Curriculum Vitae

Nathan S. Bryan, Ph.D.

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24 pages

drnathanbryan@gmail.com

Date of Birth: November 26, 1973

U.S. Citizen

ACADEMIC EDUCATION

The University of Texas at Austin

Jan 1994 – May 1997

Bachelor of Science in Biochemistry

Mentor: Jon Robertus, Ph.D.

Undergraduate research in protein purification and over-expression in bacteria

LSU School of Medicine in Shreveport

Aug 2000 - July 2004

Doctor of Philosophy

Department of Molecular and Cellular Physiology

Mentor/Advisor: Martin Feelisch, Ph.D.

Dissertation topic: Formation and physiological significance of blood and tissue

nitros(yl)ation products.

Boston University School of Medicine Whitaker Cardiovascular Institute Department of Medicine

July 2004 – May 2006

Ruth L. Kirschstein Post-doctoral fellow

The role of nitrite as a biologically active molecule in physiology

PROFESSIONAL POSITIONS

Graduate Asst. (08/00-05/01) LSUHSC, Dept of Molecular &

Cellular Physiology, Shreveport, LA

Doctoral Candidate (05/01-05/04) LSUHSC, Dept of Molecular &

Cellular Physiology, Shreveport, LA

Kirschstein Fellow	(06/04-05/06)	Boston University School of Medicine, Whitaker Cardiovascular Institute; Department of Medicine
Instructor	(06/06-05/07)	The University of Texas Health Science Center at Houston, Institute of Molecular Medicine
Asst. Professor	(05/07- 08/14)	The University of Texas Health Science Center at Houston, Institute of Molecular Medicine
Adjunct Professor	(10/14 – Present)	Baylor College of Medicine Department of Molecular and Human Genetics
Founder, Inventor & Shareholder	(02/10 - Present)	HumanN, Inc. (formerly Neogenis Labs)

PROFESSIONAL ORGANIZATIONS

Society for Free Radical Biology and Medicine American Physiological Society Nitric Oxide Society – Secretary/Treasurer 2016 - 2018 American Heart Association American Association for the Advancement of Science (AAAS) American Diabetes Association American College of Nutrition

HONORS/AWARDS

LSU Health Sciences Center Graduate School Dean's Award for Excellence in Graduate Studies - May 2005
Travel Award – Sept 2007 International Nitrite Meeting
Young Investigator Research Accomplishment Award – Presented by Dr. James T.
Willerson - UTHSC Houston Sept 2007
UTHealth Star Award – Feb 2012

EDITORIAL POSITIONS

Journals

Journal of Geriatric Cardiology – Associate Editor Alternative Therapies in Health and Medicine – Associate Editor

AD HOC PEER REVIEWER

Nitric Oxide Journal
Journal for Free Radical Biology and Medicine
The Federation of the American Societies of Experimental Biology
British Heart Journal
British Journal of Sports Medicine
Clinical Nutrition Journal
Nutrient Journal
European Journal of Nutrition
American Journal of Clinical Nutrition
Journal of Pediatric Biochemistry
Circulation

NATIONAL GRANT REVIEW PANELS/STUDY SECTIONS

AD HOC REVIEWER

National Heart Lung and Blood Program Project Review Committee
National Heart Lung and Blood Program Clinical Trials Review Committee
Biomedical and Therapeutic Research Committee – Scotland
British Heart Foundation
Biotechnology and Biological Sciences Research Council – United Kingdom
American Institute of Biological Sciences

SERVICE ON UTHEALTH COMMITTEES

The University of Texas – Houston Animal Welfare Committee (2007 – 2010)

UT Houston Institute of Molecular Medicine Vivarium Subcommittee (2006 – 2014)

UT Houston Institute of Molecular Medicine Facilities Council (2007 – 2014)

UT Houston Medical School – Medical Student Interviewer (2010 – 2014)

UT Houston Medical School Admissions Committee (2011 – 2014)

Graduate School of Biomedical Sciences

Associate Faculty Member

Ph.D. Thesis Advisory Committee – Prasad Phatarpekar UT Graduate School of Biomedical Sciences

M.D. Ph.D. Thesis Advisory Committee – Henry Wu UT Graduate School of Biomedical Sciences

Ph.D. Advisory Committee – Richard Lions, DO Texas Childrens Hospital, Baylor College of Medicine

SERVICE TO THE COMMUNITY

Head Coach – Cy-Fair Sports Organization 9-10 year old JV football (2008)
Member Holy Family Catholic Church – Lexington Texas
Houston Community College Biotechnology Advisory Committee
Houston Community College Curriculum Advisory Committee
Lexington ISD Athletic Facility Fund Raising Committee - President
Lexington Independent School District – Facilities Committee (2016-Present)

SPONSORSHIP OF CANDIDATES FOR POSTDOCTORAL FELLOWS

Yaoping Tang, M.D. – November 2007 – September 2010 Currently Vice Chairman of the Cardiovascular Center of Ruikang Hospital – Nanning China

TEACHING EXPERIENCE

LSU Health Sciences Center, Medical Physiology Course for Allied Health

Professionals: 2002 (8 lectures to 200 students)

Patient Oriented Problem Solving courses in Pharmacology to Medical Students,

LSUHSC: 2003 (20 lectures to 30 students)

Graduate Course in Cell Signaling: Department of Integrative Biology and

Pharmacology, UTHSC Houston; Spring 2007-present (5 lectures to 10 students)

Weekly lab meetings (1.5 hours, 3 staff members)

Instructional teaching/mentoring in laboratory research – personal communications (5

hours per weeks to 3 staff members and TCH physician)

GRANT SUPPORT

1) Ruth L.Kirschstein National Research Service Award (5 T32 HL07224-27)

06/01/04-05/31/06

\$80,000

Whitaker Cardiovascular Institute

Boston University School of Medicine

"The role of nitrite as a biologically active molecule in physiology"

2) Start-up funds 06/01/06 Institute of Molecular Medicine \$150,000

The University of Texas Health Sciences Center at Houston

"Nitrite signaling and cGMP formation"

3) National Scientist Development Grant – American Heart Association

Principal Investigator 07/01/2007-06/30/2011

\$260,000

0735042N - Supplemental Nitrite Restores NO Homeostasis and Enhances Cardiovascular Health

4) National Institutes of Health (NIH) Health Disparities Loan Repayment Program

Principal Investigator 10/01/08 – 9/30/11

\$60,000

5) SAJE Pharmaceuticals 11/01/2008-06/30/2009

Principal Investigator \$3500

Preclinical Studies of GSNOR inhibitors in Mice

6) Texas A&M University 11/08/2008-12/01/2009

Principal Investigator \$21,600

A National Survey of the Nitrite/ Nitrate Concentrations in Cured Meat Products and Non-meat Foods Available at Retail

7) National Institute of Health Transformative R01 (Co-Principal Investigator)

Arginosuccinate Lyase is an essential regulator of NO production

09/01/2009 - 08/31/2014

Subcontract: \$500,000

8.) NeoGenis Laboratories, Inc. 05/01/2010-09/30/2011

Principal Investigator \$75,000

Development of nitric oxide based nutraceuticals

9) Forest Research, Inc 06/01/2011-12/31/2013

Principal Investigator \$150,000

Inhibitory Activity of S-Nitrosoglutathione Reductase by Nebivolol: Novel Pathway for Modulating NO Signaling.

10) National Institutes of Health – National Center for Complementary and Integrative Health 10/01/2016-09/30/2017

Principal Investigator \$150,000

The Effects of a Nitric Oxide Generating Lozenge on Peripheral Artery Disease

SCIENTIFIC PUBLICATIONS

ORIGINAL RESEARCH ARTICLES

- [1] Joshi MS, Ferguson TB, Han TH, Hyduke DR, Liao JC, Rassaf T, *Bryan N*, Feelisch M, Lancaster JR Jr. Nitric oxide is consumed, rather than conserved, by reaction with oxyhemoglobin under physiological conditions.

