherwood S, Schuler W, and **Morris RE**: Successful suppression of lung allograft rejection in non-human primates by combined treatment using the new Rapamycin derivative, SDZ RAD, plus microemulsion cyclosporine. *The Journal of Heart and Lung Transplantation*, 17:1, 43, 1998.
66. Ikonen T, Polak JM, Bishop AE, Uusitalo M, Salminen US, Taskinen E, and **Morris RE**: Inducible nitric oxide synthase (iNOS) and nitrotyrosine expression is suppressed in heterotopic pig lung and bronchus implants before the development of airway obliteration. *The Journal of Heart and Lung Transplantation*, 17:1, 46, 1998.
67. Adams BF, Brazelton T, Lange E, Huang X, and **Morris RE**: Airway epithelial cells prevent obliterative airway disease (AD) in heterotopically transplanted rat tracheal grafts. *The Journal of Heart and Lung Transplantation*, 17:1, 47, 1998.
68. Brazelton TR, Shorthouse R, Gregory CR, Huang X, and **Morris RE**: Recipient mesenchymal cells infiltrate and remodel medial and adventitial tissue in the rat femoral artery allograft model of chronic vascular rejection. *The Journal of Heart and Lung Transplantation*, 17:1, 61, 1998.
69. Hausen B, Boeke K, Berry GJ, Christians U, **Morris RE**. Successful treatment of acute, ongoing rat lung allograft rejection with SDZ RAD, a new rapamycin analog. *American Review of Respiratory Diseases*, 157(3): 331, 1998.
70. Hausen B, Berry GJ, Dagum P, Ikonen T, Briffa N, Robbins RC, and **Morris RE**: The histology of subcutaneously implanted donor bronchial rings correlates with rejection scores of lung allografts in a primate lung transplant model. *The Journal of Heart and Lung Transplantation*, 17:1, 67, 1998.

CURRICULUM VITAE

Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

71. Silva HT, Slauson SD, Shorthouse R, Löffler M, and **Morris RE**: Inhibition of dihydroorotate dehydrogenase (DHODH) is the molecular mechanism of immunosuppression by malononitrilamides (MNA's) in vivo. *The Journal of Heart and Lung Transplantation*, 17:1, 74, 1998.
72. Hausen B, Boeke K, Gerry GJ, Christians U, and **Morris RE**: SDZ RAD, a new Rapamycin analogue, effectively suppresses rat lung allograft rejection. *The Journal of Heart and Lung Transplantation* 17:1, 76, 1998.
73. Ikonen T, Briffa N, Brazelton T, Shorthouse R, Berry G, and **Morris RE**: Prevention of obliterative airway disease (OAH) in heterotopic rat tracheal allografts without immunosuppression: Anastomosis of recipient trachea to donor trachea enables re-epithelialization of allografts by recipient epithelium. *The Journal of Heart and Lung Transplantation*, 17:1, 77, 1998.
74. Morikawa M, Sherwood SW, Shorthouse RA, Suto MJ, Manning AM, and **Morris RE**: The first T-cell specific dual inhibitor of NF- κ B and AP-1 prevents allograft rejection in mice by an antiproliferative effect mediated by inhibition of IL-2 production. *The Journal of Heart and Lung Transplantation*, 17:1, 79, 1998.
75. Silva HT, Sherwood S, Bryce T, Wade A, Wang X, Cheung A, Wang Y, Shorthouse R, Slauson S, Billingham M, and **Morris RE**: Pharmacokinetic/pharmacodynamic (PK/PD) strategy to optimize administration, efficacy and safety of the malononitrilamides (MNA) A77 1726, HMR 1279 and HMR1715. *The Journal of Heart and Lung Transplantation*, 17:1, 80, 1998.

CURRICULUM VITAE

Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

76. Vriens PW, Pollard JD, Hoyt G, Scheringa M, Bouwman E, **Morris RE**, and Robbins RC: Presence of antibodies is required for the induction of accommodation in xenotransplantation. *The Journal of Heart and Lung Transplantation*, 17:1, 88, 1998.
77. Ikonen T, Briffa N, Gummert J, Honda Y, Perlroth J, Hayase M, Robbins RC, Barlow C, Billingham ME, Hausen B, Yock PG, and **Morris RE**: Progressive graft vascular disease (GVD) by serial intravascular ultrasound (IVUS) in a novel model of combined aortic auto- and allograft transplantation in nonhuman primates. *The Journal of Heart and Lung Transplantation*, 17:1, 100, 1998.
78. Wang Y, Silva H, Billingham M, Shorthouse R, Thronset B, and **Morris RE**: Malononitrilamides (MNA) abrogate the heart graft accelerated rejection in presensitized rats. *The Journal of Heart and Lung Transplantation*, 17:1, 108, 1998.
79. Slauson SD, Silva HT, Wang Y, Gummert J, Barten M, Billingham M, and **Morris RE**: Coadministration of HMR1279, a malononitrilamide (MNA), with cyclosporine prevents acute rat heart allograft rejection: Combined study of pharmacodynamics (PD), pharmacokinetics (PK) and drug efficacy. *The Journal of Heart and Lung Transplantation*, 17:1, 109, 1998.
80. Morikawa M, Sherwood SW, Suto MJ, Manning AM, and **Morris RE**: CD28 costimulation of proliferation in murine splenic T cells is sensitive to inhibition by SP100030, a novel T cell-specific dual inhibitor of NF- κ B and AP-1. *Transplantation*, 65:12, S28, 1998.
81. Silva HT, Slauson S, Shorthouse R, Löffler, and **Morris RE**: Inhibition of dihydroorotate dehydrogenase (DHODH) is the molecular mechanism of

CURRICULUM VITAE

Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

- immunosuppression by the malononitrilamides (MNAs) in vivo. *Transplantation*, 65:12, S28, 1998.
82. Brazelton TR, Shorthouse R, Gregory CR, Huang X, and **Morris RE**: Recipient mesenchymal cells infiltrate and remodel medial and adventitial tissue in the rat femoral artery allograft model of chronic vascular rejection. *Transplantation*, 65:12, S37, 1998.
83. Ikonen T, Briffa N, Brazelton T, Shorthouse R, Berry G, and **Morris RE**: Prevention of obliterative airway disease (OAD) without immunosuppression in heterotopic rat tracheal allografts: Anastomosis of recipient trachea to donor trachea enables re-epithelialization of allografts by recipient epithelium. *Transplantation*, 65:12, S37, 1998.
84. Dosanjh A, Wan B, and **Morris RE**: Lung epithelium-derived IL-10 stimulates lung fibroblast proliferation in vitro: Implications for the pathogenesis of obliterative bronchiolitis after lung transplantation. *Transplantation*, 65:12, S38, 1998.
85. Silva HT, Slauson S, Sherwood S, Bryce T, Wade A, Wang X, Cheung A, Wang Y, Shorthouse R, Billingham M, and **Morris RE**: Monitoring of pharmacodynamics (PD), but not pharmacokinetics (PK), differentiates the relative immunosuppressive potencies of leflunomide and its malononitrilamide (MNA) analogs. *Transplantation*, 65:12, S42, 1998.
86. Hausen B, Boeke K, Berry GJ, Christians U, Segarra I, Benet LZ, and **Morris RE**: Coadministration of neural and the novel rapamycin analog, SDZ RAD, to lung allograft recipients: Potentiation of immunosuppressive efficacy and reduction of toxicity by staggered vs. simultaneous treatment. *Transplantation*, 65:12: S132, 1998.

CURRICULUM VITAE

Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

87. Hausen B, Boeke K, Berry GJ, Christians U, Gummert J, Benet LZ, and **Morris RE**: Coadministration of microemulsion, cyclosporine and the novel leflunomide malononitrilamide analog, HR1279, more effectively suppresses rat lung allograft rejection than microemulsion cyclosporine plus leflunomide. *Transplantation* 65:12, S133, 1998.
88. Slauson S, Silva H, Sherwood S, and **Morris RE**: Flow cytometric (FCM) analysis of the molecular mechanisms of immunosuppressive action of the active metabolite of leflunomide and its malononitrilamide (MNA) analogs in a novel whole blood assay. *Transplantation*, 65:12, S134, 1998.
89. Doyle R, Wong R, Newmark R, Dingemans A, Lin T, Dou, L, Brazelton T, Altinger J, Poirier C, and **Morris RE**: Safety and tolerability of two different single doses of SDZ RAD in lung transplant recipients. *Transplantation*, 65:12, S158, 1998.
90. Hausen B, Ikonen T, Berry GJ, Christians U, Robbins RC, Hook L, Benet LZ, Schuler W, and **Morris RE**: Coadministered neoral and the new rapamycin derivative, SDZ RAD, for nonhuman primate lung transplantation: Systematic pharmacokinetic-based trials to maximize efficacy and tolerability. *Transplantation*, 65:12, S172, 1998.
91. Gummert J, Ikonen T, Briffa N, Honda Y, Perloth J, Hayase M, Hausen B, Billingham ME, Barlow C, Robbins RC, Yock PG, and **Morris RE**: Graft vascular disease (GVD) in non-human primates: Quantitation of changes in arterial auto- and allografts by intravascular ultrasound (IVUS). *Transplantation*, 65:12, S183, 1998.

CURRICULUM VITAE

Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

92. Dingemans SA, Wong R, Dou L, Smith T, Newmark R, Doyle R, Brazelton T, Altinger J, Poirier C, and **Morris RE**: First pharmacokinetic study with SDZ RAD in stable lung transplant recipients. *Transplantation*, 65:12, S188, 1998.
93. Gummert JF, Barten MJ, Wang Y, Billingham ME, and **Morris RE**: Therapeutic monitoring of mycophenolic acid (MPA): Assays of immune function in peripheral blood predict efficacy for inhibition of histologic graft rejection. *The Journal of Heart and Lung Transplantation*, 18:1, 53, 1999.
94. Brazelton TR, Doyle RL, Poirier C, Wong RL, Newmark RD, Bush C, Altinger J, Hausen B, Reitz BA, Theodore J, and **Morris RE**: Analysis of risk factors for chronic lung rejection from a twelve-center, multinational database. *The Journal of Heart and Lung Transplantation*, 18:1, 59, 1999.
95. Brazelton TR, Doyle RL, Wong RL, Newmark RD, Bush C, Theodore J, and **Morris RE**: Heterogeneity and reversal of bronchiolitis obliterans syndrome. *The Journal of Heart and Lung Transplantation*, 18:1, 59, 1999.
96. Ikonen TS, Shorthouse RS, Berry GJ, and **Morris RE**: Epithelial re-growth prevents luminal occlusion in orthotopic tracheal allografts despite acute rejection and proliferation of α -actin positive cells. *The Journal of Heart and Lung Transplantation*, 18:1, 60, 1999.
97. Briffa NP, Shorthouse R, Chang J, Brazelton T, and **Morris RE**: Xenogeneic antibodies are *not* necessary for chronic rejection of vascularised xenografts. *The Journal of Heart and Lung Transplantation*, 18:1, 1999.

CURRICULUM VITAE

Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

98. Ikonen TS, Gummert JF, Honda Y, Hayase M, Christians U, Serkova N, Hausen B, Yock PG, and **Morris RE**: Sirolimus (rapamycin) blood levels correlate with prevention of graft vascular disease (BVD) in monkey aortic transplants as monitored by intravascular ultrasound. *The Journal of Heart and Lung Transplantation*, 18:1, 72, 1999.
99. Ikonen TS, Adams B, Lange E, Berry GJ, and **Morris RE**: A novel approach to test immunosuppressive drugs in heterotopically transplanted lung fragments in rats. *The Journal of Heart and Lung Transplantation*, 18:1, 73, 1999.
100. Hausen B, Gummert J, Berry GJ, Christians U, Hook L, Ikonen T, Legay F, and **Morris RE**: Basiliximab (áIL2R Mab) induction therapy combined with subtherapeutic doses of neural and SDZ RAD successfully prevents allograft rejection in a nonhuman primate lung transplant model. *The Journal of Heart and Lung Transplantation*, 18:1, 73, 1999.
101. Hausen B, Boeke K, Berry GJ, and **Morris RE**: Inhibition of thromboxane A2 and platelet adhesion with salicylic acid effectively ameliorates reperfusion injury following acute double lung transplantation in the rat. *The Journal of Heart and Lung Transplantation*, 18:1, 79, 1999.
102. Wan B, Ikonen T, **Morris RE**, and Dosanjh AK: IL-6 and IFN- γ expression parallels recovery of the epithelium in a heterotopic rat model of allograft rejection. *The Journal of Heart and Lung Transplantation*, 18:1, 90, 1999.
103. Wan B, Ikonen T, **Morris RE**, and Dosanjh A: Loss of airway goblet cells is associated with respiratory epithelial injury in a rat model of allograft rejection. *The Journal of Heart and Lung Transplantation*, 18:1, 90, 1999.

CURRICULUM VITAE

Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

104. Kyles, AE, Gregory CR, Craigmill AL and **Morris RE**: Comparison of the anti-proliferative effects of immunosuppressive drugs in cats. *Veterinary Surgery* 1999, 28:397.
105. Barten MJ, van Gelder T, Gummert JF, Boeke K, Billingham ME, and **Morris RE**: Pharmacodynamics (PD) of mycophenolate mofetil (MMF) after heart transplantation identify new mechanism of action and correlate with severity of rejection. *Transplantation*, 67:7, S57, 1999.
106. Barten MJ, Gummert JF, van Gelder T, Shorthouse R, and **Morris RE**: Potencies of immunosuppressive drugs for inhibition of signal 1- and signal 2-induced expression of lymphocyte cell surface activation antigens using whole blood assays. *Transplantation*, 67:7, S57, 1999.
107. Gummert JF, Barten MJ, Wang Y, Billingham ME, and **Morris RE**: Graft rejection in mycophenolic acid (MPA) treated heart transplant recipients is predicted by changes in lymphocyte function over time (pharmacodynamics). *Transplantation*, 67:7, S61, 1999.
108. Gummert JF, Barten MJ, Boeke K, Leon EJ, Decker CJ, Nimmegern E, Billingham ME, and **Morris RE**: The IMPDH inhibitor VX-497 is the first rationally synthesized immunosuppressant to prolong allograft survival. *Transplantation*, 67:7, S62, 1999.
109. Ikonen TS, Gummert JF, Hayase M, Honda Y, Kobayashi Y, Christians U, Hausen BA, Berry GJ, Yock PG, and **Morris RE**: Chronic rejection in non-human primates: Sirolimus (rapamycin), but not cyclosporine, prevents graft vascular disease (GVD) in aortic allografts after acute rejection. *Transplantation*, 67:7, S252, 1999.

