

# Stanford

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## Randall Morris

Professor (Research) of Cardiothoracic Surgery, Emeritus

[Resume available Online](#)

### Bio

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#### BIO

Dr. Morris, with his teams and collaborators, discovered, patented, &/or first published on the anti-rejection or anti-restenosis activities of 4 first-in-class natural product, synthetic organic or monoclonal antibody drugs.

All branded and generic drugs within these 4 classes of therapeutics have generated aggregated annual peak sales of over approximately \$10 billion and cumulative sales to date of approximately \$80 billion for on- and off-label uses.

1. Sirolimus: Dr. Morris first published that sirolimus prevents acute transplant (Tx) rejection (independently discovered at the University of Cambridge, UK) & discovered its suppression of chronic Tx rejection; Dr. Morris's lab discovered and patented the use of sirolimus/ mTOR inhibitors for the prevention of restenosis post-arterial angioplasty.

2. Mycophenolate mofetil (MMF, the pro-drug for mycophenolic acid [MPA]): Dr. Morris discovered that MMF prevents and treats acute Tx rejection; MMF and MPA became & remain the most prescribed immunosuppressants for recipients of all types of transplanted organ, cell and bone marrow transplants.

3. Tofacitinib: Dr. Morris's lab, in collaboration with scientists from Pfizer, first published that tofacitinib prevents acute Tx rejection.

4. Efalizumab: Dr. Morris, in collaboration with scientists from Genentech, first published efalizumab prevents acute Tx rejection.

These classes of drugs were subsequently further developed in the clinic by several pharmaceutical companies, with Dr. Morris often as an advisor, and received worldwide regulatory marketing approvals for a total of 7 indications:

1. Suppression of acute renal transplant rejection and/or,

2. Prevention of acute liver transplant rejection and/or,

3. Prevention of acute heart transplant rejection and/or,

4. Prevention of chronic (coronary artery vasculopathy) heart transplant rejection and/or,
5. Prevention of coronary artery restenosis after angioplasty (Dr. Morris is the co-inventor on the foundational patent for mTOR inhibitor drug - eluting stents), or
6. Treatment of rheumatoid arthritis or,
7. Treatment of psoriasis.

At Novartis, Dr. Morris oversaw the preclinical discovery and early clinical development of the first-in-class selective protein kinase C inhibitor immunosuppressant, sotrasaurin (AEB071), which advanced through four Ph 2 trials in renal transplant patients.

## ACADEMIC APPOINTMENTS

- Emeritus Faculty, Acad Council, Cardiothoracic Surgery

## LINKS

- My website: <http://www.randallemorris.com>

## Research & Scholarship

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### CURRENT RESEARCH AND SCHOLARLY INTERESTS

R&D (pre-clinical discovery and clinical trial development) for novel therapeutics for prevention and treatment of immune, inflammatory, ischemic and other causes for injuries to all types of organ and cell allo- and xenografts and for prevention and treatment of acute organ injury/dysfunction/failure, acute graft-vs. -host disease after hematopoietic stem cell transplantation, and prevention and treatment of autoimmune diseases, the relationships between drug pharmacokinetics and pharmacodynamics, the discovery and clinical development of novel therapeutic technologies designed to selectively target small molecule immunosuppressants to specific immune cell subsets and tissues, the use of new technologies for measuring biomarkers and biomarker measures for surrogate endpoints for accelerated regulatory drug marketing approvals and novel clinical trial designs.

