

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2.
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NAME Rodney Kiplin Guy, Ph.D.	POSITION TITLE Member and Chair		
eRA COMMONS USER NAME KIPGUY			
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
Reed College, Portland, OR	B. A.	1986-1990	Chemistry
The Scripps Research Institute, La Jolla, CA	Ph. D.	1991-1996	Organic Chemistry
UT-Southwestern Medical Center, Dallas, TX	PostDoc	1996-1998	Cell Biology

A. Positions and Honors. List in chronological order previous positions, concluding with your present position. List any honors. Include present membership on any Federal Government public advisory committee.

6/90-8/91: Chemist, IBM-Almaden Research, San Jose, CA.

9/98-2/05: Assistant Professor of Pharmaceutical Chemistry and Cellular and Molecular Pharmacology, UCSF

1/00-8/05: Director, UCSF Center for Chemical Diversity

4/03-8/05: Executive Director, Bay Area Screening Center

2/05-8/05: Professor of Pharmaceutical Chemistry and Cellular and Molecular Pharmacology, UCSF

8/05-: Chairman and Member of Chemical Biology and Therapeutics, St Jude Children's Research Hospital, Memphis, TN.

8/05-: Adjunct Professor of Pharmaceutical Chemistry and Cellular and Molecular Pharmacology, UCSF

2/06-: Adjunct Professor of Biochemistry, Vanderbilt University, Nashville, TN.

Awards and Other Professional Activities

6/94: Roche Award for Excellence in Organic Chemistry.

6/95-8/96: George Hewitt Medical Research Foundation Fellowship.

9/96-9/98: The Helen Hay Whitney Postdoctoral Fellowship.

7/98-7/00: Sidney Kimmel Cancer Research Foundation Scholar Award

1/07-1/09: Editorial Advisory Board, Journal of Combinatorial Chemistry

B. Selected peer-reviewed publications (in chronological order). Do not include publications submitted or in preparation. (Of a total of 78)

1. Nicolaou, K. C.; Yang, Z.; Liu, J. J.; Ueno, H.; Nantermet, P. G.; Guy, R. K.; Claiborne, C. F.; Renaud, J.; Couladouros, E. A. "Total synthesis of taxol," *Nature (London)* **1994**, 367, 630-4.

2. Geistlinger, T. R.; Guy, R. K. "An inhibitor of the interaction of thyroid hormone receptor beta and glucocorticoid interacting protein 1," *J Am Chem Soc* **2001**, 123, 1525-6.

3. Harris, B. Z.; Lau, F. W.; Fujii, N.; Guy, R. K.; Lim, W. A. "Role of Electrostatic Interactions in PDZ Domain Ligand Recognition," *Biochemistry*, **2003**, 42, 2797-2805.

4. Geistlinger, T. R.; Guy, R. K. "Novel Selective Inhibitors of the Interaction of Individual Nuclear Hormone Receptors with a Mutually Shared Steroid Receptor Coactivator 2," *J. Am. Chem. Soc.* **2003**, 125, 6852-6853.

5. Fujii, N.; Haresco, J. J.; Pendola-Novak, K. A.; Stokoe, D.; Kuntz, I. D.; Guy, R. K., "A Selective Irreversible Inhibitor Targeting a PDZ Protein Interaction Domain," *J Am Chem Soc*, **2003**, 125, 12074-12075.

6. Moore, J. M. R.; Galicia, S. L.; McReynolds, A.; Ha, N. G.; Scanlan, T. S.; Guy, R. K. "Quantitative Proteomics of the Thyroid Hormone Receptor Coactivator Interaction," *J. Biol. Chem.* **2004**, 279(26), 27584-27590.