 Proc Natl Acad Sci USA. 2002 Aug 6;99(16):10341-6
- [2] Feelisch M, Rassaf T, Mnaimneh S, Singh N, *Bryan, NS*, JourdHeuil D, Kelm M. Concomitant S-,N-, and heme nitros(yl)ation in biological tissues and fluids: implications for the fate of NO in vivo. FASEB J. 2002 Nov;16(13):1775-85.
- [3] Rassaf T, *Bryan NS*, Kelm M, Feelisch M. Concomitant presence of N-nitroso and S-nitroso proteins in human plasma.

 Free Radic Biol Med. 2002 Dec 1;33(11):1590-6.
- [4] Rodriguez J, Maloney RE, Rassaf T, *Bryan NS*, Feelisch M. Chemical nature of nitric oxide storage forms in rat vascular tissue. Proc Natl Acad Sci USA. 2003 Jan 7;100(1):336-41.
- [5] Rassaf T, *Bryan NS*, Maloney RE, Specian V, Kelm M, Kalyananraman B, Rodriguez J, Feelisch M. NO adducts in mammalian red blood cells: too much or too little? Nat Med. 2003 May;9(5):481-3.
- [6] Kleinbongard P, Dejam A, Lauer T, Rassaf T, Schindler A, Picker O, Scheeren T, Godecke A, Schrader J, Schulz R, Heusch G, Schaub GA, *Bryan NS*, Feelisch M, Kelm M. Plasma nitrite reflects constitutive nitric oxide synthase activity in mammals
 Free Radic Biol Med. 2003 Oct 1;35(7):790-6.
- [7] **Bryan NS**, Rassaf T, Rodriguez C, Maloney R, Saijo F, Rodriguez J, Feelisch M. Cellular targets and mechanisms of nitros(yl)ation: A first insight into their nature and kinetics in vivo Proc Natl Acad Sci USA 2004 March 23;(101);4308-4313.
- [8] Bryan NS, Rassaf T, Rodriguez J, Feelisch M. Bound NO in human red blood cells: fact or artifact? Nitric Oxide. 2004 Jun:10(4):221-8.
- [9] Tao L, Gao E, *Bryan NS*, Ou Y, Liu HR, Hu A, Christopher TA, Lopez BL, Yodio J, Koch WJ, Feelisch M, Ma XL. Cardioprotective effects of thioredoxin in Myocardial ischemia and reperfusion: the role of S-nitrosation. Proc Natl Acad Sci USA 2004 Aug 3:101(31):11471-6.
- [10] Janero DR, *Bryan NS*, Saijo F, Dhawan V, Schwalb, DJ, Warren MC, Feelisch M. Differential nitros(yl)ation of blood and tissue constituents during glyceryl trinitrate biotransformation in vivo.
 Proc Natl Acad Sci USA 2004 Nov 30:101(48):16958-63
- [11] Zamora R, *Bryan NS*, Boyle P, Wong C, Milsom AB, Jaffe R, Feelisch M, Ford HR. Nitrosative stress in an Animal Model of Necrotizing Enterocolitis Free Radic Biol Med. 2005 Dec 1:39(11):1428-1437.
- [12] **Bryan NS**, Fernandez BO, Garcia-Saura MF, Bauer SM, Milsom AB, Rassaf T, Maloney R, Bharti A, Rodriguez J, Feelisch M. Nitrite is a signaling molecule and regulator of gene expression in mammalian tissues Nature Chemical Biology, 2005 Oct (1); 290-297.

- [13] Peyrot F, Fernandez BO, *Bryan NS*, Feelisch M, Ducrocq C. N-Nitroso Products from the Reaction of Indoles with Angeli's Salt Chem Res Toxicol. 2006 Jan;19(1):58-67.
- [14] Elrod JW, Greer JJ, *Bryan NS*, Langston W, Szot JF, Gebregzlabher H, Janssens S, Feelisch M, Lefer, DJ. Cardiomyocyte-Specific Overexpression of NO Synthase-3 Protects Against Myocardial Ischemia-Reperfusion Injury Arterioscler Thromb Vasc Biol. 2006 July;26(7):1517-23.
- [15] Wang X, *Bryan NS*, MacArthur PH, Rodriguez J, Gladwin MT, Feelisch M. Measurement of nitric oxide levels in the red cell: Validation of triiodide based chemiluminsence with acid-sufanilamide pretreatment J Biol Chem. 2006 Sept 15;281(37):26994-7002.
- [16] Duranski MR, Elrod JW, Calvert JW, *Bryan NS*, Feelisch M, Lefer DJ. Genetic Overexpression of eNOS Attenuates Hepatic Ischemia-Reperfusion Injury Am J Physiol Heart Circ Physiol 2006 Dec;291(6):H2980-6.
- [17] **Bryan NS** Nitrite in NO Biology: Cause or Consequence? A Systems-Based Review
 Free Radic Biol Med 2006 Sept;41(5):691-701.
- [18] Bryan NS, Grisham MB: Methods to Detect Nitric Oxide and its Metabolites in Biological Samples Free Radic Biol Med 2007 Sep 1;43(5):645-57.
- [19] Erzurum SC, Ghosh S, Janocha A, Xu W, Bauer S, *Bryan NS*, Tejero JB, Hemann C, Hille R, Stuehr D, Feelisch M, Beall C.: Higher blood flow and circulating NO products offset high-altitude hypoxia among Tibetans Proc Natl Acad Sci USA 2007 Nov 6;104(45):17593-8
- [20] Bryan NS, Calvert, JW, Elrod JW, Duranski MR, Gundewar S, Ji SY, Lefer DJ: Dietary Nitrite Supplementation Protects Against Myocardial Ischemia-Reperfusion Injury Proc Natl Acad Sci USA 2007 Nov 27:104(48):19144-9
- [21] Elrod JW, Calvert JW, Gundewar S, *Bryan NS*, Lefer DJ: Nitric Oxide Promotes Distant Organ Protection: Evidence for an Endocrine Role of Nitric Oxide Proc Natl Acad Sci USA 2008 Aug 12;105(32): 11430-35
- [22] **Bryan NS**, Calvert JW, Gundewar S, Lefer DJ: Dietary Nitrite Restores NO Homeostasis and is Cardioprotective in eNOS Deficient Mice Free Radic Biol Med. 2008 Aug 15;45(4):468-74
- [23] Feelisch M, Fernandez BO, *Bryan NS*, Garcia-Saura MF, Bauer S, Whitlock DR, Ford PC, Janero DR, Rodriguez J, Ashrafian H: Tissue processing of nitrite in hypoxia: an intricate interplay of nitric oxide-generating and -scavenging systems.
 J Biol Chem. 2008 Dec 5;283(49):33927-34.
- [24] Mujoo K, Sharin VG, *Bryan NS*, Krumenacker JS, Sloan C, Parveen S, Nikonoff LE, Kots AY, Murad F: Role of nitric oxide signaling components in Differentiation of embryonic stem cells into myocardial cells. Proc Natl Acad Sci U S A. 2008 Dec 2;105(48):18924-9.
- [25] Harg H, *Bryan NS*: Dietary Sources of Nitrite as a Modulator of Ischemia-Reperfusion Injury Kidney Int. 2009 Jun;75(11):1140-4

- [26] Perlman DH, Bauer SM, Ashrafian H, Bryan NS, Garcia-Saura MF, Lim CC, fernandez BO, Infusini G, McComb ME, Costello CE, Feelisch M: Mechanistic Insights Into Nitrite-Induced Cardioprotection Using an Integrated Metabonomic/Proteomic Approach. Circ Res. 2009 Mar 27;104(6):796-804
- [27] Stokes KY, Dugas TR, Tang Y, Garg H, Guidry E, *Bryan NS*: Dietary Nitrite Prevents Hypercholesterolemic Microvascular Inflammation And Reverses Endothelial Dysfunction
 Am J Physiol Heart Circ Physiol. 2009 May;296(5):H1281-8.
- [28] **Bryan NS**, Bian K, Murad F: Discovery of the nitric oxide signaling pathway and targets for drug development Front Biosci. 2009 Jan 1;14:1-18.
- [29] Bryan NS: Cardioprotective Actions of Nitrite Therapy and Dietary Considerations Front Biosci. 2009 Jan 1;14:4793-808
- [30] Hord NG, Tang Y, **Bryan NS:** Food Sources of Nitrates and Nitrites: The Physiological Context for Potential Health Benefits
 Am J Clin Nutr. 2009 Jul;90(1):1-10
- [31] Tang Y, Garg H, Geng YJ, *Bryan NS:* Nitric oxide bioactivity of traditional Chinese medicines used for cardiovascular indications Free Radic Biol Med. 2009 Sep 15;47(6):835-40.
- [32] Sanghani PC, Davis WI, Fears SL, Green SL, Zhai L, Tang Y, Martin E, *Bryan NS*, Sanghani SP: Kinetic and cellular characterization of novel inhibitors of Snitrosoglutathione reductase

