

Professor Michael H. Gelb
 University of Washington
 Department of Chemistry
 Seattle, WA 98195-1700

INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
University of California, Davis	B.S.	1979	Chemistry/Biochemistry
Yale University	Ph.D.	1982	Chemistry/Biochemistry
Yale University	PostDoc	12/82-5/83	Chemistry/Biochemistry
Brandeis University	PostDoc	6/83-8-85	Chemistry/Biochemistry

Positions and Honors.

Professional Experience:

University of Washington Assistant Professor, Chemistry	9/85-8/91
University of Washington Adjunct Assistant Professor, Biochemistry	9/86-8/91
University of Washington Associate Professor, Chemistry	9/91-8/95
University of Washington Adjunct Associate Professor, Biochemistry	9/91-8/95
University of Washington Professor, Chemistry	9/95-present
University of Washington Adjunct Professor, Biochemistry	9/95-present

Honors & Awards:

American Cancer Society Postdoctoral Fellowship, lab of R.H. Abeles, Brandeis University (1983-1985)
 Merck New Faculty Career Development Award (1986)
 NIH Research Career Development Award (1990-1995)
 Alfred P. Sloan Research Fellow (1991-1993)
 ICI Pharmaceuticals Group 1991 Award for Excellence in Chemistry
 Pfizer Award in Enzyme Chemistry [Division of Biol. Chem., American Chemical Society (1992)
 Editorial Advisory Board, "Archives of Biochemistry" (1992-2002)
 Co-Chair, Gordon Research Conference on Enzymes, Coenzymes, and Metabolic Pathways (1997)
 NIH Physical Biochemistry Study Section Member (2001-2005)
 Editorial Advisory Board, "Current Opinions in Structural Biology" (1998)
 NIH Bioorganic and Natural Product Study Section, Ad Hoc Member (October, 2000)
 Co-Organizer, FASEB Summer Conference on Phospholipases, Snowmass, CO (July, 2000)
 Organizer, Keystone Symposium on Drugs Against Parasitic Diseases, Keystone, CO (April, 2002)
 Editorial Advisory Board, "Journal of Biological Chemistry" (2002 -)
 Ad Hoc member on several NIH Study Sections
 Winner of the Medicines for Malaria Venture Project of the Year (2003)
 NIH Merit Award (2007-)
 Fellow of the American Association for the Advancement of Science (2009-)

Peer-reviewed publications.

