

## CURRICULUM VITAE

### **Thomas Joseph Anchordoquy**

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### **EDUCATION**

- 1989 Ph.D. in Zoology, Univ. of Calif., Davis  
1988 M.A. in Zoology, Univ. of Calif., Davis  
1982 B.S. in Biology, Oregon State University

### **PROFESSIONAL EXPERIENCE**

- 2011- Professor with tenure, Department of Pharmaceutical Sciences,  
University of Colorado Health Sciences Center, Denver, CO.  
2009-2014 Assistant Director, Graduate Program in Pharmaceutical Sciences  
2008- Research Associate Professor, Department of Mechanical and Materials  
Engineering, University of Denver  
2005-11 Associate Professor with tenure, Department of Pharmaceutical Sciences,  
University of Colorado Health Sciences Center, Denver, CO.  
2005-08 Director, Graduate Program in Pharmaceutical Sciences  
1998-2004 Assistant Professor, Department of Pharmaceutical Sciences, University of  
Colorado Health Sciences Center, Denver, CO.  
1993,95-97 Research Associate, Dr. John Carpenter, School of Pharmacy,  
University of Colorado Health Sciences Center, Denver, CO.  
1991-95 Research Associate, Dr. Steve Hand, Dept. of EPO Biology,  
University of Colorado, Boulder, CO.  
1990 Visiting Lecturer, Dept. of Zoology, University of California, Davis, CA.  
1990 Research Associate, Dept. of Zoology, University of California, Davis, CA.  
1985-89 Graduate Research Assistant, Drs. J.H. and L.M. Crowe,  
Dept. of Zoology, University of California, Davis, CA.  
1982-85 Teacher of Mathematics Stephen Wise Middle School, Los Angeles, CA.

### **PATENT FILINGS**

- 2018 Betker JL, Angle BM, Graner MW, Anchordoquy TJ. "Functionalized Nanoparticle Formulations For Oral Drug Delivery". US PROV Patent App. No. 62/749,765, filed 10/24/2018. PCT Patent App. filed 10/24/19 No. PCT/US19/57898.

- 2017 Dow S, Lappin M, Wheat W, Chow L, Regan D, Anchordoquy T. "Compositions and Methods for Enhanced Innate Immunity" US Application Serial No. 15/476,723 and International Application Serial No. PCT/US17/25557, filed 3/31/17. International Publication # WO 2017/173371 A1 published 10-5-17.
- 2016 Betker JL, Anchordoquy TJ. "Lipoplexes Formulated for Catalytic Delivery" U.S. National Phase Patent Application No. 15/766,088 Based on PCT Application No. PCT/US16/55570. Published 10/11/18
- 2016 Anchordoquy TJ, Pacheco T, Tewari-Singh N, Agarwal R. "Topical Silibinin Formulations and Uses Therefor" Application No. PCT/US16/55201 filed 10/2/16. Chinese patent Application #201680070089.6, filed 6/8/16
- 2016 Anchordoquy TJ, Gottlieb PA, Michels A, Ostrov D. "Methods of Preventing and Treating Autoimmunity" International Application No. PCT/US2016034527 filed 5/27/16.
- 2013 Harrison G., Agarwal R., Anchordoquy T., Glode M., Pacheco T, Stahmer A. "Topical silibinin formulations and uses thereof". U.S. Patent Application No. 13/852,881
- 2011 Abrams, D, Bunch, R, Stevens, K, Anchordoquy T.J. "Central Administration of Stable Formulations of Therapeutic Agents for CNS Conditions" US Patent Application No. 13/051,950 filed 3/18/2011; Published 3/22/12 under #US 2012/0071432 A1.
- 2010 Abrams, D, Stevens, K, Anchordoquy T.J. "Methods and Compositions for the Intracerebroventricular Administration of Felbamate" US Patent Application No. 61/041,493; serial number 12/935,265 filed 9/28/2010
- 2008 Abrams, D, Bunch, R, Stevens, K, Anchordoquy T.J. "Central Administration of Stable Formulations of Therapeutic Agents for CNS Conditions" US Patent Application No. 12/180,373 filed 7/25/2008; Published 3/12/09 under # US-2009-0069267-A1.
- 2008 Abrams, D, Bunch, R, Stevens, K, Anchordoquy T.J. "Central Administration of Stable Formulations of Therapeutic Agents for CNS Conditions" US Patent Application No. 12/161,149 filed 7/16/2008; Published 8/20/09 under #US 2009-0209480 A1.
- 2008 Abrams, D, Bunch, R, Stevens, K, Anchordoquy T.J. "Central Administration of Stable Formulations of Therapeutic Agents for CNS Conditions" PCT Patent Application No. PCT/US2008/009109 filed 7/25/08, published 1/29/09 as WO 2009/014762.
- 2007 Abrams, D, Bunch, R, Stevens, K, Anchordoquy T.J. "Central Administration of Stable Formulations of Therapeutic Agents for CNS Conditions" PCT Patent Application No. PCT/US2007/01201 filed 1/17/07, published 7/26/07 as WO 2007/084541.

