

**David L. Dyer, Ph.D.**

**151 Segerstrom Science Center, West Campus**

**Azusa Pacific University, Azusa, CA**

**(626) 815-2088; ddyer@apu.edu**

**Key Skills:**

Educational Program Development and Leadership

Program Management and Assessments

Student Vocational Mentoring

Client relationship development and management

Pharmaceuticals industry leadership experience 10+ years

Ph.D. in Biological Science, emphasis in molecular neurobiology

**Employment:**

**Executive Director, Master of Science Program in Biotechnology Studies**

Azusa Pacific University, Azusa, CA

July 2016 – Present

- Provides administrative leadership and direction for the full spectrum of student services for APU MS Biotechnology degree program operations and for administrative requirements, from prospect through career management and alumni relations at all of the three member CSU campuses

**Director, Program for Applied Biotechnology Studies**

California State University, Los Angeles; California State University, Fullerton; California State

Polytechnic University, Pomona

February 2008 – June 2016

- Provided administrative leadership and direction for the full spectrum of student services for PABS Master of Biotechnology (MBt) degree program operations and for administrative requirements, from prospect through career management and alumni relations at all of the three member CSU campuses
- Management supervisor for program staff, responsible for talent acquisition and evaluation
- Developed tools and methods to insure smooth interaction between administrative leads at the PABS academic institutions and their industrial partners
- Developed and implemented
  - annual strategic plans
  - projects, methods and tools to annually evaluate program effectiveness and to implement for institutional quality enhancement
    - program academic and operational policies
    - program content, content revision, implementation, assessments
    - projects focused on program and institution quality enhancement
    - external and internal marketing plans for the PABS MBt program
- Established and served as lead member of the management groups of PABS
- Principal internal and external spokesperson for the MBt program to internal and external clients.
- Member, National Professional Science Masters Association Board of Directors, providing leadership in quality management and national branding
- Established and maintained relationships to external program partners, including Amgen, Inc., Grifols Biologicals, Allergan, Gilead Sciences, Edwards LifeSciences, Beckman Coulter and others.
- Managed working relationships with upper administrative leads at the PABS institutions

## **Employment, ctd.**

### **Industry Consultant, Pharmaceuticals; Novatech Laboratories, LLC**

August 2006 – February, 2008

- Quality assessments development
- Stability program development and implementation
- OTC Pharmaceuticals design and development
- Product claims guidance and performance testing
- Patent and trademark assistance
- Industry manufacturing site identification and qualification (South Bay area)
- Marketing and new business lead identification and development

### **Medical Science Liaison, UCB Pharma**

February, 2005 – June, 2006

Central, Southern California/Nevada Clinical and Academic Territories

- Science Liaison to scientific and medical research communities in central nervous system therapeutics area.
- Development of Key Opinion Leaders; Facilitation of research advisory boards
- Facilitation of Investigator-Initiated Phase IV and preclinical studies
- Field-based medical information feedback and presentation
- Assisted with Ph. IV lead identification and vetting

### **Senior Director, Research and Development, Woodward Laboratories, Inc.**

May, 1996 – December, 2005

- Developed and implemented research and development policies, objectives, and initiatives associated with preclinical and clinical dermal therapeutic product development
- Technology development, transdermal drug delivery systems
- Responsible for oversight of all aspects of research division function
- Prepared scientific communications, public information and intellectual property applications and filings
- Experienced with CME content development for clinical presentations
- Principal contact and spokesperson for the company on technical issues, FDA communications
- Prepared technical material for regulatory filings with FDA, Health Canada, and various other international regulatory agencies as needed
- Provided guidance to, and oversight of, contract manufacturing facilities
- Developed training and assessment policies, programs and tools for department training
- Provided guidance to the Talent Acquisition and management team, assisted with development of training tools to maximize employee job performance and quality
- Provided resources, consultation and partnership with human resources for external business partners
- Responsible for division performance assessment and best practice identification to drive quality and efficiency
- Responsible for ownership of divisional development processes
- Established and drove calendar for product development, division employee training and assessment

### **Senior Research Scientist, University of California, Irvine**

Department of Molecular Biology and Biophysics, University of California, Irvine.

July, 1992 – April 1996

- Water-soluble drug and nutrient transport system characterization in absorptive epithelia
- NIH/NIDDK Grant NS23209040
- Scientific article writing, presentations at the American Gastroenterology Association, FASEB, and others; Grants and publications review

### **Research Scientist, University of California, Irvine**

Department of Psychobiology, Laboratory of Cellular and Molecular Neurobiology, University of California, Irvine. Advisor: Dr. Ricardo Miledi.

