

**JAMES ALEXANDER BRALLEY Ph.D.**

**CURRICULUM VITAE**

**Personal Information:**

Birth: October 2, 1952, Abington, Pennsylvania, U.S.A.  
Citizenship: U.S.A.  
Marital Status: Married, three children  
Home address: 835 Timberneck Point  
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Professional address: MetaMetrix, Inc.  
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**Education:**

Undergraduate: Bachelor of Science in Biology – University of Illinois, Urbana, Illinois. 1975

Graduate: Doctor of Philosophy, Medical Sciences – University of Florida, Gainesville, Florida, College of Medicine, Department of Neuroscience. 1980  
Thesis: Physiological Response Changes in the Dentate Gyrus Following Chronic Ethanol Consumption.

**Professional Licenses and Certifications:**

Clinical Laboratory Director License – Certification, Georgia Department of Human Resources, Office of Regulatory Services. 1986 – present.  
Certified Clinical Nutritionist – Clinical Nutrition Certification Board, International and American Association of Clinical Nutritionists. 1991 – present.  
Certified Dietitian-Nutritionist – Education Department, State of New York, 1996 – present.

**Professional Memberships:**

American Association of Clinical Chemistry  
American Association for the Advancement of Science  
International and American Association of Clinical Nutritionists  
International College of Applied Nutrition  
New York Academy of Sciences

**Professional Appointments:**

Consultant to Georgia Tech Athletic Association, Center for Sports Performance, Nutrition Division. 1992 – 1997.

Editorial Review Board – Alternative Medicine Review. 1995 – present.

Board of Directors, Clinical Nutrition Certification Board, 1997 – 2002.

Editorial Review Board – Integrative Medicine. 2002 – present.

Board of Directors, Health Freedom Foundation, 2002 – present.

### **Professional Activities:**

2001 – 2003	Managing Member, Horizon Molecular Medicine, LLC.
1984 – present	C.E.O. MetaMetrix, Inc.
1986 – present	Laboratory Director – MetaMetrix Clinical Laboratory
1998 – 1999	Hosted weekly radio program – “Nutritional Medicine Update” WNIV Atlanta.
1997 – 2004	Board of Directors – NuBasX Nutritional Medical Clinics, LLC.
1994 – 1997	Board of Directors – Ergogenic and Metabolic Consulting Services, LP.
1983 – 1984	Director – Nutrition Testing and Consultation, HealthChem Assessment Center, Atlanta, Georgia
1982 – 1983	Director – Nutrition Services, Douglass Medical Clinic, Atlanta, Georgia
1981 – 1982	Nutrition Consultant – Logos Holistic Health Center, Atlanta, Georgia
1980 – 1981	Lecturer/Seminar Leader, Continuing Education Programs for Healthcare Professionals, Florida Health Institute, Gainesville, Florida

### **Invited Lecture Engagements:**

American College for the Advancement of Medicine, Dallas, October 30, 1992. “Serum Lipid Peroxide Measurements as a Screening Tool for Oxidative Stress, Clinical Applications”

First International Symposium on Functional Medicine, Maui, Hawaii, April 10, 1993. “An Overview of Laboratory Assessment Techniques for Functional Medicine”

American Academy of Environmental Medicine, 31<sup>st</sup> Annual Meeting, Boston, October 13, 1996.  
“Recent Advances in Laboratory Analysis for the Diagnosis and Treatment of Environmentally Triggered Illnesses”

International and American Association of Clinical Nutritionists, Texas Chapter Annual Meeting, Dallas, May 7, 1997. “Laboratory Evaluations for Toxic Factors Affecting Nutritional Status”

Psychological Sciences Institute – Annual Meeting on Childhood Behavioral Disorders. Atlanta, July 1997. “Nutritional Assessment and Treatment of Attention Deficit and Hyperactivity Disorders”

Interstitial Cystitis Support Group, Atlanta Chapter. May 1998. “Nutritional Evaluations and Treatments which Can Affect Symptoms of IC”

Southwest Naturopathic College. Clinical Laboratory Seminar. Phoenix, July, 1998. “Clinical Applications of Organic Acid Profiling”

International and American Association of Clinical Nutritionists, 7<sup>th</sup> Annual Meeting, San Diego, August 18, 1998. “Metabolic Function Testing for Treatment of Cognitive Disorders”

Advances in Patient Care Through Nutritional and Metabolic Testing: Symposium Orlando, June 24, 2000. “Application of organic acid and amino acid profiling combined with IgG food antibody assays to the development of patient centered treatment protocols”

Designs for Health Institute Symposium, Clearwater, FL, February 2003. The Clinical Applications of Metabolic Testing.

