

## William Todd Penberthy, Ph. D.

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### SUMMARY

With a PhD in Biochemistry, I specialize in medical and scientific writing and communications with the past 7 years focused on medical writing for the biomedical and pharmaceutical industry (since 2012); I have over 16 years' experience in the scientific field.

I have been the principal writer for a variety of research topics and for studies across many therapeutic areas. These projects have included: interviews with key opinion leaders; medical technology directory reports; Needs Assessments; CME course development (including grant applications, Q&A with data accumulation and slide sets); professional manuscript, abstract and grant writing (federal and private funding); medical and scientific conference coverage; clinical overviews; and patient narratives.

As a researcher, I have established and directed drug discovery collaborations with industry, collaborated with clinicians and researchers, directed a core facility, mentored graduate students, and trained laboratory technicians. I have also been a panel member for drug development, been an invited speaker at research hospitals and at national/international meetings, taught college- and graduate-level courses, and have been an invited journal reviewer as well as primary author of scientifically reviewed manuscripts and textbook chapters for the medical community.

Therapeutic areas: Bone / Osteoporosis, Cardiovascular, CNS, Dermatology, Diabetes, Endocrinology, Hematology, Immunology, Inflammation, Metabolic Disease, Neurology, Oncology, Orthopedics, Respiratory, Rheumatology

Scientific research: Autoimmune Diseases, Biomarkers, Cardiovascular, CNS, Drug Discovery, Hematology, Immunology, Metabolism, Neurology, Nutrition, Oncology

### CAREER HISTORY

*From 2012 to Current: Principal writer*

*CMEScribe LLC*

Provide scientific and medical writing consulting services to clients.

- Medical technology directory reports: Comprehensive reviews focused on cutting edge medical technologies for practice, budgetary and policy decisions. Subscription only (see <https://www.hayesinc.com/hayes/publications/medical-technology-directory/>).
- CME course development, CME credit grant applications, Q&A with data accumulation, slide sets (PowerPoint, Keynote)
- Needs Assessments: diabetes, systemic lupus erythematosus, pediatric multiple sclerosis, schizophrenia, insomnia disorders, generalized tonic-clonic seizures, cystic fibrosis
- Textbook chapters:
  - Present Knowledge in Nutrition, Niacin and Biotin, 10<sup>th</sup> and 11<sup>th</sup> eds.; 2020 & 2012

- Biochemical, Physiological, and Molecular Aspects of Human Nutrition, Niacin, Riboflavin, and Thiamin, 3<sup>rd</sup> and 4<sup>th</sup> eds.; 2019 & 2012
- Professional manuscript, abstract, grant writing for both private and federal funding
- Conference coverage: AAP 2018; ADA 2018; WAC 2018 (AAAAI/WAO); ASM Microbe 2017; ENDO 2017; AAES 2017; HFS 2016; ITC 2015; World Congress on Breast Healthcare 2015; IBD 2020 (2014); ACP 2014; NAMCP 2014; SCAI 2013; CMSCACTRIMS 2013
- Physician clinical overviews: Raynaud's phenomena, B-cell lymphoma, Carcinoid, Desmoid tumors, Hyperleukocytosis in malignancy, Malignant brain tumors in children
- Patient narratives

*From 2009-2012, Research Professor, University of Central Florida, Orlando, FL*

*From 2004-2009, Research Professor, University of Cincinnati, Cincinnati, OH*

*From 1999 to 2003, Post-doctoral Fellow, UCLA (Los Angeles, CA) and Tufts University (Boston, MA)*

## **PROFESSIONAL ORGANIZATIONS**

- American Medical Writers Association (AMWA)
- American Association for the Advancement of Science (AAAS)
- Global Alliance of Publication Professionals (GAPP)

## **INVITED JOURNAL REVIEWER**

- Diabetes
- Developmental Dynamics
- Antiviral Research
- Journal of Nutrition
- Development
- Molecular Biology Reports
- PPAR Research
- Immunology Letters
- Brain Research Bulletin
- Nucleic Acid Research
- Mutation Research
- Schizophrenia Research

## **GRANTS & HONORS**

2010 Gates Award: Reawakening Retrocyclin as a Potential AIDS Therapeutic

2009 Invited speaker, Mayo Clinic Dept. of Anesthesiology, host Dr. Eduardo Nunes Chini

2009 Grant reviewer, National Science Foundation

2008 Invited speaker, 4th Annual Metabolic Diseases World Summit, Boston, MA.

2008 Invited participant, Case Western Univ. School of Medicine, Transdisciplinary Research on Energetics and Cancer (TREC)

2008 Invited Participant Discussion: PARP-1 Inhibitors for Glioma, Breast, & Ovarian Cancer

2005 R21. Secondhand Smoke and Cardiovascular Disease in Zebrafish, R21ES01817

2008 Executive Editor, Current Pharmaceutical Design: Nicotinamide Adenine Dinucleotide Biology and Disease

2008 Nominated Honorary Editorial Board of The Journal of International Tryptophan Research

2007 Nominated to Marquis Who's Who in America

2004-2007 Biomedical Research Technology Transfer Award BRTT. \$120,000/yr

2004-2007 Genome Science Millennium Fund

2000-2003 F32, Individual National Research Service Award. Neuronal and Hematopoietic Gene Regulation of GATA-2. NIH F32HD401940.

1999-2000 Post-doctoral Training Grant. Pathobiology of Digestive Diseases. NIH NIDDK DK07542.