## Publications

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### PUBLICATIONS

- **The Importance of Drug Safety and Tolerability in the Development of New Immunosuppressive Therapy for Transplant Recipients.** *American journal of transplantation : official journal of the American Society of Transplantation and the American Society of Transplant Surgeons*  
Stegall, M. D., Somerville, K. T., Everly, M., Mannon, R. B., Gaber, O. A., First, M. R., Agashivala, N., Perez, V., Newell, K. A., Morris, R. E., Sudan, D., Romero, K., Eremenco, et al  
2018
- **Therapeutic Drug Monitoring of Everolimus: A Consensus Report** *THERAPEUTIC DRUG MONITORING*  
Shipkova, M., Hesselink, D. A., Holt, D. W., Billaud, E. M., van Gelder, T., Kunicki, P. K., Brunet, M., Budde, K., Barten, M. J., De Simone, P., Wieland, E., Millan Lopez, O., Masuda, et al  
2016; 38 (2): 143-169
- **Advances in Transplantation: Editorial.** *Clinical transplants*  
Morris, R. E.  
2015; 31: 147-150
- **The xenoantibody response and immunoglobulin gene expression profile of cynomolgus monkeys transplanted with hDAF-transgenic porcine hearts** *XENOTRANSPLANTATION*  
Zahorsky-Reeves, J. L., Kearns-Jonker, M. K., Lam, T. T., Jackson, J. R., Morris, R. E., Starnes, V. A., Cramer, D. V.  
2007; 14 (2): 135-144

- **Immunosuppressive effects of surgery assessed by flow cytometry in nonhuman primates after nephrectomy** *TRANSPLANT INTERNATIONAL*  
Stalder, M., Birsan, T., Hausen, B., Borie, D. C., Morris, R. E.  
2005; 18 (10): 1158-1165
- **The novel calcineurin inhibitor ISA247: a more potent immunosuppressant than cyclosporine in vitro.** *Transplant international*  
Birsan, T., Dambrin, C., Freitag, D. G., Yatscoff, R. W., Morris, R. E.  
2005; 17 (12): 767-771
- **Use of echocardiography to assess function of hDAF-transgenic pig cardiac xenografts** *3rd International Congress on Immunosuppression*  
Chan, M. C., Stalder, M., Lam, T. T., Tye, T., Borie, D. C., Morris, R. E.  
ELSEVIER SCIENCE INC.2005: 1923-25
- **Immunosuppression by the JAK3 inhibitor CP-690,550 delays rejection and significantly prolongs kidney allograft survival in nonhuman primates** *TRANSPLANTATION*  
Borie, D. C., Changelian, P. S., Larson, M. J., Si, M. S., Paniagua, R., Higgins, J. P., Holm, B., Campbell, A., Lau, M., Zhang, S., Flores, M. G., Rousvoal, G., Hawkins, et al  
2005; 79 (7): 791-801
- **Improved assessment of graft function by echocardiography in cynomolgus monkey recipients of hDAF-transgenic pig cardiac xenografts** *JOURNAL OF HEART AND LUNG TRANSPLANTATION*  
Stalder, M., Tye, T., Lam, T. T., Chan, M. C., Berry, G. J., Borie, D. C., Morris, R. E.  
2005; 24 (2): 215-221
- **The effect of soluble complement receptor type 1 on acute humoral xenograft rejection in hDAF-transgenic pig-to-primate life-supporting kidney xenografts** *XENOTRANSPLANTATION*  
Lam, T. T., Hausen, B., Hook, L., Lau, M., Higgins, J., Christians, U., Jacobsen, W., Baluom, M., Duthaler, R., Katopodis, A., Chavez, G., Cozzi, E., Harrison, et al  
2005; 12 (1): 20-29
- **The novel calcineurin inhibitor ISA247: a more potent immunosuppressant than cyclosporine in vitro** *TRANSPLANT INTERNATIONAL*  
Birsan, T., Dambrin, C., Freitag, D. G., Yatscoff, R. W., Morris, R. E.  
2004; 17 (12): 767-771
- **Hyperacute rejection of hDAF-transgenic pig organ xenografts in cynomolgus monkeys: influence of pre-existing anti-pig antibodies and prevention by the alpha GAL glycoconjugate GAS914** *XENOTRANSPLANTATION*  
Lam, T. T., Hausen, B., Boeke-Purkis, K., Paniagua, R., Lau, M., Hook, L., Berry, G., Higgins, J., Duthaler, R. O., Katopodis, A. G., Robbins, R., Reitz, B., Borie, et al  
2004; 11 (6): 517-524
- **Anti-non-Gal porcine endothelial cell antibodies in acute humoral xenograft rejection of hDAF-transgenic porcine hearts in cynomolgus monkeys** *XENOTRANSPLANTATION*  
Lam, T. T., Paniagua, R., Shivaram, G., Schuurman, H. J., Borie, D. C., Morris, R. E.  
2004; 11 (6): 531-535
- **Compared with cyclosporine, ISA(TX)247 significantly prolongs renal-allograft survival in a nonhuman primate model** *TRANSPLANTATION*  
Gregory, C. R., Kyles, A. E., Bernsteen, L., Wagner, G. S., TARANTAL, A. F., Christe, K. L., Brignolo, L., Spinner, A., Griffey, S. M., Paniagua, R. T., Hubble, R. W., Borie, D. C., Morris, et al  
2004; 78 (5): 681-685
- **Anti-pig antibody levels in non-human primates of various origin** *XENOTRANSPLANTATION*  
Lam, T. T., Boeke-Purkis, K., Lau, M., Paniagua, R., Schuurman, H. J., Morris, R. E.  
2004; 11 (4): 332-339
- **In vitro evaluation of the effects of candidate immuno suppressive drugs: flow cytometry and quantitative real-time PCR as two independent and correlated read-outs** *JOURNAL OF IMMUNOLOGICAL METHODS*  
Flores, M. G., Zhang, S., Ha, A., Holm, B., Reitz, B. A., Morris, R. E., Borie, D. C.  
2004; 289 (1-2): 123-135
- **Effects of AGI-1096, a novel antioxidant compound with anti-inflammatory and antiproliferative properties, on rodent allograft arteriosclerosis** *TRANSPLANTATION*  
Murata, S., Sundell, C. L., Lijkwan, M. A., Balsam, L. B., Hammainen, P., Coleman, C., York, C., Luchoomun, J., Suen, K. L., Howard, R., Somers, P. K., Morris, R. E., Robbins, et al