CURRICULUM VITAE

Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

110. Doyle RL, **Morris RE**, Hertz MI, Dunitz JM, Loyd JE, Stecenko AA, Tudor D, Smith HT, Wong RL, Chappell K, and Kovarik JM: Pharmacokinetics of RAD001 (RAD) in stable lung transplant patients with and without cystic fibrosis (CF). *The Journal of Heart and Lung Transplantation*, 19:1, 82, 2000.
111. Hausen B, Klupp J, Hook LE, Christians U, Baumgartner RE, Friedrich S, Celnicker A, **Morris RE**: Coadministration of either microemulsion cyclosporine or steroids with humanized monoclonal antibodies against the B7-1 and B7-2 epitopes successfully prolong allograft survival after life-supporting renal transplantation in cynomolgus monkeys. *Transplantation*, 69:8, S123, 2000.
112. Klupp J, van Gelder T, Regieli J, Shorthouse R, Kavanau K, and **Morris RE**: Development of a novel pharmacodynamic assay in non-human primates. *Transplantation* 69:8, S125, 2000.
113. Doyle RL, Hertz MI, Dunitz JM, Loyd JE, Stecenko AA, Wong RL, Chappell K, Brazelton T, Kovarik JM, **Morris RE**: Safety and pharmacokinetics of two single doses of RAD001 (RAD) in stable lung and heart/lung transplant recipients with and without cystic fibrosis (CF). *Transplantation*, 69:8, S142, 2000.
114. Kyles AE, Gregory CR, Griffey S, Jackson J, Bernsteen L and **Morris RE**: Leflunomide analog, HMR715, plus cyclosporine reduces renal allograft rejection in mismatched mongrel dogs. *The Tenth Annual American College of Veterinary Surgeons Symposium*, September 21-24, 2000, Arlington, VA. *Veterinary Surgery* 29:467.

CURRICULUM VITAE

Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

115. Kyles AE, Gregory CR, Griffey SM, and **Morris RE**: Immunosuppression with the new leflunomide (LFM) analog, HMR1715 plus cyclosporine (CsA) reduced clinical and histologic evidence of renal allograft rejection in MLR mismatched dogs. *Transplantation*, 69:8, S190, 2000.
116. van Gelder T, Klupp J, Barten MJ, Christians U, and **Morris RE**: Coadministration of tacrolimus and mycophenolate mofetil does not increase mycophenolic acid (MPA) exposure, but coadministration of cyclosporine inhibits the enterohepatic recirculation of MPA, thereby decreasing its exposure. *Transplantation*, 69:8, S192, 2000.
117. Serkova NJ, Jacobsen W, Litt L, Hausen B, **Morris RE**, Benet LZ, Leibfritz D, and Christians U: SDZ-RAD prevents cyclosporine-induced inhibition of brain energy metabolism: Comparison with rapamycin. *Transplantation*, 69:8, S195, 2000.
118. Hausen B, Boeke K, Berry GJ, Acklin S, and **Morris RE**: Viral serine proteinase inhibitor (SERP-1) effectively decreases the incidence of graft vasculopathy in heterotopic heart allografts. *Transplantation*, 69:8, S344, 2000.
119. Van Gelder T, Klupp J, Kavanau K, and **Morris RE**: Novel mechanisms of action of mycophenolic acid (MPA) Inhibition of expression of CD28 and CD154 costimulatory molecules and induction of apoptosis in vivo in humans after treatment with mycophenolate mofetil (MMF). *Transplantation*, 69:8, S393, 2000.
120. Stalder M, Tye T, Chan M, Dambrin C, Pelletier M, Robbins R, Reitz B, Lam T and **Morris RE**: Assessment of graft function by echocardiography in cynomolgus monkey recipients of hDAF-transgenic pig cardiac xenografts. *Xenotransplantation*, 8: supplement 1, 73, August 2001.

CURRICULUM VITAE

Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

121. Lam T, Hausen B, Hook L, Squires E, Dambrin C, Pelletier M, Robbins R, Reitz B, Cozzi E and **Morris RE**: Cyclophosphamide induced anemia in cynomolgus monkey recipients of hDAF-transgenic pig cardiac and renal xenografts. *Xenotransplantation*, 8: supplement 1, 76. August 2001
122. Lam T, Hausen B, Higgins J, Berry G, Schuurman H, Duthaler R, Katopodis A, Robbins R, Reitz B, and **Morris RE**: The alpha-Gal polymer GAS914 depletes anti-alpha-Gal antibodies and prevents hyperacute rejection of hDAF-transgenic pig cardiac and renal xenografts in cynomolgus monkey. *Xenotransplantation*, 8: supplement 1, 77. August 2001.
123. Lam T, Hausen B, Jacobsen W, Baluom M, Pelletier M, Dambrin C, Duthaler R, Katopodis A, Harrison R and **Morris RE**: The effect of soluble complement receptor type 1 on survival of HDAF-transgenic pig cardiac and renal grafts in cynomolgus monkeys. *Xenotransplantation*, 8: supplement 1, 81. August 2001.
124. Lam T, Boeke K, and **Morri RE**: Anti-pig hemolytic antibody levels in cynomolgus monkeys from Indonesia, Mauritius, and the Philippines, and in baboons from Kenya. *Xenotransplantation*, 8: supplement 1, 85. August 2001.
125. Lam T, Hausen B, Hook L, Boeke K, Dambrin C, Higgins J, Berry G, Davies H, Cozzi E and **Morris RE**: High levels of anti-pig hemolytic antibodies are associated with hyperacute rejection of hDAF-transgenic pig cardiac and renal xenografts in cynomolgus monkeys. *Xenotransplantation*, 8: supplement 1, 86. August 2001.
126. Lam T, Lau M, Higgins J, Berry G, Duthaler R, Katopodis A, Robbins R, Reitz B, Hausen B and **Morris RE**: Anti alpha-Gal antibody responses in cynomolgus monkey

CURRICULUM VITAE

Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

- recipients of hDAF-transgenic pig cardiac and renal xenografts. *Xenotransplantation*, 8: supplement 1, 96. August 2001.
127. Lam T, Lau M, Boeke K, Hausen B, Hook L, Duthaler R, Katopodis A and **Morris RE**: Natural xenoreactive anti-pig hemolytic antibodies with non-alpha-Gal specificity in cynomolgus monkeys from Mauritius. *Xenotransplantation*, 8: supplement 1, 96. August 2001.
128. Berry G, Lam T and **Morris RE**: Histopathological findings in cardiac xenografts from hDAF-transgenic pigs into cynomolgus monkeys. *Xenotransplantation*, 8: supplement 1, 106. August 2001.
129. Kambham N, Higgins J, Hausen B, Lam T and **Morris RE**: Steroid-responsive rejection episodes in cynomolgous monkey recipients of hDAF-transgenic pig renal xenografts. *Xenotransplantation*, 8: supplement 1, 107. August 2001.
130. Higgins J, Lam T, Chavez G, Schuurman H, Hausen B and **Morris RE**: Cellular infiltrates in renal xenografts from hDAF-transgenic pigs transplanted into cynomolgus monkeys. *Xenotransplantation*, 8: supplement 1, 108. August 2001.
131. Lam T, Bode M, Gizzi J, King H, Hook L, Hausen B and **Morris RE**: Serum electrolytes and total protein in cynomolgus monkey recipients of hDAF-transgenic pig renal xenografts. *Xenotransplantation*, 8: supplement 1, 131. August 2001.
132. Dambrin C, Birsan T, Klupp J, Hook L, Lam T, Christians U and **Morris RE**: New mechanisms of immunosuppression of sirolimus in vivo: Differential suppression of multiple immune functions of T and B cells and monocytes in non-human primates. *The American Journal of Transplantation*, 1: supplement 1, 167. May 2001.

CURRICULUM VITAE

Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

133. Hausen B, Lam T, Hook L, Boeke K, Christians U, Jacobsen W, Higgins J, Cozzi E, Davies H, Duthaler R, Harrison R, Katopodis A and **Morris RE**: The combined effects of pharmacologic neutralization of anti-Alpha-Gal antibodies and complement inhibition on survival of hDAF Transgenic pig renal grafts in cynomolgus monkeys. *The American Journal of Transplantation*, 1: supplement 1, 152. May 2001.
134. Dambrin C, Klupp J, Birsan T, Luna J, Suzuki T, Lam T, Staehr P, Hausen B, Hook L, Christians U, Fitzgerald P, Berry G and **Morris RE**: Sirolimus (Rapamycin) monotherapy prevents graft vascular disease in non-human primates. *The American Journal of Transplantation*, 1: supplement 1, 227. May 2001.
135. Lam T, Hausen B, Hook L, Boeke K, Dambrin C, Higgins J, Berry G, Davies H, Cozzi E and **Morris RE**: High levels of natural anti-pig hemolytic antibodies are associated with hyperacute rejection of hDAF transgenic pig to cynomolgus monkey cardiac renal xenografts. *The American Journal of Transplantation*, 1: supplement 1, 458. May 2001.
136. Klupp J, Van Gelder T, Dambrin C, Boeke K, Regieli J, Billingham M and **Morris RE**: Novel pharmacodynamic assays of lymphocyte function and proliferation in peripheral blood are affected by MMF dose schedule and correlate with histological severity of rejection in rat heart transplant recipients. *The American Journal of Transplantation*, 1: supplement 1, 222. May 2001.
137. Klupp J, Dambrin C, Jacobson W, Christians U and **Morris RE**: A novel retinoic acid receptor-alpha selective agonist, ER-38925, successfully prevented acute and chronic rejection of mouse cardiac allografts. *The American Journal of Transplantation*, 1: supplement 1, 223. May 2001.

CURRICULUM VITAE

Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

138. Klupp J, Dambrin C, Jacobson W, Christians U and **Morris RE**: Pharmacodynamic assessment of immunosuppressive activity of steroids-results from a human phase I pilot study. *The American Journal of Transplantation*, 1: supplement 1, 223. May 2001.
139. Birsan T, Dambrin C, Klupp J, Patz J D, Shorthouse R and **Morris RE**: Ex vivo evaluation of the immunosuppressive effect of the leflunomide derivative FK 778 on whole blood lymphocytes of non-human primates. *The American Journal of Transplantation*, 1: supplement 1, 439. May 2001.
140. Birsan T, Dambrin C, Villanueva JC, Yatscoff RW and **Morris RE**: Ex vivo evaluation of the immunosuppressive effect of the novel calcineurin inhibitor ISATX 247 on whole blood lymphocytes of non-primates. *The American Journal of Transplantation*, 1: supplement 1, 439. May 2001.
141. Birsan T, Dambrin C, Hook L, Villanueva JC, Marsh KC, Kjuric SW, Mollison KW and **Morris RE**: In vivo evaluation of the novel immunosuppressant A-285222 in non-human primates. *The American Journal of Transplantation*, 1: supplement 1, 438. May 2001.
142. Birsan T, Dambrin C and **Morris RE**: In vivo pharmacokinetic/pharmacodynamic evaluation of the malononitrilamide FK 778 in non-human primates. Abstract book, 2nd International Congress of Immunosuppression, 174, 2001.
143. Birsan T, Dambrin C, Klupp J and **Morris RE**: Ex vivo evaluation of the immunosuppressive effects of the malononitrilamide FK 778 on whole blood

CURRICULUM VITAE

Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

- lymphocytes of non-human primates. Abstract book, 2nd International Congress of Immunosuppression, 174, 2001.
144. Birsan T, Dambrin C, Marsh KC, Jacobsen W and **Morris RE**: Invivo evaluation of the novel immunosuppresant A-285222 in non-human primates. Abstract book, 2nd International Congress of Immunosuppression, 174, 2001.
145. Birsan T, Dambrin C, Yatscoff RW and **Morris RE**: Ex vivo evaluation of the immunosuppressive effects of ISA_{TX} 247 on whole blood lymphocytes of non-human primates. Abstract book, 2nd International Congress of Immunosuppression, 174, 2001.
146. Dambrin C, Birsan T, Klupp J, Hook L, Lam T, Christians U and **Morris RE**: New mechanisms of immunosuppression of sirolimus in vivo: differential suppression of multiple immune functions of T and B cells and monocytes in non-human primates. Abstract book, 2nd International Congress of Immunosuppression, 176, 2001.
147. Lam T, Hausen B, Duthaler R, Katopodis A, Harrison R and **Morris RE**: The effect of soluble complement receptor type 1 on survival of hDAF-transgenic pig cardiac and renal xenografts in cynomolgus monkeys. Abstract book, 2nd International Congress of Immunosuppression, 182, 2001.
148. Lam T, Hausen B, Squires E and **Morris RE**: Cyclophosphamide induced anemia in cynomolgus monkey recipients of hDAF-Transgenic pig cardiac and renal xenografts. Abstract book, 2nd International Congress of Immunosuppression, 182, 2001.
149. Lam T, Hausen B, Duthaler R, Katopodis A and **Morris RE**: The alpha-Gal polymer GAS 914 prevents hyperacute rejection of hDAF-Transgenic pig xenografts in

CURRICULUM VITAE

Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

- cynomolgus monkeys. Abstract book, 2nd International Congress of Immunosuppression, 182, 2001.
144. Stalder M, Birsan T, Hausen B and **Morris RE**: immunosuppressive effect of surgery after nephrectomy in non-human primates. Abstract book, 2nd International Congress of Immunosuppression, 189, 2001.
145. Stalder M, Birsan T, Hubble R, Paniagua R and **Morris RE**: Pharmacokinetic/pharmacodynamic (PD) evaluation of the novel calcineurin inhibitor ISA_{TX} in non-human primates. Abstract book, 2nd International Congress of Immunosuppression, 174, 2001.
146. Kyles AE, Gregory CR, Griffey SM, Pierce J, Bernsteen L and **Morris RE**: Combined immunosuppression with FK778 and cyclosporine prolongs renal allograft survival in mismatched mongrel dogs. The American Transplant Congress Meeting, April 26-May 1, 2002, Washington, D.C. American Journal of Transplantation 2 suppl. 3: 384.
147. Kyles AE, Gregory CR, Griffey SM, Bernsteen L, Pierce J, Lilja H, and **Morris RE**: immunosuppression with a combination of FK778 and cyclosporine prolongs renal allograft survival in mismatched mongrel dogs. Veterinary Surgery 2002: 31:487
148. Kyles AE, Gregory CR, Griffey SM and **Morris RE**: Leflunomide analog, HMR715, plus cyclosporine reduces renal allograft rejection in mismatched dogs. Proceedings of the XVIII International Congress of the Transplantation Society 2002, Rome, p. 277.

