

Background:

Everything in this world is based on structure. I use my scientific skills to measure and quantify the effect of changes in protein structure with biological activity. My ability to procure funding from federal and international agencies has resulted in the generation of new products and services designed to improve our quality of life. As a serial entrepreneur I have raised capital and coordinated the initiation of three companies.



Areas Expertise

- ✓ DNA
- ✓ Recombinant DNA
- ✓ Pharmacology
- ✓ Protein Engineering
- ✓ Computational Biology
- ✓ Algorithm Development
- ✓ Artificial Intelligence
- ✓ Crystallography
- ✓ Data Collection
- ✓ Instructor
- ✓ Biochemistry
- ✓ Molecular Biology
- ✓ Radiation Safety
- ✓ Negotiation

Education History

- 2010 Fermentation Methods / Scale Up Strategies, Penn State, University Park, PA
- 1993 - 1998 Ph.D. (Pharmacology), Boston University, Boston, MA
- 1990 - 1992 MA (Biochemistry), Boston University, Boston, MA
- 1981 - 1986 BA (Biology) / (Math), State University of New York, New Paltz, NY
- 1981- 1978 Kingston High School, Kingston, NY

Experience & Notable Contributions

C2 Biotechnologies, LLC (R&D Company) Germantown, NY 12526 – Developed biotechnologies to improve quality of life.

Founder, President & Chief Science Manager

(August 2006 – present) Raised private equity and established federal funding via SBIR mechanism. Engineered, constructed and produced fusion enzymes designed to reduce operational costs between 30% and 50%. Developed patenting and licensing strategies. Developed market applications, marketing and sales strategies.

Contributions

- Raised private equity
- Developed federal granting strategy
- Created technology and intellectual property
- Identified market applications
- Generated patents, trademarks and logos
- Developed licensing strategies and negotiated contracts
- Constructed two molecular biology laboratories
- Constructed scientific and business advisory boards
- Developed voluntary institutional review board
- Negotiated partnerships with local development agencies and school districts

InSilicor, Inc. (Software Company) Birmingham, AL – An informatics company that developed artificial intelligence and smart algorithms solutions.

Co-founder and Chief Science Officer

(2004-2006)

Contributions

- Created technology
- Identified markets and technology applications
- Developed granting strategies

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- Developed artificial intelligence and smart algorithms
- Developed data mining algorithms
- Identified and negotiated partnership with Veterans Administration

Past Employment

Diversified Scientific, Inc. (R&D Company) Birmingham, AL – Commercialized technology generated by the University of Alabama at Birmingham.

Senior Research Scientist

(2002-2004)

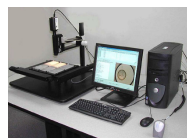
- Trojan Phage Crystallization System
- Facilitated construction / integration protein crystallography systems
- Facilitated artificial intelligence analysis of protein crystallization
- Other project involvements include developing peptides that specifically bind pathogenic fungi using M13 phage display technology for a biological sensor for air born fungal spores.

University of Alabama at Birmingham (Birmingham, AL) – Academic Research

Research Associate

(2000-2001)

- Integrated a high through put crystallography system
- Program robotics
- Integrate Design of Experiment with robotic analysis
- Crystallize protein drug targets
- Generated technology

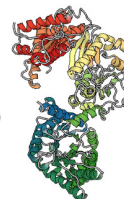


Institute de Biological Structural (Grenoble, France). Academic and industrial research facility.

Chateaubriand Research Fellow

(2000-2001)

- Project: “X-ray crystal structure determination of human interleukin-7”.
- Sabbatical Institut fur Molekulare Biotechnologie (IMB), Jena, Germany
- Center for Design and Structure in Biology (CDSB), Jena, Germany
- Laboratoire pour l’Utilisation du Rayonnement Electromagnetique (LURE)
- European Synchrotron Radiation Facility (ESRF)
- Determined atomic structure PPKK

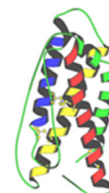


New England Medical Center (Boston, MA) Department of Medicine, Division of Hematology / Oncology, Boston, MA, USA

Post Doctorate

(1998-2000)

- Interleukin-7 structure analysis
- Interleukin-7 cellular signal analysis
- Laboratory manager
- Laboratory Radiation Safety Officer



Teaching Experience

- Martial Arts Instructor - Fu Jow Pai Kung Fu (1980-1986)
- BioTeach / GENius Program (2002)
- Central Alabama Soccer League (CASL) Head Coach (2007)
- Industrial Molecular Biology Internship for High School Students (2010)
- Ski Instructor Windham Mountain Resort (2015, 2016)

Volunteer Experience

- Germantown Democratic Club (Germantown, NY) 2012

Community Projects

- **High School / Business Incubator** (Greenville Central School District, NY) 2010
- “Creating a High School Incubator in Biofuels Development from Lab Technique to Grant Writing—Sounds Impossible? See C2B’s Project in Green County, New York.” WWW.Advancedbiofuelsusa.info. Published July 22, 2011