 J Biol Chem. 2009 Sep 4;284(36):24354-62.
- [33] Milkowski A, Garg HK, Coughlin JR, *Bryan NS*: Nutritional Epidemiology in the Context of Nitric Oxide Biology: A Risk- Benefit Evaluation for Dietary Nitrite and Nitrate
 Nitric Oxide. 2010 Feb 15;22(2):110-9.
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 Am J Physiol Heart Circ Physiol. 2009 Dec;297(6):H2144-53.
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 - Nat Chem Biol. 2009 Dec;5(12):865-9.
- [36] Saijo F, Milsom AB, *Bryan NS*, Bauer SM, Vowinkel T, Ivanovic M, Andry C, Granger DN, Rodriguez J, Feelisch M: On the dynamics of nitrite, nitrate and other biomarkers of nitric oxide production in inflammatory bowel disease Nitric Oxide. 2010 Feb 15;22(2):155-67.

- [37] Hord NG, Ghannam J, Garg HK, Berens PD, **Bryan NS**: Nitrate and nitrite content of human, formula, bovine and soy milks: implications for dietary nitrite and nitrate recommendations Breastfeeding Medicine 2010 Oct 19.
- [38] Tang Y, Jiang H. *Bryan NS* Nitrite and Nitrate: Cardiovascular risk-benefit and metabolic effects Curr Opin Lipidol. 2011 Feb;22(1):11-5.
- [39] Jourd'heuil FL, Lowery AM, Melton EM, Mnaimneh S, *Bryan NS*, Fernandez BO, Park JH, Ha CE, Bhagavan NV, Feelisch M, Jourd'heuil D: Redox-sensitivity and site-specificity of S- and N- denitrosation in proteins. PLoS One. 2010 Dec 21;5(12):e14400.
- [40] **Bryan NS**: Processed Meats and Coronary Heart Disease: Perspective and Context. Circulation. 2011 Jan 25;123(3):e16; author reply e17.
- [41] Zand J, Lanza F, Garg HK, *Bryan NS*. All-natural nitrite and nitrate containing dietary supplement promotes nitric oxide production and reduces triglycerides in humans. Nutr Res. 2011 Apr;31(4):262-9.
- [42] Mian AI, Du Y, Garg HK, Caviness AC, Goldstein SL, *Bryan NS*. Urinary nitrate might be an early biomarker for pediatric acute kidney injury in the emergency department. Pediatr Res. 2011 Aug;70(2):203-7.
- [43] Dyson A, *Bryan NS*, Fernandez BO, Garcia-Saura MF, Saijo F, Mongardon N, Rodriguez J, Singer M, Feelisch M. An integrated approach to assessing nitrosoredox balance in systemic inflammation. Free Radic Biol Med 2011 Jun 14
- [44] Aranke M, **Bryan NS**, Mian Al. Towards nitric oxide based diagnostics: call to action. Trends Mol Med. 2011 Nov;17(11):614-6.
- [45] Erez A, Nagamani SC, Shchelochkov OA, Premkumar MH, Campeau PM, Chen Y, Garg HK, Li L, Mian A, Bertin TK, Black JO, Zeng H, Tang Y, Reddy AK, Summar M, O'Brien WE, Harrison DG, Mitch WE, Marini JC, Aschner JL, **Bryan NS**, Lee B. Requirement of argininosuccinate lyase for systemic nitric oxide production. Nat Med. 2011 Nov 13;17(12):1619-26
- [46] Garcia-Saura MF, Saijo F, Bryan NS, Bauer S, Rodriguez J, Feelisch M. Nitroso-Redox Status and Vascular Function in Marginal and Severe Ascorbate Deficiency. Antioxid Redox Signal. 2012 Feb 5
- [47] Mian AI, **Bryan NS**, Zaidi AK. Translational Research in the developing world: molecular medicine goes global. Trends Mol Med. 2012 Mar;18(3):135-7.
- [48] Nuñez De González MT, Osburn WN, Hardin MD, Longnecker M, Garg HK, **Bryan NS**, Keeton JT. Survey of residual nitrite and nitrate in conventional and organic/natural/uncured/indirectly cured meats available at retail in the United States. J Agric Food Chem. 2012 Apr 18;60(15):3981-90.
- [49] Parthasarathy DK, **Bryan NS**. Sodium nitrite: The "cure" for nitric oxide insufficiency. Meat Sci. 2012 Mar 10.
- [50] Jiang H, Tang Y, Garg HK, Parthasarathy DK, Torregrossa AC, Hord NG, **Bryan NS**. Concentration- and stage-specific effects of nitrite on colon cancer cell lines. Nitric Oxide. 2012 Apr 5.
- [51] Nagamani SC, Campeau PM, Shchelochkov OA, Premkumar MH, Guse K, Brunetti-Pierri N, Chen Y, Sun Q, Tang Y, Palmer D, Reddy AK, Li L, Slesnick TC, Feig DI, Caudle S, Harrison D, Salviati L, Marini JC, **Bryan NS**, Erez A, Lee B. Nitric-oxide supplementation for treatment of long-term complications in argininosuccinic aciduria. Am J Hum Genet. 2012 May 4;90(5):836-46.

- [52] Jiang H, Torregrossa AC, Parthasarathy DK, **Bryan NS**. Natural product nitric oxide chemistry: new activity of old medicines. Evid Based Complement Alternat Med. 2012;2012:873210.
- [53] **Bryan NS**. Application of nitric oxide in drug discovery and development. Expert Opin Drug Discov. 2011 Nov;6(11):1139-54. [46]
- [54] Jiang H, Parthasarathy D, Torregrossa AC, Mian A, **Bryan NS**. Analytical Techniques for Assaying Nitric Oxide Bioactivity J Vis Exp. 2012 Jun 18;(64):e3722
- [55] Mujoo K, Nikonoff LE, Sharin VG, **Bryan NS**, Kots AY, Murad F. Curcumin induces differentiation of embryonic stem cells through possible modulation of nitric oxide-cyclic GMP pathway. Protein Cell. 2012 Jul;3(7):535-44.
- [56] Torregrossa AC, Aranke M, **Bryan NS**. Nitric oxide and geriatrics: Implications in diagnostics and treatment of the elderly. J Geriatr Cardiol. 2011 Dec;8(4):230-42.
- [57] **Bryan NS**, Alexander DD, Coughlin JR, Milkowski AL, Boffetta P. Ingested nitrate and nitrite and stomach cancer risk: An updated review. Food Chem Toxicol. 2012 Aug 4;50(10):3646-3665.
- [58] **Bryan NS.** Pharmacological therapies, lifestyle choices and nitric oxide deficiency: A perfect storm. Pharmacol Res. 2012 Dec;66(6):448-56.
- [59] **Bryan NS**, Torregrossa AC, Mian AI, Lindsey Berkson D, Westby CM, Moncrief JW. Acute effects of hemodialysis on nitrite and nitrate: potential cardiovascular implications in dialysis patients. Free Radic Biol Med. 2013 Jan 29;58C:46-51.
- [60] Mian AI, Aranke M, **Bryan NS**. Nitric oxide and its metabolites in the critical phase of illness: rapid biomarkers in the making. Open Biochem J. 2013;7:24-32.
- [61] Chintalgattu V, Rees ML, Culver JC, Goel A, Jiffar T, Zhang J, Dunner K Jr, Pati S, Bankson JA, Pasqualini R, Arap W, **Bryan NS**, Taegtmeyer H, Langley RR, Yao H, Kupferman ME, Entman ML, Dickinson ME, Khakoo AY. Coronary microvascular pericytes are the cellular target of sunitinib malate-induced cardiotoxicity. Sci Transl Med. 2013 May 29;5(187):187ra69
- [62] Jiang H, Torregrossa AC, Potts A, Pierini D, Aranke M, Garg HK, **Bryan NS**. Dietary Nitrite Improves Insulin Signaling Through GLUT4 Translocation. Free Radic Biol Med. 2013 Oct 21;67C:51-57.
- [63] Hyde ER, Andrade F, Vaksman Z, Parthasarathy K, Jiang H, Parthasarathy DK, Torregrossa AC, Tribble G, Kaplan HB, Petrosino JF, **Bryan NS**. Metagenomic analysis of nitrate-reducing bacteria in the oral cavity: implications for nitric oxide homeostasis. PLoS One. 2014 Mar 26;9(3):e88645.
- [64] Oostindjer M, Alexander J, Amdam GV, Andersen G, **Bryan NS**, Chen D, Corpet DE, De Smet S, Dragsted LO, Haug A, Karlsson AH, Kleter G, de Kok TM, Kulseng B, Milkowski AL, Martin RJ, Pajari AM, Paulsen JE, Pickova J, Rudi K, Sødring M, Weed DL, Egelandsdal B. The role of red and processed meat in colorectal cancer development: a perspective. Meat Sci. 2014 Aug;97(4):583-96.
- [65] Premkumar MH, Sule G, Nagamani SC, Chakkalakal S, Nordin A, Jain M, Ruan MZ, Bertin T, Dawson BC, Zhang J, Schady D, **Bryan NS**, Campeau PM, Erez A, Lee B. Argininosuccinate lyase in enterocytes protects from development of necrotizing enterocolitis. Am J Physiol Gastrointest Liver Physiol. 2014 Jun 5.

