BIOGRAPHICAL SKETCH

NAME	POSITION TITLE
Diane J. Rodi	Group Leader
eRA COMMONS USER NAME	

EDUCATION/TRAINING

INSTITUTION AND LOCATION	DEGREE *(if applicable)*	YEAR(s)	FIELD OF STUDY
H.H. Lehman College, N.Y., N.Y.	B.S.	1978	Chemistry/Biochemistry
Columbia University, N.Y., N.Y.	M.A.	1979	Biochemistry
Columbia University, N.Y., N.Y.	M.Phil.	1982	Biochemistry
Columbia University, N.Y., N.Y.	Ph.D.	1983	Biochemistry

A. Positions and Honors

Employment

4/04-present Group Leader, Argonne National Laboratory
8/05-present Argonne National Laboratory Biosafety Officer
8/05-present Chair, Argonne National Laboratory IBC
9/00-3/04 Biochemist, Argonne National Laboratory
9/99-5/00 Research Scientist; EntreMed, Inc., Rockville, MD
10/94-9/97 Associate Scholar Scientist, Adjunct lecturer; Dept. of Biological Science
Florida State University, Tallahassee, FL
8/84-5/85 Postdoctoral fellow, Dept. of Microbiology
University of Pennsylvania School of Medicine, Philadelphia, PA
8/83-7/84 Postdoctoral fellow, Institute for Cancer Research
Fox Chase Cancer Center, Philadelphia, PA
6/79-7/83 Graduate Research Assistant, Dept. of Biochemistry & Molecular Biophysics
Columbia University, New York, N.Y.

Honors and Fellowships:

Member, ZCA study section, N.I.H. 6/05; 10/06
Member, MABS Study Section, N.I.H. 6/04
Invited editor, Combinatorial Chem. & High Throughput Screening, 2001
Member, American Crystallographic Association
Member, American Society of Human Genetics
Member, A.A.A.S.
Hoffmann-LaRoche Postdoctoral Fellow of the Life Sciences Research Foundation, 1983-85
Dean Harry L. Levy Graduate Studies Scholarship Award, 1978
Ella D. Burstein Memorial Fund Award for Valedictorian, Class of 1978
H.H. Lehman College Undergraduate Research Grant, 1977
American Institute of Chemists Award, 1978

B. Selected Publications

Makowski, D. Rodi, Rothberg, P.G. and Astrin, S.M., *The Role of Promotor Insertion in the Induction of Neoplasia,* **Surv. Synth. Path. Res.**, 3(4):342-347 (1984).
Makowski, D. Rodi, Rothberg, P.G. and Astrin, S.M., *Cellular Transformation by Avian Viruses, in: Mechanisms of Cellular Transformation by Carcinogenic Agents*, 27:63-97, **International Encyclopedia of Pharmacology and Therapeutics** (1985).
Rodi, D.J. and L. Makowski (1999*) Similarity between the sequences of taxol-selected peptides and the disordered loop of the anti-apoptotic protein, Bcl-2.* in **Proc. Pacific Symposium on Biocomputing**, 532-541.
Rodi, D.J., Janes, R.W., Sanganee, H.J., Holton, R., Wallace, B.A. and Makowski, L. (1999) *Screening a library of phage-displayed peptides identifies human Bcl-2 as a Taxol-binding protein*, **J. Mol. Biol.** 285,197-204.
Rodi, D.J. and L. Makowski (1999) *Phage display technology: Finding a needle in a vast molecular haystack.* **Current Opin. Biotech.** 10, 87-93.
Rodi, D.J., Agoston, G.E., Manon, R., Green, S.J. and Makowski, L. (2001) *Identification of Small Molecule Binding Sites within Protein Sequences Using Phage Display Screening.* **Combinatorial Chemistry & High Throughput Screening**, 4 (7), 553-572.
Rodi, D.J., Makowski, L. and Kay, B.K. (2001) *One from Column A and Two from Column B: The Benefits of Phage-display in Molecular Recognition Studies*. **Current Opinion in Biol. And Chem.** 6:92-96.
Rodi, D.J., Soares, A. and Makowski, L. (2002*) Quantitative Assessment of Peptide Sequence Diversity in M13 Combinatorial Peptide Phage Display Libraries.* **J. Mol. Biol.** 322:1039.
Rodi, D.J., Mandava, S. and Makowski, L. (2003) M13 bacteriophage structure and biology, In: **Phage Display in Biotechnology and Drug Discovery** (ed. Sachdev Sidhu), invited chapter, in press.
Fischetti, R.F., Mirza, A., *Rodi, D.J.*, Irving, T.C., Knodrashkina, E.and Makowski, L. (2003) High Resolution Wide Angle X-Ray Scattering of Protein Solutions: Effects of Beam Dose on Protein Integrity. **J. Synch. Res**. 10:398-404.
Makowski, L. and *Rodi, D.J.* (2003) Genome-wide Characterization of the Binding Repertoire of Small Molecule Drugs. **Human Genomics** 1:41-51.
Mandava, S., Makowski, L., Uzubell, J., Devarapalli, S. and *Rodi, D.J.* RELIC – A bioinformatics server for combinatorial peptide analysis and identification of protein-ligand interaction sites. (2004) **Proteomics** 4:1439-1460.
Rodi, D.J., Mandava, S. and Makowski, L. (2004) DIVAA: analysis of amino acid diversity in multiple aligned protein sequences. **Bioinformatics** 20:1-9.
Fischetti, R.F., *Rodi, D.J.*, Gore, D.B. and Makowski, L. (2004) Wide Angle X-ray Solution Scattering As a Probe of Ligand-Induced Conformational Changes in Proteins. **Chem. & Biol.** 11:1431-1443.
Carter; D.M.; Gagnon, J.; Damlaj, M.; Mandava, S.; Makowski, L.; *Rodi, D.J.*; Pawelek, P.D. and Coulton, J.W. (2006) Phage Display Reveals Multiple Contact Sites Between FhuA, an Outer Membrane Receptor of Escherichia coli, and TonB, **J. Mol. Biol.** 357:236-251.
Glesne, D.A.; Zhang, W., Mandava, S., Ursos, L., Buell, M.E., Makowski, L. and *Rodi, D.J.* (2006) Subtractive Transcriptomics: Establishing Polarity Drives Human Endothelial Morphogenesis, **Cancer Res.** 66(8):1-11.
Dieckman, L.J., Zhang,W., *Rodi, D.J.*, Donnelly, M.I. and Collart, F.R. (2004) Bacterial Expression Strategies for Human Angiogenesis Proteins. **J. Struct. Funct. Genomics** (2006) May 11; [Epub ahead of print].
Finney L., Mandava S., Ursos L., Zhang W., *Rodi D.J.*, Vogt S., Legnin D., Maser J., Ikpatt F., Olopade O.I., Glesne D. (2006) X-ray Fluorescence Microscopy Reveals Large-scale Relocalization and Extracellular Translocation of Cellular Copper during Angiogenesis; submitted to **Proc. Natl. Acad. Sci. USA**.

Patents:
Makowski, L., *Makowski, D. Rodi* and Sanganee, H. (1998) Identification of Molecular Targets. Patent no. 09/110,994.