7. Estébanez-Perpiñá, E.; Moore, J. M. R.; Mar, E.; Nguyen, P.; Delgado-Rodrigues, E.; Baxter, J.; Buehrer, B. M.; Webb, P.; Fletterick, R. J.; Guy, R. K. "The Mechanism of Ligand Dependent Transactivation by the Androgen Receptor", *J. Biol. Chem.* **2005**, *280*, 8060-8.
8. Krylova, I. N.; Sablin, E. P.; Williams, J. D.; Williams, S. P.; Moore, J. M. R.; Xu, R. X. Waitt, G. M.; Juzumiene, D.; Bynum, J. M.; Montana, V.; Guy, R. K.; Thornton, J. W.; Fletterick, R. J.; Willson, T. M.; Ingraham, H. A. "Structural analyses of NR5 orphan receptors reveal a potential role as nuclear phospholipid sensors," *Cell*, **2005**, *120*, 343-55.
9. Anderson, M. A.; Shelat, A. S.; Moser, J.; Guy, R. K. "A Solid-phase Approach to the Phallotoxins: Total Synthesis of [Ala⁷]-Phalloidin," *J.Org.Chem.*, **2005**, *70*, 4578-4584
10. Feng, B. Y.; Shelat, A. A.; Doman, T. N.; Guy, R. K.; Shoichet, B. K. "High-Throughput Assays for Promiscuous Inhibitors." *Nature Chemical Biology.*, **2005**, *1*, 146-148.
11. Arnold, L. A.; Estebanez-Perpina, E.; Togashi, M.; Jouravel, N.; Shelat, A.; McReynolds, A. C.; Mar, E.; Nguyen, P.; Baxter, J. D.; Fletterick, R. J.; Webb, P.; and Guy, R. K., "Discovery of small molecule inhibitors of the interaction of thyroid hormone receptor with transcriptional coregulators," *J Biol Chem*, **2005**, *280*(52), 43048-55
12. Mills, N. L.; Daugherty, M. D.; Frankel, A. D.; Guy, R. K. "An α -helical inhibitor of the HIV-1 Rev-RRE Interaction," *J. Am. Chem. Soc.*, **2006**, *128*(11), 3496-7
13. Mackey, Z. B.; Baca, A. M.; Fujii, N.; Apsel, B.; Shelat, A.; Hansell, E. J.; Chiang, P. K.; Wolff, B.; Guy, R. K.; Williams, J.; McKerrow, J. "Discovery of trypanocidal compounds by whole cell HTS of live *Trypanosoma brucei*," *Chem. Biol. Drug. Des.*, **2006**, *67*(5), 355-367.
14. Madrid, P. B.; Liou, A. L.; DeRisi, J. L.; Guy, R. K. "Incorporation of an Intramolecular Hydrogen-bonding Motif in the Side-Chain of 4-Aminoquinolines Enhances Activity against Drug-Resistant *P. falciparum*." *J. Med. Chem.* **2006**, *49*(15), 4535-4543.
15. Anderson, M. O.; Yu, H.; Penaranda, C.; Maddux, B. A.; Goldfine, I. D.; Youngren, J. F.; Guy, R. K. "Parallel Synthesis of Diarylureas and their Evaluation as Inhibitors of Insulin-Like Growth Factor Receptor," *J. Comb. Chem.*, **2006**, *8*(5), 784-90.
16. Laurie, N. A.; Donovan, S. L.; Shih, C.-S.; Zhang, J.; Mills, N.; Fuller, C.; Teunisse, A.; Lam, S.; Ramos, Y.; Mohan, A.; Johnson, D.; Wilson, M.; Rodriguez-Galindo, C.; Quarto, M.; Francoz, S.; Mendrysa, S. M.; Guy, R. K.; Marine, J.-C.; Jochemsen, A. G.; Dyer, M. A. "Inactivation of the p53 Pathway in Retinoblastoma," *Nature*, **2006**, *444*(7115), 66-69.
17. Fujii, N.; You, L.; Xu, Z.; Uematsu, K.; Shan, J.; He, B.; Mikami, I.; Edmondson, L. R.; Neale, G.; Zheng, J.; Guy, R. K.; Jablons, D. M. "An Antagonist of Dishevelled Protein-Protein Interaction Suppresses *b*-catenin Dependent Tumor Cell Growth," *Cancer Research*, **2007**, *67*(2), 573-579.
18. Inglese, J.; Shamu, C. E.; Guy, R. K. "Reporting Data from High Throughput Screening of Small Molecule Libraries," *Nat. Chem. Biol.* **2007**, *3*(8) 438-441.
19. Shelat, A.; Guy, R. K. "The Role of Scaffolds in Defining Functional Diversity of Screening Collections in Biologically Relevant Space," *Nat. Chem. Biol.* **2007**, *3*(8), 442-446.
20. Mills, N. L.; Shelat, A. A.; Guy, R. K. "Assay Optimization and Screening of RNA:Protein Interactions by Alphascreen," *J. Biomol. Screen.* **2007**, *in press*.
21. Arnold, A.; Kosinski, A.; Estebanez-Perpina, E.; Fletterick, R. J.; Guy, R. K.; "Inhibitors of the Interaction of Thyroid Hormone Receptor and Coactivators: Preliminary Structure Activity Relationships," *J. Med. Chem.* **2007**, *in press*.
22. Hyatt, J. L.; Wadkins, R. M.; Tsurkan, L.; Hicks, L. D.; Hatfield, M. J.; Edwards, C. C.; Ross, C. R.; Cantalupo, S. A.; Crundwell, G.; Guy, R. K.; Potter, P. M. "Planarity and Constraint of the Carbonyl Groups in 1,2-diones are Determinants for Selective Inhibition of Human Carboxylesterase 1," *J. Med. Chem.*, **2007**, *in press*.
23. Teichert, A.; Arnold, A.; Oda, Y.; Geistlinger, T. R.; Guy, R. K.; Bikle, D. D.; "Differential Binding of Coregulator Motifs to the Vitamin D Receptor: Regulation by Ligand," *Biochemistry*, **2007**, *submitted*
24. Estebanez-Perpina, E.; Arnold, A. Webb, P.; Nguyen, P.; Delgado-Rodrigues, E.; Mar, E.; Bateman, R.; Pallai, P.; Shokat, K. M.; Baxter, J. D.; Guy, R. K.; Fletterick, R. J.; "A surface on the androgen receptor that allosterically regulates coactivator binding.," *Proc. Natl. Acad. Sci. USA*, **2007**, *in press*.
25. Estebanez-Perpina, E.; Jouravel, N.; Arnold, A.; Togashi, M.; Blethrow, J.; Mar, E.; Nguyen, P.; Baxter, J. D.; Webb, P.; Guy, R. K.; Fletterick, R. J. "Structural Insight into the Mode of Action of a Direct Inhibitor of Thyroid Hormone Receptor Coregulator Binding," *Mol. Endocrin.*, **2007**, *in press*.