- [66] Hyde ER, Luk B, Cron S, Kusic L, McCue T, Bauch T, Kaplan H, Tribble G, Petrosino JF, **Bryan NS.** Characterization of the rat oral microbiome and the effects of dietary nitrate. Free Rad Biol Med 2014 Dec;77:249-57
- [67] Pierini D, **Bryan NS.** Nitric oxide availability as a marker of oxidative stress. Methods Mol Biol. 2015; 1208:63-71.
- [68] Justice JN, Gioscia-Ryan RA, Johnson LC, Battson ML, de Picciotto NE, Beck HJ, Jiang H, Sindler AL, **Bryan NS**, Enoka, RM, Seals DR. Sodium nitrite supplementation improves motor function and skeletal muscle inflammatory profile in old male mice. J Appl Physiol (1985). 2015 Jan 15;118(2):163-9.
- [69] **Bryan NS.** The potential use of salivary nitrite as a marker of NO status in humans. Nitric oxide 2015 Feb 15;45:4-6
- [70] Sindler AL, Cox-York K, Reese L, Bryan NS, Seals, DR, Gentile CL. Oral nitrite therapy improves vascular function in diabetic mice. Diab Vasc Dis Res. 2015 Feb 12.
- [71] Nuñez de González MT, Osburn WN, Hardin MD, Longnecker M, Garg HK, **Bryan NS**, Keeton JT. A survey of nitrate and nitrite concentrations in conventional and organic-labeled raw vegetables at retail. J Food Sci. 2015 May;80(5):C942-9.
- [72] **Bryan NS**, Ivy JL. Inorganic nitrite and nitrate: evidence to support consideration as dietary nutrients. Nutr Res. 2015 Aug;35(8):643-54
- [73] DeVan AE, Johnson LC, Brooks FA, Evans TD, Justice JN, Cruickshank-Quinn C, Reisdorph N, **Bryan NS**, McQueen MB, Santos-Parker JR, Chonchol MB, Bassett CJ, Sindler AL, Giordano T, Seals DR. Effects of sodium nitrite supplementation on vascular function and related small metabolite signatures in middle-aged and older adults. J Appl Physiol (1985). 2015 Nov 25.
- [74] Justice JN, Johnson LC, DeVan AE, Cruickshank-Quinn C, Reisdorph N, Bassett CJ, Evans TD, Brooks FA, **Bryan NS**, Chonchol MB, Giordano T, McQueen MB, Seals DR. Improved motor and cognitive performance with sodium nitrite supplementation is related to small metabolite signatures: a pilot trial in middle-aged and older adults. Aging (Albany NY). 2015 Nov;7(11):1004-21.
- [75] Jiang H, Polhemus DJ, Islam KN, Torregrossa AC, Li Z, Potts A, Lefer DJ, **Bryan NS**. Nebivolol Acts as a S-Nitrosoglutathione Reductase Inhibitor: A New
 Mechanism of Action. J Cardiovasc Pharmacol Ther. 2016 Jan 8
- [76] **Bryan NS**, Tribble G, Angelov N. Oral Microbiome and Nitric Oxide: the Missing Link in the Management of Blood Pressure. Curr Hypertens Rep. 2017 Apr;19(4):33
- [77] Raizada MK, Joe B, **Bryan NS**, Chang EB, Dewhirst FE, Borisy GG, Galis ZS, Henderson W, Jose PA, Ketchum CJ, Lampe JW, Pepine CJ, Pluznick JL, Raj D, Seals DR, Gioscia-Ryan RA, Tang WHW, Oh YS. Report of the National Heart, Lung, and Blood Institute Working Group on the Role of Microbiota in Blood Pressure Regulation: Current Status and Future Directions. Hypertension. 2017 Jul 31. pii: HYPERTENSIONAHA.117.09699
- [78] Bock JM, Ueda K, Schneider AC 4th, Hughes WE, Limberg JK, **Bryan NS**, Casey DP. Inorganic nitrate supplementation attenuates peripheral chemoreflex sensitivity but does not improve cardiovagal baroreflex sensitivity in older adults. Am J Physiol Heart Circ Physiol. 2017 Sep 29:ajpheart.00389.2017

- [79] McMahon TJ, **Bryan NS.** Biomarkers in Pulmonary Vascular Disease: Gauging Response to Therapy. Am J Cardiol. 2017 Oct 15;120(8S):S89-S95
- [80] **Bryan NS**. Functional Nitric Oxide Nutrition of Combat Cardiovascular Disease. Curr Atheroscler Rep. 2018 Mar 17;20(5):21

EDITED BOOKS

- [1] **Bryan NS** (Editor): Food, Nutrition and the Nitric Oxide Pathway. DesTech Publishing Pennsylvania ISBN: 978-1-932078-84-8, September 2009
- [2] **Bryan NS** and Loscalzo J (Editors) Nitrite and Nitrate in Human Health and Disease Springer Humana Press New York ISBN: 978-1-60761-615-3, May 2011
- [3] **Bryan NS** and Loscalzo J (Editors) Nitrite and Nitrate in Human Health and Disease Second Edition—Springer Humana Press New York ISBN: 978-3-319-46189-2, Jan 2017

BOOKS CHAPTERS

- [1] **Bryan NS**, Murad F
 - What is Nitric Oxide? In Food, Nutrition and the Nitric Oxide Pathway (Ed) Bryan NS DesTech Publishing Pennsylvania ISBN: 978-1-932078-84-8, September 2009
- [2] Grisham MB, *Bryan NS*Dysregulated NO and Disease In In Food, Nutrition and the Nitric Oxide
 Pathway (Ed) Bryan NS DesTech Publishing Pennsylvania ISBN: 978-1932078-84-8, September 2009
- [3] **Bryan NS,** Hord NG
 Food Sources of nitrite and nitrate: The Physiological Context for Potential
 Health Benefits In Food, Nutrition and the Nitric Oxide Pathway (Ed) Bryan NS
 DesTech Publishing Pennsylvania ISBN: 978-1-932078-84-8, September 2009
- [4] Huffman R, *Bryan NS*Nitrite and Nitrate in the Meat and Food Industry In Food, Nutrition and the
 Nitric Oxide Pathway (Ed) Bryan NS DesTech Publishing Pennsylvania ISBN:
 978-1-932078-84-8, September 2009
- [5] **Bryan NS**, Hord NG
 Regulations gone awry: Addressing public concerns In Food, Nutrition and the Nitric Oxide Pathway (Ed) Bryan NS DesTech Publishing Pennsylvania ISBN: 978-1-932078-84-8, September 2009
- [6] Bryan NS, Hord NG