CURRICULUM VITAE

Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

149. Birsan T, Dambrin C, Klupp J, Stalder M, Fitzsimmons WE, **Morris RE**, Effects of the malononitrilamide FK778 on immune functions in vitro in whole blood from non-human primates and healthy human volunteers, *Transplant Immunology* 11 (2003) 163-167
150. Klupp J, Dambrin C, Hibi K, Luna J, Suzuki T, Hausen B, Birsan T, van Gelder T, Fitzgerald PJ, Berry G, **Morris RE**, Treatment by Mycophenolate Mofetil of Advanced Graft Vascular Disease in Non-Human Primate Recipients of Orthotopic Aortic Allografts, *American Journal of Transplantation* 2003; 3: 817 – 829
151. Birsan T, Dambrin C, Klupp J, Stalder M, Larson MJ, Fitzsimmons WE, **Morris RE**, In vivo pharmacokinetic and pharmacodynamic evaluation of the malononitrilamide FK778 in non-human primates, *Transplant International* (2003) 16: 354-360
152. Borie DC, Larson M, Changelian PS, Ball D, Higgins JP, Si M-S, Holm B, Flores M, Woodworth T, Kudlacz E, Brissette W, Gaweco A, Beals C, Littman B, Elliott E, Reitz BA, **Morris RE**: Targeted inhibitions of JAK3 with CP-690,550 significantly prolongs allograft survival in a nonhuman primate model of renal transplantation. *Am. J. Transplant.* 2003, 3[S-5], #4, p. 152.
153. Paniagua R, Holm B, Aalami O, Si M-S, Changelian P, Ball D, Kudlacz, Brissette W, Woodworth T, Elliot E, Larson M, **Morris RE**, Reitz B, Borie DC. The JAK3 inhibitor CP-690,550 significantly inhibits immune responses in vivo as revealed by pharmacodynamic monitoring of naïve and transplanted cynomolgus monkeys. *Am. J. Transplant.* 2003, 3[S-5], #412, p. 257.

CURRICULUM VITAE

Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

154. Si M-S, Lau M, Meyer T, **Morris RE**, Reitz BA, Borie DC: Effects of the kinase inhibitor CGP41251 on human T-Lymphocyte activation and function. *Am. J. Transplant.* 2003; 3[S-5], #413, p. 257.
155. Si S-M, Larson M, Changelian P, Ball D, Lau M, Flores M, Paniagua R, Holm B, **Morris RE**, Reitz B, Borie DC: Maintained renal function and homeostatic indices following renal transplantation in nonhuman primates immunosuppressed with the new JAK3 inhibitor CP-690,550. *Am. J. Transplant.* 2003; 3[S-5], #414, p. 257
156. Zhang S, Si M-S, Changelian P, Lau M, Flores M, Paniagua R, **Morris RE**, Reitz B, Borie DC: Blockade of cytotoxic lymphocyte gene expression in cynomolgus monkeys treated with the JAK3 inhibitor CP-690,550. *Am. J. Transplant.* 2003; 3[S-5], #959, p. 397.
157. Zhang S, Si M-S, Lau M, Paniagua R, Holm B, **Morris RE**, Reitz B, Borie DC: Gene expression analysis in renal allografts: A comparative study in native and terminally rejected grafts in cynomolgus monkeys. *Am. J. Transplant.* 2003; 3[S-5], #962, p. 397.
158. Si MS, Lau M, Meyer T, **Morris RE**, Reitz BA, Borie DC: Effects of the kinase inhibitor CGP41251 on human T-Lymphocyte activation and function. *Am. J. Transplant.* 2003; 3[S-5], 257
159. The First-In-Class Oral Protein Kinase C (PKC) Inhibitor, NVP-AEB071, Prolongs Renal Allograft Survival in Non-Human Primates (NHP) and Suppresses Lymphocyte Proliferation at Safe Exposures in Human Proof-of-Concept Studies. Wagner J, Evenou J-P, Zenke G, Brinkmann V, Pally C, Bigaud M, Burkhart C, Cottens S, Jung T, Rordorf C, **Morris RE**: *American J. Transplant.* 6, Suppl 2: 86, Abstract 57, 2006.

CURRICULUM VITAE

Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

160. NVP-AEB071 (AEB), A Novel Oral Inhibitor of Early T-Cell Activation, Prolongs the Survival of Non-Human Primate (NHP) Kidney Allografts When Used As Monotherapy or At Non-Effective Doses Combined With a Non-Effective Dose of Cyclosporine (CsA). Bigaud M, Wieczorek G, Reisen S, Menninger K, Barbet I, Jean, C, Beerli, C, Audet M, Blancher A, Heusser C, Wagner J, **Morris RE**: American J. Transplant. 6, Suppl 2: 250, Abstract 546, 2006.
161. NVP-AEB071 (AEB), The Novel Oral Inhibitor of Early T-Cell Activation, Prolongs the Survival of Non-Human Primates (NHP) Kidney Allografts Survival When Combined with Everolimus (RAD), ERL080 (ERL) or FTY720 (FTY) Without Calcineurin Inhibitor. Bigaud M, Wieczorek G, Preussing E, Reisen S, Cordoba F, Audet M, Blancher A, Heusser C, Bruns C, Wagner J, **Morris RE**: American J. Transplant. 6, Suppl 2: 251, Abstract 550, 2006.
162. NVP-AEB071 (AEB), A Novel Oral Inhibitor of Early T-Cell Activation, Prolongs Rat Cardiac Allograft Survival When Used Alone and In Combination With Cyclosporine, Everolimus, or FTY720. Bruns C, Pally C, Beerli C, Wieczorek G, Wagner J, **Morris RE**: American J. Transplant. 6, Suppl 2: 316, Abstract 741, 2006.
163. Pharmacodynamics (PD) of T-Cell Inhibition by the New Protein Kinase C (PKC) Inhibitor, NVP-AEB071 (AEB) in Non-Human Primates (NHP). Bigaud M, Burkhart C, Raulf F, Vedrine C, Maurer C, Allard C, Preussing E, Cordoba F, Heusser C, **Morris RE**: American J. Transplant. 6, Suppl 2: 697, Abstract 1896, 2006.
164. First Escalating Single Dose Human Volunteer Study of the Novel Immunosuppressant (IS) NVP-AEB071 (AEB): Relationships among Dose Levels, PK and PD of Immune Functions. Burkhart C, Welzenbach K, Raulf F, Vitaliti A, Grenet O, Schmidli H, Belleli R, Marbach P, Wagner J, **Morris RE**, Rordorf C: American J.

CURRICULUM VITAE

Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

Transplant. 6, Suppl 2: 698, Abstract 1897, 2006.

165. Pharmacokinetics (PK) of the Novel Oral Protein Kinase C (PKC) Inhibitor NVP-AEB071 (AEB) in Rats and Non-Human Primates (NHP): Study of Immunosuppressive (IS) Efficacy and Distribution to Lymphatic Organs. Weckbecker G, Jean C, Pally C, Wagner J, **Morris RE**, Bruns C: American J. Transplant. 6, Suppl 2: 768, Abstract 2114, 2006.
166. Enzymatic & Cellular Characterization of NVP-AEB071 (AEB), A Novel & Selective Protein Kinase C (PKC) Inhibitor That Blocks Early T-Cell Activation, and Its Use to Define the Role of PKC in T Cells. Evenou J-P, Brinkmann V, Towbin H, Welzenbach K, Cottens S, Wagner J, **Morris RE**, Zenke G: American J. Transplant. 6, Suppl 2: 1026, Abstract 2954, 2006.
167. Selective Protein Kinase C Inhibitor Prevents Organ Allograft Rejection. Wagner J, Zenke G, Baier G, Bigaud M, Evenou J-P, Brinkmann V, Pally C, Wieczorek G, Weckbecker G, Beerli C, Bruns C, Heusser C, Burkhardt C, Welzenbach K, Kovarik J, Gruber T, Lutz-Nicoladoni C, Thuille N, Albert R, Cooke N, Sedrani R, van Eis M, Vangrevelinghe E, von Matt P, Marbach P, Dumortier T, Geiser M, Strauss A, Rummel G, Stark W, **Morris RE**, Rordorf C, Cottens S: In preparation.
168. Efficacy of NVP-AEB071, a Novel Oral Inhibitor of Early T-Cell Activation in GvH and Transplantation Models. Weckbecker G, Pally C, Beerli C, Burkhardt C, Wieczorek G, Metzler B, **Morris RE**, Wagner J, Bruns C: 4th International Leukocyte Signal Transduction Workshop: Clinical Implications of Signaling Pathways. Aegean Conferences, Rhodos/Greece, 2007

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Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

169. Burkhart C, Welzenbach K, Raulf F, Vitaliti A, Grenet O, Schmidili H, Belleli R, Marbach P, Wagner J, Rordorf C, Slade A, **Morris RE**. NVP-AEB071 (AEB071) Suppression of immune cell functions: Single dose Exposure-Response in humans. 2008. Intl conference on new trends in immunosuppression and immunotherapy.

CURRICULUM VITAE

Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

MISCELLANEOUS PUBLICATIONS

1. Brazelton TR, Doyle RL, Poirer C, Wong RL, Newmark RD, Lin T, Reitz BA, Theodore J, **Morris RE**, and the Stanford Lung Database Group, the International Lung Transplant Study Group and Novartis Pharmaceuticals. The Novartis Lung Transplant Database: White Paper. February 1998.

CURRICULUM VITAE

Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

MEETING PRESENTATIONS AND INVITED LECTURES

1. Prolongation of rat renal allograft survival by chicken anti-rat lymphocyte globulin. Presented at the International Congress of the Transplantation Society, San Francisco, CA, 1972.
2. Prolongation of rat cardiac allograft survival by a new immunosuppressant: Chicken anti-rat lymphocyte globulin. Presented at the Annual Meeting of the Society of University Surgeons Meeting, St. Louis, MO, 1974.
3. Immunological detection of human cardiac rejection. Presented at the American College of Surgeons Annual Meeting, Miami, FL, 1974.
4. Chicken antilymphocyte globulin: Mechanisms of action. Presented at the International Congress of the Transplantation Society, Jerusalem, Israel, 1974.
5. Chicken anti-rat lymphocyte globulin (CARLG): Dose-response study. Presented at the American College of Surgeons Annual Meeting, Chicago, IL, 1976.
6. Chicken antilymphocyte globulin: A source of heterologous enhancing antibody. Presented at the International Congress of the Transplantation Society, New York, NY, 1976.
7. Immunologic monitoring of cardiac transplant recipients by a modified reactive leukocyte blastogenesis assay. Presented at the International Congress of the Transplantation Society, Special Session on Immunological Monitoring of the Transplant Recipient, New York, NY, 1976.

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8. Immunologic monitoring of cardiac transplant recipients by a modified reactive leukocyte blastogenesis assay (MRLB). Presented at the International Congress on Immunological Monitoring in Transplantation, London, Ont., 1977.
9. Chicken anti-rat lymphocyte globulin (CARLG): A new specific immunosuppressant. Presented at the Resident's Forum at the Annual Meeting of the Society of University Surgeons, Salt Lake City, UT, 1979.
10. Detection of cell surface antigens by the cellular enzyme-linked immunosorbent assay (CELISA). Presented at the Annual Meeting for the American Association for Clinical Histocompatibility Typing, Orlando, FL, 1981.
11. New approaches to enzyme immunoassay. Invited Lecture at Flow Labs, Inc., Gaithersburg, MD, 1980.
12. Cellular enzyme immunoassay. Invited Lecture to the Division of Immunology, Department of Medicine, Mayo Clinic Foundation, Rochester, MN, 1981.
13. Cellular enzyme immunoassay. Invited Lecture to the Milwaukee Blood Center, Milwaukee, WI, 1981.
14. Cellular enzyme immunoassay. Invited Lecture to Department of Medical Microbiology and Division of Oncology, University of Vermont School of Medicine, Burlington, VT, 1981.

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15. A new, highly sensitive assay for quantitating antibody bound to cell-surface antigens. Presented at the International Congress of the Transplantation Society, Brighton, England, 1982.
16. The induction of tolerance to and the definition of the pharmacokinetics of chicken anti-rat lymphocyte globulin. Presented at the Resident's Forum, Annual Meeting of the Society of University Surgeons, Oklahoma City, OK, 1983.
17. The use of the cellular enzyme-linked immunospecific assay to probe the cell surface. Invited Lecture to Hybritech, Inc., San Diego, CA, 1983.
18. "The Media and The Medical News". Panelist, at the Annual Meeting of University Science Writers, San Francisco, CA, 1985.
19. New developments in transplantation immunology. Invited Lecture to Invitron, Inc., Redwood City, CA, 1987.
20. In search of: the ideal immunosuppressant for organ transplantation. Invited Lecture, National Cancer Institute, Developmental Therapeutics Program, Bethesda, MD, 1987.
21. The future of organ transplantation. Invited Lecture at the Emerging Surgical Technologies Conference, San Francisco, CA, 1987.
22. Immunopharmacology, of FK-506. Presented at the International Congress of the Transplantation Society, Sydney, Australia, 1988.

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23. Immunosuppressive effects of cytokines produced by recombinant DNA technology. Invited presentation at Mini-Symposium on Immunosuppressive Cytokines, Genentech, San Francisco, CA, 1988.
24. New molecules as potential therapy in AIDS. Invited presentation to The Decision Network Committee 2a, N.C.I., Bethesda, MD, 1988.
25. New developments in immunosuppression for transplantation, Invited presentation, ITT Research Institute, Chicago, IL, 1988.
26. Use of the purine synthesis inhibitor, RS-61443 as an immunosuppressant for transplantation. Invited presentation at Mini-symposium on RS-61443, Syntex, Inc., Palo Alto, CA, 1989.
27. Immunopharmacology of deoxyspergualin. Invited presentation at The International Symposium on the Use of Deoxyspergualin for Transplantation, Chicago, IL, 1989.
28. Quantitative analysis of deoxyspergualin immunosuppression, Workshop on suppression in transplantation. International Congress on Immunology, Berlin, West Germany, 1989.
29. Rapamycin: A new and highly active immunosuppressive macrolide-structurally similar to FK-506. Invited address on Newest Developments in Transplantation, International Congress on Immunology, Berlin, West Germany, 1989.
30. 15-Deoxyspergualin: A novel, effective immunosuppressant. Presented at the International Congress of Immunology, Berlin, West Germany, 1989.

