

# CURRICULUM VITAE

**NAME: DONALD B. JUMP**

**ADDRESS: Business**

Nutrition Program: School of Nutrition and Public Health  
College of Health  
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(541) 760-4238 (cell)

**E-mail: Donald.Jump@oregonstate.edu**

**EDUCATION:** Delaware State College      B. S.      1971 Biology  
Rutgers University      M. S.      1974 Biology  
Georgetown University      Ph. D.      1980 Biochemistry

**HONORS:**

1979-1981 National Research Service Award (NIH-T32, 1979-1981), Univ. Minnesota  
1995 Jean Andrews Visiting Professor, Nutritional Science Program,  
University of Texas-Austin  
1998 Invited Speaker, The National Academy of Science for the  
National Research Council, Wash., D.C.  
**1999 Visiting Professor, Nutrition Council, Iowa State University, Ames Iowa.**  
2003 Keynote speaker: 1<sup>st</sup> Lipidomic Congress, Paris, France.  
2005 Osborne and Mendel Award, American Society for Nutritional Sciences  
2006 Citation for Distinguished Service, American Society for Biochemistry & Molecular  
Biology  
2022 Fellow, American Nutrition Society

**Review Panels & Editorial Boards:**

1987 NIH, Molecular cytology study section  
1996 NIH, Nutrition study section (NUTR)  
1997, 2000, 2003-2012, 2015, 2017 NIH Special emphasis panels  
2000 NIH: Special emphasis panels: (AIDS)  
2001-2003 NIH-Metabolism Study Section (MET)  
2003 NIH: Center for complementary and alternative medicine  
2004 NIH: Cellular aspects of diabetes and obesity (CADO)  
2005-2010, 2014, 2017, 2018 NIH: Integrative Nutrition and Metabolic Processes (INMP)  
2018 NIH: Integrative physiology of obesity and diabetes (IPOD)  
2006 AHA: Basic cell and molecular biology 1  
2008 NIH-GMS: Glue grant proposal  
2007-2010 NIH: INMP permanent member  
2014 Netherlands Organization for Scientific Research  
2016 University of Michigan Regional Comprehensive Metabolomics  
Resource Core

1991, 1996, 2016, 2017

Israel Science Foundation

**Editorial Boards**

1993-1998

Editorial Board: Journal of Biological Chemistry

2000-2005

Editorial Board: Journal of Biological Chemistry

2016-Present

Editorial Board: Journal of Nutrition

**SOCIETY MEMBERSHIPS:**

American Society of Biochemistry and Molecular Biology [ASBMB] (1985-Present)

American Society of Nutritional Sciences [ASNS] (2005-Present)

American Society of Nutritional Sciences-Awards Jury Panel (2016-2017)

American Society for the Advancement of Science [AAAS] (1985-2007; 2016-Present)

**PROFESSIONAL EXPERIENCE:**

1972-1973 Research Assistant, Oncology Section, Institute for Medical Research  
Camden, New Jersey

1973-1976 Research Assistant, Agricultural Chemistry Department, Oregon  
State University, Corvallis, Oregon

1977-1980 Pre-doctoral Research Fellow, Department of Biochemistry,  
Georgetown University, Washington, D. C.

1980-1982 Post-doctoral Fellow, Department of Medicine, Division of  
Endocrinology and Metabolism, University of Minnesota,  
Minneapolis, MN

1982-1985 Assistant Professor, Departments of Medicine, Genetics and Cell Biology,  
University of Minnesota Medical School, Minneapolis, MN

1985-1990 Assistant Professor (tenure stream), Department of Physiology, Michigan  
State University, East Lansing, MI

1990-1992 Associate Professor (with tenure), Department of Physiology, Michigan State  
University, East Lansing, MI

1992-1995 Associate Professor, Joint Appointment, Department of Biochemistry  
Michigan State University, MI

1994-2002 Associate Chair of Physiology, Michigan State University, East Lansing, MI

1994-2002 Director of the Graduate Program for Physiology,  
Michigan State University, E. Lansing, MI

1995-2007 Professor, Departments of Physiology, Biochemistry and Molecular Biology, MSU

2007-2011 Professor, Department of Nutrition and Exercise Sciences, Oregon State University,  
Corvallis, Oregon

2007-Present Principal Investigator, Linus Pauling Institute, Oregon State University, Corvallis, OR

2011-2023 Professor, School of Biological and Population Health Sciences, Oregon State  
University, Corvallis, OR

2023-Present Professor, College of Nutrition and Public Health, Oregon State University, Corvallis, OR