Diet and Endothelium – A Concert in NO Homeostasis In Food, Nutrition and the Nitric Oxide Pathway (Ed) Bryan NS DesTech Publishing – Pennsylvania ISBN: 978-1-932078-84-8, September 2009

- [7] Bryan NS
 - Paradigm Shift: From Toxic Food Additive to Indispensible Nutrient In Food, Nutrition and the Nitric Oxide Pathway (Ed) Bryan NS DesTech Publishing Pennsylvania ISBN: 978-1-932078-84-8, September 2009
- [8] **Bryan NS** and Van Grinsven H
 The Role of Nitrate in Human Health, in: Donald, S.(Ed.), Advances in Agronomy,
 Academic Press, 153–182. 2013 ISBN: 9780124072473
- [9] Harsha K. Garg and *Bryan NS* Inorganic Nitrite and Nitrate are Bioactive Food Components Conferring Nitric Oxide Activity in vivo In Functional Foods for Chronic Diseases Volume 5 Diabetes and Related Diseases (Ed) N. Abate & D.K. Martirosyan Food Science Publisher – ISBN-10: 0976753561, July 2010
- [10] Bryan NS and Loscalzo J Introduction In Nitrite and Nitrate in Human Health and Disease (Ed) Bryan NS and Loscalzo J. Springer-Humana Press ISBN 978-1-60761-615-3 May 2011.
- [11] Berens P and *Bryan NS*Nitrite and Nitrate in Human Breast Milk: Implications for Development In Nitrate and Nitrite in Human Health and Disease (Ed) Bryan NS and Loscalzo J. Springer-Humana Press ISBN 978-1-60761-615-3 May 2011.
- [12] **Bryan NS** and Lancaster JL
 Nitric Oxide Signaling in Health and Disease In Nitrite and Nitrate in Human
 Health and Disease (Eds) Bryan NS and Loscalzo J. Springer-Humana Press
 ISBN 978-1-60761-615-3 May 2011.
- [13] **Bryan NS** and Loscalzo J Looking Forward In Nitrite and Nitrate in Human Health and Disease (Eds) Bryan NS and Loscalzo J. Springer-Humana Press. ISBN 978-1-60761-615-3 May 2011.
- [14] *Bryan, N.S.,* van Grinsven.H., The Role of Nitrate in Human Health, in: Donald, S.(Ed.), Advances in Agronomy, Academic Press, 153–182. ISBN: 9780124072473; 2013
- [15] Parthasarathy, D and *Bryan, N.S.,* Curing: Physiology of Nitric Oxide, in: Dikeman, M (Ed.) Encyclopedia of Meat Sciences 2nd Edition, Elsevier Publishing; 2012
- [16] Pierini, D and *Bryan, N.S.*, Nitric Oxide Availability as a Marker of Oxidative Stress in: Armstrong, D. (Ed.), Advanced Protocols in Oxidative Stress III, Humana Press, 2014
- [17] **Bryan, N.S.**, Nitric Oxide Enhancement Strategies, in: Friedman, A and Friedman J. (Eds), Development and therapeutic applications of nitric oxide releasing materials Future Science Ltd 2014
- [18] **Bryan, N.S.**, in: An Overview of Nitrite and Nitrate: New Paradigm of Nitric Oxide. Debasis Bagchi (Ed), Sustained Energy for Enhanced Human Functions and Physical Activity

AUTHORED BOOKS

- [1] **Nathan S. Bryan** & Janet Zand with Bill Gottlieb: The Nitric Oxide (NO) Solution Good for you Books Publishing ISBN: 978-0-615-41713-4; November 2010
- [2] **Nathan S. Bryan** & Caroline Pierini: Beet the Odds ISBN: 978-1-9888135-0-2; 2013
- [3] **Nathan S. Bryan:** Functional Nitric Oxide Nutrition: Dietary Strategies to Prevent and Treat Chronic Disease ISBN: ISBN: 978-1-948719-00-1 (p) ISBN: 978-1-948719-01-8 (e) 2018

INVITED LECTURES

INTERNATIONAL

- [1] Physiological Basal Nitrosation Levels: The Art of the Method (Invited Lecture) Heinrich-Heine University Division of Cardiology, Pulmonary Diseases and Angiology; Dusseldorf Germany June 2002
- [2] Nitrite-Mediated Blood and Tissue Nitros(yl)ation Society for Free Radical Biology and Medicine Meeting St Thomas Virgin Islands Nov 2004
- [3] Nitric Oxide Enhancement Restores Endothelial Function and Combats Adverse Effects Of Homocysteine Trivita Medical Advisory Board Meeting Invited speaker, Vancouver BC August 2007
- [4] Dietary Nitrite and Nitrate Contribute to Cardiovascular Health and Disease Invited Plenary Speaker Lisbon Portugal Feb 20-24, 2008
- [5] Dietary Nitrite and Nitrate as Indispensable Nutrients
 International Meeting on the Role of Nitrite Physiology, Pathophysiology and
 Therapeutics Invited speaker, June 18-19, 2009, Nobel Forum, Stockholm
 Sweden
- [6] Inorganic Nitrite and Nitrate as Novel Therapeutic Agents to Restore NO Homeostasis The Ninth Conference of Chinese Integrated Medicine on Cardiovascular Diseases in China – Invited speaker, September 5, 2009; Tianjin, China.
- [7] Inorganic Nitrite and Nitrate as Novel Therapeutic Agents to Restore NO
 Homeostasis Invited speaker, Guangxi Traditional Chinese Medical University
 Ruikang Hospital September 7, 2009; Nanning, China
- [8] The Nitrate-Nitrite-Nitric Oxide pathway Invited Speaker
 Nitrate-Nitrite-Nitric Oxide: New Perspective for Health before World Health
 Organization and France National Academy of Medicine, Thursday, March 31st,
 2011, Hôpital Pitié-Salpêtrière, Paris FRANCE
- [9] Nitric Oxide index of Foods: defining the context for health benefits of dietary nitrite and nitrate while mitigating risk Invited Speaker

- Nitrate-Nitrite-Nitric Oxide: New Perspective for Health before World Health Organization and France National Academy of Medicine, Thursday, March 31st, 2011, Hôpital Pitié-Salpêtrière, Paris FRANCE
- [10] Emerging Health Benefits of Nitrite and Nitrate: A Change in Paradigm Keynote Speaker International Congress of Meat Science and Technology – Montreal Canada Aug 12-17, 2012
- [11] Emerging Health Benefits of Nitrite and Nitrate: A Change in Paradigm Mapleleaf Foods, Toronto, Canada Sept 24, 2012
- [12] Nitric Oxide Deficiency and Restoration: New Discoveries in Cardiovascular and Sexual Health Orthomolecular Medicine Conference, Sao Paulo Brazil May 9-11, 2013
- [13] Dietary Nitrite and Nitrate: From Menace to Marvel Canadian Nutrition Society Annual Meeting, Quebec City May 30-June 2, 2013
- [14] An Update on Nitric Oxide Research: New Innovations and Product Solutions Canadian Health Food Association Sept 4, 2013
- [15] Why Dietary Nitrite and Nitrate May Be Good for You Centre for Advanced Studies at The Norwegian Academy of Science and Letters, Oslo Norway Nov 6-7, 2013
- [16] New Paradigm for Regulation of Endogenous Nitric Oxide Production in Humans: The Oral Systemic Link Karolinska Institute, Stockholm Sweden Nov 8, 2013
- [17] What is Nitric Oxide and Why Should You Care? Canadian Health Food Association; Toronto ON, Sept 12, 2014
- [18] Nitric Oxide Deficiency & Restoration; New Discoveries in Cardiovascular & Sexual Health – Canadian Health Food Association; Vancouver BC, April 10, 2015
- [19] GSNO Reductase as a Therapeutic Target International Nitric Oxide Conference, Sendai Japan, May 20-22, 2016
- [20] The Role of Nitric Oxide in the Management Of Hypertension, Inflammation and Cardiovascular Disease – Functional and Regenerative Medicine Auckland, NZ June 7, 2017
- [21] The Role of Nitric Oxide in Primary Care General Practice Conference and Medical Education, Rotorua, NZ, June 8-11, 2017
- [22] Erectile Dysfunction is Endothelial Dysfunction: Understanding the Symptoms that Lead to Heart Disease- General Practice Conference and Medical Education, Rotorua, NZ, June 8-11, 2017
- [23] Nitric Oxide, So What? General Practice Conference and Medical Education, Rotorua, NZ, June 8-11, 2017
- [24] Nitric Oxide in Heart Disease General Practice Conference and Medical Education, Rotorua, NZ, June 8-11, 2017
- [25] What is NO and Why Should you Care? General Practice Conference and Medical Education, Rotorua, NZ, June 8-11, 2017
- [26] Evidenced Based Therapeutic Strategies for Anti-Aging Medicine A4M Dubai, January 19-21, 2018
- [27] Oral Microbiome, Nitric Oxide and Systemic Health World Dental Forum Dubai, April 2-4, 2018