2004; 77 (10): 1494-1500

● **Respiratory epithelial expression of integrin alpha V beta(6) in chronic progressive allograft rejection** *JOURNAL OF HEART AND LUNG TRANSPLANTATION*

Dosanjh, A., Ikonen, T., Morris, R.

2004; 23 (4): 456-460

● **Preliminary in vivo pharmacokinetic and pharmacodynamic evaluation of a novel calcineurin-independent inhibitor of NFAT** *TRANSPLANT INTERNATIONAL*

Birsan, T., Dambrin, C., Marsh, K. C., Jacobsen, W., Djuric, S. W., Mollison, K. W., Christians, U., Carter, G. W., Morris, R. E.

2004; 17 (3): 145-150

● **Sustained suppression of peripheral blood immune functions by treatment with mycophenolate mofetil correlates with reduced severity of cardiac allograft rejection** *JOURNAL OF HEART AND LUNG TRANSPLANTATION*

Klupp, J., van Gelder, T., Dambrin, C., Regieli, J. J., Boeke, K., Billingham, M. E., Morris, R. E.

2004; 23 (3): 334-351

● **Histological and immunological characteristics of, and the effect of immunosuppressive treatment on, xenograft vasculopathy** *XENOTRANSPLANTATION*

Briffa, N. P., Shorthouse, R., Chan, J., Silva, H., Billingham, M., Brazelton, T., Morris, R. E.

2004; 11 (2): 149-159

● **In vivo evaluation of the novel calcineurin inhibitor ISA(Tx)247 in non-human primates** *JOURNAL OF HEART AND LUNG TRANSPLANTATION*

Stalder, M., Birsan, T., Hubble, R. W., Paniagua, R. T., Morris, R. E.

2003; 22 (12): 1343-1352

● **JAK3 inhibition as a new concept for immune suppression.** *Current opinion in investigational drugs*

Borie, D. C., Si, M., Morris, R. E., Reitz, B. A., Changelian, P. S.

2003; 4 (11): 1297-1303

● **Prevention of organ allograft rejection by a specific Janus kinase 3 inhibitor** *SCIENCE*

Changelian, P. S., Flanagan, M. E., Ball, D. J., Kent, C. R., Magnuson, K. S., Martin, W. H., Rizzuti, B. J., Sawyer, P. S., Perry, B. D., Brissette, W. H., McCurdy, S. P., Kudlacz, E. M., Conklyn, et al

2003; 302 (5646): 875-878

● **Weight gain after lung transplantation** *JOURNAL OF HEART AND LUNG TRANSPLANTATION*

Singer, L. G., Brazelton, T. R., Doyle, R. L., Morris, R. E., Theodore, J.