## **TEACHING:**

### **At University of Minnesota:**

Genetics and Cell Biology: 5950 Cellular Regulation 1983, 1985

### **At Michigan State University:**

Physiology, PSL 431: Endocrinology and Metabolism Section: Fall 1998

Physiology, PSL 432: Endocrinology and Metabolism Section: 1995-1998

Physiology, PSL 441: Endocrinology, Fall 1992, 1994

Physiology, PSL 805: Endocrine Recitation, Spring 1986

Physiology, PSL 811: Cellular and Neurophysiology, Fall 1992

Physiology, PSL 812: Advanced Systems Physiology, Spring 1993

Physiology, PSL 813 Advanced Systems Physiology II Spring 1987-1993

Physiology, PSL 875 Advanced Physiology Laboratory

Summer 1987, 1988, Spring 1989.

Physiology: PSL 841 Advanced Endocrine Physiology and Pharmacology, Fall 1987, 1989, 1991, 1993, 1995, 1997, 1999

Physiology, Molecular Biology for the Physiologist: A short course for the faculty of the Physiology Department, Winter 1987

Pharmacology: PHM 820 Drug Actions, Effects and Uses I, Fall 1988-1991

Zoology, ZOL 859 Analysis of Hormone Action, Spring 1988,

Physiology, PSL 919, Mechanism of Steroid Hormone Action, Fall 1990

Biochemistry, BCH 802: Metabolic Regulation and Molecular Endocrinology, 1994-2006

Physiology, PSL 850: Special Topic in Physiology, 1994-1995, 2001

Physiology, PSL 910: Cell and Molecular Physiology, 1994-2000

Physiology, PSL 828: Cell and Integrative Physiology, 2000-2007 (developed and coordinated course)

### **At Oregon State University:**

NUTR 312 Issues in Nutrition & Health, S2011, W2012, W2013, Spring 2014-2015

NUTR 418/518 Human nutrition: micronutrients: Winter term, 2022 to Present

NUTR 507/607 Graduate Seminar: Spring terms 2009-present

NUTR 617 Advances in Macronutrient Metabolism. Spring, 2008-present, odd years

NUTR 618 Advances in Micronutrient Metabolism, Spring 2013-present, even years

NUTR 699 Advances in chronic disease: Spring 2009, 2015, 2019

## **SERVICE:**

### **COMMITTEES:**

#### **At Michigan State University**

##### **Departmental Level at MSU:**

Graduate Affairs, 1986-1989, 1990-2007  
Graduate and Professional Course Curriculum Committee: 1990-2007,  
Chair, 1990-1993  
Comprehensive Exam, 1986, 1987, 1989 (Chair), 1990, 1991, 1992 (Chair), 1993-1997  
Physiology Department Advisory Committee, 1988-1993, 2005-2007  
Ad Hoc Committee to Evaluate Physiology Faculty Merit System, 1987  
Diversity Committee, 1990-1994, Chair  
Search Committee-Psl Metabolic Regulation-1: Chair 1993-1995  
Search Committee-Psl Metabolic Regulation-2: Chair 1994-1995  
Search Committee-Psl Transgenic Director: Chair 1994-1997  
Search Committee-Bch Nuclear Signaling: 1994-1996  
Search Committee-Surgery-Cytokine Signaling: 1995-1996  
Director of Research and Graduate Studies: 1994-2004  
Associate Chair of the Department of Physiology: 1994-2004

##### **College Level at MSU:**

College of Natural Science Advisory Council, 1989-1991  
College of Natural Science Strategic Planning Committee, 1997  
College of Human and Osteopathic Medicine Curriculum Development:  
Molecular/Genetics Interdisciplinary Group 1989-90  
College of Natural Science: MSU IDEA, 1989-1991, Strategic Planning, 1998-1999  
Molecular Cell Biology Program: Exec. Committee and Graduate Admissions, 1992-1994  
(Acting Director Jan, 1994-July 1994)

**University at MSU:** Biomedical Future Search: Team leader for Research Faculty Support 1997

#### **Oregon State University:**

##### **Departmental/Program:**

Search committee-NES Skeletal-muscular faculty search-2007  
Graduate Programs Committee, 2009-2020  
Director, Nutrition Graduate Program, 2008-2020  
Graduate Curriculum Committee, 2009-2019  
Biomedical Sciences Search Committee 2010, 2019

##### **College level:**

CPHHS: Tenure & Promotion Committee, 2008-2011; 2016-2019  
Pharmacy: Tenure & Promotion Committee, 2012, ad hoc