NATIONAL

- [1] Formation and Physiological Significance of Blood and Tissue Nitrosation/Nitrosylation Products – Invited Seminar Speaker LSU Health Sciences Center June 2004
- [2] Dietary Nitrite Contributes to Cardiovascular Health and Disease Institute of Food Technologists Invited Speaker Chicago IL July 2007
- [3] Dietary Nitrite and Nitrate Contribute to Cardiovascular Health and Disease Worldwide Food Expo, Plenary speaker Chicago, IL Oct 2007
- [4] Dietary Nitrite and Nitrate Contribute to Cardiovascular Health and Disease Invited Speaker LSU Health Science Center Dept of Molecular and Cellular Physiology Jan 23, 2008
- [5] Dietary Nitrite and Nitrate Contribute to Cardiovascular Health and Disease invited Speaker Michigan State University Dept of Food Science and Human Nutrition – Feb 30, 2008
- [6] Nitrites: Essential to Health? A New Story About an Old Antimicrobial. International Association for Food Protection Annual Conference Invited speaker, Aug 6, 2008, Columbus Ohio.
- [7] Dietary Nitrite and Nitrate as Indispensable Nutrients
 Kraft Meat Summit Invited speaker, June 25, 2009 Madison Wisconsin
- [8] Dietary Nitrite and Nitrate as Indispensable Nutrients University of Wisconsin Dept of Animal Science – Invited speaker, June 26, 2009 Madison Wisconsin
- [9] Inorganic Nitrite and Nitrate are Bioactive Food Components Conferring Nitric Oxide Activity in vivo Invited speaker, Functional Foods Conference Dec 4-5, 2009 Denton Texas
- [10] Nature's NO: Novel Strategies to Restore Nitric Oxide Homeostasis Invited Speaker, Wake Forest Nitrogen Oxide Meeting, Farmington, PA, May 28-30, 2010 – Nemacolin Resort
- [11] Dietary Nitrite and Nitrate: From Menace to Marvel Invited Speaker Invited Speaker, Reciprocal Meat Conference, Lubbock Texas June 20-23, 2010
- [12] Nitric Oxide in Health and Disease Invited speaker, Austin Functional Medicine Group Oct. 28, 2010 Austin, TX
- [13] Nitric Oxide in Health and Disease Invited Speaker, San Antonio Functional Medicine Group Nov. 3, 2010, San Antonio Tx
- [14] Approaches for Diagnosing and Restoring Nitric Oxide Production in Humans Invited Speaker Wake Forest University Translational Science Center April 4, 2011, Winston-Salem NC.
- [15] Nitric Oxide: The Overlooked Molecule in Patient Care Invited Speaker CME lecture American Academy of Anti-Aging Medicine Conference April 7, 2011 Orlando Fl
- [16] Nature's NO: Harnessing the Therapeutic Potential of The Nitrate-Nitrite Oxide Pathway from Natural Products Invited Speaker Approaching the Clinic: Nitrite and Nitrate Conference May 11-13, 2011 Atlanta GA

- [17] Nitric Oxide in Health and Disease Invited speaker, Pastoral Medical Association May 21, 2011 Austin, TX
- [18] Nitric Oxide Diagnostics and Therapeutics Invited Speaker International Conference and Exhibition on Clinical Research: Dermatology, Opthalmology and Cardiology San Francisco, CA July 5-6, 2011-07-25
- [19] Nitrite and Nitrate in Health and Disease: A Paradigm Shift Invited Speaker Joint Annual Meeting: ADSA and ASAS 2011 July 12, 2011 New Orleans, LA
- [20] Nitric Oxide: The Miracle Molecule Invited Speaker Synergy Medical Group July 22-23, 2011 Salt Lake City, Utah
- [21] Nitric Oxide in Health and Disease: A New Paradigm for Healthy Living Invited speaker Exxon Annual Safety Meeting; Heart Health Aug. 8, 2011 Houston, TX
- [22] Nitric Oxide in Health and Disease: An update on Current Research Invited Speaker, Synergy Medical Group Phoenix AZ Oct 28, 2011
- [23] Nitric Oxide in Health and Disease: An Overview of Current Research Invited Speaker 14th International Congress of BioEnergetic Medicine, Nov 4, 2011 Orlando Fl.
- [24] Nitric Oxide: The Overlooked Molecule in Patient Care Keynote Lecture, CME
 19th Annual World Congress on Anti-Aging and Aesthetic Medicine Las Vegas,
 NV December 8-10, 2011
- [25] Nitric Oxide in Health and Disease: An Overview of Current Research Invited speaker Hawaii Spa Marketplace, Honolulu HI Jan 23, 2012
- [26] A Novel Method for Nitric Oxide Production Invited speaker American Academy of Ozonotherapy, Dallas, TX Feb 17-18, 2012
- [27] Nitric Oxide in Health and Disease: An Overview of Current Research Invited speaker Crossroads Apothecary, Columbia, MD March 16, 2012
- [28] Novel Strategies to Diagnose and Restore Nitric Oxide Production in Humans Invited Speaker – Hawaii Institute of Molecular Education, Las Vegas NV June 5-6, 2012
- [29] Nitric Oxide Signaling: Its Physiological Importance to Nitrite, Nitrate and Nitrosation Reactions – Institute of Food Technologies, Las Vegas, NV June 28, 2012
- [30] Nitric Oxide in Health and Disease: An Overview of Current Research Empowered Doctors, Miami, FL Aug 8, 2012
- [31] Nitric Oxide in Health and Disease: An Overview of Current Research Leadership and Longevity Conference, Green Bay WI Oct 25-26, 2012
- [32] Nitric Oxide in Health and Disease: An Overview of Current Research Heart Institute of Southern California; Temecula, CA Jan 31, 2013
- [33] Nitric Oxide in Health and Disease: An Overview of Current Research Physician training, Newport Beach CA Feb 2, 2013
- [34] Nitric Oxide in Health and Disease: An Overview of Current Research Heart Attack and Stroke Prevention Alliance, Dallas TX Feb 16, 2013
- [35] Nitrite and Nitrate in Health and Disease Invited Lecture University of Colorado, Dept of Integrative Physiology, Boulder, CO Feb 25, 2013
- [36] Nitric Oxide Generating Bacteria Affect Cardiovascular Health of Host: Linking Oral Health to Cardiovascular Disease – Holistic Dental Assn, Washington, DC April 19, 2013

