BIOGRAPHICAL SKETCH

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NAME: Bruce A. Barshop, M.D., Ph.D.

eRA COMMONS USER NAME (credential, e.g., agency login): bbarshop

POSITION TITLE: Professor

EDUCATION/TRAINING *(Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable. Add/delete rows as necessary.)*

INSTITUTION AND LOCATION	DEGREE *(if applicable)*	YEAR(s)	FIELD OF STUDY
Brandeis University, Waltham, MA	A.B.	1976	Biochemistry
Washington University, St. Louis, MO	M.D.	1984	Medicine
Washington University, St. Louis, MO	Ph.D.	1984	Molecular Biology

A. Personal Statement

A major focus of my career has been in diagnosis, management and treatment of rare diseases, especially neurologic disorders resulting from metabolic disease. This includes cerebral creatine deficiency syndromes. I am on the medical advisory board of the Association for Creatine Deficiencies. My background is in metabolic regulation and control, and I direct the William L. Nyhan Biochemical Genetics and Metabolomics Laboratory at UCSD, a CLIA-compliant, CAP-certified facility which processes large numbers of clinical samples, and my laboratory has focused on large-scale quantitative clinical metabolomic measurements, chemometrics and numerical modeling. I have served on the CAP-ACMG Genetics Resource Committee charged with designing and evaluating proficiency testing in Biochemical Genetics. I am clinically active in the practice of Biochemical Genetics and am Clinical Chief of Genetics at Rady Children's Hospital San Diego. I have experience in clinical trials and have been involved in many investigator-initiated and sponsored studies.

B. Positions and Honors.

PROFESSIONAL EXPERIENCE

1984-1986: Intern and Resident in Pediatrics (PL-1,-2), University of California San Diego
1986-1988: Clinical Fellow, Human Genetics, Department of Pediatrics, UCSD: Dr. William Nyhan.
1988-1990: Research Fellow, Department of Medicine, UCSD: Dr. J. Seegmiller.
1990-1991: Assistant Research Scientist, Department of Pediatrics, UCSD
1991-1992: Senior Resident in Pediatrics (PL-3), UCSD
1992-1998: Assistant Professor in Residence, Department of Pediatrics, UCSD
1998-2004: Associate Clinical Professor, Department of Pediatrics, UCSD
2004-: Professor of Clinical Pediatrics, Department of Pediatrics, UCSD

HONORS AND AWARDS

High honors in Biochemistry, Brandeis University (1976); Aaron B. Chausmer Prize in Biomedical Computing, National Student Research Forum (1982); Outstanding Resident Teaching Award, UCSD Department of Pediatrics (1992); Best Doctors in America (2003-2011). Benard L. Maas Chair in Inherited Metabolic Disease, UCSD (2007-present). Co-chair, session on Metabolic Diseases, 2014 meeting of the American Society of Human Genetics. Opening talk at the 2014 SIMD meeting on "Metabolomic Approaches to Metabolic Testing."

SERVICE APPOINTMENTS

Director, Biochemical Genetics Laboratory, Department of Pediatrics, UCSD (1994-); Assistant Director, UCSD Pediatric Pharmacology Research Unit (1996-2003); Chair, UCSD Clinical Research Center Advisory Committee (1997-2001); Research Safety Advisor, UCSD General Clinical Research Center (2001-2010); Chief Medical Consultant, California Newborn Screening, Region V (2002-present)

REGIONAL, NATIONAL AND INTERNATIONAL COMMITTEE SERVICE

Board of Directors, Society for Inherited Metabolic Diseases (2000-); Steering Committee, Mitochondrial Medicine Society (2001-3); Advisory Committee, Expanded Newborn Screening Project, California