




Terrence Blaschke

Professor of Medicine and of Molecular Pharmacology, Emeritus
Medicine - Clinical Pharmacology

 NIH Biosketch available Online

 Curriculum Vitae available Online

Bio

ACADEMIC APPOINTMENTS

- Emeritus Faculty, Acad Council, Medicine - Clinical Pharmacology

ADMINISTRATIVE APPOINTMENTS

- Faculty Fellow, Stanford Center for Innovation in Global Health, (2015- present)
- Assistant Dean for Medical Student Advising, Stanford University School of Medicine, (2006-2012)
- Associate Dean for Medical Student Advising, Stanford University School of Medicine, (2002-2006)

HONORS AND AWARDS

- Henry J. Kaiser Award for Outstanding Contributions to Medical Education, Stanford University School of Medicine (1999)
- Rawls-Palmer Progress in Medicine Lecture and Award, American Society for Clinical Pharmacology and Therapeutics (2002)
- Honorary Fellowship, American College of Clinical Pharmacology (2004)
- Henry W. Elliott Distinguished Service Award, American Society for Clinical Pharmacology and Therapeutics (ASCPT) (2006)
- Oscar B. Hunter Award, American Society for Clinical Pharmacology and Therapeutics (ASCPT) (2007)

PROFESSIONAL EDUCATION

- B.S., University of Denver , Honors Program, Mathematics (1964)
- M.D., Columbia University, P&S , Medicine (1968)

COMMUNITY AND INTERNATIONAL WORK

- Consultant, Worldwide
- AMPATH Program, Eldoret, Kenya

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

My ongoing Stanford research activities involve studies on the clinical pharmacology of drugs used in HIV-infected patients.

A focus of my laboratory's efforts in investigating drugs used in HIV-infected patients is to optimize the individual benefit/risk of pharmacotherapy of HIV or opportunistic infections by discovering and quantifying the pharmacokinetics and pharmacodynamics (PK/PD) of drugs used in such therapy; i.e., the distribution of individual-specific dose-concentration-effect relationships in the population. My laboratory has a special interest in understanding the relationships between antiviral drug exposure and virologic and toxicological responses. In the past this has led to studies examining drug-taking behavior in these patients, since exposure is a function of both individual variability in pharmacokinetics and individual patterns of drug-taking behavior.

At the present time, my interests in HIV are in the access and quality of antiretroviral drugs for patients from less developed countries. The use of substandard drugs carries a high risk of promoting drug resistant variants of HIV, which could have widespread consequences over the long term. Another interest is drug-drug interactions between antiretroviral drugs and drugs used to treat opportunistic infections, in particular drugs used to treat tuberculosis.

Teaching

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Chemical and Systems Biology (Phd Program)