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31. Recombinant human transforming growth factor beta-1 is a potent immunosuppressant in vivo. Presented at the International Congress of Immunology, Berlin, West Germany, 1989.
32. Immunosuppressive properties of two novel macrolides: FK-506 and rapamycin. Invited presentation to Wyeth-Ayerst Research, Princeton, NJ, 1989.
33. RS-61443 is a novel purine synthesis inhibitor that prolongs allo- and xenograft survival. American College of Surgeons Annual Meeting, Atlanta, GA, 1989.
34. Quantitative immunopharmacologic comparison between FK-506 and cyclosporine. Invited presentation, Symposium on FK-506, Presented at The European Society of Organ Transplantation, Barcelona, Spain, 1989.
35. RS-61443 Prolongs allograft survival by selective inhibition lymphocyte purine nucleotide synthesis, Presented at the European Society of Organ Transplantation, Barcelona, Spain, 1989.
36. Progress in the use of RS-61443 as an immunosuppressant for organ transplantation. Invited presentation, Syntex Research, Palo Alto, CA, 1989.
37. New molecules for the control of graft rejection. Invited presentation by the Stanford Clinical Laboratory Education Committee, Stanford, CA, 1990.
38. The importance of animal models for the development of new drugs to treat organ transplant rejection. Invited presentation to the Department of Laboratory Animal Medicine, Stanford, CA, 1990.

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39. Control of transplant rejection at the molecular level. Invited presentation, Genentech, Inc., South San Francisco, CA, 1990.
40. FK-506 immunosuppression for the future. Invited presentation to the Cardiology Research Conference, Stanford, CA, 1990.
41. The post-cyclosporine era. Invited presentation to The National Kidney Foundation's Science Writers' Briefing, New York, NY, 1990.
42. New xenobiotics for organ and tissue transplantation. Invited presentation to Ortho Biotech, Lambertville, NJ, 1990.
43. Progress in use of rapamycin for the control of graft rejection. Invited presentation, Wyeth, Ayerst Research, Princeton, NJ, 1990.
44. RS-61442 is a novel and specific inhibitor of T and B cell purine synthesis that induces transplant tolerance, reverses acute rejection and prolongs xenograft survival. Presented at annual meeting of The International Society for Heart Transplantation, Ft. Lauderdale, FL, 1990.
45. Induction of graft tolerance by brief treatment with rapamycin: a new, far more potent and effective immunosuppressant than cyclosporine. Presented at the annual meeting of The International Society for Heart Transplantation, Ft. Lauderdale, FL, 1990.
46. Preclinical studies in mice, rats and monkeys using mycophenolic acid and its morpholinoethyl ester to control allo- and xenograft rejection. Presented at the annual meeting of The American Society for Transplant Surgeons, Chicago, IL, 1990.

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47. Rapamycin, a new immunosuppressant, more potent and effective than FK506 and CsA; induces specific unresponsiveness to cardiac allografts after a brief treatment. Presented at the annual meeting of The American Society for Transplant Surgeons, Chicago, IL, 1990.
48. Rapamycin and RS-61443. Invited presentation at the First Post-Graduate Course on Basic Mechanisms and Clinical Application of Immunosuppressive Agents sponsored by The American Society for Transplant Surgeons, Chicago, IL, 1990.
49. Progress in the discovery and development of new drugs for the control of graft rejection. Invited presentation at the University of Utah Medical School, Salt Lake City, UT, 1990.
50. Studies of rapamycin in rat and murine models of heart allografts. Invited presentation at a satellite symposium (Rapamycin, a novel immunosuppressant for organ transplantation) of the 13th International Congress of the Transplantation Society, San Francisco, CA, 1990.
51. New developments in the use of FK506, rapamycin, RS-61443 and deoxyspergualin. Invited presentation to Sandoz Pharmaceuticals, San Francisco, CA, 1990.
52. Effects of various immunosuppressive regimens on cardiac allografts in the rat and monkey. Invited presentation at a satellite symposium (Immunosuppressive drugs: targets and mechanisms of action) at the 13th International Congress of the Transplantation Society, San Francisco, CA, 1990.

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53. Mycophenolic acid and its morpholinoethyl ester are novel, selective and effective immunosuppressants for cardiac allograft rejection in mice, rats and non-human primates. Presented at the 13th International Congress of the Transplantation Society, San Francisco, CA, 1990.
54. Rapamycin is a new, safe, and highly potent and effective means of inducing antigen-specific unresponsiveness to allografts. Presented at the 13th International Congress of the Transplantation Society, San Francisco, CA, 1990.
55. Journey into the heart of darkness: a search for new immunosuppressants. Invited presentation to Boehringer Ingelheim, Inc., Ridgefield, CT, 1990.
56. Lectins and other immunosuppressants for transplantation. Invited presentation to Incyte Bioscience Research, Inc., Redwood City, CA, 1990.
57. New developments in immunosuppression for organ transplantation. Invited presentation to Abbott Laboratories, Abbott Park, IL, 1990.
58. Relevance of preclinical models of transplantation to the design of clinical trials of immunosuppressive drugs. Invited presentation to the Food and Drug Administration, Rockville, MD, 1990.
59. Improved immunosuppression for transplantation: a challenge for the 1990's. Invited presentation to the Dept. of Surgery Grand Rounds, Johns Hopkins University, Baltimore, MD, 1990.

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60. Molecular Mechanisms of action of new immunosuppressive molecules. Invited presentation to the Hematopoiesis Society, Johns Hopkins University, Baltimore, MD, 1990.
61. Discovery and development of the use of mycophenolic acid and its morpholinoethyl ester for the control of organ allograft rejection. Invited presentation to the Medical Products Group, E.I. Du Pont de Nemours and Co., Wilmington, DE, 1990.
62. The post cyclosporine era: "Operating on the immune system with molecular scalpels." Invited presentation to the Dept. of Surgery, University of Iowa, Iowa City, IA, 1990.
63. New immunosuppressants in the post-cyclosporine era. Invited presentation to the Department of Surgery, University of Minnesota, Minneapolis, MN, 1990.
64. Immunopharmacology of new immunosuppressants - macrolides and anti-purines. Invited presentation at the Thoracic Organ Transplantation Symposium - 1991, Tucson, AZ, .
65. Prospects for immune tolerance. Invited presentation to the Thoracic Organ Transplantation Symposium - 1991, Tucson, AZ, 1991.
66. Investigation of new immunosuppressive agents. Invited presentation to the Winter Practice and Research Forum of the American College of Clinical Pharmacy, Fort Lauderdale, FL, 1991.

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67. Cellular and molecular mechanisms of action of immunosuppressive agents. Invited presentation to the Winter Practice and Research Forum of the American College of Clinical Pharmacy, Fort Lauderdale, FL, 1991.
68. The post-cyclosporine era: "Operating" on the immune system with new molecular "scalpels." Invited presentation to the New York Society of Nephrology, New York, NY, 1991.
69. New horizons in immunosuppression for transplantation. Invited presentation to the Division of Nephrology, Mt. Sinai School of Medicine, New York, NY, 1991.
70. Emerging new immunosuppressive therapy for transplantation. Invited presentation to the Harvard Course on Renal Transplantation: Clinical Therapy and Management, Boston, MA, 1991.
71. New immunosuppressive agents. Invited presentation to the Meeting on Organ Transplants in Children: A Perspective for the 90's, Temple University School of Medicine, Philadelphia, PA, 1991.
72. Study of the immunosuppressive, pharmacokinetic and pharmacodynamic effects of RS-61443 monotherapy in cynomolgus recipients of heart allografts. Presented at the 11th Annual Meeting and Scientific Sessions of the International Society of Heart and Lung Transplantation, Paris, France, 1991.
73. Perspectives for immunoregulation in the '90's. Invited presentation to Biospan, Inc., Redwood City, CA, 1991.

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74. Update on efficacy and safety of rapamycin immunosuppression in cynomolgus recipients of heart allografts. Invited presentation to Wyeth-Ayerst Research, Princeton, NJ, 1991.
75. Studies of the effects of RS-61443 and FK506 on graft coronary disease and acute rejection, and of the immunosuppressive efficacy of triple drug therapy with RS-61443, rapamycin and cyclosporine. Presented at the Annual Meeting of the American Society of Transplant Physicians, Chicago, IL, 1991.
76. Study of the immunosuppressive, pharmacokinetic, and pharmacodynamic effects of RS-61443 monotherapy in cynomolgus recipients of heart allografts. Presented at the Annual Meeting of the American Society of Transplant Physicians, Chicago, IL, 1991.
77. Initial use of rapamycin immunosuppression in nonhuman primate graft recipients: efficacy, toxicity, combined use with cyclosporine and pharmacokinetics and dynamics. Presented at the Annual Meeting of the American Society of Transplant Surgeons, Chicago, IL, 1991.
78. 15-deoxyspergualin. Invited presentation to the American Society of Transplant Physicians Postgraduate Course on Advances in immunosuppression, Chicago, IL, 1991.
79. Discovery, development and clinical application of new immunosuppressive drugs. Invited presentation to the Transplantation Research Seminar, University of Wisconsin, Madison, WI, 1991.

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80. In vivo immunopharmacology of immunosuppressive macrolides. Invited plenary Lecture at the First International Congress on FK506, Pittsburgh, PA, 1991.
81. Workshop on new immunosuppressants. Invitation by Second Basic Science Symposium of the Transplantation Society, Oxford, United Kingdom, 1991.
82. Workshop on composite tissue transplantation. Invitation by the Pacific Northwest Research Foundation, Seattle, WA, 1991.
83. New immunosuppressive agents. Invited Lecture for the postgraduate course in cardiac surgery, American College of Surgeons, 1991 Clinical Congress, Chicago, IL.
84. Immunosuppression - the future. Invited Lecture to the postgraduate course on the current status of organ transplantation in children, the American College of Surgeons, 1991 Clinical Congress, Chicago, IL.
85. New advances in molecular immunosuppression. Invited Lecture at the Loyola School of Medicine, 1991.
86. New compounds in transplantation. Invited Lecture to the Sandoz Fellows Transplant Symposium, Chicago, IL, 1991.
87. The molecular basis of the discovery, development and use of new immunosuppressive drugs. Invited by Karolinska Institute Huddinge Transplant Lecture, Annual Meeting of the Swedish Medical Society, Stockholm, Sweden, 1991.
88. New molecules for the control of graft rejection. Invited Lecture to ICOS Pharmaceuticals, Inc., Bothell, WA, 1991.

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89. New immunosuppressive drugs for renal transplantation. Invited Lecture to Stanford Medical School Division of Nephrology Research Conference, Stanford, CA, 1992.
90. Advances in immunosuppression and the treatment of vascular occlusive disease. Invited Lecture to Surgical Grand Rounds, The Cleveland Clinic Foundation, Cleveland, OH, 1992.
91. A review of new immunosuppressants for transplantation. Invited Lecture to the Transplantation Society of Northeast Ohio, Cleveland, OH, 1992.
92. Treatment of transplant graft rejection, immune- and angioplasty-mediated vascular occlusive disease: three cases of unmistakable identity. Invited Presentation to the Program in Molecular and Genetic Medicine, Mini-symposium in vascular biology and medicine, Stanford University, Stanford, CA, 1992.
93. New immunosuppressive compounds in transplantation. Invited Lecture to the Annual International Conference on Biochemical Analysis, Munich, Germany, 1992.
94. A non-lymphocyte depleting monoclonal antibody to the adhesion molecule LFA-1(CD11a) inhibits ongoing and accelerated rejection and induces specific unresponsiveness to heart allografts. Plenary Lecture at the annual meeting of the American Association of Transplant Physicians, Chicago, IL, 1992.
95. Brequinar is a new and highly potent antimetabolite immunosuppressant that reverses advanced graft rejection and effectively suppresses accelerated rejection. Presented at the annual meeting of the American Association of Transplant Physicians, Chicago, IL, 1992.

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96. Recent progress in the discovery and development of immunosuppressants for transplantation. Invited Lecture to the Third Annual American Society of Transplant Surgeons Postgraduate Course, Chicago, IL, 1992.
97. The same immunosuppressive drugs can prevent rejection and intimal thickening after mechanical vascular injury. Invited Lecture to Glycomed, Inc., Alameda, CA, 1992.
98. Prevention and treatment of allograft rejection in vivo by rapamycin: molecular and cellular mechanisms of immunosuppressive action. Invited presentation to the New York Academy of Sciences/The National Institutes of Health Third International Conference on Drug Research in Immunologic and Infectious Diseases. Immunomodulating drugs: synthesis, preclinical and clinical evaluation, Washington, D.C., 1992.
99. An anti-LFA-1 (CD11a) monoclonal antibody (MAb) inhibits ongoing and accelerated rejection and induces specific unresponsiveness to cardiac allografts. Presented at the 8th International Congress of Immunology, Budapest, Hungary, 1992.
100. Brequinar is a new and highly potent antimetabolite immunosuppressant that reverses advanced graft rejection and effectively suppresses accelerated rejection. Presented at the 8th International Congress of Immunology, Budapest, Hungary, 1992.
101. Treatment with rapamycin reverses severe heart allograft rejection: mechanisms of rapamycin's actions at the cellular and molecular levels. Presented at the 8th International Congress of Immunology, Budapest, Hungary, 1992.

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102. Brequinar is a new and highly potent antimetabolite immunosuppressant that reverses advanced graft rejection and effectively suppresses accelerated rejection. Presented at the 14th International Congress of the Transplantation Society, Paris, France, 1992.
103. An anti-LFA-1 (CD11a) monoclonal antibody (MAb) inhibits ongoing and accelerated rejection and induces specific unresponsiveness to cardiac allografts. Presented at the 14th International Congress of the Transplantation Society, Paris, France, 1992.
104. Invited "Introductory Lecture," Second Rapamycin Workshop held in conjunction with the 14th International Congress of the Transplantation Society, Paris, France, 1992.
105. New immunosuppressive drugs. Invited Lecture to Ortho Symposium on Molecular Immunology at the Annual Meeting of the Canadian Transplantation Society and 61st Annual Meeting of the Royal College of Physicians and Surgeons of Canada, Ottawa, Canada, 1992.
106. Immunosuppression for transplantation in the 1990s. Invited Lecture to the Edmonton Multi-Organ Transplant Organization, Edmonton, Canada, 1992.
107. Rapamycin for immunosuppression and treatment of vascular disease. Invited Lecture at the University of Alberta, Edmonton, Canada, 1992.
108. Introduction to immunosuppression for transplantation: concepts, perspectives and role of preclinical animal models. Invited Lecture to Course on Immunosuppressive Drug Development and Transplantation Science organized by Staff College of the

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Center for Drug Evaluation and Research, Food and Drug Administration, Rockville, MD, 1992.

