SENIOR SCIENTIST

Professional Summary

Goal driven research scientist with broad exposure in preclinical drug discovery. Have the stamina to run marathons and perseverance to meet milestones. Enjoy leading multi-disciplinary project teams from target identification and validation through to candidate selection. Opportunistic by nature, I enjoy thinking of applications for new technology and partnering for mutual benefit. Primary skills include structure-based drug design, protein biochemistry, and molecular biology. Analytic experience includes solving protein structures, virtual compound design and screening, triaging high-throughput screening data, assessing enzyme panels.

Skills

- Project management
- Goal oriented
- Opportunistic
- Networking
- Crystallography
- Rational drug design
- Biochemistry
- Virtual screening
- Chemoinformatics
- Protein designÂ

Work History

Senior Scientist 07/1998 to Current
Eurofins Scient. â€“ San Jose , CA

- Managed cross-functional Â preclinical project teams in the metabolic and anti-viral therapeutic areas to deliver candidate compounds within specified timelines.
- Visualized macromolecular complexes at atomic resolution for knowledge-based design. Â Provide translationalÂ validation using biochemistry and biophysics
- Performed chemical modeling, data mining, and virtual screening techniques to identify leads, optimize existing chemical series, and to design novel chemotypesÂ
- Provide high-throughput structural analysis and enzyme design for Synthetic Biochemistry - delivered engineered enzymes for improved API synthesis route
- Developed scalable, high-throughput analysis protocols for Synthetic Biochemistry enzyme panel developmentÂ Initiated RTP Chemical Biology and Biotechnology Symposium to network academic and industrial scientists and provide industrial exposure to biotechnology students at neighboring universitiesÂ
- Triaged primary-cell HTS data usingÂ statistical and chemoinformatic analysis
- Initiated collaborations with academic experts in the U.S. and E.U. to jump start membrane protein biochemistry at GlaxoSmithKline.

Postdoctoral Research Associate 06/1994 to 06/1998
Princeton University Faculty â€“ Princeton , NJ

- Determined the three-dimensional structure of progesterone receptor with bound progesterone demonstrating atomic mechanism of steroid-based gene activation.

Postdoctoral Research Associate 12/1989 to 05/1994
Princeton University Faculty â€“ Princeton , NJ

- Used biophysical techniques to correlate substrate and co-factor binding with viral protease activity.
- Collaborated in development of tuned X-ray imaging, mapping the distribution of chemical components in biological samples.

Scientist/Manager BioMolecular Structure Group

Education

Ph.D. : Biophysics 1989 University of Michigan - City , State Determined the structure of the chromatin 30 nM fiber using small-angle X-ray scattering, wide-angle X-ray scattering, biochemistry, and electron microscopy.

Advisor: John Langmore
Bachelor of Arts : Physics 1982 Temple University - City , State 1982 Outstanding Achievement Scholar

Skills