## PRESENTATIONS & MEETINGS

- Invited presentation, Mayo Clinic, May 2009, "NAD-Centric Pharmacologic Approaches & Obesity/COPD Animal Modeling Using Zebrafish"
- Invited presentation and Travel Award, 4<sup>th</sup> Annual Metabolic Diseases World Summit, Boston, MA 2008: "A high throughput live transparent animal bioassay to identify non-toxic small molecules or genes that regulate vertebrate fat metabolism for obesity drug development"
- Invited panelist, PARP-1 inhibitors for use in melanoma, ovarian cancer, and glioma; Panel Intelligence, LLC
- Invited speaker, Case Western TREC Retreat 2008, "NAD Pharmacotherapeutics: Zebrafish-based Small Molecule Studies of Lipid Metabolism with Implications for Cancer and Multiple Sclerosis"
- Invited presentation and Travel Award, PARP 2008, Tucson, AZ
- Invited speaker, Dept. of Human Nutrition at Ohio State University: "The Zebrafish Genetic Model Organism for Studying Nutrient Function," Oct. 2007, Columbus, OH
- Third Annual Ohio Valley Affiliates for Life Sciences, March 7-8, 2007
- Jones, Kevin S., W. Todd Penberthy. 2006. Poster: "NAD Precursors Prevent Chemically-Elicited Neurodegeneration in Zebrafish Larvae." East Coast PARP Meeting 2006, Quebec City, Quebec, Canada.
- 7th International Conference on Zebrafish Development and Genetics, June 14-16, 2006, Madison, WI
- Lin, Shuo and W. Todd Penberthy. 2005. Poster: "Whole-animal Chromatin Immunoprecipitation Using Zebrafish Embryos". Strategic Conference of Zebrafish Investigators. Principle investigators only and by invitation, Bar Harbor, ME
- W. Todd Penberthy, Jason R. Jessen, Zhongan Yang, & Shuo Lin. 2002. Oral Presentation: "A Role for BarH1 in the Regulation of GATA-2 Neural Expression". The 6<sup>th</sup> International Conference on Zebrafish Development and Genetics, Madison, WI

**SELECTED PUBLICATIONS (from 2009 to present, only)**

Penberthy, W. Todd and James B. Kirkland. Niacin (2020) in Present Knowledge in Nutrition. 11<sup>th</sup> ed., Elsevier, St. Louis, Mo. Edited by Diane Birt and Allison Worden.

Penberthy, W. Todd, Mahrou Sadri and Janos Zempleni. Biotin (2020) in Present Knowledge in Nutrition. 11<sup>th</sup> ed., Elsevier, St. Louis, Mo. Edited by Diane Birt and Allison Worden.

Penberthy, W. Todd. Niacin, Riboflavin, and Thiamine (2019) in Biochemical, Physiological, and Molecular Aspects of Human Nutrition. 4<sup>th</sup> ed., Elsevier, St. Louis, Mo. Edited by Marie A. Caudill and Martha H. Stipanuk.

Hu, L, K. Ibrahim, M. Stucki, M. Frapolli, N. Shahbeck, F. A. Chaudhry, B. Gorg, D. Haussinger, W. Todd Penberthy, T. Ben-Omran, and J. Haberle (2015). Secondary NAD<sup>+</sup> Deficiency in the Inherited Defect of Glutamine Synthase. *Journal of Inherited Metabolic Disease*. 38(6):1075-83.

W. Todd Penberthy & Robert Smith (2015). The Vitamin Cure for Arthritis. A book for laypersons about nutritional approaches to treating arthritis. p1-237.

Penberthy, W. Todd and James B. Kirkland. Niacin (2012) in Present Knowledge in Nutrition. 10<sup>th</sup> ed., Elsevier, St. Louis, Mo. Edited by Diane Birt.

Penberthy, W. Todd. Niacin, Riboflavin, and Thiamine (2012) in Biochemical, Physiological, and Molecular Aspects of Human Nutrition. 3<sup>rd</sup> ed., Elsevier, St. Louis, Mo. Edited by John W. Erdman and Ian Macdonald.

Penberthy, W. Todd, Soumya C. Chari, Amy Cole, Alexander Cole (2010). Retrocyclins and Activity against HIV-1. *Cellular and Molecular Life Sciences* 68(13): 2231-2242.

Babak Baban, W. Todd Penberthy & Mahmood S. Mozaffari (2010). The Potential Role of Indoleamine 2,3 Dioxygenase (IDO) as a Predictive and Therapeutic Target for Diabetes Treatment: a Mythical Truth; *EPMA Journal* 1:46-55.

Penberthy, W. Todd (2009). Nicotinic Acid-Mediated Activation of Both Membrane and Nuclear Receptors Towards Therapeutic Glucocorticoid Mimetics for Potential Treatment of Multiple Sclerosis; *PPAR Research* 853707-.

Penberthy, W. Todd (guest executive editor) *Current Pharmaceutical Design*, 2009. Developed theme, coordinated authors / reviewers, and provided oversight to completion. Theme: NAD Biology in Disease.

Penberthy, W. Todd & Tsunoda, I. (2009). The Importance of NAD in Multiple Sclerosis. *Current Pharmaceutical Design*. 2009; 15(1): 64-99.

Penberthy, W. Todd (2009). Nicotinamide Biology and Disease. *Current Pharmaceutical Design*;15(1): 1-2.

**REFERENCES FURNISHED UPON REQUEST**