**University:**

Graduate Council, 2012-2015  
Institutional Animal Care and Use Committee (IACUC), 2012-2015  
Conflict of Interest: 2014-2017  
Search Committee for the Director of the Linus Pauling Institute, 2016-2017.  
Graduate Council Representative on student graduate committees: 2009-present: too many to list

**MANUSCRIPT, Dissertation & GRANT REVIEW SERVICE, Symposium Organization:**

**Manuscript Reviews for:** Journal of Biological Chemistry; Nature; Science; Cell; Proceedings of the National Academy of Science; Endocrinology; American Journal of Physiology; Journal of Cellular Biochemistry; Diabetes; Molecular Endocrinology; FASEB; Journal of Lipid Research; Lipids; European Journal of Biochemistry; Biochemistry et Biophysics Acta; Journal of Nutrition; Journal of Clinical Investigation; Cell-Metabolism; Journal of Molecular Medicine; PloS One; Journal of Clinical Nutrition; CRC Press/Taylor & Francis Publishers, Gastroenterology, Journal of Biochemical Nutrition, et al

**Grant and Dissertation Reviews for:****International:**

Israel Academy of Sciences and Humanities, 1991, 1996, 2016, 2017  
Borroughs-Wellcome Foundation-UK 2004  
Netherlands Organization for Scientific Research (NWO), 2014  
University of Tasmania, Australia: PhD Dissertation Committee member 2022

**Federal/Industry:**

Veterans Administration, 1986, 1990, 1991  
National Science Foundation, 1984-1993  
National Institute of Health:  
Molecular Cytology Study Section, Ad hoc 1987  
Nutrition Study Section: 1996  
National Institute of Mental Health: Special Panel 1997  
AIDS: 2000  
Metabolism Study Section (MET): 2001-2004  
Cellular Aspect of Diabetes and Obesity (CADO): 2004  
Integrative Physiology of Obesity and Diabetes (IPOD): 2018  
Integrative Nutrition and Metabolic Processes (INMP): 2005-2018  
US Department of Agriculture: 1999-2008  
Phillip Morris Research Foundation, 2005

**Michigan State University:**

Biomedical Research Support Grants, 1987-1995  
CNS-BRSG Panel, 1990  
All University Research Initiation Grants, 1986-1995  
Biotechnology Research Center, 1989, 1990, 1992-1995  
Institutional Research Program Grants: 1998-2004

## **Symposia Organization:**

- 1998: International Scientific Committee, 3rd Congress of the International Society for the Study of Fatty Acids and Lipids, Lyon France, June 2-5  
2001: FASEB/EB: Mini-symposium, Lipid Synthesis, Co-Chair, Orlando, FL  
2001: FASEB Summer conference: Nutrients and Gene Expression, Saxon River, VT  
2012: EB-2012: Mini-symposium: Polyunsaturated fatty acids and health, co-chair, San Diego, CA  
2013: EB-2013: Mini-symposium: Polyunsaturated fatty acids and health, chair, Boston, MA

## **GRADUATE EDUCATION:**

Graduate Students at Michigan State University

Physiology and Biochemistry & Molecular Biology Graduate Programs:

Major advisor for: (Name, Degree, date, current occupation)

- Gerald Lepar: Ph.D. Fall 1990, Univ. Ill veterinary school, DVM private practice  
Ormond MacDougald: Ph.D. Spring 1992, Professor, Integrative Physiology U Michigan  
Jingyang Lin, Ph.D. 1996 (major advisor after Krier's death)  
Richard Kustasz, Ph.D., D.O. 1996, private practice  
Ainan Xu, M. S. 1997  
Bing Ren (Bch) Ph.D. 1997, science writer, biotech firm Boston, MA  
Michelle Mater, Ph.D. 1998, Professor, McComb County Community College, MI  
Jinghua Xu, Ph.D. 2006, postdoc at University of Michigan, PrimBio Research Institute, LLC., Exton, PA  
Yun Wang, Ph.D. 2007, Univ Southern Calif. Dental School, 2010, Assistant Professor, Ohio State University-Dental School

Graduate Students at Oregon State University as major advisor (Nutrition Graduate Program):

Major advisor for:

- Sasmita Tripathy, Fall 2007-2012, Ph.D.; Post-doc: Univ. Washington, Seattle, WA  
Chris M Depner, Fall 2009- summer 2013; Ph.D.; Post-doc, Univ. Colorado-Boulder, CO  
Kelli A Lytle, Spring 2012-June 2016, Ph.D.; Research Asst Prof, Mayo Clinic, Rochester, MN  
Melissa Spooner, 2018-2022; PhD Spring 2022 Faculty position at University Tennessee, Knoxville, TN