- [37] Nitric Oxide Deficiency & Restoration: New Discoveries in Cardiovascular & Sexual Health Age Management Medicine Group, Hollywood FL, May 2, 2013
- [38] An Update on Nitric Oxide Research Baylor College of Medicine, Dept of Obstetrics and Gynecology Aug 19, 2013.
- [39] The Role of Nitric Oxide in Pain, Inflammation and Arthritis Florida Chiropractors Assn, Orlando FL Aug 24, 2013
- [40] Oral Microbial Nitric Oxide Production Linking Oral Health & Cardiovascular Disease – International Academy of Biological Dentistry and Medicine, Houston, TX, Oct 11-13, 2013.
- [41] New Paradigm on the Production and Regulation of Nitric Oxide: Advancements in Diagnostics and Therapeutics Invited Lecture Houston Methodist Research Institute, Department of Cardiovascular Sciences, January 24, 2014
- [42] Revolutionary Advancement in Nitric Oxide(NO): Renewal beyond L-Arginine. The Premise for Health, Cellular Anti-Aging, Prevention & Disease Management; American Academy of Ozonotherapy, Dallas TX March 26, 2014
- [43] New Paradigm for Regulation of Endogenous Nitric Oxide in Humans: The Oral Systemic Link, Dallas TX April 12, 2014.
- [44] Nitric Oxide, Menopause and Female Sexual Arousal Disorder Invited Lecture CME at the American Academy of Anti-aging Medicine; Orlando FL May 17, 2014.
- [45] The Truth About Dietary Nitrates and Mechanisms for Nitric Oxide Production in Humans at the Collegiate and Professional Sports Dietician Association (CPSDA); Scottsdale AZ, May 20, 2014
- [46] The Role of Nitric Oxide in Gastrointestinal Health and Chronic Disease 12th Annual Restorative Medicine Conference Santa Fe, NM, Oct 8-12 2014
- [47] The Truth About Dietary Nitrates and Mechanisms for Nitric Oxide Production in Humans The Food and Nutrition Conference and Expo, Atlanta, GA Oct 20, 2014
- [48] The Role of Nitric Oxide in Cellular Aging: Telomeres, Mitochondria and Stem Cells Academy of Comprehensive Integrative Medicine Sante Fe, NM Oct 24, 2014
- [49] Advancements in Nitric Oxide Diagnostics and Therapeutics: Combatting Sexual Dysfunction for Men and Women Age Management Medicine Group, Las Vegas NV Nov 7, 2014
- [50] The Role of Bacteria in Anti-Aging Medicine: Nitric Oxide and Beyond American Academy of Anti-Aging Medicine, Las Vegas, NV Dec 12, 2014
- [51] Clinical Use of Nitric Oxide Therapy American Academy of Ozonotherapy, Dallas TX Feb 20, 2015
- [52] Sodium Nitrite: The Cure for Cardiovascular Disease Iowa State University, Department of Animal Science Seminar Series, Ames, IA March 27, 2015
- [53] Nitric Oxide Supplementation: The Good, the Bad and The Ugly Austin Functional Medicine, Austin, TX March 12, 2015
- [54] Chiropractic Nitric Oxide Nutrition Fetterman Chiropractic Organization, Milwaukee, WI, April 18, 2015
- [55] Nitric oxide Supplementation: Biochemistry and Physiology Weber Medical Symposium, Boca Raton, FL April 25, 2015

- [56] Sodium Nitrite: The Cure for Cardiovascular Disease Kemin, Des Moines, IA April 27, 2015
- [57] Nitric Oxide and Stem Cell Therapy American Academy of Anti-Aging Medicine, Hollywood FL May 8, 2015
- [58] New Paradigm in the Regulation and Production of Nitric Oxide in Humans: Translating Basic Science – LSU Health Science Center at New Orleans, New Orleans, LA May 11, 2015
- [59] Improving Clinical Outcomes in Vascular Disease by Enhancing Nitric Oxide Production Professional Compounding Centers of America, Houston, TX June 11, 2015
- [60] Nitric Oxide in Regenerative Medicine Cell Surgical Network, Beverly Hills, CA June 27, 2015
- [61] Chiropractic Nitric Oxide Nutrition Fetterman Chiropractic Organization, Toledo, WI, April 18, 2015
- [62] Nitric Oxide and Sexual Function: New Discoveries And Innovations in Diagnostics and Therapeutics - American Naturopathic Medical Association, Las Vegas NV, August 29, 2015
- [63] Chiropractic Nitric Oxide Nutrition Fetterman Chiropractic Organization, Green Bay, WI, September 24, 2015
- [64] Chiropractic Nitric Oxide Nutrition Fetterman Chiropractic Organization, Stevens Point, WI, April 18, 2015
- [65] Vascular Inflammation and Nitric Oxide: Bridging Diagnostics to Personalized Therapies Cleveland Heart Lab Continuing Medical Education, August 8, 2015
- [66] Erectile Dysfunction is Endothelial Dysfunction: Understanding the Symptoms that Lead to Heart Disease Age Management Medicine Group, Las Vegas, NV November 6, 2015
- [67] The Role of Nitric Oxide in Regenerative Medicine Select Biosciences, San Diego, CA November 9, 2015
- [68] The Role of Nitric Oxide in Health and Aging: From Telomeres to Sexual Function American Functional Medicine Association Atlanta, GA, November 13, 2015
- [69] Chiropractic Nitric Oxide Nutrition Fetterman Chiropractic Organization, La Cross, WI, December 5, 2015
- [70] Inflammation and Sexual Dysfunction: Nitric Oxide as the Common Denominator
 American Academy of Anti-Aging Medicine, Las Vegas, NV December 12,
 2015
- [71] The Role of Nitric Oxide in Regenerative Medicine Cell Surgical Network, Rancho Mirage, CA February 20, 2016
- [72] Erectile Dysfunction is Endothelial Dysfunction: Understanding the Symptoms that Lead to Heart Disease Tennessee Osteopathic Medical Association, Chattanooga, TN, April,28 May 1, 2016
- [73] The Role of Nitric Oxide in Regenerative Medicine Cell Surgical Network, Beverly Hills, CA June 4, 2016
- [74] Role of Nitrate Reducing Oral Bacteria on Systemic Blood Pressure: Mechanisms of the Oral-Systemic Link – National Institutes of Health NHLBI Working Group, Bethesda MD June 10, 2016

- [75] Nutritional Strategies for Restoration of Nitric Oxide in Humans International and American Associations of Clinical Nutritionists, Jacksonville, Fl August 11-13, 2016
- [76] The Role of Oral Bacteria in Systemic Nitric Oxide Production in Humans: The Mechanism Behind the Oral-Systemic Link – The International Academy of Oral Medicine and Toxicology, Reno, NV Sept 9-10, 2016
- [77] Dietary Nitrite and Nitrate: From Menace to Marvel Plenary Lecture, Functional Food Conference, Harvard Medical School, Boston MA Sept 22-23, 2016
- [78] Erectile Dysfunction is Endothelial Dysfunction: Understanding the Symptoms that Lead to Heart Disease American Functional Medicine Association, Atlanta, GA Nov 10-12, 2016
- [79] The unknown nutrient: Discovery of the health benefits of dietary nitrate International Conference on Food Chemistry and Technology, Las Vegas, NV, Nov 14-16, 2016
- [80] The Role of Nitric Oxide in Regenerative Medicine Cell Surgical Network, Jacksonville, Fl, Feb 2-4, 2017
- [81] The Role of Nitric Oxide in Regenerative Medicine Academy of Regenerative Practice, Ft. Lauderdale, Fl, Feb 24-26, 2017
- [82] The Role of the Oral Microbiota in Hypertension American Academy of Anti-Aging Medicine, Hollywood, Fl, April 7-8, 2017
- [83] Dietary Nitrite and Nitrate: From Menace to Marvel Grocers Manufacturers Association, Washington, DC, April 20, 2017
- [84] Hypertension, Inflammation and Nitric Oxide Age Management Medicine Group, Orlando, FL, April, 27-30, 2017
- [85] Oral Microbiome and Nitric Oxide: Mechanisms into the Oral Systemic Link Ground Rounds NOVA Southeastern University, Ft. Lauderdale, Fl, May 12, 2017
- [86] Clinical Applications of Nitric Oxide Regenerative Medicine Business Summit, St. Cloud, MN, May 19, 2017
- [87] Dietary Nitrite and Nitrate: From Menace to Marvel Keynote Lecture, International Conference on Food & Nutrition, Las Vegas, Nevada, USA May 22-24, 2017
- [88] Nitric Oxide is Required for Stem Cell Mobilization and Differentiation Cell Surgical Network, Beverly Hills, CA June 2-3, 2017
- [89] The Role of Nitric Oxide in Oxidative Stress & Pain Florida Academy of Pain Medicine, Orlando, Fl, June 16-18, 2017
- [90] Dietary Nitrate and Nitrite: Risk Benefit Analysis for Human Health and Performance – International Society of Sports Nutrition, Phoenix, AZ July 22-24, 2017
- [91] The Role of Nitric Oxide in Health and Disease; Keynote Florida Food and Nutrition Symposium, Fort Lauderdale, FL. July 16, 2017
- [92] Oral Microbiome and Nitric Oxide: The Missing Link in the Treatment of Hypertension – American Naturopathic Medical Association, Las Vegas, NV. August 25-27, 2017
- [93] Vascular Inflammation: Cooling the Heat with Nitric Oxide Innovision Media, Minneapolis, MN. Sept 22-23, 2017