2003; 22 (8): 894-902

● **Treatment by mycophenolate mofetil of advanced graft vascular disease in non-human primate recipients of orthotopic aortic allografts** *AMERICAN JOURNAL OF TRANSPLANTATION*

Klupp, J., Dambrin, C., Hibi, K., Luna, J., Suzuki, T., Hausen, B., Birsan, T., van Gelder, T., Fitzgerald, P. J., Berry, G., Morris, R. E.

2003; 3 (7): 817-829

● **Treatment with humanized monoclonal antibodies against CD80 and CD86 combined with sirolimus prolongs renal allograft survival in cynomolgus monkeys** *TRANSPLANTATION*

Birsan, T., Hausen, B., Higgins, J. P., Hubble, R. W., Klupp, J., Stalder, M., Celiker, A., Friedrich, S., O'Hara, R. M., Morris, R. E.

2003; 75 (12): 2106-2113

● **Sirolimus (rapamycin) monotherapy prevents graft vascular disease in nonhuman primate recipients of orthotopic aortic allografts** *CIRCULATION*

Dambrin, C., Klupp, J., Birsan, T., Luna, J., Suzuki, T., Lam, T., Stahr, P., Hausen, B., Christians, U., Fitzgerald, P., Berry, G., Morris, R.

2003; 107 (18): 2369-2374

● **In vivo pharmacokinetic and pharmacodynamic evaluation of the malononitrilamide FK778 in non-human primates** *TRANSPLANT INTERNATIONAL*

Birsan, T., Dambrin, C., Klupp, J., Stalder, M., Larson, M. J., Fitzsimmons, W. E., Morris, R. E.

2003; 16 (5): 354-360

● **Immunosuppression with a combination of the leflunomide analog, FK778, and microemulsified cyclosporine for renal transplantation in mongrel dogs** *19th International Congress of the Transplantation-Society*

Kyles, A. E., Gregory, C. R., Griffey, S. M., Bernstein, L., Pierce, J., Lilja, H. S., Morris, R. E.

