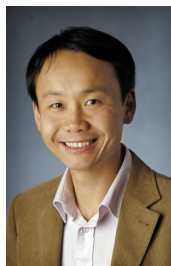


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EDUCATION

Yale University (09/1999 – 08/2004)

Ph. D. in Organic/Bioorganic Chemistry

Thesis Advisor: Professor Andrew D. Hamilton, Ph.D., FRS

Peking University (09/1995 – 07/1999)

B.S. in Applied Chemistry

EMPLOYMENT

University of Colorado at Boulder (08/2007 – Present)

Assistant Professor of Chemistry and Biochemistry

University of Pennsylvania School of Medicine (09/2004 – 07/2007)

Post-doctoral Associate

Mentor: Professor William F. DeGrado, Ph.D.

ACADEMIC RECOGNITIONS

- Gertrude B. Elion Award, American Association for Cancer Research (2009)
- Cutting-Edge Basic Research Award, NIDA (2009)
- New Inventor of the Year, University of Colorado (2009)
- Early Career Award in Chemistry of Drug Abuse and Addiction, NIDA (2009)
- Dean's Fund for Excellence, CU College of Arts and Sciences (2009)
- Collaborative Innovation Award, Howard Hughes Medical Institute (2008)
- Kimmel Scholars Award, Sidney Kimmel Foundation (2008)
- Junior Faculty Development Award, University of Colorado (2008)
- Pediatric Cancer Research Grant Award, Association for Research of Childhood Cancer (2008)
- Wood-Whelan Fellowship, International Union of Biochemistry & Mol. Biology (2007)
- Young Investigator Scholarship, Alzheimer's Drug Discovery Foundation (2007)
- Most Cited Paper 2004-2007 Award, Elsevier (2007)
- Scholarships for Outstanding Academic Achievement, Peking University (1998, 1997)
- Outstanding Freshman Scholarship, Peking University (1996)
- Member of the National Biology Olympiad Team (1995)
- RADO Science Genius Junior Award (1994)

PUBLICATIONS (H-INDEX= 12, *CORRESPONDING AUTHOR)