- 2004 Anchordoquy, T.J., Lengsfeld, C.S., Brinkley, K, Jones, R. "Methods and Apparatus Using Electrostatic Atomization to Form Liquid Vesicles" US Patent No. 7,914,714 B2 issued 3/29/11.
- 1999 Anchordoquy, T. and Allison, D. Provisional Patent Application, "Stabilized Nucleotide-Based Products", University Technology Corporation # 9072

## HONORS AND AWARDS

- 2009, 10, 18 Top Reviewer, *J. Pharm. Sci.*, American Pharmacists Association
- 2008-09 Excellence in Teaching Award, Pharmacy class of 2012
- 2008 Excellence Initiative in Pharmaceutical Technology and Biopharmacy, Ludwig Maximilian University, Munich, Germany
- 2003, 04 Outstanding Reviewer of *J. Pharm. Sci.*, American Pharmacists Association
- 2000-01 Excellence in Teaching Award, Pharmacy class of 2004

## PROFESSIONAL SERVICE

- 2020- NIH-NANO review panel, standing member
- 2019 NIH- Special Emphasis Panel for standing members of study sections
- 2019 NIH- Nanotherapeutics/Nanoparticles based cancer drug delivery/ interventions
- 2018 NIH-NANO panel review, ad hoc
- 2018- Advisory Board, *Sci*
- 2018 NIH Special Emphasis Panel. "Innovative Technologies to Deliver Genome Editing Machinery to Disease-relevant Cells and Tissues." UG3/UH3
- 2018 NIH Review Panel. "Platform Delivery Technology for Nucleic Acid Based Therapeutics." SBIR/STTR
- 2018 NIH - Social Solutions International's project with the National Institutes of Health (NIH)'s Center for Scientific Review (CSR)
- 2018- Editorial Board, *TechConnect Briefs*
- 2017 NIH-GDD panel review, ad hoc
- 2017 NIH-Pediatric Devices SBIR panel review, ad hoc
- 2017 External Reviewer, graduate program in Pharmaceutical Sciences, Texas Tech University Health Sciences Center, Amarillo, TX
- 2017- Editorial Board, *Pharmaceutics*
- 2016 Organizing Committee, Mechanisms and Barriers in Nanomedicine Workshop, Breckenridge, CO
- 2014- Symposium Chair/Co-Organizer, Materials for Gene and Drug Delivery. TechConnect/Nanotechnology Conference
- 2011-16 NIH-BMBI grant review, Permanent Member
- 2010-17 Organizing Committee, Freeze Drying of Pharmaceuticals and Biologicals Conference, Garmisch Partenkirchen, Germany and Breckenridge, CO
- 2009, 10 AAPS National Biotechnology Conference, Chair; abstract screening, Biotech section
- 2009- Editorial Board, *Therapeutic Delivery*
- 2009 NIH grant review panel, Biomaterials and Biointerfaces, ad hoc, 5/09, 9/09
- 2009 NIH-NCI grant review panel, Cancer Nanotechnology 7/09