Publications

PUBLICATIONS

- **A systematic evaluation of effect of adherence patterns on the sample size and power of a clinical study.** *CPT: pharmacometrics & systems pharmacology*
Mallayasamy, S., Chaturvedula, A., Blaschke, T., Fossler, M. J.
2018
- **Introduction to the Theme "New Approaches for Studying Drug and Toxicant Action: Applications to Drug Discovery and Development"** *ANNUAL REVIEW OF PHARMACOLOGY AND TOXICOLOGY, VOL 58*
Insel, P. A., Amara, S. G., Blaschke, T. F., Meyer, U. A., Insel, P. A.
2018; 58: 33–36
- **Improving antiretroviral therapy adherence in resource-limited settings at scale: a discussion of interventions and recommendations** *JOURNAL OF THE INTERNATIONAL AIDS SOCIETY*
Haberer, J. E., Sabin, L., Amico, K. R., Orrell, C., Galarraga, O., Tsai, A. C., Vreeman, R. C., Wilson, I., Sam-Agudu, N. A., Blaschke, T. F., Vrijens, B., Mellins, C. A., Remien, et al
2017; 20
- **Poor medication adherence in clinical trials: consequences and solutions.** *Nature reviews. Drug discovery*
Breckenridge, A., Aronson, J. K., Blaschke, T. F., Hartman, D., Peck, C. C., Vrijens, B.
2017; 16 (3): 149-150
- **Improving antiretroviral therapy adherence in resource-limited settings at scale: a discussion of interventions and recommendations.** *Journal of the International AIDS Society*
Haberer, J. E., Sabin, L., Amico, K. R., Orrell, C., Galarraga, O., Tsai, A. C., Vreeman, R. C., Wilson, I., Sam-Agudu, N. A., Blaschke, T. F., Vrijens, B., Mellins, C. A., Remien, et al
2017; 20 (1): 21371
- **Adherence to Medications: Insights Arising from Studies on the Unreliable Link Between Prescribed and Actual Drug Dosing Histories** *ANNUAL REVIEW OF PHARMACOLOGY AND TOXICOLOGY, VOL 52*
Blaschke, T. F., Osterberg, L., Vrijens, B., Urquhart, J.
2012; 52: 275-?
- **Global Challenges for Clinical Pharmacology in the Developing World** *CLINICAL PHARMACOLOGY & THERAPEUTICS*
Blaschke, T. F.
2009; 85 (6): 579-581
- **Adherence to medication.** *New England journal of medicine*
Osterberg, L., Blaschke, T.
2005; 353 (5): 487-497
- **Drug therapy - Adherence to medication** *NEW ENGLAND JOURNAL OF MEDICINE*
Osterberg, L., Blaschke, T.
2005; 353 (5): 487-497
- **The disposition of saquinavir in normal and P-glycoprotein deficient mice, rats, and in cultured cells** *DRUG METABOLISM AND DISPOSITION*
Washington, C. B., Wiltshire, H. R., Man, M., Moy, T., Harris, S. R., Worth, E., Weigl, P., Liang, Z. M., Hall, D., Marriott, L., Blaschke, T. F.
2000; 28 (9): 1058-1062

- **Nicotine impairs endothelium-dependent dilatation in human veins in vivo** *CLINICAL PHARMACOLOGY & THERAPEUTICS*
Chalon, S., Moreno, H., Benowitz, N. L., Hoffman, B. B., Blaschke, T. F.
2000; 67 (4): 391-397
- **A Markov mixed effect regression model for drug compliance** *STATISTICS IN MEDICINE*
GIRARD, P., Blaschke, T. F., Kastrissios, H., Sheiner, L. B.
1998; 17 (20): 2313-2333
- **Patient compliance and drug failure in protease inhibitor monotherapy** *JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION*
Vanhove, G. F., Schapiro, J. M., Winters, M. A., Merigan, T. C., Blaschke, T. F.
1996; 276 (24): 1955-1956
- **Introduction to the Theme "New Therapeutic Targets".** *Annual review of pharmacology and toxicology*
Insel, P. A., Amara, S. G., Blaschke, T. F., Meyer, U. A.
2019; 59: 15–20
- **Introduction to the Theme "New Methods and Novel Therapeutic Approaches in Pharmacology and Toxicology"** *ANNUAL REVIEW OF PHARMACOLOGY AND TOXICOLOGY, VOL 57*
Insel, P. A., Amara, S. G., Blaschke, T. F., Meyer, U. A.
2017; 57: 13-17
- **Usability of a Medication Event Reminder Monitor System (MERM) by Providers and Patients to Improve Adherence in the Management of Tuberculosis.** *International journal of environmental research and public health*
Liu, X., Blaschke, T., Thomas, B., De Geest, S., Jiang, S., Gao, Y., Li, X., Buono, E. W., Buchanan, S., Zhang, Z., Huan, S.
2017; 14 (10)
- **Introduction to the Theme "New Methods and Novel Therapeutic Approaches in Pharmacology and Toxicology".** *Annual review of pharmacology and toxicology*
Insel, P. A., Amara, S. G., Blaschke, T. F., Meyer, U. A.
2016: -?
- **Introduction to the Theme "Cancer Pharmacology"** *ANNUAL REVIEW OF PHARMACOLOGY AND TOXICOLOGY, VOL 56*
Insel, P. A., Amara, S. G., Blaschke, T. F., Meyer, U. A., Insel, P. A.
2016; 56: 19–22
- **Introduction to the Theme "Precision Medicine and Prediction in Pharmacology"** *ANNUAL REVIEW OF PHARMACOLOGY AND TOXICOLOGY, VOL 55*
Insel, P. A., Amara, S. G., Blaschke, T. F., Insel, P. A.
2015; 55: 11–14
- **Impact of Adherence and Anthropometric Characteristics on Nevirapine Pharmacokinetics and Exposure Among HIV-Infected Kenyan Children** *JAIDS-JOURNAL OF ACQUIRED IMMUNE DEFICIENCY SYNDROMES*
Vreeman, R. C., Nyandiko, W. M., Liechty, E. A., Busakhala, N., Bartelink, I. H., Savic, R. M., Scanlon, M. L., Ayaya, S. O., Blaschke, T. F.
2014; 67 (3): 277-286
- **Integrative Continuum: Accelerating Therapeutic Advances in Rare Autoimmune Diseases** *ANNUAL REVIEW OF PHARMACOLOGY AND TOXICOLOGY, VOL 52*
Van Herle, K., Behne, J. M., Van Herle, A., Blaschke, T. F., Smith, T. J., Yeaman, M. R.
2012; 52: 523-547
- **Understanding Forgiveness: Minding and Mining the Gaps Between Pharmacokinetics and Therapeutics** *CLINICAL PHARMACOLOGY & THERAPEUTICS*
Osterberg, L. G., Urquhart, J., Blaschke, T. F.
2010; 88 (4): 457-459
- **Variable adherence to prescribed dosing regimens for protease inhibitors: scope and outcomes.** *Current opinion in HIV and AIDS*
Blaschke, T. F.
2008; 3 (6): 603-607
- **Variable adherence to prescribed dosing regimens for protease inhibitors: scope and outcomes** *CURRENT OPINION IN HIV AND AIDS*
Blaschke, T. F.