## **Laboratory Personnel:**

Technical Personnel:

- Andrew Veit, 1987-1989, medical school, New Zealand  
Aneka Bell, 1989 -1991  
Barbara Christian, July 2002-2007

Postdoctoral Research Associates and Research Assistant Professors:

- Annette Thelen, 3/92 to 9/00  
Ormond A. MacDougald, 6/92 to 7/92, Professor, University of Michigan, Integrative Physiology  
David Pan, 1/96 to 12/99  
Michelle Mater, 9/98 to 9/99  
Archana Gangopadhyay 1/01 to 9/01  
Julia Busik 1/2002 to 2004, Assoc. Professor, Michigan State University, Physiology

Daniela Botolin M.D., June 2004 – 2007; current position: proacting physician  
Oliver Demeure, March 2005-March 2006, current position, Faculty, INSERM-France  
Moises Torres-Gonzalez, July 2007-2010 current position, Director of research, Dairy Council  
Sasmita Tripathy, Aug. 2012-2013: a current position, Assistant professor University of St  
Thomas- Saint Paul, MN  
Christopher M Depner, 2008-2012current position, Assistant professor-Pharmacology,  
University of Utah, Salt Lake, UT  
Kelli A. Lytle, Jun 15-Jul 30, 2016: current position, Research Assistant Professor, Mayo Clinic,  
Rochester, MN  
Manuel Garcia-Jaramillo, August 1, 2017-2021, current position, Assistant Professor,  
Environmental and Molecular Toxicology, Oregon State University, Corvallis Oregon.

#### Visiting Scientist:

Bill Helferich, Department of Animal Science, MSU, 1988; Univ Ill-Professor Nutrition Sciences  
Henry Bayley, Chair, Department of Nutritional Sciences, University of Guelph, 1991-1992  
Daniela Botolin, MD2002-2007, US MD certification at Univ Colo School of Medicine

## **RESEARCH**

### **FUNDING:**

#### **Completed:**

1. Minnesota Medical Foundation, University of Minnesota, 9/1/83 to 8/31/84, \$5,000. "Does thyroid hormone and diet regulate a multigene family in rat liver?"
2. The Graduate School, University of Minnesota, 11/1/83 to 10/31/84, \$10,000. "Thyroid hormone and dietary effects on hepatic chromatin structure."
3. BRSG, Michigan State University, 1/1/86 to 12/31/86, \$6,000. "Does triiodothyronine regulate a multigene family in rat liver?"
4. BRSG, Michigan State University, 7/1/86 to 6/30/87, \$3,000. "Hormonal and developmental regulation of gene expression in the mammary gland."
5. BRSG, Michigan State University, 1/1/86 to 12/31/86, \$2,800. "Monoclonal antibodies to a thyroid hormone responsive protein."
6. Biotechnology Research Center Award, Michigan State University, 5/1/86 to 4/30/87, \$8,679, Dr. R. Bernard as Principal Investigator. "Studies on the role of atrial natriuretic peptide (ANP) in salt appetite."
7. National Institute of Health, General Medical Sciences, GM36851: 7/1/86 to 6/30/90, \$216,551 (direct cost); 324827 total cost. "Chromatin structure of the rat liver S14 gene."
8. All University Research Initiation Grant: 7/1/89 to 6/30/90 \$7,500; "Towards understanding the function of the rat liver S14 protein".
9. The Upjohn Company: 1/1/90 to 12/31/90; \$16,000, "Development of an in vitro gene transcription assay"
10. American Diabetes Association-Michigan Affiliate, 7/1/89 to 6/30/91 \$24,982 (direct cost). "Insulin regulation of rat liver S14 gene transcription."
11. Biotechnology Research Center, Michigan State University, 7/1/90 to 6/15/91, \$20,816, "Insulin regulation of rat liver S14 gene transcription."
12. The Upjohn Company: 1/1/91 to 12/31/91; \$20,000, "Analysis of Dietary Fat Regulation of

