

Lynda J. Dieckman, Ph.D.
Curriculum Vitae

CONTACT INFORMATION:

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WORK EXPERIENCE:

2008-present Assistant Scientist Functional Genomics, Biosciences Division, Argonne National Laboratory, Argonne, IL
2009-2009 Adjunct Faculty, Department of Natural Sciences, College of DuPage, Glen Ellyn, IL
2002-2008 Molecular Biologist/Environmental Safety and Health and Quality Assurance Coordinator, Biosciences Division, Argonne National Laboratory, Argonne, IL
1997-2002 Special Term Appointee, Biosciences Division, Argonne National Laboratory, Argonne, IL
1997-1997 Adjunct Faculty, Department of Biology, North Central College, Naperville, IL
1993-1997 Adjunct Faculty and (Sabbatical Replacement) Assistant Professor Department of Natural Sciences, College of DuPage, Glen Ellyn, IL
1995-1996 Adjunct Faculty, Benedictine University, Department of Biology, Lisle, IL
1991-1993 Adjunct Faculty, Department of Biology, Elmhurst College, Elmhurst, IL
1990-1991 Research Associate, Loyola University, Maywood, IL
1981-1984 Research Assistant, Case Western Reserve University, Cleveland, OH

COURSES TAUGHT:

Human Anatomy and Physiology
Human Biology
Introduction to Biology (both majors and non-majors sections)
Zoology
Human Medical Physiology (tutor)

EDUCATION:

Ph.D. in Physiology and Biophysics
School of Medicine
University of Cincinnati
Cincinnati, OH

M.S. in Neurobiology
Case Western Reserve University
Cleveland, OH

B.Sc. in Biology
John Carroll University
University Heights, OH

PUBLICATIONS:

Dieckman, L.J., Zhang, W., Rodi, D.J., Donnelly, M. I., Collart, F.R., (2006) Bacterial Expression Strategies for Human Angiogenesis Proteins. *J. Struct. Funct. Genomics*. 7(1) 23-30.

Dieckman, L.J., Hanly, W.C., and Collart, F.R., (2005) Strategies for High Throughput Gene Cloning and Expression. *Genet. Eng. (N Y)*. 27: 171-182.

Moy, S., Dieckman, L.J., Schiffer, M., Maltsev, N., Yu, G.X., and Collart, F.R. (2004) Genome-Scale Expression of Proteins from *Bacillus subtilis*. *J. Struct. Funct. Genomics*. 5(1-2): 103-9.

Zhang, R., Dementieva, I., Duke, N., Collart, F.R., Quaiter-Randall, E., Alkire, L., Dieckman, L.J., Maltsev, N., Korolev, O., and Joachimiak, A., (2002) Crystal structure of *Bacillus subtilis* IolI shows Endonuclease IV fold with altered Zn-binding. *Proteins* 48, 423-426.

Dieckman, L.J., Gu, M., Stols, L., Donnelly, M.I. and Collart, F.R. (2002) High throughput methods for gene cloning and expression. *Protein Expression and Purification* 25, 1-7.

Pokkuluri, P.R., Raffin, R., Dieckman, L.J., Boogard, C., Stevens, F.J., Schiffer M., (2002) Increasing protein stability by polar surface residues: domain-wide consequences of interactions within a loop. *Biophys. J. Jan*: 82 (1 Pt 1):391-398.

Stols, L., Gu, M., Dieckman, L., Raffin, R. Collart, F.R. and Donnelly, M.I. (2002) A new vector for high throughput, ligation independent cloning encoding a TEV protease cleavage site. *Protein Expression and Purification* 25 8-15.

Raffin, R., Dieckman, L.J., Szpunar, M., Wunschl, C., Pokkuluri, P.R., Dave, P., Stevens P., Cai, X., Schiffer, M., and Stevens, F.J., (1999) Physicochemical consequences of amino acid variations that contribute to fibril formation by immunoglobulin light chains. *Protein Sci. Mar* 8 (3) 509-517.

Dieckman, L.J., Solaro, R.J., (1990) The Effect of Thyroid Status on the Expression of Cardiac Troponin I and Myofibrillar pH Sensitivity in Perinatal and Adult Rat Hearts, *Circulation Research*. Aug; 67 (2): 344-51.

Dieckman, L.J., Transitions in Isoforms of Troponin I and Myofibrillar pH Sensitivity in the Developing Heart, Ph.D. Dissertation, December 1989.

Dieckman, L.J., Ritzmann, R.E., (1987) The Effect of Temperature on Flight Initiation in the Cockroach *Periplaneta americana*. J. Neurobiol. 18 (60) 487- 496.

