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A. Professional Preparation

Degree	Year	University	Major
B.S.	1984	University of Texas, El Paso	Chemistry
Ph.D.	1990	Purdue University	Theoretical Organic Chemistry
Postdoc	1990-94	University of Houston	Biophysical Chemistry

B. Appointments

2005-present	Biochemistry Division Leader, Biology and Biochemistry, University of Houston
2004-present	Associate Professor (tenured), Biology and Biochemistry, University of Houston
2003-present	Director, Chemical Biology Interdisciplinary Program, Bio. and Biochem., UH
1998-2004	Assistant Professor, Biology and Biochemistry, University of Houston
1994-1998	Asst. Adjunct Professor, Dept. of Pharmacology, Univ. of California, San Diego

C. Publications (84 total)

1. Huang H-C, Juniper D, Qiu M, Briggs JM, VanBuren V. Cluster Analysis of Hydration Waters Around the Active Sites of Bacterial Alanine Racemase Using a 2-ns MD Simulation, *Biopolymers*, 2008, 89, 210-19.
2. Nunthaboot N, Pianwanit S, Parasuk V, Ebalunode JO, Briggs JM, Kokpol S. Hybrid Quantum Mechanical/Molecular Mechanical Simulations of HIV-1 Integrase/Inhibitor Complexes, *Biophys J*, 2007, 93, 3613-26.
3. Fu W, Shen J, Luo X, Zhu W, Cheng J, Yu K, Briggs JM, Jin G, Chen K, Jiang J. Dopamine D1 Receptor Agonist and D2 Receptor Antagonist Effects of the Natural Product (-)-Stepholidine: Molecular Modeling and Dynamics Simulations, *Biophys J*, 2007:93, 1431-41.
4. Meltzer RH, Thompson E, Soman K, Song X-Z, Ebalunode JO, Wensel TG, Briggs JM, Pedersen SE. Electrostatic Steering at Acetylcholine Binding Sites, *Biophys J*, 2006:91, 1302-14.
5. Kirchoff PD, Bass MB, Hanks BA, Briggs JM, Collet A, McCammon JA. Structural Fluctuations of a Cryptophane Host: A Molecular Dynamics Simulation, *J Am Chem Soc*, 1996, 118, 3237-46.
6. Jawanda N, Ebalunode J, Gribenko A, Briggs J, Ching Lee, J, Tu S-C. A Single-Residue Mutation Destabilizes *Vibrio harveyi* Flavin Reductase FRP Dimer, *Arch Biochem Biophys*, 2008, 472, 51-57.
7. Huang H-C, Juniper D, Qiu M, Briggs JM, VanBuren V. Cluster Analysis of Hydration Waters Around the Active Sites of Bacterial Alanine Racemase Using a 2-ns MD Simulation, *Biopolymers*, 2008, 89, 210-19.
8. Deng J, Sanchez T, Neamati N, Briggs JM. Dynamic Pharmacophore Model Optimization: Identification of Novel HIV-1 Integrase Inhibitors, *J Med Chem*, 2006, 49, 1684-92.
9. Brigo A, Lee KW, Fogolari F, Mustata GI, Briggs JM. Comparison of Multiple Molecular Dynamics Trajectories Calculated for the Drug-Resistant HIV-1 Integrase T66I/M154I Catalytic Domain, *Biophys J*, 2005, 88, 3072-82.

D. Synergistic Activities

2006-present	NIH Molecular Structure and Function D (MSFD) grant review panel
2003-present	Director, Chemical Biology Interdisciplinary Graduate Program
2003-present	Texas Southern Univ. NASA Research Center, research collaborator, mentor to minority summer undergraduate students