- Hepatic Fatty Acid Synthase and S14 Gene Expression".
13. National Institute of Health, Diabetes, Digestive and Kidney Diseases, DK43220: 8/1/91 to 7/31/95 "Dietary Fat Regulation of Hepatic Gene Expression. \$113,903/yr 1; \$443,497 total direct cost. 665,246 Total cost
  14. National Institute of Health: Diabetes, Digestive and Kidney Diseases; DK43220; 8/1/95 to 7/31/00 "Dietary Fat Regulation of Hepatic Gene Expression. \$193,381/yr, 3 yr grant; \$870,215 total direct cost, total cost 1,305,322.
  15. Michigan Agricultural Experimental Station, \$5200 Oct. 1999
  16. U.S. Department of Agriculture, Program, Improving Human Nutrition for Optimal Health "Dietary Fat Regulation of Glycolytic Gene Expression" \$240,000 Total cost; 7/15/98-7/14/01.
  17. National Institute of Health: Diabetes, Digestive and Kidney Diseases, 8/15/00 to 3/31/05 "Dietary Fat Regulation of Hepatic Gene Expression. \$800,000 direct cost; 1,200,000 total cost
  18. NIH/DDK R21 The role of endothelial dysfunction in diabetic complications. Busik, J. (PI) Co-PIs: Jump, DB (5%) and Esselman, W 7/1/2003 – 8/31/2006 \$200,000 direct cost/year. 900,000 Total cost.
  19. US Department of Agriculture: 6/01/03 to 5/31/06: \$290,000 total cost. The role of hepatic metabolism in the control of transcription factor function.
  20. NIH RO1 EY0160077-01, Dyslipidemia and diabetic retinopathy. Busik, J (PI), Co-PIs Jump, DB and Esselman, W. 8/1/2005-7/31/2008 \$250,000, total cost \$1,125,000
  21. National Institute of Health: Diabetes, Digestive and Kidney Diseases, 4/1/05 to 3/31/11 DK43220: "Dietary Fat Regulation of Hepatic Gene Expression. \$1,125,000 direct cost 1,875,000 total cost.
  22. 2009-65200-05846, National Institute of Agriculture and Food, (USDA). "N-3 PUFA regulation of inflammation". 9/01/09-8/30/13, \$500,000 total cost.
  23. NIH-NIDDK: 1RO1DK094600-01: PUFA and the control of hepatic metabolism. 4/1/12 to 3/31/17; \$1,248,279 direct cost, total cost.1,872,4185
  24. NIH-NIDDK: 1RO1-DK112360 Omega-3 fatty acids control of fatty liver disease 4/1/2017 – 3/31/2023; \$1,323,000 total direct cost; total cost: 1,984,500

Total research support from 1984-2023: \$11,747,045

## **SCHOLARLY CONTRIBUTIONS**

### **INVITED PRESENTATIONS:**

1. Poly-ADP ribose as a regulator of HeLa cell chromatin structure. Department of Medicine, University of Minnesota, Minneapolis, MN, January 1979.
2. Thyroid hormone regulation of rat liver gene expression. Department of Cell Biology, University of Minnesota, St. Paul, MN, March 1982.
3. Mechanism of thyroid hormone regulation of hepatic gene expression. Smith, Kline and French, Upper Merion, PA, July 1984.
4. Mechanism of thyroid hormone regulation of hepatic gene expression. Department of Physiology, Michigan State University, East Lansing, MI, September 1984.
5. Mechanism of thyroid hormone regulation of hepatic gene expression. Department of Biochemistry, University of Kansas, Kansas City, KS, December 1984.