2008; 3 (6): 603-607

- **Increased vascular alpha1-adrenergic sensitivity in patients with renal failure: receiving recombinant erythropoietin.** *American journal of therapeutics*
Abiose, A. K., Aronow, W. S., Moreno, H., Nair, C. K., Blaschke, T. F., Hoffman, B. B.
2007; 14 (5): 427-434
- **Improving data reliability using a non-compliance detection method versus using pharmacokinetic criteria** *JOURNAL OF PHARMACOKINETICS AND PHARMACODYNAMICS*
Kshirsagar, S. A., Blaschke, T. F., Sheiner, L. B., Krygowski, M., Acosta, E. P., Verotta, D.
2007; 34 (1): 35-55
- **Characterization of nelfinavir binding to plasma proteins and the lack of drug displacement interactions** *HIV MEDICINE*
Motoya, T., Thevanayagam, L. N., Blaschke, T. F., Au, S., Stone, J. A., Jayewardene, A. L., Chi, J., Aweeka, F. T.
2006; 7 (2): 122-128
- **Adherence to medication - Reply** *NEW ENGLAND JOURNAL OF MEDICINE*
Osterberg, L., Blaschke, T.
2005; 353 (18): 1973-1974
- **Sex differences in pharmacokinetics and pharmacodynamics** *ANNUAL REVIEW OF PHARMACOLOGY AND TOXICOLOGY*
Gandhi, M., Aweeka, F., Greenblatt, R. M., Blaschke, T. F.
2004; 44: 499-523
- **Protein binding in antiretroviral therapies** *AIDS RESEARCH AND HUMAN RETROVIRUSES*
Boffito, M., Back, D. J., Blaschke, T. F., Rowland, M., Bertz, R. J., Gerber, J. G., Miller, V.
2003; 19 (9): 825-835
- **Effect of simultaneous versus staggered dosing on pharmacokinetic interactions of protease inhibitors** *CLINICAL PHARMACOLOGY & THERAPEUTICS*
Washington, C. B., Flexner, C., Sheiner, L. B., Rosenkranz, S. L., Segal, Y., Aberg, J. A., Blaschke, T. F.
2003; 73 (5): 406-416
- **Model-based analysis of the pharmacokinetic interactions between ritonavir, nelfinavir, and saquinavir after simultaneous and staggered oral administration** *DRUG METABOLISM AND DISPOSITION*
Lu, J. F., Blaschke, T. F., Flexner, C., Rosenkranz, S. L., Sheiner, L. B.
2002; 30 (12): 1455-1461
- **Pharmacokinetic interactions between protease inhibitors and statins in HIV seronegative volunteers: ACTG Study A5047** *AIDS*
Fichtenbaum, C. J., Gerber, J. G., Rosenkranz, S. L., Segal, Y., Aberg, J. A., Blaschke, T., Alston, B., Fang, F., Kosel, B., Aweeka, F.
2002; 16 (4): 569-577
- **Determination of nelfinavir free drug concentrations in plasma by equilibrium dialysis and liquid chromatography tandem mass spectrometry: important factors for method optimization** *EUROPEAN JOURNAL OF PHARMACEUTICAL SCIENCES*
Herforth, C., Stone, J. A., Jayewardene, A. L., Blaschke, T. F., Fang, F., Motoya, T., Aweeka, F. T.
2002; 15 (2): 185-195
- **Model-based analysis of the pharmacokinetic interactions between dual HIV protease inhibitions after simultaneous or staggered oral administration.**
Lu, J., Blaschke, T., Flexner, C., Rosenkranz, S., Sheiner, L.
NATURE PUBLISHING GROUP.2002: P15-P15
- **Optimizing the science of drug development: Opportunities for better candidate selection and accelerated evaluation in humans** *JOURNAL OF CLINICAL PHARMACOLOGY*
Lesko, L. J., Rowland, M., Peck, C. C., Blaschke, T. F.
2000; 40 (8): 803-814
- **Asymmetric dimethylarginine increases mononuclear cell adhesiveness in hypercholesterolemic humans** *ARTERIOSCLEROSIS THROMBOSIS AND VASCULAR BIOLOGY*
Chan, J. R., Boger, R. H., Bode-Boger, S. M., Tangphao, O., Tsao, P. S., Blaschke, T. F., Cooke, J. P.
2000; 20 (4): 1040-1046
- **Interactions of HIV protease inhibitors with a human organic cation transporter in a mammalian expression system** *DRUG METABOLISM AND DISPOSITION*