Davis P.B., Dieckman L.J., Boat T., Stern R.C., Doershuk C.F., (1984) The Alpha-Adrenergic System in Platelets of Patients with Pulmonary Disease. Am. J. Med. Sci. Vol 288 (3) 104-108.

Davis P.B., Dieckman L.J., Boat T., Stern R.C., Doershuk C.F., (1984) Effect of Alpha-Tocopherol on Platelet Membrane Function in Cystic Fibrosis. J. Lab. Clin. Med. 104, 203-212.

Davis P.B., Dieckman L.J., Boat T., Stern R.C., Doershuk C.F., (1983) Beta Adrenergic Receptors in Lymphocytes and Granulocytes from Patients with Cystic Fibrosis. J. Clin. Invest. June (71) 1787-1795.

Davis P.B., DelRio, S., Muntz J.A., Dieckman L.J., (1983) Sweat Chloride Concentration in Adults with Pulmonary Disease, Am. J. Med. Sci., Vol 288 (3) 104-108.

PRESENTATIONS:

Aziz A., Mandava S., Makowski L., Schilling B., Gibson B., and Dieckman L., Production of Protein Standards for Cancer Research, poster presented at Clinical Proteomic Technologies for Cancer annual meeting, Bethesda, MD. Sept 8-9 2010.

Aziz A., Mandava S., Makowski L., and Dieckman L., Clinical Proteomics and Biomarker Discovery in Cancer Research, poster presented at 2010 Protein Engineering Summit 6th annual meeting, Boston, MA. May 2010.

Dieckman L., and Anderson L., Protein Production, speaker at the Clinical Proteomic Technologies for Cancer meeting Nashville, TN. April 2010.

Aziz A., Mandava S., Dieckman L., Schilling B., Gibson B., and Makowski L., A Pipeline for Production of Protein Standards, poster presented at Clinical Proteomic Technologies for Cancer 2009 annual meeting, Bethesda, MD. Oct 5-7, 2009.

Dieckman L., Introduce a Girl to Engineering Day (IGED), Argonne National Laboratory, High-Throughput Biology Facility Tour February 26, 2004.

Collart F., Dieckman L., Gu M., Poulos M., High throughput Gene Cloning and Expression - Opportunities and Limitations. Keystone Symposia: Structural Genomics: From Gene Sequence to Function; Breckenridge, CO. Jan 5-11, 2002.

Pokkuluri, P.R., Johnson G., Cai X., Dieckman L., Stevens F.J., and Schiffer M., Domain Flips Resulting from Single Amino Acid Substitutions, poster presented at American Crystallographic Association Meeting 1998.

Raffen, R., Dieckman, L.J., Wilkins Stevens, P., Pokkuluri, P.R., Schiffer, M., and Stevens F.J., Characterizing Primary Structural Determinants of Immunoglobulin Light Chain Amyloidosis With Recombinant Light Chain Variable Domains, poster presented at FASEB Summer Research Conference: Amyloid and other Abnormal Protein Assembly, Copper Mt., CO. July 13-18 1997.

Dieckman L.J., Murphy A.M., and Engelman G.E., Transforming Growth Factor –Beta Inhibits Expression of Cardiac Troponin I in Cultured Cardiomyocytes, presented at UCLA Symposia: Cellular and Molecular Biology of Muscle Development, Keystone, CO. January 1991.

Murphy A.M., Dieckman L.J., Solaro R.J., Strauss A.W., Gene Switching Regulates Troponin I Expression in Rat Cardiac Development: Influence of Thyroid Status presented at the Society for Pediatric Research. 27, T306A, 1990.

Dieckman L.J., and Solaro R.J., The Effect of Thyroid Status on the Expression of Troponin I in Perinatal and Adult Rat Hearts, 1989 FASEB Meeting New Orleans, LA., Session 214 #2744.

Dieckman L.J., and Solaro R.J., Development Transitions in Troponin I Isoforms, 1989 Cardiovascular Research Forum, American Heart Association of Metro, Chicago, May 31, 1989, Chicago, IL.

Dieckman L.J. and Solaro R.J., Expression of Cardiac Thin Filament Proteins During Development of Euthyroid and Hypothyroid Rats, poster presented at the 17th Annual UCLA Symposia: Cellular and Molecular Biology of Muscle Development. Steamboat Springs, CO. April 1988.

Dieckman L., Murphy H., and Wideman C., The Effects of Bilateral Hippocampal Lesions on Maternal Behavior in the Sprague Dawley Rat, presented at the Ohio Academy of Science 91st Annual Meeting April 1982.