- [94] The Clinical Use of Nitric Oxide in Dental Medicine International Association of Biological Dentistry and Medicine, Houston, TX. October 19-21, 2017
- [95] The Role of Nitric Oxide in Regenerative Medicine MedRebels Cell Therapy Training, Austin, TX. Oct 26-28, 2017
- [96] The Role of Nitric Oxide in Regenerative Medicine Pacific Regenerative Medicine Conference, Honolulu, HI. Nov 6-7, 2017
- [97] The Role of Oral Bacteria in Gut and Brain Health Innovision Media, Clearwater, FL. Nov 10-11, 2017
- [98] The Role of Nitric Oxide in Regenerative Medicine Academy of Regenerative Practices, Weston, FL. March 2-3, 2018
- [99] Functional Nitric Oxide Nutrition Florida Academy of Nutrition and Dietetics Keynote Lecture, Fort Lauderdale, FL. March 10, 2018
- [100] Nitric Oxide Past, Present and Future: Cardiovascular Implications in Adaptation to Space Travel Grand Rounds NASA. April 10, 2018
- [101] The Effects of Nitric Oxide on Performance And Cardiovascular Health Sports, Cardiovascular and Wellness Nutrition (SCAN) Conference, Keystone, CO. May 4, 2018

MEETING PRESENTATIONS

INTERNATIONAL

- [1] Detection of Basal Levels of N-Nitrosamines and S-Nitrosothiols Throughout the Organ System International Conference on Nitric Oxide Prague, Czech Republic June 2002
- [2] Arginosuccinate Lysate is An Essential Regulation of Nitric Oxide Production Nitric Oxide Gordon Conference March 1-6, 2009 Barga, Italy
- [3] Metagenomic Analysis of Bacteria from Human Tongue Scrapings Reveals Novel Bacterial Communities that Contribute Nitrite and Nitric Oxide to the Host International Nitric Oxide Conference, Edinburgh, Scotland July 22-26, 2012
- [4] Emerging Health Benefits of Nitrite and Nitrate: A Change In Paradigm International Congress on Meat Science and Technology, Montreal, Canada, August 12-17, 2012

NATIONAL

- [1] On the Occurrence of Endogenous Nitros(yl)ation Products in Blood and Tissue Experimental Biology Conference, San Diego CA, April 2003.
- [2] Vitamin C Deficiency Evokes Redox Signaling via Nitrite Society for Free Radical Biology and Medicine Meeting Austin TX Nov 2005
- [3] A NObonomic Approach to Unraveling Complex Nitric Oxide Biology –
 Department of Integrative Biology and Pharmacology, The University of Texas
 Houston Medical School Department Seminar Series, Nov 2006

- [4] Alterations in Dietary Nitrite Modulate the Severity of Ischemia-Reperfusion Injury
 Society for Free Radical Biology and Medicine Meeting Denver CO Nov 2006
- [5] Dietary Nitrite Supplementation Restores NO/nitroso Homeostasis in Endothelial Dysfunction and Atherosclerosis – Second International Meeting on the Role of Nitrite in Physiology, Pathophysiology and Therapeutics – Bethesda MD Sept 2007
- [6] Dietary Nitrite and Nitrate Contribute to Cardiovascular Health and Disease UT Houston Institute of Molecular Medicine Seminar Series Oct 2007
- [7] Novel Strategies to Replete NO Homeostasis: Emerging New Paradigms UT Health Science Center Institute of Molecular Medicine Oct 9, 2009
- [8] Concentration and Stage Specific Effects of Nitrite on Colon Cancer American Institute for Cancer Research Oct 2010 Washington DC
- [9] Concentration and Stage Specific Effects of Nitrite on Colon Cancer Society for Free Radical Biology and Medicine Conference Nov 17-21, 2010; Orlando Fl
- [10] Novel Combination of Beet Root and Hawthorn Promotes Nitric Oxide Production and Lowers Triglycerides in Humans Seventh International Conference on Functional Foods for Chronic Disease Dec 3-4, 2010, Dallas Tx.
- [11] Unique Combination of Beet Root and Hawthorn Berry Promotes Nitric Oxide Production and Lowers Triglycerides in Humans – Experimental Biology Meeting – April 10, 2011 Washington DC
- [12] Nitric Oxide and Diabetes: Cause and Effect American Academy of Anti-Aging Medicine Continuing Medical Education, Orlando FL, May 18-19, 2012.
- [13] The Implications of Nitric Oxide Production and its Relation to Cardiovascular Heath International Academy of Oral Medicine and Toxicology, Minneapolis, MN Sept 21-22, 2012
- [14] ATP Energy Production is Linked to Nitric Oxide The Importance for Sexual and Exercise Performance 20th Annual World Congress on Anti-Aging and Aesthetic Medicine Orlando FL April 11-13, 2013
- [15] Nitrite and Insulin Signaling Fifth International Nitrite and Nitrate Meeting Pittsburgh, PA May 4-6, 2013.
- [16] The Role of Nitric Oxide in Cellular Aging: Telomeres, Mitochondria & Stem Cells
 American Academy of Anti-Aging Medicine, Las Vegas NV Dec 13-15, 2013
- [17] The Role of Nitric Oxide in Inflammation, Arthritis & Pain Mediation Florida Chiropractic Association, Destin, FL Feb 7-8, 2014
- [18] Revolutionary Advancements in Nitric Oxide Integrative Healthcare Symposium New York New York Feb 20-22, 2014
- [19] The Therapeutic Effects of a Nitric Oxide Generating Lozenge that Utilizes Natural Product Chemistry International Nitric Oxide Conference, Cleveland OH, June 19, 2014
- [20] Therapeutic Effects of a Nitric Oxide-Generating Lozenge that Utilizes Natural Product Chemistry Controversies and Advances in the Treatment of Cardiovascular Disease The Fourteenth in the Series, Beverly Hills CA Nov 20, 2014
- [21] Therapeutic Effects of a Nitric Oxide-Generating Lozenge that Utilizes Natural Product Chemistry 30th Annual "Interventional Cardiology" symposium, Snowmass, CO March 5, 2015

- [22] Nitric Oxide Restoration: How to Find a Product that Works Scripps Natural Supplement Conference, San Diego, CA January 27, 2016
- [23] Nitrite, the Microbiome and Blood Pressure Nitric Oxide Gordon Conference, Ventura, CA Feb 19-24, 2017
- [24] The Oral Microbiome and Hypertension Experimental Biology, APS, San Diego CA, April 22, 2018
- [25] Natural Product Chemistry and Nitric Oxide Production: New Strategies for NO Based Therapeutics – Experimental Biology, ASPET, San Diego CA, April 22, 2018
- [26] Evidence for Consideration of Dietary Guidelines for Nitrite and Nitrate Functional Food Conference, Session Chair, San Diego CA, April 24, 2018

MEETING ORGANIZER

Third International Meeting on the Role of Nitrite Physiology, Pathophysiology and Therapeutics, June 2009, Stockholm Sweden

Fourth International Meeting on the Role of Nitrite Physiology, Pathophysiology and Therapeutics, May 2011, Atlanta GA

MEDIA EVENTS

Television

KTRK ABC Houston – TV interview with Health Correspondent Christi Myers – November 2007

CNN – Telephone interview with Health Correspondent Elizabeth Cohen – December 2007

Feedstuff – TV interview with Trent Loos – April 2008

KTRK ABC Houston – TV interview with Health Correspondent Christi Myers – October 2010

Feedstuffs – TV interview with Sarah Muirhead – December 2010

KTBC FOX Austin – TV interview – April 2011

KENZ ABC San Antionio – TV interview with Wendy Rigby – May 2011

Media Training – 2012

PBS – Healing Quest TV series – August 2013

iHealthtube - December 2014

Immortality Now – May 2015

INTELLECTUAL PROPERTY

11 issued US Patents Canada Issued patent New Zealand issued patent Mexico issued patent

6 patents pending worldwide Founder, HumanN, Inc (formerly NeoGenis Laboratories, Inc) Austin Texas Stock owner and Advisor – SAJE Pharma