- Zhang, L., Gorset, W., Washington, C. B., Blaschke, T. F., Kroetz, D. L., Giacomini, K. M.
2000; 28 (3): 329-334
- **Efavirenz decreases saquinavir protein binding.**
Fang, F., Blaschke, T. F.
NATURE PUBLISHING GROUP.2000: 156–56
 - **Vascular reactivity in obstructive sleep apnea syndrome** *AMERICAN JOURNAL OF RESPIRATORY AND CRITICAL CARE MEDICINE*
Duchna, H. W., Guilleminault, C., Stoohs, R. A., Faul, J. L., Moreno, H., Hoffman, B. B., Blaschke, T. F.
2000; 161 (1): 187-191
 - **Heparin-induced vasodilation in human hand veins** *CLINICAL PHARMACOLOGY & THERAPEUTICS*
Tangphao, O., Chalon, S., Moreno, H. J., Abiose, A. K., Blaschke, T. F., Hoffman, B. B.
1999; 66 (3): 232-238
 - **Angiotensin-converting enzyme inhibition improves venous endothelial dysfunction in chronic smokers** *CLINICAL PHARMACOLOGY & THERAPEUTICS*
Chalon, S., Moreno, H., Hoffman, B. B., Blaschke, T. F.
1999; 65 (3): 295-303
 - **Pharmacokinetics of intravenous and oral L-arginine in normal volunteers** *BRITISH JOURNAL OF CLINICAL PHARMACOLOGY*
Tangphao, O., Grossmann, M., Chalon, S., Hoffman, B. B., Blaschke, T. F.
1999; 47 (3): 261-266
 - **L-arginine and nitric oxide-related compounds in plasma: comparison of normal and arginine-free diets in a 24-h crossover study** *VASCULAR MEDICINE*
Tangphao, O., Chalon, S., Coulston, A. M., Moreno, H., Chan, J. R., Cooke, J. P., Hoffman, B. B., Blaschke, T. F.
1999; 4 (1): 27-32
 - **Pharmacokinetics of L-arginine during chronic administration to patients with hypercholesterolaemia** *CLINICAL SCIENCE*
Tangphao, O., Chalon, S., Moreno, H., Hoffman, B. B., Blaschke, T. F.
1999; 96 (2): 199-207
 - **Role of nitric oxide in isoprenaline and sodium nitroprusside-induced relaxation in human hand veins** *BRITISH JOURNAL OF CLINICAL PHARMACOLOGY*
Chalon, S., Tejura, B., Moreno, H., Urae, A., Blaschke, T. F., Hoffman, B. B.
1999; 47 (1): 91-98
 - **Inhibition of angiotensin-converting enzyme in human hand veins** *CLINICAL PHARMACOLOGY & THERAPEUTICS*
Chalon, S., Bedarida, G. V., Moreno, H., Tejura, B., Urae, A., Hoffmann, B. B., Blaschke, T. F.
1999; 65 (1): 58-65
 - **The extent of non-adherence in a large AIDS clinical trial using plasma dideoxynucleoside concentrations as a marker** *95th Annual Meeting of the American-Society-of-Clinical-Pharmacology*
Kastrissios, H., Suarez, J. R., Hammer, S., KATZENSTEIN, D., Blaschke, T. F.
LIPPINCOTT WILLIAMS & WILKINS.1998: 2305–11
 - **Characterizing patterns of drug-taking behavior with a multiple drug regimen in an AIDS clinical trial** *96th Annual Meeting of the American-Society-of-Clinical-Pharmacology*
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 - **Asymmetric dimethylarginine (ADMA): A novel risk factor for endothelial dysfunction - Its role in hypercholesterolemia** *CIRCULATION*
Boger, R. H., Bode-Boger, S. M., Szuba, A., Tsao, P. S., Chan, J. R., Tangphao, O., Blaschke, T. F., Cooke, J. P.
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 - **Interaction of anti-HIV protease inhibitors with the multidrug transporter P-glycoprotein (P-gp) in human cultured cells** *JOURNAL OF ACQUIRED IMMUNE DEFICIENCY SYNDROMES*
Washington, C. B., Duran, G. E., Man, M. C., Sikic, B. I., Blaschke, T. F.
1998; 19 (3): 203-209
 - **Endothelial dysfunction in human hand veins is rapidly reversible after smoking cessation** *AMERICAN JOURNAL OF PHYSIOLOGY-HEART AND CIRCULATORY PHYSIOLOGY*