- 2009 NIH-Challenge grant review panel 4, mail-in only
- 2009,10 Executive Committee, Biotech Section, AAPS
- 2005-10 Section Editor, *Biochimica et Biophysica Acta Biomembranes*
- 2004-06 AAPS Financial Committee
- 2004-07 Chair-elect, Chair, and past chair of AAPS Nucleic Acids Focus group.
- 2004 Chair, AAPS Program Review Team on Mentoring
- 2003 AAPS Strategic Visioning Program Review Team - Student Members
- 2003 Past Chair, AAPS Education Committee
- 2002 Organizer and moderator, graduate student outreach program, "A foot in the door", AAPS annual meeting, Toronto, Canada
- 2002-06 Editorial Board, *Cell Preservation Technology*
- 2002 Organizing Committee, Annual Meeting of the Cryobiology Society, Breckenridge, CO
- 2001- Editorial Board, *Journal of Pharmaceutical Sciences*
- 2001-02 Chairman, AAPS Educational Committee
- 2001-02 AAPS Program Coordination Committee
- 2001 Organizer and moderator, Macromolecular Drug Delivery Conference, Breckenridge, CO
- 2000 Organizer and moderator, graduate student outreach program, "Regulatory Affairs", AAPS annual meeting, Indianapolis, IN
- 2000-02 Editorial Board, *Journal of Pharmaceutical and Biomedical Analysis*
- 1999 Moderator, Educational Committee Graduate Student Roundtable, AAPS Annual Meeting, New Orleans, LA
- 1999 Moderator, Molecular Chaperones and Stability of Macromolecules in Solution sessions, Novel Approaches to the Stabilization of Biomaterials Workshop, Breckenridge, CO
- 1999- Editorial Board, *Current Pharmaceutical Biotechnology*
- 1999 Co-Organizer and Moderator, Stability and Analysis of Biopharmaceuticals Symposia, East and West Coast BioPharm Conferences, Boston, MA and San Francisco, CA
- 1999 Organizer and Moderator, Macromolecular Drug Delivery Conference, Breckenridge, CO
- 1999-00 AAPS Education Committee, Biotechnology representative
- 1998 Organizer and Moderator, AAPS Gene Delivery Symposium, AAPS Annual Meeting, San Francisco, CA
- 1998 Moderator and Speaker, Issues in the Formulation of Biopharmaceuticals, AAPS Biotechnology Short Course, AAPS Annual Meeting, San Francisco, CA
- 1997 Moderator, Small vs. Large Company Luncheon, AAPS Annual Meeting, Boston, MA
- 1996 Moderator, Symposium on Drug Delivery, Colorado Biopharmaceutical Conference, Breckenridge, CO

## **OTHER PROFESSIONAL ACTIVITIES**

- 2018-19 Expert Witness, Actelion Pharmaceuticals vs. Sun Pharmaceutical Industries Civil Action # 17-5015

- 2015 Expert Witness, Agila Specialties Inc. and Mylan Laboratories Limited vs. Cephalon, Inc. Case No. IPR2015-00503
- 2009 Introductory Compounding Laboratory Training, Professional Compounding Centers of America. 2-day course
- 2007 Expert Witness, Preliminary Injunction #CGC-06-450694. Protiva vs. Sirna
- 2007 Co-Founded Sierra Neuropharmaceuticals
- 2007 Co-Founded ProtechSure Inc.
- 2004 Expert Witness, Patent Interference #105219. Nektar vs. Quadrant

## GRANTS/FUNDING

2019-20 Formulation of Drugs for Intracerebroventricular Administration  
Cerebral Therapeutics \$80K

2019-20 Targeting the untargetable: gaining in vivo control of microglial activation through optimized Liposome delivered gene therapy ~ the next generation therapeutic for human clinical trials. CNS-Pilot Basic Research Team Awards (Multi-PI with L. Watkins)  
CCTSI, Center for Neuroscience \$75 K direct

2019 Equipment Supplement Anchordoquy, Graner (Multi-PI)  
NIH/NIGMS 3R01GM129046-02S1 \$79K

2018-2022 Exploiting an Endogenous Transcytotic Pathway Anchordoquy, Graner (Multi-PI)  
NIH/NIGMS RO1GM129046 \$320K/yr direct

2017 Unique Therapeutic Compounds for GSM (PI Nordeen)  
AIA – State of Colorado \$200K direct

2017-20 Nucleic Acid-Based Therapies for Blood-Borne Viruses (Multi-PI with Nagel)  
ALSAM Therapeutic Innovations \$250K/yr direct

2017-19 Using Exosomes to treat Muscular Dystrophy (PI Mallela)  
ADR - SSPPS \$50K

2015-16 Formulating Cystathionine  
CCTSI \$50K

2015-16 Improved formulations (with K. Maclean)  
BDEG TTO \$150K

2014-2015 Improving Vaccines (with S. Dow)  
CSU Innovation \$20K

2013-17 Tumor Homing Exosomes (Multi PI with Graner)  
NIH/NIBIB RO1 EB016378 \$250K/yr direct

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