LIPPINCOTT WILLIAMS & WILKINS.2003: 1128-33

- **Effects of the malononitrilamide FK778 on immune functions in vitro in whole blood from non-human primates and healthy human volunteers** *TRANSPLANT IMMUNOLOGY*  
Birsan, T., Dambrin, C., Klupp, J., Stalder, M., Fitzsimmons, W. E., Morris, R. E.  
2003; 11 (2): 163-167
- **Graft thrombosis in hDAF-transgenic pig hearts transplanted into rhesus monkeys** *XENOTRANSPLANTATION*  
Lam, T. T., Borie, D., Masek, M., Berry, G., Larson, M., Morris, R. E.  
2003; 10 (2): 185-186
- **Quantification of immunosuppression by flow cytometry in stable renal transplant recipients** *THERAPEUTIC DRUG MONITORING*  
Stalder, M., Birsan, T., Holm, B., Haririfar, M., Scandling, J., Morris, R. E.  
2003; 25 (1): 22-27
- **Pharmacodynamics of mycophenolate mofetil after heart transplantation: New mechanisms of action and correlations with histologic severity of graft rejection** *AMERICAN JOURNAL OF TRANSPLANTATION*  
Barten, M. J., van Gelder, T., Gummert, J. F., Boeke, K., Shorthouse, R., Billingham, M. E., Morris, R. E.  
2002; 2 (8): 719-732
- **A life-supporting technique of renal allotransplantation in Macaca fascicularis to evaluate novel immunosuppressive drugs in nonhuman primates** *JOURNAL OF SURGICAL RESEARCH*  
Borie, D. C., Hausen, B., Larson, M. J., Klupp, J., Stalder, M., Birsan, T., Morris, R. E.  
2002; 107 (1): 64-74
- **Cyclophosphamide-induced postoperative anemia in cynomolgus monkey recipients of hDAF-transgenic pig organ xenografts** *2nd International Congress on Immunosuppression*  
Lam, T. T., Hausen, B., Squiers, E., Cozzi, E., Morris, R. E.  
ELSEVIER SCIENCE INC.2002: 1451-52
- **An evaluation of combined immunosuppression with MNA 715 and microemulsified cyclosporine on renal allograft rejection in mismatched mongrel dogs** *35th Annual Meeting of the American-College-of-Veterinary-Surgeons*  
Kyles, A. E., Gregory, C. R., Griffey, S. M., Jackson, J., Bernsteen, L., Morris, R. E.  
WILEY-BLACKWELL PUBLISHING, INC.2002: 358-66
- **Novel assays of multiple lymphocyte functions in whole blood measure - New mechanisms of action of mycophenolate mofetil in vivo** *TRANSPLANT IMMUNOLOGY*  
Barten, M. J., van Gelder, T., Gummert, J. F., Shorthouse, R., Morris, R. E.  
2002; 10 (1): 1-14
- **Autoantigen microarrays for multiplex characterization of autoantibody responses** *NATURE MEDICINE*  
Robinson, W. H., DiGennaro, C., Hueber, W., Haab, B. B., KAMACHI, M., Dean, E. J., Fournel, S., Fong, D., Genovese, M. C., de Vegvar, H. E., Skriner, K., Hirschberg, D. L., Morris, et al  
2002; 8 (3): 295-301
- **Pirfenidone: A novel anti-fibrotic agent and progressive chronic allograft rejection** *PULMONARY PHARMACOLOGY & THERAPEUTICS*  
Dosanjh, A., Ikonen, T., Wan, B., Morris, R. E.  
2002; 15 (5): 433-437
- **Evaluation of the clinical and histologic features of renal allograft rejection in cats** *VETERINARY SURGERY*  
Kyles, A. E., Gregory, C. R., Griffey, S. M., Galvez, J., Ramsamooj, R., Morris, R. E.  
2002; 31 (1): 49-56
- **Airway goblet cells and respiratory epithelial injury in an animal model of obliterative airways disease (OAD)** *AMERICAN JOURNAL OF TRANSPLANTATION*  
Dosanjh, A., Wan, B., Ikonen, T., Boeke, K., Morris, R. E.  
2001; 1 (4): 321-324
- **Hamster cardiac xenografts are protected against antibody mediated damage, early after transplantation to Lewis rats** *XENOTRANSPLANTATION*  
Vriens, P. W., Pollard, J. D., Hoyt, G., Morris, R. E., Scheringa, M., Bouwman, E., Robbins, R. C.  
2001; 8 (4): 239-246