6. Mechanism of thyroid hormone action. Pharmacology Department, Michigan State University, November 1986.
7. Thyroid hormone regulation of rat liver S14 gene transcription. The Upjohn Company, Kalamazoo, MI, May 1988.
8. Thyroid hormone regulation of S14 gene expression. Fourth Meadow Brook Conference on The Molecular Mechanism of Steroid Hormone Action, September 16-18, 1988.
9. Multifactorial regulation of rat liver S14 gene expression. Department of Animal Science, Michigan State University, November 1988.
10. Thyroid hormone regulation of rat liver S14 gene expression. Department of Food Science and Human Nutrition Seminar Series on: Biotechnology/Molecular Biology New Developments in Nutrition, Food Production, Processing, Quality and Safety. February 22, 1989.
11. Thyroid hormone regulation of rat liver S14 gene expression. FELS Institute for Cancer Research and Molecular Biology, Temple University Medical School, July 21, 1989.
12. Thyroid hormone regulation of rat liver S14 gene transcription. Medical Technology Program, Michigan State University. October 4, 1989.
13. Molecular Mechanism Regulating Rat Liver S14 Gene Expression, Physiology Department, Michigan State University, March 8, 1990.
14. Keystone Symposium on Cellular and Molecular Biology. Molecular Approaches to the Study of Thyroid Hormone Action. "Thyroid Hormone Regulation of the S14 Gene in Liver and 3T3-F442A Adipocytes" Tamarron, Colorado, March 8-15, 1991.
15. FASEB Symposium on: Molecular Approaches in Nutritional Research, "Retinoic Acid and Glucocorticoid Regulation of Adipocyte Gene Expression." Atlanta, Georgia, April 21-25, 1991.
16. Department of Physiology, The University of Texas Health Science Center at San Antonio, Oct. 29, 1991. "Dietary Fatty Acid Regulation of Hepatic Fatty Acid Synthase and S14 Gene Expression".
17. Department of Physiology, The University of Texas Health Science Center at San Antonio, Oct. 30, 1991. "Thyroid Hormone and Retinoic Regulation of S14 Gene Transcription in Rat Liver and Cultured Adipocytes."
18. Department of Biochemistry, Michigan State University, Oct. 19, 1992, "Dietary fat regulation of hepatic gene expression."
19. 1993 1st International Congress: Lugano, Switzerland, "Dietary fat regulation of hepatic gene expression."
20. Department of Nutrition, University of Guelph, Ontario, Canada, January 29, 1993, "Dietary fat regulation of hepatic gene expression".
21. Department of Biology, Western Michigan University, March 16, 1994. "Dietary fat regulation of hepatic gene expression"
22. American Heart Association conference on "Omega 3 fatty acids in nutrition, vascular biology and medicine" April 16-19, 1994.
23. International Round Table on "Fatty acids and cell signaling", Madison, Wisconsin, June 10-12, 1994.
24. Department of Biochemistry, Michigan State University  
Dietary fat and hepatic gene expression, June 21, 1994.
25. The Albert B. Alkek Institute of Biosciences and Technology, Texas A&M University. "Dietary fatty acid regulation of hepatic gene transcription" June 29, 1994
26. FASEB Summer Conference on Nutrient Control of Gene Expression, San Jose, California, July 2-7, 1994.
27. Lilly Research Laboratories, Greenfield, Indiana, Nov. 9, 1994.
28. Nutritional Science Program, Cornell University, Department of Nutrition, Feb. 5, 1996
29. American Society of Biochemistry and Molecular Biology, June 2, 1996, New Orleans
30. American Institute for Cancer Research, August 31, 1996, Washington, D. C.

31. Parke-Davis, Molecular Biology Section, Nov. 8, 1996
32. Department of Biochemistry, University of West Virginia, March 12, 1997
33. Pennington Biomedical Research Center, Louisiana State University Medical School, Baton Rouge, Louisiana, Sept. 25, 1997.
34. Department of Nutritional Sciences and Toxicology, University of California-Berkeley, May 20, 1998
35. 3rd International Congress for the Society for the Study of Fatty Acids and Lipids (ISSFAL), Lyon France, June 1-5, 1998
36. 4th International Conference on Fatty Acids and Cell Signaling, Cape Cod, Massachusetts, June 21-23, 1998.
37. Department of Biology, Oakland University, Rochester, Michigan, Nov. 17, 1998
38. National Academy of Science, National Research Council, Washington, D.C. Dec. 9, 1998.
39. Department of Physiology, University of Michigan, Ann Arbor, Michigan, Jan. 20, 1999.
40. Department of Nutrition and Food Science, Wayne State University, Detroit, MI, Jan. 26, 1999
41. Department of Biochemistry, University of Wisconsin, Madison, Wisconsin, Feb. 15, 1999
42. International Workshop on "Dietary factors and cardiovascular disease", Viterbo Italy, June 20-23, 1999.
43. Summer lectureship, Department of Food Science and Human Nutrition, Iowa State University, Ames, Iowa, May 24-26, 1999.
44. 8th Asian Nutrition Congress, Seoul, Korea, August 29-Sept. 2 1999
45. Amer. Oil Chemist Society, April 25, 2000.
46. Atherosclerosis and Oxidant Stress Symposium, Oslo, Norway, June 24, 2000.
47. Physiology Department, Univ. Texas-San Antonio, TX Oct. 11, 2000.
48. Omega 3 fatty acids and cardiovascular disease Workshop, NIH Nov. 30-Dec. 2, 2000
49. USDA: Genes and Diet Conference, Wash. DC Dec. 6, 2000.
50. FASEB, Orlando, FL, Mini-symposium Co-Chair: Lipid synthesis. Mar 31- Apr 4, 2001.
51. Molecular and Cellular Aspects of Omega 3 fatty acids and Cancer, NIH workshop, June 28-30, 2001, Breckenridge, CO.
52. FASEB Summer Conference: Nutrients and Gene Expression, August 18-23, 2001, Saxton River, VT.
53. Nutritional Sciences, University of Illinois, Sept. 26, 2001, Champaign-Urbana, Ill.
54. Nordic Nutrition Foundation: Dietary fats and Gene Expression, Oct. 11, 2001, Lillehammer, Norway
55. American Oil Chemist Meeting, May 5, 2002, Montreal Quebec, Canada
56. Comparative Medicine, Wake Forest University-Medical School, Oct. 15, 2002.
57. Nutritional Sciences, University of North Carolina-Greensboro, Dec. 2, 2002
58. Pharmacology Department, University of Tennessee-Memphis, Dec. 5, 2002.
59. Food and Drug administration, Washington D.C., February 25, 2003
60. FASEB Symposium-ASCN, San Diego, CA, May 2003.
61. International Food Technology Conference on Nutrigenomics, July 16, 2003, Chicago, Ill.
62. 1<sup>st</sup> Congres de lipidomique, Paris, France. Sept 2, 2003.
63. Center for Molecular Toxicology, Department of Veterinary Science, Penn State University March 3, 2004.
64. American Diabetes Association Conference on: Integrative role of fatty acids in metabolic regulation: implications for obesity and diabetes. April 1-4, 2004 Newport RI
65. American Diabetes Association-Annual Meeting: Symposium on Nutrients and Gene Expression. June 4-8, 2004.
66. Department of Pharmacology, Medical College of Ohio, Toledo, OH, Oct. 12, 2004
67. MSU NC-1167 Annual meeting, N3-PUFA and human health and disease, Michigan State University, Nov. 4, 2004