109. Strategies for immunosuppression in the '90s. Invited Lecture to Alza Pharmaceuticals, Inc., Palo Alto, CA, 1992.
110. Update on new immunosuppressants for transplantation. Invited Lecture at Rush-Presbyterian Medical Center, Chicago, IL, 1992.
111. Recent advances in xenobiotic immunosuppression. Invited Lecture at University of Oregon Health Sciences Center, Portland, OR, 1992.
112. Role of new immunosuppressive drugs in tolerance induction. Invited Lecture to the Second Symposium on Tolerance Induction, Breckenridge, CO, 1993.
113. New immunosuppressants to suppress rejection of thoracic organ allografts. Invited Lecture to Thoracic Organ Transplantation Symposium, Tucson, AZ, 1993.
114. New immunosuppressive drugs. Invited Lecture to the International Symposium on Pediatric Heart Transplantation, Rancho Mirage, CA, 1993.
115. Mechanisms of action of cyclosporine. Invited Lecture to Symposium on Cyclosporine: A Decade of Experience, held in conjunction with the International Society of Heart and Lung Transplantation annual meeting, Boca Raton, FL, 1993.
116. Rapamycin reverses ongoing rat and nonhuman primate cardiac allograft rejection: mechanisms of drug action at the cellular and molecular levels. Presented at the

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- meeting of the International Society for Heart and Lung Transplantation, Boca Raton, FL, 1993.
117. Potential and limitations of new immunosuppressants. Invited, featured Lecture to the International Society for Heart and Lung Transplantation, Boca Raton, FL, 1993.
118. New ways of discovering new immunosuppressive agents. Invited Lecture to Symposium on Immunosuppressive Agents, meeting of the American Society of Transplant Physicians, Houston, TX, 1993.
119. Rapamycin reverses ongoing rat and monkey heart allograft rejection. Presented at the American Society of Transplant Surgeons, Houston, TX, 1993.
120. Review of new immunosuppressive drugs for transplantation. Invited Lecture at the International Meeting of Therapeutic Drug Monitoring, Philadelphia, PA, 1993.
121. Suppression of monkey allograft rejection by rapamycin. Invited presentation at the Wyeth-Ayerst Rapamycin Investigators' Meeting, Princeton, NJ, 1993.
122. Use of rapamycin to inhibit restenosis after balloon catheter injury in rats. Invited presentation at the Wyeth-Ayerst Rapamycin Investigators' Symposium, Princeton, NJ, 1993.
123. The revolution in immunosuppression: new drugs offer new hope. Invited presentation at the California Transplant Games and Symposium, Palo Alto, CA, 1993.

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124. New immunosuppressants for transplantation. Invited Lecture to the Fourth Annual Symposium on Renal Transplantation, Miami, FL, 1993.
125. Overview of the discovery, development and clinical use of new immunosuppressive molecules: lessons from the past and strategies for the future. Invited Lecture to the Gordon Conference (Medicinal Chemistry), New London, NH, 1993.
126. New kids on the block: advances in immunosuppression. Invited plenary symposium Lecture to the International Conference on Pediatric Transplantation, Minneapolis, MN, 1993.
127. Effect of leflunomide on survival of non-human primate allografts and on proliferation of vascular smooth muscle cells in vitro and in vivo. Invited to Lecture to Hoechst Pharmaceuticals, Weisbaden, Germany, 1993.
128. New immunosuppressive drugs in transplant recipients. Invited plenary Lecture to the Twenty-Fifth Anniversary Symposium of Eurotransplant, Leiden, The Netherlands, 1993.
129. Update on new immunosuppressive drugs. Invited to Lecture to University of Southern California Conference on Complex Problems in Cardiac Surgery, Pasadena, CA, 1993.
130. Use of immunosuppressants to suppress intimal thickening after vascular injury, Abbott Pharmaceuticals, Abbott Park, IL, 1993.
131. New immunosuppressants. Invited presentation to A Short Course in Transplantation, American Society of Nephrology Annual Meeting, Boston, MA, 1993.

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132. Mechanisms and uses of new molecules that control rejection to transplanted grafts. Invited to Lecture at American Association for Clinical Chemistry A.O. Beckman Conference on Immune Disorders, Newport Beach, CA, 1994.
133. Modes of action of FK506 and Cyclosporin A. Invited to Lecture at FK506 Symposium, Geneva, Switzerland, 1994.
134. Overview of the discovery and development of new, small molecule immunosuppressants for transplantation. Invited Lecture at International Conference on New Trends in Clinical and Experimental Immunosuppression, Geneva, Switzerland, 1994.
135. The current revolution in Immunosuppression for transplantation: Where are we? How did we get here? and Where are we going? Invited Lecture at Roussel Uclaf Pharmaceuticals, Romainville, France, 1994.
136. New drugs for control of transplant rejection and intimal thickening after arterial injury. Invited Lecture at University of Bern, Bern, Switzerland, 1994.
137. Future trends in immunosuppression for transplantation. Invited Lecture at Sandoz Pharmaceuticals, Basel, Switzerland, 1994.
138. Immunosuppression: past, present and future. Invited Lecture to the UNOS Region V Clinical/OPO Forum, San Francisco, CA 1994.
139. Blending of immunosuppressive drugs. Invited Presentation to the 3rd International Congress on Cyclosporine, Seville, Spain, 1994.

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140. Not completely irrational discovery and development of new xenobiotic immunosuppressants for transplantation and other diseases. Invited presentation to Agouron Pharmaceuticals, Inc., San Diego, CA, 1994.
141. New molecules to control the immune response: from the bench to the bedside. Stanford Lung Disease Research Center Seminar, Stanford, CA, 1994.
142. New immunosuppressive drugs, their mechanisms and clinical trials. Invited presentation to the Annual Meetings of the American Society of Transplant Physicians and American Society of Transplant Surgeons Joint Symposium on New Immunosuppressive Drugs, Chicago, IL, 1994.
143. Immunosuppressive drugs for transplantation that inhibit cytokine action. Invited presentation to the 5th Annual Rush Symposium on Transplantation: Leflunomide: A New Direction to Immunosuppression, Chicago, IL, 1994.
144. Immunosuppressive molecules, from the bench to the bedside. Invited presentation to the UCLA Society of Nephrology, Los Angeles, CA, 1994.
145. New research developments in control of heart/lung rejection. Presented to the Stanford Lung Transplant Support Group, Stanford, CA, 1994.
146. Use of new immunosuppressive molecules for the prevention and treatment of chronic heart and lung allograft rejection. Invited presentation to the 5th Alexis Carrel Conference, Munich, Germany, 1994.

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147. Inhibition of growth factor action by new small molecules: relevance for treatment of chronic heart and lung rejection (and maybe even restenosis after PTCA). Invited presentation, Cardiovascular Medicine Basic Science Seminar, Stanford University Medical Center, 1994.
148. How to understand and use new xenobiotic immunosuppressants. Invited plenary Lecture to the 25th World Congress of the Transplantation Society, Kyoto, Japan, 1994.
149. Initiation of rapamycin treatment after an established alloimmune response inhibits arterial intimal thickening. Presented at the 25th World Congress of the Transplantation Society, Kyoto, Japan, 1994.
150. Inhibition of arterial intimal thickening by leflunomide: *in vivo* efficacy and molecular mechanisms. Presented at the 25th World Congress of the Transplantation Society, Kyoto, Japan, 1994.
151. Uses of new immunosuppressive molecules for transplantation and nonimmunologic diseases. Presentation to ITT Research Institute, Chicago, IL, 1994.
152. Review of new developments in immunosuppression with reference to HPI 228. Vector Securities, Deerfield, IL, 1994.
153. Review of past, present and future opportunities in immunosuppression for transplantation. Invited presentation to Houghten Pharmaceuticals, San Diego, CA, 1994.

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154. New immunosuppressive drugs for transplantation. Invited presentation to Current Trends in Transplantation Conference, Anaheim, CA, 1994.
155. New immunosuppressive molecules for transplantation. Invited presentation to Panel on Biotechnology in Surgery, Annual Meeting of the American College of Surgeons, Chicago, IL, 1994.
156. Conceptual framework for the understanding of new immunosuppressive drugs. Invited presentation to the Minneapolis Heart Institute Symposium on Thoracic Organ Transplantation, Tucson, AZ, 1994.
157. New models and new treatments for lung allograft obliterative bronchiolitis. Presented to the Division of Pulmonary Medicine Research Seminar, Stanford, CA, 1994.
158. Immunosuppression for transplantation: Common sense solutions to a complex therapeutic area. Keynote speaker, Fifth Annual Day in Transplantation, 1994. University of Toronto Multi Organ Transplant Program in association with the Toronto Hospital, Hospital for Sick Children, and St. Michael's Hospital, Toronto, Canada, 1994.
159. Update on clinical trials for new immunosuppressants for transplantation. Invited Lecture to Surgical Grand Rounds, Visiting Professor, Multi-Organ Transplant Program, University of Toronto, Canada, 1994.
160. Mechanisms of action for drugs controlling chronic allograft rejection. Invited Lecture, to Liver Transplant Rounds, Visiting Professor, Multi-Organ Transplant Program, University of Toronto, Canada, 1994.

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161. Novel targets for inhibition of growth factor action: use of new drugs to control chronic heart and lung allograft rejection and arterial narrowing after balloon catheter injury. Invited Lecture, Vascular Retreat – Invited Lecture to "Trends in Vascular Medicine and Biology," Stanford Division of Cardiovascular Medicine, Santa Cruz, CA, 1994.
162. Clinical status of immunosuppressants. Invited Lecture to Southeastern Organ Procurement Foundation, Charleston, SC, 1995.
163. Use of pharmacologic agents to dissect the pathophysiology of chronic rejection. Invited Lecture, Chronic Heart Rejection Summit, St. Louis, MO, 1995.
164. Use of new immunosuppressants in tolerance. Invited Lecture to N.I.H. Consensus Conference on Tolerance, Washington, D.C., 1995.
165. New developments in immunosuppression for transplantation. Invited Lecture to North American Pediatric Renal Transplant Cooperative Study, 5th Annual Workshop, San Francisco, CA, 1995.
166. Immunosuppression and the role of biotechnology. Invited Lecture to Genentech, S. San Francisco, CA, 1995.
167. Use of cyclosporine, mycophenolic acid, rapamycin, leflunomide or deoxyspergualin for prevention and treatment of obliterative airway disease in new animal models. International Society of Heart & Lung Transplantation 15th Annual Meeting, San Francisco, CA, 1995.

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Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

168. Rapamycin for immunosuppression. Invited Lecture to American Association for Thoracic Surgery, Symposium on Transplantation, Boston, MA, 1995.
169. Mechanisms of action of new immunosuppressive molecules. Invited Lecture to the International Consensus Conference on Immunosuppressive Drugs, Lake Louise, Canada, 1995.
170. Tracheal allograft transplantation: a model of obliterative airway disease and its treatment with new immunosuppressive drugs. American Society of Transplant Surgeons, Chicago, IL, 1995.
171. The cellular and molecular events causing obliterative airway disease after heterotopic tracheal allograft transplantation in rats. American Society of Transplant Physicians, Chicago, IL, 1995.
172. Chronic rejection of vessels and airways: new insights and new treatments. Invited Lecture to 6th Annual Rush Symposium on Transplantation "Chronic Rejection: A New Opportunity for Treatment," Chicago, IL, 1995.
173. Study of new immunosuppressive drugs using new animal models of obliterative airway disease in transplanted grafts. Invited Lecture, American Thoracic Society International Conference, Seattle, WA, 1995.
174. Immunosuppressive drugs for cardiac transplantation. Invited Lecture to the 6th International Symposium on Cardiac Surgery, Rome, Italy, 1995.

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Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

175. Newer immunosuppressive agents: drugs binding immunophilins, drugs interfering with purine and pyrimidine metabolism. Invited Lecture, 13th International Congress of Nephrology, Madrid, Spain, 1995.
176. Therapeutic interventions for long-term allograft failure - immunosuppressive therapies. Chair of session at Satellite Symposium of the 13th International Congress of Nephrology, Cuenca, Spain, 1995.
177. Mechanisms of immunosuppression. Invited Lecture, North American Society for Dialysis and Transplantation, Maui, HI, 1995.
178. New immunosuppressants. Invited Lecture, North American Society for Dialysis and Transplantation, Maui, HI, 1995.
179. New immunosuppressive therapy. Invited Lecture, UCSF Transplant Lecture Series, San Francisco, CA, 1995.
180. Mechanism of action and potential drug combinations. Invited Lecture, Plenary Session, the International Congress on New Immunosuppressive Drugs, Minneapolis, MN, 1995.
181. Leflunomide. Invited Lecture, Plenary Session, the International Congress on New Immunosuppressive Drugs, Minneapolis, MN, 1995.
182. Combination leflunomide and cyclosporine immunosuppression prevents MLR mismatches allograft rejection in mongrel dogs. International Congress on Immunosuppressive Drugs, Minneapolis, MN, 1995.

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183. New immunosuppressive drugs - mechanisms and potential for therapy. Invited Lecture to the 4th International Congress of Therapeutic Drug Monitoring, Vienna, 1995.
184. Lung transplantation: Clinical status, preclinical models for obliterative bronchiolitis and the potential for sirolimus. Invited Lecture, Wyeth Ayerst Research, Radnor, PA, 1995.
185. Current status and future perspectives of new immunosuppressants. Invited Lecture, Procept Pharmaceuticals, Inc, Cambridge, MA, 1995.
186. Update on immunosuppression invited Lecture to Transplant Fitness Day, Palo Alto, CA, 1995.
187. From tacrolimus to leflunomide and beyond: Lessons for immunosuppressive drug discovery, development and FDA approval. Invited Lecture, Vertex, Boston, 1995.
188. Molecular mechanisms of new immunosuppressants. Invited State of the Art Lecture, European Society of Organ Transplantation Biannual Meeting, Vienna, 1995.
189. Novel molecular mechanisms and pharmacodynamics of the antiproliferative actions of leflunomide, a new effective immunosuppressant, European Society of Organ Transplantation Biannual Meeting, Vienna, 1995.
190. Present status and future trends in immunosuppression for transplantation and autoimmune diseases. Invited presentation to Ortho Biotech, Sundance, UT, 1995.