- Rouault, M., Rash, L. D., Escoubas, P., Boilard, E., Bollinger, J., Lomonte, B., Maurin, T., Guillaume, C., Canaan, S., Deregnaucourt, C., Schrevel, J., Doglio, A., Gutierrez, J. M., Lazdunski, M., Gelb, M. H., and G. Lambeau. (2006) "Neurotoxicity and Other Pharmacological Activities of the Snake Venom Phospholipase A2 OS2: The N-Terminal Region Is More Important Than Enzymatic Activity," *Biochemistry*, **45**: 5800-5816.
- Smart, B.P., Oslund, R.C. and Walsh, L.A. (2006) "The First Potent Inhibitor of Mammalian Group X Secreted Phospholipase A₂: Elucidation of Sites for Enhanced Binding," *J. Med. Chem.*, **49**: 2858-2860.
- Gelb, M.H., Brunsveld, L., Hrycyna, C.A., Michaelis, S., Tamanoi, F., Van Voorhis, W.C. and Waldmann, H. (2006) "Therapeutic intervention based on protein prenylation and associated modifications," *Nature Chem. Biol.*, **10**: 518-528
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- Mehlin, C., Boni, E., Buckner, F.S., Engel, L., Feist, T., Gelb, M.H., Haji, L., Kim, D., Liu, C., Mueller, N., Myler, P.J., Reddy, J.T., Sampson, J.N., Subramanian, E., Van Voorhis, W.C., Worthey, E., Zucker, F., Hol, W.G. (2006) "Heterologous expression of proteins from *Plasmodium falciparum*: results from 1000 genes," *Mol. Biochem. Parasitol.* **148**: 144-60.
- Eastman, R.T., Buckner, F.S., Yokoyana, K., Gelb, M.H. and Van Voorhis, W.C. (2006) "Thematic review series: lipid posttranslational modifications. Fighting parasitic disease by blocking protein farnesylation," *J. Lipid Res.*, **47**: 233-40.
- Bendale, P., Olepu, S., Suryadevara, P.K., Bulbule, V., Rivas, K., Nallan, L., Yokoyama, K., Ankala, S., Pendyala, P.R., Floyd, D., Lombardo, L.J., Williams, D.K., Buckner, F.S., Chakrabarti, D., Verlinde, C., Van Voorhis, W.C. and Gelb, M.H. (2007) "Second Generation Tetrahydroquinoline-Based Protein Farnesyltransferase Inhibitors as Anti-Malarials," *J. Med. Chem.*, **50**, 4585-605.
- Bendale, P., Nallan, L., Rivas, K., Horney, C.P., Barrett, L.K., Ankala, S., Hucke, O., Verlinde, C.L.M.J., Chakrabarti, D., Strickland, C., Yokoyama, K., Buckner, F.S., Hamilton, A.D., Williams, D.K., Lombardo, L.J., Floyd, D., Gelb, M.H. and Van Voorhis, W.C. (2007) "Tetrahydroquinoline *Plasmodium falciparum* protein farnesyltransferase inhibitors: Efficacy, pharmacokinetics, and metabolism," *Antimicrob. Agents Chemother.*, **51**, 3569-71.
- Yokoyama, K, Gillespie, JR, Van Voorhis, WC, Buckner FS, Gelb, MH, (2008) "Protein geranylgeranyltransferase-I of *Trypanosoma cruzi*," *Mol Biochem Parasitol*, **157**:32-43. PMID: 17996962
- Olepu, S, Suryadevara, PK, Rivas, K, Yokoyama, K, Verlinde, CL, Chakrabarti, D, Van Voorhis, WC, Gelb, MH, (2008) "2-Oxo-tetrahydro-1,8-naphthyridines as selective inhibitors of malarial protein farnesyltransferase and as anti-malarials," *Bioorg Med Chem Lett.*, **18**:494-497. PMID: 18077162
- Bulbule, VJ, Rivas, K, Verlinde, CL, Van Voorhis, WC, Gelb, MH, (2008) "2-oxotetrahydroquinoline-based antimalarials with high potency and metabolic stability," *J. Med. Chem.*, **51**:384-387. PMID: 18198825
- Ojo, Kayode K., Gillespie, J. Robert, Reichers, Aaron J., Napuli, Alberto J., Verlinde, Christophe L. M. J., Buckner, Frederick S., Gelb, Michael H., Domostoj, Mathias M., Wells, Susan J., Scheer, Alexander, Wells, Timothy N. C., and Van Voorhis, Wesley C., (2008) "Glycogen synthase kinase 3 is a potential drug target for African trypanosomiasis therapy," *Antimicrobial Agents and Chemotherapy*, **52**:3710-3717. PMID: 18644955
- Wilensky, Robert L, Shi, Yi, Mohler, Emile R. III, Hammamdzic, Damir, Burgert, Mark E., Li, Jun, Postle, Anthony, Fenning, Robert S., Bollinger, James G., Hoffman, Bryan E., Pelchovitz,

- Daniel J., Yang, Jisheng, Mirabile, Rosanna C., Webb, Christine L., Zhang, LeFeng, Zhang, Ping, Gelb, Michael H., Walker, Max C., Zalewski, Andrew, and Mcaphee, Colin H., (2008) "Inhibition of lipoprotein-associated phospholipase A₂ reduces complex coronary atherosclerotic plaque development," *Nature Medicine*, on-line in 9/2008. PMID: 18806801
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- Fletcher S, Cummings CG, Rivas K, Katt WP, Hornéy C, Buckner FS, Chakrabarti D, Sebti SM, Gelb MH, Van Voorhis WC, Hamilton AD., (2008) "Potent, Plasmodium-selective farnesyltransferase inhibitors that arrest the growth of malaria parasites: structure-activity relationships of ethylenediamine-analogue scaffolds and homology model validation," *J Med Chem.* 51(17):5176-97 PMID: 18686940
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- Blanchard, S., Turecek, F., Gelb. M.H. "Short synthetic sequence for 2-sulfation of alpha-L-iduronate glycosides.," *Carbohydr. Res.* 2009, [Epub ahead of print], submitted to PubMed Central
- Kraus, J.M., Verlinde, C.L. Karimi, M., Lepesheva, G.I., Gelb, M.H., Buckner, F.S. "Rational modification of a candidate cancer drug for use against Chagas disease," 2009 *J. Med. Chem.* 52: 1639-1647, submitted to PubMed Central
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