Institute for Functional Medicine 10<sup>th</sup> Annual Symposium: Heart on Fire: Modifiable risk factors beyond cholesterol. Tucson, AZ, May 2003. “Comprehensive risk factor assessment in the clinical practice: ADMA and others.

Boulderfest 2003 Symposium, Boulder, CO, July 2003. “Clinical case histories involving metabolic testing.”

Diplomate in Advanced Nutritional Laboratory Assessment (DANLA – 2003), Phoenix, Chicago, Atlanta.

International and American Association of Clinical Nutrition – Annual Meeting, New Orleans, August 2004. “Laboratory Assessment of Nutritional and Metabolic Needs in Developmental Disorders - Part I & II

ACA Council on Nutrition Annual Meeting, Dallas, TX, April 2005. “Functional Nutritional Assessment Using Urinary Organic Acid Analysis.”

International College of Integrative Medicine - Annual Meeting, Atlanta, GA, March 2006. “Applying Organic Acid Analysis in the Clinical Practice.”

Fellowship in Anti-Aging and Regenerative Medicine Training Course: Module VIII.  
“Clinical Laboratory Evaluations Used in Functional Medicine” 8 CME contact hours.  
Annual A4M Meeting, Las Vegas, NV, December 2008.

**Publications:**

- Bralley, JA. Transcendental meditation and hypertension. *Lancet*, 1(8011): 604-5 (1977).
- Bralley, JA. Clinical applications of amino acid analysis. *Townsend Letter for Doctors* August 1989. Port Townsend, WA.
- Bralley, JA & Lord, RS. Treatment of chronic fatigue syndrome with specific amino acid supplementation. *J. Applied Nutr.* 46(3):74-78 (1994).
- Bland, JS & Bralley, JA. Nutritional upregulation of hepatic detoxification enzymes. *J. Applied Nutr.* 44:2-15 (1992).
- Rigdon, S, Bralley, JA & Bland, JS. Management of chronic fatigue symptoms by a tailored nutritional intervention, using a program designed to support hepatic detoxification. Institute for Functional Medicine, Internal Publication. 1993.
- Lord, RS & Bralley, JA. Fatty acid profiling. In *Textbook of Natural Medicine, 2<sup>nd</sup> ed.*, Pizzorno & Murray, Eds. p.135-142. Churchill Livingstone, London, 1999.
- Bralley, JA & Lord, RS. Urinary organic acid profiling for assessment of functional nutrient deficiencies, gut dysbiosis, and toxicity. . In *Textbook of Natural Medicine, 2<sup>nd</sup> ed.*, Pizzorno & Murray, Eds. p.229-238. Churchill Livingstone, London, 1999.
- Verdon, CP, Pollock, TA & Bralley, JA. Urinary porphyrins for the detection of heavy metal and toxic chemical exposure. . In *Textbook of Natural Medicine, 2<sup>nd</sup> ed.*, Pizzorno & Murray, Eds. p.239-244. Churchill Livingstone, London, 1999.
- Sills, ES, Genton, MG, Perloe, M, Schattman, GL, Bralley, JA, Tucker, MJ. Plasma homocysteine, fasting insulin, and androgen patterns among women with polycystic ovaries and infertility. *J Obstet Gynaecol Res.* 27(3): p. 163-8 (2001).
- Bralley, JA & Lord, RS. *Laboratory Evaluations in Molecular Medicine: Nutrients, Toxicants and Metabolic Controls*. Institute for Advances in Molecular Medicine, Atlanta. 2001.
- Lord, RS, Bongiovanni, B, Bralley, JA. Estrogen Metabolism and the Diet-Cancer Connection: Rationale for Assessing the Ratio of Urinary Hydroxylated Estrogen Metabolites. *Alt. Med. Rev.* 7(2):112-129 (2002).
- Lord, RS, Bralley, JA. Polyunsaturated Fatty Acid-induced Antioxidant Insufficiency. *Integrative Med.* 1(1):38-44 (2002).
- Lord, RS, Burdette, CK, Bralley, JA. Urinary Markers of Yeast Overgrowth. *Integrative Med.* 3(5):24-29 (2004).

