

CURRICULUM VITAE

Thomas Joseph Anchordoquy

Skaggs School of Pharmacy and Pharmaceutical Sciences
University of Colorado Anschutz Medical Campus
12850 E. Montview Blvd.
Aurora, CO 80045
(303) 724-6113
e-mail: Tom.Anchordoquy@CUAnschutz.edu

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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