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191. New developments in the use of Monoclonal Antibodies in transplantation. Invited Lecture, British Transplantation Society Meeting, London, England, 1995.
192. Into the heart of darkness: Review of immunosuppression for transplantation. Invited Lecture, Cambridge University, Cambridge, England, 1995.
193. Molecular mechanisms of action of leflunomide. Invited Lecture, Annual Meeting, American College of Rheumatology, San Francisco, 1995.
194. Strategies for the preclinical development of immunosuppressants relevant to studies of lymphocyte specific inhibition of transcription factors. Invited Lecture to joint meeting of Signal Pharmaceuticals and Bristol-Myers-Squibb Pharmaceuticals, San Diego, CA, 1995.
195. Review of immunosuppression for transplantation. Invited Lecture to American Liver Foundation (Northern California Chapter), San Francisco, 1995.
196. New developments in immunosuppression with special reference to chronic lung rejection. Invited Lecture, Pulmonary Grand Rounds, Cedars Sinai, Los Angeles, 1995.
197. New immunosuppressive drugs and therapeutic drug monitoring. Invited Lecture to Behring Diagnostics, San Jose, CA, 1995.
198. A comparison of the new pharmacologic agents in prevention of allograft rejection. Invited presentation at 5th Annual Postgraduate Course: New York - Transplant, New York, NY, 1995.

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199. Immunosuppression for transplantation. Transplant Journal Club, Stanford Medical School, Stanford, CA, 1995.
200. New developments in experimental and clinical immunosuppression. Invited Lecture, Emory University, Atlanta, GA, 1995.
201. New concepts in the pathogenesis, prevention and treatment of chronic allograft dysfunction. Invited Lecture to Sandoz, Basel, Switzerland, 1995.
202. Overview of New Immunosuppressants. Invited presentation to the American College of Clinical Pharmacology, Sixteenth Annual Frontiers Symposium and Winter Practice and Research Forum of the American College of Clinical Pharmacy, Monterey, CA 1996.
203. Gusperimus (15-deoxyspergualin). Invited presentation to The American College of Clinical Pharmacology, Sixteenth Annual Frontiers Symposium and Winter Practice and Research Forum of the American College of Clinical Pharmacy, Monterey, CA 1996.
204. Immunosuppression for transplantation. Invited Lecture to Transplantation Course, Stanford, CA, 1996.
205. Mechanisms of Action of Tacrolimus. Invited presentation to the Fujisawa Prograf Symposium, Second International Conference of Clinical and Experimental Immunosuppression, Geneva, Switzerland, 1996.

CURRICULUM VITAE

Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

206. Conceptual Frameworks for Understanding Immunosuppression. Presidential Address to the 2nd International Conference on New Trends in Clinical and Experimental Immunosuppression, Geneva, Switzerland, 1996.
207. Lessons from the Discovery and Development of New Immunosuppressants and Predictions for the Future. Invited Lecture to the 2nd International Conference on New Trends in Clinical and Experimental Immunosuppression, Geneva, Switzerland, 1996.
208. Pathogenesis and Treatment of Obliterative Airway Disease (OAD) after Xenogeneic Tracheal Transplantation in Rodents. Oral presentation to the 2nd International Conference on New Trends in Clinical and Experimental Immunosuppression, Geneva, Switzerland, 1996.
209. New immunosuppressants for transplantation. Invited Lecture to the 16th annual North American Renal Transplant Cooperative Study (NAPRTCS), Washington, DC, 1996.
210. Discovery and development of sirolimus (rapamycin) for control of chronic rejection and restenosis. Invited Lecture to the Wyeth-Ayerst Round Table on Sirolimus for Restenosis, New York City, 1996.
211. Introduction to new immunosuppressants. Invited Introduction to the "Treatment of Recurrent/Refractory Rejection at the International Society for Heart and Lung Transplantation, New York City, 1996.
212. Cellular and molecular mechanisms with inhibition by rapamycin of experimental allograft obliterative airway disease (OAD): Inhibition of growth-factor stimulated

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Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

- human adult lung fibroblast proliferation in vitro by rapamycin. Oral presentation, International Society for Heart and Lung Transplantation, New York City, 1996.
213. Update and new concepts in immunosuppression for organ transplantation. Invited Lecture, Liver Transplant Conference, Stanford University Hospital, 1996.
214. Preclinical package for immunosuppressive agents. Invited Lecture to CIBA Transplantation Workshop, CIBA Pharmaceutical, Summit, New Jersey, 1996.
215. Status of currently available immunosuppressive agents. Invited Lecture to the CIBA Transplantation Workshop, CIBA Pharmaceuticals, Summit, New Jersey, 1996.
216. Mycophenolate mofetil and rapamycin: Discovery, development and clinical use of two novel immunosuppressants. Invited Lecture to Stanford University Clinical Transplantation Forum, 1996.
217. Current and new immunosuppressive agents. Invited Lecture to the Transplantation Society of Australia and New Zealand, Sydney, Australia, 1996.
218. New perspectives in immunosuppression. Invited Lecture to the Transplantation Society of Australia and New Zealand, Sydney, Australia, 1996.
219. Mechanisms of action of new immunosuppressive drugs: Focus on potential and limitations. Invited Lecture to the Transplantation Society of Australia and New Zealand, Canberra, Australia, 1996.
220. Basic mechanisms of chronic allograft rejection. Invited Lecture to the Transplantation Society of Australia and New Zealand, Canberra, Australia, 1996.

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Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

221. Introduction: Practical experience with MNA's. Invited presentation to Hoechst AG, Leflunomide Method of Action Meeting, Symposium on MNA's in Transplantation, Eltville, Germany, 1996.
222. MNA's at Stanford and UC Davis. Invited presentation to Hoechst AG, Leflunomide Method of Action Meeting, Symposium on MNA's in Transplantation, Eltville, Germany, 1996.
223. Inhibition of pyrimidine biosynthesis with leflunomide in vitro and in vivo. Invited presentation to Hoechst AG, Leflunomide Method of Action Meeting, Symposium on DHODH, Eltville, Germany, 1996.
224. Induction of immunosuppressive cytokine and reduction of immunostimulatory cytokine, a novel mechanism of action of the immunomodulatory drug, leflunomide. Invited presentation to Hoechst AG, Leflunomide Method of Action Meeting, Symposium on Molecular Targets Other Than DHODH and Effects on Cytokines, Eltville, Germany, 1996.
225. Perspectives in immunosuppression. Anglo-American Visiting Professor Lecture, Royal Society of Medicine, London, 1996.
226. Overview of immunosuppression for transplantation. Invited Lecture, Renal Transplant Unit, Central Manchester Healthcare NHS Trust, Manchester, England, 1996.
227. New directions in immunosuppression. Invited Lecture, Northern General Hospital, University of Sheffield Clinical Sciences Centre, Sheffield, England, 1996.

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Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

228. Immunosuppression and chronic rejection. Invited Plenary Lecture at Symposium on Chronic Rejection, American Society for Transplant Physicians, Dallas, TX, 1996.
229. Mechanisms of immunosuppressive drugs: Action and special problems in children. Invited Plenary Lecture, Sigrid Juselius Symposium, Helsinki, Finland, 1996.
230. Preclinical and clinical status of immunosuppression for organ grafting. Invited Lecture, Vertex Pharmaceuticals, Cambridge, MA, 1996.
231. Potential of rapamycin to control clinical lung allograft rejection. Invited Lecture, Western Lung Consortium, Stanford, CA, 1996.
232. Novel immunosuppressive drugs for transplantation. Invited Lecture, Immunosuppression, Cytokine, and Immunotherapy Research Symposium, Princeton, NJ, 1996.
233. Molecular biology of immunosuppressive medications. Invited Lecture, American Society of Transplant Physicians Symposium on Transplantation, St. Louis, MO, 1996.
234. Mechanism and prevention of chronic allograft failure. Invited Lecture, Symposium on Chronic Rejection, Transplantation Society Congress, Barcelona, Spain, 1996.
235. Overview of Immunosuppressive drugs. Invited plenary session presentation at the International Congress of the Transplantation Society, Barcelona, Spain, 1996.

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Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

236. Antibodies in management of transplant patients. Invited Lecture, Transplantation Society Congress, Barcelona, Spain, 1996.
237. A novel inhibitor of NF κ B and AP-1 transcription factors in T cells suppresses host vs. graft alloreactivity in vivo. Invited Lecture, Symposium on New immunosuppressors: FTY-Apoptosis, at the International Congress of the Transplantation Society, Barcelona, Spain 1996.
238. New immunosuppressive regimens. Invited Lecture, Lung Transplantation Symposium, European Respiratory Society, Stockholm, 1996.
239. Removal of alloimmune injury fails to prevent subsequent progression of obliterative airway disease in rat tracheal allografts. Invited Lecture, 2nd International Congress on Lung Transplantation, Paris, 1996.
240. Novel immunosuppressant drug therapy for obliterative airway disease after rat heterotopic tracheal allograft transplantation. Invited Lecture, 2nd International Congress on Lung Transplantation, Paris, 1996.
241. Insights into the cellular and molecular pathogenesis of obliterative bronchiolitis from studies of transplanted tracheal grafts. Invited Lecture, 2nd International Congress on Lung Transplantation, Paris, 1996.
242. Lung Transplantation: Preclinical and clinical status. Invited presentation, Sandoz Pharmaceuticals, Basel, Switzerland, 1996.
243. Transplantation in the future. Invited presentation, Leflunomide Analogues (Malononitriloamides) at Hoechst-Marion Roussel, Frankfurt, Germany 1996.

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Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

244. Immunosuppressive therapy: Risks and chances for development of new immunosuppressive drugs. Invited presentation, Leflunomide Analogues (Malononitriloamides) at Hoechst-Marion Roussel, Frankfurt, Germany 1996.
245. Experience with MNAs at Stanford. Invited Presentation, Leflunomide Analogues (Malononitriloamides) at Hoechst-Marion Roussel, Frankfurt, Germany 1996.
246. Mechanisms of chronic rejection, Invited plenary Lecture, American Society of Histocompatibility & Immunogenetics 22nd Annual Meeting, San Diego, CA, 1996.
247. Control of chronic rejection with new immunosuppressive drugs. Invited plenary Lecture, American Society of Histocompatibility & Immunogenetics Annual Meeting, San Diego, CA, 1996.
248. How do we use the immunosuppressive drugs?, Invited Symposium Presentation, National Kidney Foundation Annual Meeting, New Orleans, 1996.
249. What's Next? Invited Lecture, Symposium - How to use immunosuppressive drugs, National Kidney Foundation, New Orleans, 1996.
250. Evidence that *in vitro* and *in vivo* anti-proliferative effects of leflunomide (LFM) are mediated by inhibition of *de novo* pyrimidine biosynthesis: *In vivo* inhibition of dihydroorotate dehydrogenase (DHODEHase). Invited Presentation, International Conference on Pediatric Heart & Lung Transplantation, Rancho Mirage, CA 1997.

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Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

251. Removal of alloimmune injury fails to prevent subsequent progression of obliterative airway disease in rat tracheal allografts. Invited Presentation, International Conference on Pediatric Heart & Lung Transplantation, Rancho Mirage, CA 1997.
252. New immunosuppressive agents. Invited Lecture, International Conference on Pediatric Heart & Lung Transplantation, Rancho Mirage, CA 1997.
253. Chronic rejection. Invited presentation, Advanced Nephrology: Nephrology for the Consultant, San Diego, CA 1997.
254. Invited Mini-clinical pathological conference. Advanced Nephrology: Nephrology for the Consultant, San Diego, CA 1997.
255. Organ transplantation in the 21st century: optimal targets for immunosuppression and tolerance. Invited Lecture, American Society of Transplant Physicians Winter Symposium, Phoenix, AZ 1997.
256. Emerging immunosuppressive therapies not in clinical trial. Invited Lecture, American Society of Transplant Physicians Winter Symposium, Phoenix, AZ 1997.
257. The discovery and development of new immunosuppressants. Invited presentation, Sixth Annual Spring Clinical Nephrology Meeting, National Kidney Foundation, Dallas, TX 1997.
258. The Future of Transplantation Medicine. Invited Presentation, Immunosuppressive Drug Monitoring Symposium.. San Jose, CA, 1997.

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Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

259. Study Design of Monkey Transplant Studies. Invited Presentation, RAD Heart and Lung Transplant Advisory Board. Chicago, 1997.
260. "Investigational Immunosuppressive Agents - Pharmacologic." Invited Presentation, American Society of Transplant Physicians. Symposium on Transplantation Medicine. St Louis, MO, 1997.
261. "Novel Immunosuppression." Invited Presentation, 5th International Symposium on Intestinal Transplantation. Cambridge, England, 1997.
262. "The Discovery and Development of New Immunosuppressants." Invited Presentation, (NIH) Workshop on Bone and the Hematopoietic and Immune Systems. Bethesda, Maryland, 1997.
263. "HMR-Stanford-UC Davis Collaboration: Leflunomide and MNAs." Invited Presentation, HMR Meeting. Bridgewater, NJ, 1997.
264. "Preclinical Summary of Rapamune." Invited Presentation, The Emerging Profile of Rapamune. European Society of Organ Transplantation. Budapest, Hungary, 1997.
265. "Overview and Update on Present and Future Trends in Pharmacologic Immunosuppression." Invited Presentation, Fifth Basic Science Symposium of the Transplantation Society. Chautauqua, NY, 1997.
266. "From Molecules to Drugs: Lessons Learned from Immunosuppressive Drug Discovery and Development." Invited Presentation, Immune Modulation for Transplantation and Autoimmune Diseases Conference: New Approaches to Drug Design and Development. San Francisco, CA, 1997.