- **Coadministration of either cyclosporine or steroids with humanized monoclonal antibodies against CD80 and CD86 successfully prolong allograft survival after life supporting renal transplantation in cynomolgus monkeys** *TRANSPLANTATION*  
Hausen, B., Klupp, J., Christians, U., Higgins, J. P., Baumgartner, R. E., Hook, L. E., Friedrich, S., Celnicker, A., Morris, R. E.  
2001; 72 (6): 1128-1137
- **Viral serine proteinase inhibitor (SERP-1) effectively decreases the incidence of graft vasculopathy in heterotopic heart allografts** *TRANSPLANTATION*  
Hausen, B., Boeke, K., Berry, G. J., Morris, R. E.  
2001; 72 (3): 364-368
- **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*  
Barten, M. J., Gummert, J. F., van Gelder, T., Shorthouse, R., Morris, R. E.  
2001; 253 (1-2): 95-112
- **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*  
Braun-Dullaeus, R. C., Mann, M. J., Seay, U., Zhang, L. N., von der Leyen, H. E., Morris, R. E., Dzau, V. J.  
2001; 21 (7): 1152-1158
- **Vascular and cellular mechanisms of chronic renal allograft dysfunction** *Symposium on Redefining Expectations in Transplantation - Chronic Renal Allograft Dysfunction*  
Morris, R. E.  
LIPPINCOTT WILLIAMS & WILKINS.2001: SS37-SS41
- **Prolonged inhibition of obliterative airway disease in murine tracheal allografts by brief treatment with anti-leukocyte function-associated antigen-1 (CD11a) monoclonal antibody** *16th Annual Meeting of the American-Society-of-Transplant-Physicians*  
Morikawa, M., Brazelton, T. R., Berry, G. J., Morris, R. E.  
LIPPINCOTT WILLIAMS & WILKINS.2001: 1616-21
- **New approach in drug development: Whole blood pharmacodynamic assays reflect biological activities of tacrolimus** *4th International Conference on New Trends in Clinical and Experimental Immunosuppression*  
Klupp, J., Dambrin, C., Regieli, J., van Gelder, T., Shorthouse, R., Morris, R. E.  
ELSEVIER SCIENCE INC.2001: 2172-72
- **ATP-binding cassette transporters and calcineurin inhibitors: Potential clinical implications** *4th International Conference on New Trends in Clinical and Experimental Immunosuppression*  
van Gelder, T., Klupp, J., Sawamoto, T., Christians, U., Morris, R. E.  
ELSEVIER SCIENCE INC.2001: 2420-21
- **Mycophenolate mofetil pharmacodynamics and pharmacokinetics correlate with rejection score in a BN-to-LEW heterotopic heart transplant model** *4th International Conference on New Trends in Clinical and Experimental Immunosuppression*  
Klupp, J., van Gelder, T., Dambrin, C., Regieli, J., Boeke, K., Billingham, M. E., Morris, R. E.  
ELSEVIER SCIENCE INC.2001: 2170-71
- **New mechanisms of action of mycophenolate mofetil in transplant recipients by assessment of its pharmacodynamics** *4th International Conference on New Trends in Clinical and Experimental Immunosuppression*  
Barten, M. J., van Gelder, T., Gummert, J. F., Shorthouse, R., Boeke, K., Billingham, M. E., Morris, R. E.  
ELSEVIER SCIENCE INC.2001: 2254-55
- **Assessment of mechanisms of action of immunosuppressive drugs using novel whole blood assays** *4th International Conference on New Trends in Clinical and Experimental Immunosuppression*  
Barten, M. J., Gummert, J. F., van Gelder, T., Shorthouse, R., Morris, R. E.  
ELSEVIER SCIENCE INC.2001: 2119-20
- **Comparison of the effects of tacrolimus and cyclosporine on the pharmacokinetics of mycophenolic acid** *THERAPEUTIC DRUG MONITORING*  
van Gelder, T., Klupp, J., Barten, M. J., Christians, U., Morris, R. E.  
2001; 23 (2): 119-128
- **Prevention of neointimal proliferation by immunosuppression in synthetic vascular grafts** *EUROPEAN JOURNAL OF CARDIO-THORACIC SURGERY*  
Walpoth, B. H., Pavlicek, M., Celik, B., Nicolaus, B., Schaffner, T., ALTHAUS, U., Hess, O. M., Carrel, T., Morris, R. E.  
2001; 19 (4): 487-492