68. 3<sup>rd</sup> International Meeting on PPARs, Efficacy and Safety, Monte Carlo, Monaco. March 19-23, 2005
69. FASEB Summer Conference: Nutrient Control of Gene Expression, July 30-Aug. 5, 2005. Tucson, AZ
70. International Conference on the Bioscience of Lipids, September 20, 2005 in Ajaccio, Corsica.
71. Fatty acids and cell signaling conference, Paris, France, Sept. 28, 2005.
72. EB 2006-Metabolic Regulation Symposium, San Francisco, CA, April 4, 2006 (Dr. Botolin gave talk)
73. Department of Nutrition and Exercise Science, Oregon State University, Corvallis, Oregon, May 18-19, 2006
74. Novel Aspects of Fatty Acids. Swedish Nutrition Foundation Ystads Saltjobad, Sweden June 14-16, 2006.
75. Department of Biological Chemistry, University of Michigan, Ann Arbor, MI September 12, 2006.
76. Department of Medicinal Biology, University of Toledo, Toledo, OH Nov. 2, 2006
77. Rank Prize Lecturer, Windemere, United Kingdom, May 14-15, 2007.
78. American Chemical Society, Symposium on Lipids and Obesity, Boston MA, August 20-23, 2007
79. Department of Nutrition and Exercise Science, Oregon State University, Sept 19, 2007
80. Department of Biochemistry and Biophysics, Oregon State University, March 7, 2008
81. EB-2008, ASBMB symposium: Lipids and Control of Gene Expression, San Diego, CA April 7, 2008.
82. Clinical Nutrition, New York University, NYC, March 18, 2009
83. Human Nutrition Program, Columbia University, NYC, March 18, 2009
84. Pharmacology Department, OSU, Nov. 24, 2009
85. Molecular Genetics Dept, University of Texas-Southwestern, Dallas, TX, August 13, 2009
86. Biochemistry Dept., Dartmouth University, Hanover, NH, November 10, 2009
87. American Oil Chemist Society, Phoenix, AZ, May 17, 2010
88. USDA program directors meeting (poster presentation) IFT10, Chicago, IL, July 16-17, 2010.
89. EB-2011, ANS Symposium-PUFA and Health, Washington, DC April 12, 2011.
90. USDA program directors meeting, oral presentation, EB2013, Boston, MA. April 20, 2013.
91. American Institute for Cancer Research annual meeting, Oct. 30, 2014, Washington, D.C.
92. Gordon Research Conference, Galveston, TX. Keynote Presentation: Emerging paradigms in lipid research. Feb. 1-5, 2015.
93. Nutrition Society, March 26, 2015, Aberdeen, Scotland.
94. American Diabetes Association, New Orleans, LA., Fibrosis and Insulin action Symposium June 13, 2016.
95. Amarin Pharmaceuticals, Chicago, Ill. Preclinical Assessment of  $\omega$ 3 PUFA in NASH prevention and therapy. Oct 27-28, 2016
96. Department of Nutrition and Exercise Physiology, Division of Gastroenterology & Hepatology University of Missouri-Columbia School of Medicine, Columbia MO; Nov. 10<sup>th</sup>, 2016. Combating nonalcoholic fatty liver disease.
97. Department of Nutrition, University of Kentucky, Dept of Dietetics and Human Nutrition. 2020.