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Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

267. “New Immunosuppressive Drugs: Are They Necessary?” Invited Presentation, Organ Transplantation: A Present Treatment With New Challenges for the Future. La Coruna, Spain, 1997.
268. “Chronic Rejection: Possibilities for Therapeutic Intervention.” Invited Plenary Presentation, Spanish Society of Nephrology: Update in Immunosuppression, Santander, Spain, 1997.
269. “New Immunosuppressive Agents: Drugs in Preclinical Evaluation.” Invited Plenary Presentation, Spanish Society of Nephrology: Update in Immunosuppression, Santander, Spain, 1997.
270. “Drugs for Immunosuppression.” Invited Presentation, Minneapolis Heart Institute Foundation: Current Perspectives in Cardiac Transplantation, Tucson, AZ, 1997.
271. “Overview: New Immunosuppressive Drugs.” Invited Plenary Presentation, 5th International Congress of Therapeutic Drug Monitoring and Clinical Toxicology, Vancouver, Canada, 1997.
272. “Transplantation Monitoring: Where Do We Go From Here?” Invited Plenary Presentation, 5th International Congress of Therapeutic Drug Monitoring and Clinical Toxicology, Vancouver, Canada, 1997.
273. “Current Preclinical and Clinical Development of Immunosuppressive Drugs for Transplantation and Autoimmune Diseases.” Invited Presentation, Zeneca Pharmaceuticals, Wilmington, DE, 1997.

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Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

274. “New Developments in Immunosuppressive Therapy.” Invited Plenary Presentation, The 13th Rotterdam Liver Day, Rotterdam, 1997.
275. “New Immunosuppressive Strategies.” International Congress on Immunosuppression, Orlando, FL, 1997.
276. “New Developments in Allo- and Xenotransplantation.” Invited Plenary Presentation, OECD New York Academy of Sciences, New York, NY, 1998.
277. “Managing Rejection: Clinical Outcomes and Pharmaceutical Approaches.” Invited Presentation, OECD New York Academy of Sciences, New York, NY, 1998.
278. “Humanized Monoclonal Antibody Therapy.” Invited Plenary Presentation, International Society for the Heart and Lung Transplantation 18th Annual Meeting and Scientific Session, Chicago, IL, 1998.
279. “Experimental Models for Drug Testing.” Invited Speaker, Chronic Rejection Satellite Symposium, International Society for the Heart and Lung Transplantation, Chicago, IL, 1998.
280. “Novel Immunosuppressive Drugs.” Invited Plenary Presentation, Royal College of Physicians: Immunotherapeutics, Regent’s Park, London, 1998.
281. “Understanding Modes of Action: Current and Emerging Immunosuppressants.” Invited Presentation, Roche Scientific Roundtable, San Francisco, CA, 1998.

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Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

282. Guest Lecture: "Genetically Engineered Immunosuppressive Monoclonal Antibodies - Principles and Examples." Invited Presentation, Roche Workshop, Congress of the Transplantation Society, Montreal, Canada, 1998.
283. "Will the Next Generation of Immunosuppressants Have a Role in Chronic Rejection?" Invited Presentation, Congress of the Transplantation Society, Montreal, Canada, 1998.
284. "New Immunosuppressive Drugs." Invited Presentation, International Society for Experimental Microsurgery (ISEM), London, Ontario, 1998.
285. "Update on New Immunosuppressive Agents: From Bench to Practice." Invited Presentation, The North ICU Education Committee: Selected Topics in Cardiovascular Care, Stanford, CA, 1998.
286. "Effect of Immunosuppressive Agents on Intimal Proliferation." Invited Presentation, International Society of Heart & Lung Transplantation, First Fall Education Meeting, Washington, DC, 1998.
287. "Chronic Rejection and Immunosuppression." Roche Round Table, Dallas, TX, 1998.
288. "Novel Immunomodulatory Strategies: An Overview." Invited Presentation, American Society of Nephrology Annual Scientific Meeting, Philadelphia, PA, 1998.
289. "Experimental and Clinical Use of New Promising Immunosuppressive Agents in Organ Transplantation." Invited Lecturer, Hospital Grossharden, Munich, Germany, 1998.

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Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

290. "Is There a New Therapeutic Approach to Chronic Graft Rejection/Dysfunction?"
Invited Lecturer, Charite Hospital, Berlin, Germany, 1998.
291. "Summary of Experience, Cynomolgus Monkey Kidney Transplant Studies." Invited
Presentation, Anti B-7 Monoclonal Antibody Preclinical Investigators Meeting, Boston,
MA, 1999.
292. "Presentation of Outlines for Kidney Transplant Study Protocols." Invited
Presentation, Anti B-7 Preclinical Investigators Meeting, Boston, 1999.
293. "The Lung as a Model for Clinical Efficacy - Additional Suggested Lung Studies."
Roche Symposium, Kapalua, HI, 1999.
294. "Immunopharmacologic Control of T-cell Signaling Pathways Involved in the
Allorecognition Response." Invited Speaker, American Society of Clinical Pharmacy
and Therapeutics 100th Annual Meeting, San Antonio, TX, 1999.
295. "Preclinical Pharmacology Models." Invited Presentation, Anti-B7 Monoclonal
Antibodies Meeting, Philadelphia, 1999.
296. "Immunosuppressive Strategies in Heart Transplantation." Invited Presentation,
Investigational Workshop of Tacrolimus in Heart Transplantation, International
Society of Heart and Lung Transplantation, San Francisco, 1999.
297. "Immunosuppression: Today and Tomorrow." Invited Plenary Presentation, 6th
Congress of the Brazilian Society of Organ Transplants, Belo Horizonte, Brazil, 1999.

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Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

298. "Chronic Rejection: Prevention and Interruption." Invited Plenary Presentation, 6th Congress of the Brazilian Society of Organ Transplants, Belo Horizonte, Brazil, 1999.
299. "Novel Immunosuppressive Drugs (Small Molecule)." Invited Speaker and Chair, International Society of Heart and Lung Transplantation 19th Annual Meeting and Scientific Sessions, San Francisco, CA, 1999.
300. "Molecular Effects of Drugs on Immune Cells In vivo: Importance for Drug Discovery, Clinical Trials, and Routine Use." Invited Speaker, International Society of Heart and Lung Transplantation 19th Annual Meeting and Scientific Sessions, San Francisco, CA, 1999.
301. "Role of Animal Models in the Study of Acute and Chronic Lung Allograft Rejection." Invited Presentation, American Lung Association/American Thoracic Association International Conference, San Diego, CA, 1999.
302. "RAD Experience in Primate Lung Transplantation." Invited Presentation, B153 Protocol, Novartis Finalization Meeting, London, 1999.
303. "Mechanisms of Immunosuppression." Invited Plenary Presentation, Symposium for the Retirement of Sir Roy Calne, Cambridge, England, 1999.
304. "Overview of Immunosuppression." Invited Presentation, American Society of Transplantation Symposium, Montreal, Canada, 1999.
305. "Leflunomide." Invited Plenary Presentation, 6th International Congress of Therapeutic Drug Monitoring & Clinical Toxicology, Queensland, Australia, 1999.

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Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

306. “Designer Immunosuppressants for Transplantation: From Bench to Bedside.” Invited Plenary Presentation, 6th Congress of the Asian Society of Transplantation, Suntec City, Singapore, 1999.
307. “MNA’s, A Class of Their Own”, Invited Lecture, International Congress on Experimental and Clinical Immunosuppression, Geneva, 2000.
308. “ New Targets for Immunosuppression”, Invited Plenary Lecture, International Congress on Experimental and Clinical Immunosuppression, Geneva, 2000.
309. “ Mechanisms of Action of Mycophenolic Acid and Monitoring Issues,” Pediatric Nephrology Meeting, Stanford , CA, April 11, 2000.
310. “Immunosuppression: Rapamycin,” Heart-Lung and Lung Transplant Team Retreat, Stanford University Medical Center Transplant Programs, Stanford, CA, 2000.
311. “ Mycophenolate Mofetil and Sirolimus in Models of Chronic Rejection,” Advisory Board Meeting, Roche, New York, NY, 2000.
312. “ OB/OAD and Treatment in a Rat Model,” American Society of Transplantation, Chicago, 2000.
313. “Obliterative Bronchiolitis Workshop,” Invited Lecture, American Society of Transplantation, Chicago, 2000.
314. “The Molecular Mechanisms of Immunosuppressants and Their Importance for Optimal Clinical Outcomes in Transplantation,” Invited Lecture, American Society of Transplantation, Chicago, 2000.

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Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

315. "Chronic Allograft Dysfunction: Impact of the New Immunosuppressive Drugs," Invited Plenary Lecture, American Society of Transplantation, Chicago, 2000. "Newer Immunosuppressives," Invited Plenary Lecture, First Meeting of the International Pediatric Transplant Association, Venice, Italy, 2000.
316. "Leading the Way in Transplantation," Satellite Symposium, XVIII International Congress of the Transplantation Society, Rome, 2000.
317. "Efficacy of Immunosuppressive Agents in Pig-to-Primate Transplantation," Invited Lecture, XVIII International Congress of the Transplantation Society, Rome, 2000.
318. "In Vivo Mechanisms of Action of Immunosuppressants," Invited Keynote Lecture, 9th Annual Meeting of the German Transplant Society, Regensburg, Germany, 2000.
319. "Pharmacokinetics and Safety of Two Single Doses of RAD001 in Stable Lung and Heart/Lung Transplant Recipients with and without Cystic Fibrosis," Annual Meeting of the American College of Clinical Pharmacy, Los Angeles, 2000.
320. "The response to immune and non-immune mediated injury in vessels and airways: Effects and mechanisms of new therapeutic agents." International Symposium on Chronic Rejection in Experimental and Clinical Transplantation: New Strategies and Research and Therapy, Wuerzburg, Germany, 2001.
321. "New small and large molecular weight drugs to suppress acute and chronic rejection and their in vivo mechanisms of action." Grand Rounds, University of Michigan, Ann Arbor, MI, 2001.

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Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

322. "New drugs for transplant rejection and post-angioplasty restenosis and their in vivo mechanisms." Grand Rounds, Baylor University, Houston, TX, 2001.
323. "Approaches to graft survival: Current and new immunosuppressive regimens." Invited Lecture, Geron Corporation, Menlo Park, CA, 2001.
324. "The discovery of a new agent for transplantation: Sirolimus-a novel immunosuppressive agent." 1st international symposium on Sirolimus, Plenary Session. Vienna, Austria, 2001
325. "Cynomolgus monkeys PK/PD and dog transplantation." Transplant consultants meeting. Chicago, Illinois, 2001.
326. "Pharmacodynamic pharmacokinetic models for immunosuppressive drugs". Plenary Lecture Seventh International Congress of Therapeutic Drug Monitoring and Clinical Toxicology. Washington, D.C. 2001.
327. "Present status of transplantation: new immunosuppressive drugs". Plenary Lecture at Transplantation Congresses. Istanbul, Turkey, 2001.
328. "Ischemia injury and chronic rejection: Importance of basic science for new drug discovery development and clinical use. Keynote speaker, the 7th Basic Sciences Symposium of the Transplantation Society. Thun/Bern, Switzerland, 2001.
329. "Drug discovery and development for transplantation: bench to bedside and spin-offs beyond transplantation. Grand Rounds, Stanford University, Stanford, CA. 2001.

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Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

330. "Immunosuppression-2005". Oscar Salvatierra Transplant fellows Symposium. Scottsdale, AZ, 2001.
331. "Impact of TOR inhibitors on Graft Vascular Disease". Satellite Symposium on: New findings on the antiproliferative and cardiovascular risk profiles of TOR inhibitors. Chicago, IL, 2001.
332. "New developments in immunosuppression for transplantation". Plenary Lecture Seventh International Small Bowel Transplant Symposium. Stockholm, Sweden, 2001.
333. "Future Immunosuppressive agents". Invited plenary talk, 2nd International Congress on Immunosuppression, San Diego, CA, 2001.
334. "Immunosuppression". Invited Lecture to 22nd Annual Meeting & Scientific Sessions of the International Society for Heart and Lung Transplantation, Washington, DC, 2002.
335. "Immunosuppression: From Serendipity to Designer Drugs" Plenary Lecture to XIX International Congress of the Transplantation Society, Miami, 2002.
336. Transplantation 2002 "The Transplant Evolution" Dublin, Ireland, October 2002.
337. 20th Eurotransplant Winter Meeting "Immunosuppression: From Serendipity to Designer Drugs" Fügen, Austria, January 2003.
338. 7th Congress of the Catalan Transplantation Society "Immunosuppressive drug discovery" Barcelona, Spain, February 2003.

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Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

339. Annual Scientific Meeting, Andrew Lazarovits Memorial Plenary Lecture "Innovations in Immunosuppressive Drug strategies" Lake Louise, Canada, March 2003.
340. International Society for Heart and Lung Transplantation ISHLT 23rd Annual Meeting and Scientific Session "Advances in Immunosuppression – Potential Targets for the Future" Vienna, Austria, April 2003.
341. 6th International Conference on New Trends in Immunosuppression Plenary Lecture "Search for new and specific immunosuppressive drugs" Salzburg, Austria, February 2004.
342. Certican (everolimus) Global Heart Meeting "Preclinical review of Certican (everolimus) with a focus on its use for prevention of graft vascular disease" Stanford University, California, April 2004.
343. The 5th Annual Novartis Norway Transplantation Workshop, "Search for New and Specific Immunosuppressive Drugs", Oslo, Norway, March 2004.
344. American Transplant Congress "Novel Immunosuppressive Drug Targets for Patient Management in the Future", Boston, Massachusetts, May 2004.
345. American Transplant Congress "The Future of Transplantation" Boston, Massachusetts, May 2004.
346. XX International Congress of the Transplantation Society, Invited Lecture "Pharmacogenetics & Pharmacogenomics: Toward individualized Immunosuppressive therapy", Vienna, Austria, September 2004.