- **RAD in stable lung and heart/lung transplant recipients: Safety, tolerability, pharmacokinetics, and impact of cystic fibrosis** *JOURNAL OF HEART AND LUNG TRANSPLANTATION*  
Doyle, R. L., Hertz, M. I., Dunitz, J. M., Loyd, J. E., Stecenko, A. A., Wong, R. L., Chappell, K. A., Brazelton, T., Kovarik, J. M., Appeldingmanse, S., Dou, L., Smith, H. T., Tudor, et al  
2001; 20 (3): 330-339
- **Bronchial epithelial cell-derived cytokine IL-10 and lung fibroblast proliferation** *18th World Congress of the Transplantation-Society*  
Dosanjh, A., Morris, R. E., Wan, B.  
ELSEVIER SCIENCE INC.2001: 352-54
- **Comparison of the in vitro metabolism of the macrolide immunosuppressants sirolimus and RAD** *18th World Congress of the Transplantation-Society*  
Jacobsen, W., Serkova, N., Hausen, B., Morris, R. E., Benet, L. Z., Christians, U.  
ELSEVIER SCIENCE INC.2001: 514-15
- **Leflunomide analog, MNA-715, plus cyclosporine reduces renal allograft rejection in mismatched dogs** *18th World Congress of the Transplantation-Society*  
Kyles, A. E., Gregory, C. R., Griffey, S. M., Bernstein, L., Jackson, J., Morris, R. E.  
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- **Co-administration of tacrolimus and mycophenolate mofetil does not increase mycophenolic acid (MPA) exposure, but co-administration of cyclosporine inhibits the enterohepatic recirculation of MPA, thereby decreasing its exposure.** *Journal of heart and lung transplantation*  
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- **In vivo effect of sirolimus on T cells, B cells and monocytes in non-human primates.** *Journal of heart and lung transplantation*  
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2001; 20 (2): 234-?
- **Pharmacodynamics of mycophenolic acid in heart allograft recipients: Correlation of lymphocyte proliferation and activation with pharmacokinetics and graft histology** *TRANSPLANTATION*  
Gummert, J. F., Barten, M. J., van Gelder, T., Billingham, M. E., Morris, R. E.  
2000; 70 (7): 1038-1049
- **Pharmacodynamics of immunosuppressive drugs** *CURRENT OPINION IN IMMUNOLOGY*  
Dambrin, C., Klupp, J., Morris, R. E.  
2000; 12 (5): 557-562
- **Sirolimus (rapamycin) halts and reverses progression of allograft vascular disease in non-human primates** *TRANSPLANTATION*  
Ikonen, T. S., Gummert, J. F., Hayase, M., Honda, Y., Hausen, B., Christians, U., Berry, G. J., Yock, P. G., Morris, R. E.  
2000; 70 (6): 969-975
- **Epithelial re-growth is associated with inhibition of obliterative airway disease in orthotopic tracheal allografts in non-immunosuppressed rats** *TRANSPLANTATION*  
Ikonen, T. S., Brazelton, T. R., Berry, G. J., Shorthouse, R. S., Morris, R. E.  
2000; 70 (6): 857-863
- **Multidimensional assessment of graft vascular disease (GVD) in aortic grafts by serial intravascular ultrasound in rhesus monkeys** *TRANSPLANTATION*  
Ikonen, T. S., Briffa, N., Gummert, J. F., Honda, Y., Hayase, M., Hausen, B., Billingham, M. E., Yock, P. G., Robbins, R. C., Morris, R. E.  
2000; 70 (3): 420-429
- **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 AND EXPERIMENTAL THERAPEUTICS*  
Serkova, N., Hausen, B., Berry, G. J., Jacobsen, W., Benet, L. Z., Morris, R. E., Christians, U.  
2000; 294 (1): 323-332
- **Immunosuppressive therapies for the prevention and treatment of obliterative airway disease in heterotopic rat trachea allografts** *TRANSPLANTATION*  
Adams, B. F., Berry, G. J., Huang, X. F., Shorthouse, R., Brazelton, T., Morris, R. E.  
2000; 69 (11): 2260-2266
- **Effects of humanized monoclonal antibody to rhesus CD11a in rhesus monkey cardiac allograft recipients** *16th Annual Scientific Meeting of the American-Society-of-Transplant-Physicians*  
Poston, R. S., Robbins, R. C., Chan, B., Simms, P., Presta, L., JARDIEU, P., Morris, R. E.

LIPPINCOTT WILLIAMS & WILKINS.2000: 2005-13

- Up-regulation of inducible nitric oxide synthase in fibroblasts parallels the onset and progression of fibrosis in an experimental model of post-transplant obliterative airway disease *JOURNAL OF PATHOLOGY*  
Romanska, H. M., Ikonen, T. S., Bishop, A. E., Morris, R. E., Polak, J. M.  
2000; 191 (1): 71-77
- Successful treatment of acute, ongoing rat lung allograft rejection with the novel immunosuppressant SDZ-RAD *ANNALS OF THORACIC SURGERY*  
Hausen, B., Boeke, K., Berry, G. J., Christians, U., Schuler, W., Morris, R. E.  
2000; 69 (3): 904-909
- The role of respiratory epithelium in a rat model of obliterative airway disease *TRANSPLANTATION*  
Adams, B. F., Brazelton, T., Berry, G. J., Morris, R. E.  
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