1. Zhao, T. X.; Martinko, A. J.; Vy, L. H.; Zhao, J.; ***Yin, H.** “Development of Agents That Modulate Protein-Protein Interactions in Membranes”, *Curr. Pharm. Des.* **2009**, *15*, in press.
2. Buchanan, M. M.; Hutchinson, M. R.; Watkins, L. R.; ***Yin, H.** “Toll-like Receptor 4: An Immune Influence on Central Nervous System Functioning”, *J. Neurochem.* **2009**, invited review in preparation.
3. Hutchinson, M. R.; Zhang, Y.; Schridhar, M.; Rice, K.; Evans, J. H.; Buchanan, M. M.; Zhao, T. X.; Slivka, P. F.; Coats, B. D.; Rezani, N.; Wieseler, J.; Hughes, T. S.; Landgraf, K. E.; Chan, S.; Fong, S.; Phipps, S.; Falke, J. J.; Leinwand, L. A.; Maier, S. F.; **Yin, H.**; Rice, K. C.; Watkins, L. R. “Evidence that Opioids May Have Toll Like Receptor 4 and MD-2 Effects”, *Brain Behav. Immun.* **2009**, *23*, Article in Press (doi:10.1016/j.bbi.2009.08.004).
4. Tang, J.; **Yin, H.**; Qiu, J.; Tucker, M. J.; DeGrado, W. F.; Gai, F. “Two Fluorescent Probes to Dissect the Binding, Insertion, and Dimerization Kinetics of a Model Membrane Peptide”, *J. Am. Chem. Soc.* **2009**, *131*, 3816-3817.
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6. Slusky, J. S.; **Yin, H.**; DeGrado, W. F. “Understanding Membrane Proteins. How to Design Inhibitors of Transmembrane Protein-Protein Interactions” in *Protein Engineering* (Köhler, C.; RajBhandary, U. L. Ed.), Springer-Verlag (Berlin Heidelberg), **2009**, *Nucleic Acids and Molecular Biology* (Gross, H. J. Ed.), *22*, pp. 315-338.
7. Li, Y.; Chase, A. R.; Slivka, P. F.; Baggett, C. T.; Zhao, T. X.; ***Yin, H.** “Design, Synthesis, and Evaluation of Biotinylated Opioid Derivatives as Novel Probes to Study Opioid Pharmacology”, *Bioconjug. Chem.* **2008**, *19*, 2585-2589.
8. Caputo, G. A.; Litvinov, R. I.; Li, W.; Bennett, J. S.; DeGrado, W. F.; ***Yin, H.** “Computationally Designed Peptide Inhibitors of Protein-Protein Interactions in Membranes”, *Biochemistry* **2008**, *47*, 8600-8606.
9. Slivka, P. F.; Wong, J.; Caputo, G. A.; ***Yin, H.** “Peptide Probes for Protein Transmembrane Domains”, *ACS Chem. Biol.* **2008**, *3*, 402-411 (highlighted in *Chemical Biology Podcast*).
10. ***Yin, H.** “Exogenous Agents that Target Transmembrane Domains of Proteins”, *Angew. Chem. Int. Edit.* **2008**, *47*, 2744-2752 (cover article).
11. **Yin, H.**; Slusky, J. S.; Berger, B. W.; Walters, R. S.; Vilaire, G.; Litvinov, R. I.; Lear, J. D.; Caputo, G. A.; Bennett, J. S.; DeGrado, W. F. “Computational Design of Peptides that Target Transmembrane Helices”, *Science* **2007**, *315*, 1817-1822 (featured in “News of the Week” *Chem. Eng. News* **2007**, *85*, 11; and “News and Views” *Nat. Biotech.* **2007**, *25*, 646).
12. **Yin, H.**; Hamilton, A. D. “Protein Secondary Structure Mimetics as Modulators of Protein-Protein and Protein-Ligand Interactions” in *Chemical Biology: From Small Molecules to System Biology and Drug Design* (Schreiber, S. L.; Kapoor, T. M.; Wess, G. Ed.), Wiley-VCH Verlag GmbH & Co. KGaA (Weinheim), **2007**, *1*, pp. 250-269.
13. **Yin, H.**; Lee, G. I.; Hamilton, A. D. “Alpha-Helix Mimetics in Drug Discovery” in *Drug Discovery Research: New Frontiers in the Post-Genomic Era* (Huang, Z. W. Ed.), John Wiley & Sons Inc. (New York), **2007**, pp. 281-299.
14. White, T. C.; Berny, M. A.; Robinson, D. K.; **Yin, H.**; DeGrado, W. F.; Hanson, S. R.; McCarty, O. J. T. “The Leech Product Saratin is a Potent Inhibitor of Platelet Integrin $\alpha_2\beta_1$ and von Willebrand Factor Binding to Collagen”, *FEBS J.* **2007**, *274*, 1481-1491.
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17. **Yin, H.**; Frederick, K. K.; Liu, D. H.; Wand, A. J.; DeGrado, W. F. "Arylamide Derivatives as Peptidomimetic Inhibitors of Calmodulin", *Org. Lett.* **2006**, *8*, 223-225.
18. **Yin, H.**; Lee, G. I.; Sedey, K. A.; Kutzki, O.; Park, H. S.; Orner, B. P.; Ernst, J. T.; Wang, H. G.; Sebti, S. M.; Hamilton, A. D. "Terphenyl-Based Alpha-Helical Proteomimetics as Low-Molecular-Weight Antagonists of Bcl-x_L", *J. Am. Chem. Soc.* **2005**, *127*, 10191-10196 (recommended by the "Faculty of 1000" website as "Must Read").
19. **Yin, H.**; Hamilton, A. D. "Strategies of Targeting Protein-Protein Interactions Using Synthetic Agents", *Angew. Chem. Int. Edit.* **2005**, *44*, 4130-4163.
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21. **Yin, H.**; Lee, G. I.; Sedey, K. A.; Rodriguez, J. M.; Wang, H. M.; Sebti, S. M.; Hamilton, A. D. "Terephthalamide Derivatives as Mimetics of Helical Peptides: Disruption of the Bcl-x_L/Bak Interaction", *J. Am. Chem. Soc.* **2005**, *127*, 5463-5468.
22. Chen, L. H.; **Yin, H.**; Farooqi, B.; Sebti, S. M.; Hamilton, A. D.; Chen, J. D. "p53 α -Helix Mimetics Antagonize P53/MDM2 Interaction and Activate P53", *Mol. Cancer Ther.* **2005**, *4*, 1019-1025.
23. **Yin, H.**; Hamilton, A. D. "Terephthalamide Derivatives as Mimetics of the Helical Region of Bak Peptide Target Bcl-x_L Protein", *Bioorg. Med. Chem. Lett.* **2004**, *14*, 1375-1379 (recognized in the "Top-50 most cited articles" as published in *Bioorg. Med. Chem. Lett.* 2004-2007).
24. Sun, J.; Ohkanda, J.; Coppola, D.; **Yin, H.**; Kothare, M.; Busiglio, B.; Hamilton, A. D.; Sebti, S. M. "Geranylgeranyltransferase I Inhibitor, GGTI-2154, Induces Breast Carcinoma Apoptosis and Tumor Regression in H-Ras Transgenic Mice", *Cancer Res.* **2003**, *63*, 8922-8929.
25. Ernst, J.T.; Becerril, J.; Park, H. S.; **Yin, H.**; Hamilton, A. D. "Design and Application of an Alpha-Helix-Mimetic Scaffold Based on an Oligoamide-Foldamer Strategy: Antagonism of the Bak BH3/Bcl-x_L Complex", *Angew. Chem. Int. Edit.* **2003**, *42*, 535-539.
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1. Slusky, J. S.; **Yin, H.**; DeGrado, W. F. "Polypeptides that Bind to Membrane Proteins", *PCT USA Appl.* **2008**, 60/818,094; *PCT Int. Appl.* **2007**, US2007/015245.
2. Hamilton, A. D.; **Yin, H.** "Preparation of Terephthalamide Peptidomimetic Compounds for Therapeutic Use", *PCT USA Appl.* **2006**, 12/306,424; *PCT Int. Appl.* **2005**, US2005/005557.

CURRENT RESEARCH SUPPORTS (FY2009)

National Cancer Institute (NCI/NIH), National Institute on Drug Abuse (NIDA/NIH), National Institute of General Medical Sciences (NIGMS/NIH), National Center for Research Resources (NCRR/NIH), Howard Hughes Medical Institute (HHMI), American Heart Association (AHA), American Association for Cancer Research (AACR), Sidney Kimmel Foundation for Cancer Research, The Milheim Foundation for Cancer Research, Cancer League of Colorado (CLC), Association for Research of Childhood Cancer (AROCC), American Cancer Society (ACS), Children's Leukemia Research Association, University of Colorado Cancer Center (UCCC), CU Technology Transfer Office, UROP