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Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

347. UK Visitors at Novartis, "From Laboratory to Clinic: An Overview of Novartis' Research Efforts in Transplantation", Basel, Switzerland, November 2004.
348. Surgical & Gastroenterological Grand Rounds, "Novel Immunosuppressive Drug Targets for Patient Management in the Future", University Hospital, Zürich, Switzerland, January 2005
349. International Liver Transplantation Society Council and Novartis, "Novel Immunosuppressive Drug Targets for Patient Management in the Future", Basel, February 2005
350. A First Annual Forum on Immunological Pathways in Transplantation, "Toward Immune Cell-Selective Immunosuppression: JAK3 Signaling Pathway", Madrid, Spain, April 2005.
351. 25th Anniversary Meeting and Scientific Sessions, International Society for Heart and Lung Transplantation ISHLT, "Molecular Biology of Proliferation Signal Inhibitors: New Insights", Philadelphia, Pennsylvania, USA, April 2005
352. University of Alberta, Immunosuppressive Drug Discovery in "Big Pharma", Edmonton, Canada, May 2005
353. Immunosuppressive Drug Discovery in "Big Pharma", Denver, Colorado, USA, May 2005
354. SwissTransplant Physicians Visit to Novartis, Basel, "Novartis Dedicated Research Plan", June 2005

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Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

355. Plenary Lecture 20th Ciclosporin Anniversary Symposium, Japan “Discovery of New Immunosuppressants for Transplantation” Tokyo, Japan August 2005
356. Swiss National Research Foundation Program, Invited Lecture “Immunosuppressive Drug Discovery in the Era of More Immune Cell-Selective Therapies” Bern, Switzerland September 2005
357. Congreso de Nacional S.E.N., Plenary Lecture “Immunosuppression alternative to anticalcineuritics” Malaga, Spain October 2005
358. International Symposium One Thousand Organ Transplants in the Friuli-Venezia Giulia Region, Plenary Lecture “New Molecules, New Drugs”, Udine, Italy October 2005
359. Infectious Disease & Transplantation Business Unit of Novartis Strategic Roundtable, Boston, “Transplantation Immunosuppressants: Research and Early Clinical Development Development” April 2006
360. AST Winter Symposium, Invited Lecture “Transplant Immunosuppressive Drug Discovery: From Serendipity to Rational Drug Design”, Cancun, Mexico February 2006
361. Clinical Immunology Unit of Graz University Medical School, Jean Dausset Symposium, “The Jean Dausset Plenary Lecture: Rational Discovery and Design of Safer and More Effective Immunosuppressants” Graz, Austria June 2006

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Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

362. World Transplant Congress, Boston, "Targeted by Design, A Rational Approach to Discovering Novel, Selective Immunosuppressants", July 2006
363. World Transplant Congress, Boston, "Overview of Transplantation at Novartis", Lecture to Infectious Disease, Transplantation & Immunology Business Unit, Boston July 2006
364. Columbia Presbyterian University Medical Center, Transplantation Lecture, "Current Revolution in Immunosuppression for Transplantation" New York August 2006
365. Hahnenmann University Medical Center, Transplantation Seminar, "Current Revolution in Immunosuppression for Transplantation" Philadelphia August 2006
366. University of Miami Medical Center, Dept of Surgery Seminar, "Current Revolution in Immunosuppression for Transplantation" Miami August 2006
367. University of California at Los Angeles Medical Center, Surgical Seminar, "Current Revolution in Immunosuppression for Transplantation" Los Angeles August 2006
368. University of Southern California Medical Center, Cedars Sinai Hospital, Transplantation Seminar, "Current Revolution in Immunosuppression for Transplantation" Los Angeles August 2006
369. Scripps Research Institute, Lecture, "Current Revolution in Immunosuppression for Transplantation", San Diego August 2006

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Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

370. Sharp Medical Clinic, Nephrology Seminar, “Current Revolution in Immunosuppression for Transplantation”, San Diego August 2006
371. University of California at Pacific Medical Center, Transplantation Seminar, “Current Revolution in Immunosuppression for Transplantation”, San Francisco August 2006
372. University of California at San Francisco Medical Center, Transplantation Lecture, “Current Revolution in Immunosuppression for Transplantation” San Francisco August 2006
373. Institute of Clinical & Experimental Medicine, Certican/Myfortic Launch Symposium, “A Rational Approach to Discovering Novel, Selective Immunosuppressants” Prague, Czechoslovakia September 2006
374. University of Oslo Rikspital, Transplantation Lecture “The Current Revolution in the Discovery and Development of Immunosuppressive Drugs for Transplantation” Oslo, Norway September 2006
375. Nordic World Transplant Congress, World Transplant Congress Update Symposium, “Advances in Transplantation Basic Science” Copenhagen, Denmark September 2006
376. University of Copenhagen Odense and Aarhus Medical Center, “The Current Revolution in the Discovery and Development of Immunosuppressive Drugs for Transplantation” Copenhagen, Denmark September 2006
377. University of Malmo and Lund Medical Centers, Seminar, “The Current Revolution in the Discovery and Development of Immunosuppressive Drugs for Transplantation”

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Randall Ellis Morris, M.D., F.R.C.P. Fellow of Royal College of Physicians (Glasgow)

Malmö, Sweden September 2006

378. University of Gothenburg Medical Center, Transplantation Lecture, "The Current Revolution in the Discovery and Development of Immunosuppressive Drugs for Transplantation" Gothenburg, Sweden September 2006
379. Seattle Cancer Alliance (Fred Hutchinson Cancer Center, University of Washington, Children's Hospital), Research Lecture, "Current Revolution in Immunosuppression for Transplantation" Seattle October 2006
380. University of Oregon Health Sciences Center Transplantation Lecture, "Current Revolution in Immunosuppression for Transplantation" Portland October 2006
381. University of Washington Seminar, "Current Revolution in Immunosuppression for Transplantation" Seattle October 2006
382. University of Washington Transplantation Lecture, "Current Revolution in Immunosuppression for Transplantation" Seattle October 2006
383. University of Colorado Health Sciences Center, Transplantation Seminar, "Current Revolution in Immunosuppression for Transplantation" Denver October 2006
384. Osaka Kidney Transplantation Forum, Invited Plenary Lecture "Basic Research & Pipeline Projects at Novartis" Osaka, Japan November 2006
385. Lecture to Mexican Transplant Physicians "Current Revolution in Immunosuppression for Transplantation", Basel, Switzerland November 2006

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386. Clinical Review Symposium, Invited Plenary Lecture "Novel Diagnostics and Therapeutics in Organ Transplantation", Utrecht, Netherlands November 2006
387. Novartis Transplantation Symposium, "Current Revolution in Immunosuppressive Drug Discovery for Transplantation", London, United Kingdom November 2006
388. Guy's Hospital, Lecture, "Current Revolution in Immunosuppressive Drug Discovery for Transplantation", London, United Kingdom November 2006
389. Hammersmith Hospital, Seminar, "Current Revolution in Immunosuppressive Drug Discovery for Transplantation", London United Kingdom November 2006
390. Update in Transplantation Meeting, "Current Revolution in Immunosuppressive Drug Discovery for Transplantation", Dublin, Ireland December 2006
391. Novartis Symposium, "Current Revolution in Immunosuppressive Drug Discovery for Transplantation" Manchester, United Kingdom December 2006
392. University of Cambridge Nuffield Hospital, Transplantation Lecture, "Current Revolution in Immunosuppressive Drug Discovery for Transplantation" Cambridge, United Kingdom December 2006
393. "Perspectives on Clinical Transplantation: Visits with Members of Transplant Centers in the U.S., Scandinavia, Europe and Asia (July to December 2006)" Presentation to Novartis Infectious Diseases, Transplantation & Immunology Business Franchise, Basel, Switzerland, February, 2007.

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394. "Current Revolution in Immunosuppressive Drug Discovery for Transplantation"
Presentation at Symposium for Chicago Transplant Units (Northwestern Memorial Hospital, University of Illinois at Chicago Medical Center, University of Chicago Medical Center, Rush University Medical Center, Loyola University Medical Center), Chicago, Illinois, February, 2007.
395. "Current Revolution in Immunosuppressive Drug Discovery for Transplantation"
Presentation at University of Wisconsin at Madison, Madison, Wisconsin, February, 2007.
396. "Current Revolution in Immunosuppressive Drug Discovery for Transplantation"
Presentation at University of Pennsylvania Medical Center, Philadelphia, Pennsylvania, February, 2007.
397. "Current Status of Transplantation" Presented at Novartis Infectious Diseases, Transplantation and Immunology - U.S., East Hanover, New Jersey, February, 2007.
398. "Current Revolution in Immunosuppressive Drug Discovery for Transplantation."
Invited presentation at the 9th Congress of the Catalan Transplantation Society, Barcelona, Spain, February, 2007.
399. "Current Status of Transplantation Research and Development with a Focus on AEB071" Presented at meeting for Spanish transplant professionals, Barcelona, Spain, February, 2007.
400. "The Current Revolution in Immunosuppressive Drug Discovery for Transplant Immunosuppression" Canadian Society for transplantation annual meeting, Banff,

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Canada, March, 2007.

401. "Tx Landscape 2010 - 2015: Global Perspectives & Pipelines" IDTI BOS Meeting, Zürich, Switzerland, March, 2007
402. "AEB071: Selective Protein Kinase C (PKC) Immunosuppressant for Transplantation" AEB071 Advisory Board, American Transplant Congress, San Francisco, May, 2007
403. "Biochemistry and Immunology of Protein Kinase C" American Transplant Congress, San Francisco, May, 2007
404. "The Current Revolution in Immunosuppressive Drug Discovery for Transplant Immunosuppression" Cardiology Seminar, St. Vincent's Hospital, Sydney
405. "The Current Revolution in Immunosuppressive Drug Discovery for Transplant Immunosuppression" Cardiopulmonary Transplantation Seminar, St. Vincent's Hospital, Sydney, Australia, June 2007
406. "Renal Transplant Summit 'Targeted by Design' A rational approach to Discovering Novel, Selective Immunosuppressants", Noosa, Australia, June 2007
407. "Advances in Transplantation Medicine - Past, Present & Future" 360° Approach: Advances in the Management of Kidney Disease, Berlin, June, 2007
408. "Current Revolution in Immunosuppressants for Transplantation". Departments of Surgery Special Grand Rounds, University of Nebraska, Omaha, September, 2007

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409. Invited presentation at the Joint Congress of the Cell Transplantation Society, "Rational Drug Design of Immunosuppressants for Transplantation: JAK3 and PKC Inhibitors", International Pancreas and Islet Transplantation Association and the Xenotransplantation Association. Minneapolis, September, 2007
410. "Pharmaceuticals and Immunosuppression". Presented to transplant professionals from the St. Paul Hospital, University of Texas Southwestern Medical School, Children's Medical Center, Methodist Hospital, Dallas, Texas, September, 2007
411. "Current Revolution in Immunosuppressants for Transplantation". Presentation at the Baylor University Medical Center at Dallas Regional Transplant Institute, Dallas, Texas, September, 2007
412. Plenary Lecture: "Pharmacogenetics, Pharmacokinetics and Therapeutic Drug Monitoring of Immunosuppressive Drugs", New strategies in Immunosuppressive Drug Development, Nice, September 2007
413. "Current Revolution in Immunosuppression Discovery and Development for Transplantation". Bellvitge Hospital, Renal Transplantation, University of Barcelona, Spain, October, 2007
414. "Biochemistry of Protein Kinase C and Its Inhibition by AEB071". AEB071 Renal Transplantation Investigators' Meeting, European Society of Transplantation, Prague, Czech Republic, October, 2007
415. German Transplantation Society Meeting, "AEB071 is a Novel and Selective Inhibitor of Protein Kinase C that Inhibits Early T-Cell Activation and Suppresses Transplant Rejection", Mainz, Germany, October, 2007

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416. Taiwan Transplantation Society Meeting, “AEB071: A First-In-Class Immunomodulator for prevention of renal allograft rejection” Taipei, Taiwan, November, 2007
417. British Transplantation Society, “A Journey of Discovery: Immunosuppressants for Transplantation. Muck, Mold & Medicines: From Antsepsis to Antirejection”, Glasgow, Scotland, April 2008
418. 15 Year Anniversary Symposium of the Walter Brendel College: Transplantation Yesterday, Today and Tomorrow “The Past, Present and Future Trends in Immunosuppression for Transplantation”. Wildbad-Kreuth, Germany, March, 2008
419. AEB071: Preclinical and Early Development Results, presented at the AEB071 Advisory Board, Toronto, Canada, May, 2008
420. Novartis Transplant Research: Current and Future Directions, presented at the Novartis Canada Novartis Global Thought Leaders Event, Toronto, Canada, May 2008
421. The Current Revolution in Immunosuppressive Drug Discovery for Transplantation, Montefiore Medical Center, New York City, June 2008
422. The Current Revolution in Immunosuppressive Drug Discovery for Transplantation, Mount Sinai Transplantation Institute, New York City, June 2008
423. The Current Revolution in Immunosuppressive Drug Discovery for Transplantation, Massachusetts General Hospital, Boston, June 2008

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424. American Transplant Congress. AEB071 Advisory Board Mtg. "NVP-AEB071 (Sotrastaurin): Selective Inhibitor of Protein Kinase C (PKC), Early T-Cell Activation and Transplant Rejection." Toronto, Canada, June 2008
425. American Transplantation Congress. Canadian Transplantation Research Mtg. "Novartis Transplantation Research -- Current and Future Directions." Toronto, Canada, June 2008
426. Transplantation Seminar. "Current Revolution in Immunosuppressive Drug Discovery for Transplantation." Montefiore Medical Center, New York, New York, June, 2008
427. Transplantation Seminar. "Current Revolution in Immunosuppressive Drug Discovery for Transplantation." Mount Sinai Medical Center, New York, New York, June, 2008
428. Transplantation Research Seminar. "Current Revolution in Immunosuppressive Drug Discovery for Transplantation." Massachusetts General Hospital, Harvard University Medical School, Boston, Massachusetts, June, 2008
429. Fourth Annual Conference on Living Donor Abdominal Transplantation: State of the Art. "Future Directions in Transplant Immunosuppression." Sorrento, Italy, June, 2008
430. International Congress of The Transplantation Society. State-of-the-Art Symposium. "Why So Many Targets but so Few Drugs?" Sydney Australia, August, 2008
431. Transplantation Seminar. "Current Revolution in Immunosuppressive Drug Discovery for Transplantation." University of California at Davis Medical Center,

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Sacramento, California, August, 2008

432. Transplantation Seminar. "Why So Many Targets but so Few Novel and Approved Drugs for Transplantation?" University of California at San Francisco Medical Center, San Francisco, California, August, 2008
433. Dinner Seminar. "Update on AEB071 Clinical Trials and Novartis's Increased Commitment to Transplantation." University of California at Los Angeles Medical Center, University of Southern California Medical Center, St. Vincents Hospital, Los Angeles, California, 2008
434. 40th Anniversary of Human Heart Transplantation at Stanford. "The Future of Immunosuppression." Stanford University School of Medicine, Stanford, California, October, 2008
435. 40th Anniversary of Renal Transplantation at Verona. "New Drugs for Old Problems." Azienda Ospedaliero-Universitaria di Verona, Verona, Italy, November, 2008