September, 1996 – June, 1992

- Identification and characterization of novel pathophysiologic changes and biochemical pathways associated with wound healing; taught graduate and undergraduate classes in neurobiology and neurochemistry

### **Education:**

- Doctor of Philosophy (Ph.D.) in Biological Sciences (1992). Department of Psychobiology, University of California, Irvine. Dissertation title: "The effects of a factor associated with serum albumin on the growth and differentiation of mammalian cell lines." Emphasis: Cellular and molecular hematologic biochemistry. Advisor: Dr. Ricardo Miledi, M.D., F.R.S.
- Bachelor of Science (B.S.) in Genetics (1986). Department of Genetics, University of California, Davis.

### **Academic and Professional Memberships:**

- Member, Academic Senate Budget Committee, California State Polytechnic University, Pomona. (2015-Present)
- Deans Advisory Council, College of Natural Science and Mathematics, California State University, Fullerton. (2008-2014)
- National Professional Science Masters Association (National Board Member)
- Project Management Institute
- American Physiological Society
- American Chemistry Society
- American Academy for the Advancement of Science

### **US Patents:**

US7244418: Antimicrobial compositions and methods for preparing and using same Inventor(s):  
Dyer, David L., Cypress, CA

US6087400: Surfactant-based antimicrobial compositions and methods for using same Inventor(s):  
Dyer; David L., Cypress, CA

US6022549: Antimicrobial compositions  
Inventor(s): Dyer; David L., Cypress, CA

US6013677: Antimicrobial compositions

Inventor(s): Dyer; David L., Cypress, CA

### **US Patents, ctd.**

US5661170: Antimicrobial compositions and methods for using the same

Inventor(s): Chodosh; Daniel Frank, Meadowbrook, PA / Dyer; David L. Cypress, CA

US5994383: Surfactant-based antimicrobial compositions and methods for using the same Inventor(s):

Dyer; David L., Cypress, CA

US5968986: Antimicrobial compositions

Inventor(s): Dyer; David L., Cypress, CA

US5827870: Antimicrobial compositions and methods for using the same

Inventor(s): Chodosh; Daniel Frank, Meadowbrook, PA/ Dyer; David L. Cypress, CA

US8476218: Antimicrobial compositions and related methods.

Inventor(s): Dyer, David, Cypress, CA; Reubens, Jay, Boca Raton FL

### **Presentations and Workshops:**

1. Dyer, D.L., 2015. Graduate Program Curriculum Development: Guidelines and Processes. Honghe University Delegation Presentation, College of the Extended University, California State Polytechnic University, Pomona. (Presentation).
2. Dyer, D.L., 2015. Innovation in Graduate Curricula: Education Models of Professional Masters Degree Programs. Honghe University Delegation Presentation, College of the Extended University, California State Polytechnic University, Pomona. (Presentation).
3. Dyer, D.L., 2014. Biotech, Pharma and Medical Device Companies of California: Prospects for 2014-15. California State Polytechnic University, Pomona Faculty Address (Presentation).
4. Dyer, D.L. 2014. Professional Science Masters Programs and Modern Industry. National Professional Science Masters Association Western Regional Conference on "Workforce Challenges and Opportunities in the Agriculture Industries" (Presentation).
5. Dyer, D.L., 2014. Professional Science Masters Funding Models. 2014 National Professional Science Masters Association Western Regional Conference on "Workforce Challenges and Opportunities in the Agriculture Industries" (Presentation).
6. Dyer, D.L., Thomas, S. 2014. Professional Science Masters Funding Models. 2014. National Professional Science Masters Association National Convention (Presentation).
7. Dyer, D.L. 2013. Leadership roles and responsibilities for Professional Science Masters Programs. Annual National Board of Directors Meeting, Keck Graduate Institute. (Workshop).
8. Dyer, D.L. 2012. Setting up Professional Science Masters Programs. National Professional Science Masters Association National Convention (Presentation).
9. Dyer, D.L., 2011. Workforce Development and Professional Science Masters Programs. Southern California Biomedical Society. (Presentation).
10. Dyer, D.L. 2010. Industry Partnerships and Professional Science Masters Program Development. Professional Science Masters Symposium, California State University, Los Angeles.
11. Dyer, D.L. 2009. Campus Consortium Models for Applied Masters Training. Dean's Advisory Council Meeting, California State University, Fullerton. (Presentation).

12. Dyer, D.L. 2009. Professional Science Masters Training for the Biotechnology Workforce. 21<sup>st</sup> Annual CSUPERB Biotechnology Conference.
13. Dyer, D.L. 2008. Professional Science Masters Programs for the Regulatory Affairs Career Path. Orange County Regulatory Affairs Society. (Presentation).
14. Dyer, D.L. 2008. Professional Science Masters Education for Biotechnology Career Paths. CSUPERB Workshop on Career Path Development. 20<sup>th</sup> Annual CSUPERB Biotechnology Conference.