- Lord, RS, Burdette, CK, Bralley, JA. Significance of Urinary Tartaric Acid. *Clin. Chem.* 51(3):672-3 (2005).
- Rudra CB, Qiu C, David RM, Bralley JA, Walsh SW, Williams MA. A prospective study of early-pregnancy plasma malondialdehyde concentration and risk of preeclampsia. *Clin Biochem.* 2006 Jul;39(7):722-6. Epub 2006 Apr 5.
- Qiu C, Sanchez SE, Larrabure G, David R, Bralley JA, Williams MA. Erythrocyte omega-3 and omega-6 polyunsaturated fatty acids and preeclampsia risk in Peruvian women. *Arch Gynecol Obstet.* 2006 May;274(2):97-103. Epub 2006 Mar 7.
- Bishop, MJ, Crow, BS, Kovalcik, KD, George, J, Bralley, JA. Quantification of urinary zwitterionic organic acids using weak-anion exchange chromatography with tandem MS detection. *J Chromatogr B Analyt Technol Biomed Life Sci.* 848(2): 303-10 (2007).
- Norton D, Crow B, Bishop M, Kovalcik K, George J, Bralley JA. High performance liquid chromatography-tandem mass spectrometry (HPLC/MS/MS) assay for chiral separation of lactic acid enantiomers in urine using a teicoplanin based stationary phase. *J Chromatogr B Analyt Technol Biomed Life Sci.* 850(1-2):190-8 (2007).
- Bishop MJ, Crow B, Norton D, Kovalcik K, George J, Bralley JA. A simple and selective method for the measurement of leucine and isoleucine from plasma using electrospray ionization tandem mass spectrometry. *Rapid Commun Mass Spectrom.* 21(12):1920-4 (2007).
- Bishop MJ, Crow B, Norton D, Paliakov E, George J, Bralley JA. Direct analysis of un-derivatized asymmetric dimethylarginine (ADMA) and L-arginine from plasma using mixed-mode ion-exchange liquid chromatography-tandem mass spectrometry. *J Chromatogr B Analyt Technol Biomed Life Sci.* 859(2):164-9(2007).
- Crow B, Bishop M, Kovalcik K, Norton D, George J, Bralley JA. A simple and cost effective method for the quantification of 8-hydroxy-2'-deoxyguanosine from urine using liquid chromatography tandem mass spectrometry. *Biomed Chromatogr.* 22(4):394-401(2008).
- Lord, RS & Bralley, JA. (Ed.) *Laboratory Evaluations for Integrative and Functional Medicine.* 2<sup>nd</sup> Edition 672 pp. Metametrix Institute, Atlanta. 2008.
- Crow B, Bishop M, Paliakov E, Norton D, George J, Bralley JA. Analysis of urinary aromatic acids by liquid chromatography tandem mass spectrometry. *Biomed Chromatogr.* 2008 Dec;22(12):1346-53.
- Chirinos JA, David R, Bralley JA, Zea-Díaz H, Muñoz-Atahualpa E, Corrales-Medina F, Cuba-Bustanza C, Chirinos-Pacheco J, Medina-Lezama J. Endogenous nitric oxide synthase inhibitors, arterial hemodynamics, and subclinical vascular disease: the PREVENCIÓN Study. *Hypertension.* 2008 Dec;52(6):1051-9. Epub 2008 Oct 13.
- Lord RS, Bralley JA. Clinical applications of urinary organic acids. Part I: Detoxification markers. *Altern Med Rev.* 2008 Sep;13(3):205-15.

Zhang C, Qiu C, Hu FB, David RM, van Dam RM, Bralley JA, Williams MA. Maternal plasma 25-hydroxyvitamin d concentrations and the risk for gestational diabetes mellitus. *PLoS ONE*. 2008;3(11):e3753. Epub 2008 Nov 18.

Paliakov EM, Crow BS, Bishop MJ, Norton D, George J, Bralley JA. Rapid quantitative determination of fat-soluble vitamins and coenzyme Q-10 in human serum by reversed phase ultra-high pressure liquid chromatography with UV detection. *J Chromatogr B Analyt Technol Biomed Life Sci*. 2008 Nov 14. [Epub ahead of print]