- Moreno, H., Chalon, S., Urae, A., Tangphao, O., Abiose, A. K., Hoffman, B. B., Blaschke, T. F.
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- **Diurnal variation of plasma L-arginine concentrations and the effect of dietary L-arginine intake.**
Tangphao, O., Coulston, A. M., Moreno, H., Chalon, S., Chan, J. R., Cooke, J. P., Blaschke, T. F., Hoffman, B. B.
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 - **Pharmacokinetics of saquinavir, zidovudine, and zalcitabine in combination therapy** *ANTIMICROBIAL AGENTS AND CHEMOTHERAPY*
Vanhove, G. F., Kastrissios, H., Gries, J. M., Verotta, D., Park, K. S., Collier, A. C., Squires, K., Sheiner, L. B., Blaschke, T. F.
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 - **A semiparametric method for describing noisy population pharmacokinetic data** *JOURNAL OF PHARMACOKINETICS AND BIOPHARMACEUTICS*
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 - **Chloroquine-induced venodilation in human hand veins** *CLINICAL PHARMACOLOGY & THERAPEUTICS*
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Grossman, M., Abiose, A., Tangphao, O., Blaschke, T. F., Hoffman, B. B.
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 - **A trial comparing nucleoside monotherapy with combination therapy in HIV-infected adults with CD4 cell counts from 200 to 500 per cubic millimeter** *NEW ENGLAND JOURNAL OF MEDICINE*
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Chao, N. J., Kastrissios, H., Long, G. D., Negrin, R. S., Horning, S. J., Wong, R. M., Blaschke, T. F., Blume, K. G.
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Bedarida, G. V., Kim, D., Blaschke, T. F., Hoffman, B. B.
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