#### **Publications:**

1. Dyer, D.L. 2008. Case study models for team-based learning in biotechnology education. 20<sup>th</sup> Annual CSUPERB Biotechnology Conference.
2. White, C.G, Shinder, F.S. Shinder, A.L. and **Dyer, D.L.** 2001. Reduction of illness absenteeism in elementary schools using an alcohol-free instant hand sanitizer. *J. School Nurs.* 17(5): 258-265.
3. **Dyer, D. L.**, Shinder, A. Shinder, F. 2000. Alcohol-free instant hand sanitizer reduces elementary school illness absenteeism. *Fam. Med.* 32(9) 633-8.
4. **Dyer, D.L.** 2000. Handwashing: Problems and solutions Part 1. *Infection Control Today*, April 34-39.
5. **Dyer, D.L.** 2000. Handwashing: Problems and solutions Part 2. *Infection Control Today*, May 44.
6. Said, H. M. Ortiz, A. McCloud, E. **Dyer, D.** Moyer, M. P. Rubin, S. 1998. Biotin uptake by human colonic epithelial NCM460 cells: a carrier- mediated process shared with pantothenic acid. *Am. J. Physiology* 275(5) pt 1, C1365-1371.
7. **Dyer, D.L.**, Gerenraich, K.B., and Wadhams, P.S. 1998. Testing a new alcohol-free hand sanitizer to combat infection. *AORN Journal* 68: 239-251.
8. Nguyen T.T., **Dyer D.L.**, Dunning D.D., Rubin S.A., Grant K.E., Said HM. 1997. Human intestinal folate transport: cloning, expression, and distribution of complementary RNA. *Gastroenterology*, 112(3): 783-91.
9. Said H.M., Nguyen T.T., **Dyer D.L.**, Cowan K.H., Rubin S.A. 1996. Intestinal folate transport: identification of a cDNA involved in folate transport and the functional expression and distribution of its mRNA. *Biochim Biophys Acta*, 1281(2): 164-72.
10. Tigyi G., Fischer DJ, Sebok A., Marshall F., **Dyer D.L.**, Miledi R. 1996. Lysophosphatidic acid-induced neurite retraction in PC12 cells: neurite-protective effects of cyclic AMP signaling. *Journal of Neurochemistry*, 66(2): 549-58.
11. **Dyer, D.L.** and Said, H.M. 1995. Biotin uptake in cultured cells. *Methods in Enzymology*, volume 21.
12. **Dyer D.L.**, Said H.M. 1995. Riboflavin uptake by native *Xenopus laevis* oocytes. *Biochimica et Biophysica Acta*. 1234 (1):15-21.
13. **Dyer, D.L.**, Kanai, Y., Hediger, M.A. Rubin, S.A., and Said, H.M. 1994. Expression of a rabbit renal ascorbic acid transporter in *Xenopus laevis* oocytes. *American Journal of Physiology*, 267: C301C306.
14. Ma, T.Y., **Dyer, D.L.**, and Said, H.M. 1994. Human Intestinal cell line Caco-2: a useful model for studying cellular and molecular regulation of biotin uptake. *Biochimica et Biophysica Acta*, 1189: 81-88.
15. Tigyi, G., **Dyer, D.L.**, and Miledi, R. 1994. Lysophosphatidic acid possesses dual action in cell proliferation. *Proceedings of the National Academy of Sciences* 91: 1908-1912.

16. **Dyer, D.**, Tigyi, G., and Miledi, R. 1992. The effects of active serum albumin on PC12 cells: I. Neurite retraction and activation of the phosphoinositide second messenger system. Molecular Brain Research 14: 293-301.
17. **Dyer, D.**, Tigyi, G., and Miledi, R. 1992. The effects of active serum albumin on PC12 cells: II. Intracellular Ca<sup>2+</sup> transients and their role in neurite retraction. Molecular. Brain Research. 14: 302-309
18. Tigyi, G., **Dyer, D.**, Matute, C., and Miledi, R. 1990. A serum factor that activates the phosphatidylinositol-phosphate signaling system in Xenopus oocytes. Proceedings of the National Academy of Science, U.S.A. 87: 1521-1525.

#### **Clinical Research Publications (Involved in protocol preparation, data and publication overview)**

1. Wadhams, P.W., Griffith, J., Nikraves, P., and Chodosh, D. 1999. Efficacy of a surfactant, allantoin and benzalkonium chloride solution for onychomycosis; preliminary results of treatment with periodic debridement. Journal of the American Podiatric Medical Association, 89(3): 124-130.
2. Moad-Dab, A., Rupley, K., and Wadhams, P. 1999. Effectiveness of a surfactant allantoin and benzalkonium chloride solution versus an alcohol-based instant hand sanitizer formulation. Journal of the American Podiatric Medical Association. 91(6): 288-293.

#### **Church and Community Service**

2005-2008; 2012-2014 Elder, Bethany Christian Reformed Church, Bellflower CA

2005-2014 BSA Troop 611 Assistant Scoutmaster

2000-2005 BSA Pack 657 Cubmaster