## **RESEARCH PUBLICATIONS (peer-reviewed):**

1. Deeney, A., O'C., Jump, D.B. and Beaudreau, G.S. (1976) Comparison of DNA in the core components from Schmidt-Ruppin RSV transforming and non-transforming virus. **Biochemistry Biophysics Research Communication** 71: 733-738.
2. Butt, T.R., Jump, D.B. and Smulson, M.E. (1979) Nucleosome periodicity in the HeLa chromatin as probed by micrococcal nuclease and ADP-ribosylation. **Proceeding of the National Academy of Science U.S.A.** 76: 1628-1632.
3. Jump, D.B., Butt, T.R. and Smulson, M.E. (1979) Nuclear protein modification and chromatin substructure 3. The relationship between functionally different forms of chromatin and poly ADP-ribosylation. **Biochemistry** 18: 983-990.
4. Butt, T.R., DeCoste, B., Jump, D.B., Nolan, N. and Smulson, M.E. (1980) Characterization of a putative poly ADP-ribosylated chromatin complex. **Biochemistry** 19: 5243-5249.
5. Jump, D.B., Sudhakar, S., Tew, K. and Smulson, M. (1980) Probes to study the effect of methyl nitrosourea on ADP-ribosylation and chromatin structure at the subunit level. **Chemistry Biological Interactions** 30: 35-51.
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## **CHAPTERS, REVIEWS & OPINION Articles (\*Peer-reviewed):**

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**Scholarly Ranking, based on publications:**

**Google Scholar Metrics (Jan 19, 2026)**

Total citations: **18021**  
 Average citations/paper 136  
 Average/year (1975-2026) 353  
 H-index: **66**

**Scholars GPS, Global ranking: Highly Ranked Scholar - Lifetime (1-19-2026)**

#6 Polyunsaturated fatty acid  
 #27 Fatty acid  
 #159 Gene expression  
 Publication Count: 152; Citation: 17908; H-Index: 71

**MEDIA INTERVIEWS:**

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- 2. Spring term 2008, Interview for Synergies; College of Health and Human Science magazine.
- 3. June 26, 2008, KEX radio, phone interview: Not all fat is bad.
- 4. July 3, 2008, Corvallis Gazette-Times. Omega 3 fatty acids and health.
- 5. July 7, 2010, Dave Stauth, OSU News Service. Discovery points to new approach for diabetes therapy.
- 6. July 15, 2010, Corvallis Gazette-Times. Discovery could aid in future diabetes therapy.
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- 8. Sept. 24, 2010, Nature Outlook. Nutrigenomics: dietary fatty acids as regulators of gene expression.
- 9. Feb. 21, 2011, KBVR radio interview. Omega 3 fatty acids and health.
- 10. Nov. 2012. Dave Stauth; OSU News Service. Omega-3 fatty acid supplements and cardiovascular disease
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- 12. Dec. 12, 2012: Karolyn A Gazella; Natural Medicine Journal, Omega-3 fatty acid supplements and cardiovascular disease.
- 13. Dec. 14, 2012, Shannadora Hollis interview for ASBMB Today, Omega-3 fatty acid supplements and cardiovascular disease.

14. Feb. 20, 2013: Marissa Fessenden, Scientific American.
15. March 18, 2013, Mike Peplow, New Scientist. Article, "Food vs Man", August 8, 2013.
16. January 29, 2014, Dave Stauth, OSU News Service. More benefits of omega-3 fatty acids.
17. March 17, 2014, Tara Bannow, Bend Bulletin, Oregon's drug use and management service review of therapeutic use of omega-3 fatty acids.
18. Dave Stauth. OSU News Service "Liver recovery difficult even with improved diet – but faster if sugar intake is low" Jan 13, 2016
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20. Alex Ossola, Apr 11, 2016, The Kitchn, a food-focused lifestyle publication
21. OSU News Service, April 19, 2017, article linked to the PloS One Paper published on this date.
21. Podcast: Nutrient offers hope to stop deadly march toward cirrhosis, liver cancer W/Dr. Donald Jump, Apr 21 2017; Triceptor Productions