CURRICULUM VITAE

Name: Marla J. Berry
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Education:

1980	BA, Biochemistry/Molecular Biology, Dept. of Biological Sciences, Univ. of California, Santa Barbara, CA
1986	PhD, Biochemistry/Molecular Biology, Dept. of Biological Sciences, Univ. of California, Santa Barbara, CA

Postdoctoral Training:

1986-1987	Postdoctoral Scientist, Virus and Cell Biology Merck, Sharp and Dohme Research Laboratories, West Point, PA
1987-1991	Research Associate, Howard Hughes Medical Institute, Brigham and Women's Hospital, Boston, MA Research Fellow in Medicine, Harvard Medical School, Brigham and Women's Hospital, Boston, MA

Academic Appointments:

1991 - 1992	Instructor in Medicine, Harvard Medical School, Boston, MA
1992 - 2000	Assistant Professor of Medicine, Harvard Medical School, Boston, MA
1995 - 2000	Adjunct Assistant Professor, Biochem. and Molecular Pharm., Harvard Medical School, Boston, MA
1998 - 2000	Adjunct Assistant Professor, Department of Nutrition, Harvard School of Public Health, Boston, MA
2000 – 2002	Associate Professor of Medicine, Harvard Medical School, Boston, MA
2000 - 2002	Adjunct Associate Professor, Biochem. and Molecular Pharm., Harvard Medical School, Boston, MA
2000 - 2002	Adjunct Associate Professor, Department of Nutrition, Harvard School of Public Health, Boston, MA
2002 – 2020	Professor, Cell and Molecular Biology, John A. Burns School of Medicine (JABSOM), University of Hawaii at Manoa, Honolulu, HI
2004 – 2019	Dept. Chair, Cell and Molecular Biology, JABSOM, University of Hawaii at Manoa, Honolulu, HI
2004 – 2005	Cell and Molecular Biology Graduate Program Chair, JABSOM, UH Manoa
2005 – 2020	Cell and Molecular Biology Graduate Program Co-chair, JABSOM, UH Manoa
2020 – present	Professor and Director, Pacific Biosciences Research Center, School of Ocean and Earth Science and Technology, University of Hawaii at Manoa, Honolulu, HI

Service – University of Hawaii (current and past):

2002 – 2020	CMB Graduate Program Executive committee member
2003 – present	Mentor, University of Hawaii Undergraduate Honors Program
2004 – 2018	INBRE Executive committee
2004 – 2019	JABSOM Executive Committtee
2004 – 2020	JABSOM Women Faculty Mentoring Committee
2004 – 2016	JABSOM Masters in Clinical Research Advisory Committee
2004 – 2020	JABSOM ARCS Scholarship Committee
2005 – 2020	JABSOM Super Internal Advisory Committee
2005 – present	Mentor, Pacific Research in Diabetes Excellence (PRIDE) Program
2006 – 2011	JABSOM Special events and awards committee chair
2007 – 2008	JABSOM Pharmacology Faculty Search Committee
2007 – 2008	JABSOM Physiology Faculty Search Committee
2007 – present	CTAHR Nutrition Graduate Program Admissions Committee
2008 – 2012	Institute for Biogenesis Research COBRE Internal Advisory Committee
2008 – 2013	Scientific Advisory Committee for Magnetic Resonance Imaging SNRP
2008 – 2018	Cardiovascular COBRE Internal Advisory Committee
2008 – 2020	JABSOM Diversity Group Committee
2009 – 2010	JABSOM Native Hawaiian Health Faculty Search Committees
2009 – 2014	JABSOM representative to UH Cancer Research Center Executive Committee
2009 – 2015	Neurosciences task force, Mediator for Mentoring core

2009 – 2020	JABSOM Promotion and Tenure workshop participant
2011 – 2012	JABSOM Cardiovascular Faculty Search Committees
2012 – 2013	JABSOM Pathology Dept Chair Search Committee
2013 – 2014	Surgery Dept Chair Search Committee
2016	JABSOM Bioinformatics Faculty Search Committee
2019 – 2020	JABSOM Faculty Development Working Group
2020	PBRC Director Search Committee (disbanded due to Pandemic hiring freeze)

Service – Grant Reviewer (current and past):

National

1995 - 2000	NIH Nutrition Study Section
1997	NIH NIEHS Study Section
1997	NIH Hematology Study Section
2000 - 2005	NIH Nutrition Study Section, Charter Member, name changed in 2004
2004 – 2005	NIH Integrative Nutrition and Metabolic Processes Study Section
2006	NIH-NSF Center for Oceans and Human Health
2006	American Federation for Aging Research
2007	NIH R13 Meeting and Conference grants
2007	Texas Tech Initiative
2008	NSF MCB – Genes and Genome Systems
2009	NIH RC1 Challenges Grant Program
2010	NSF MCB – Genes and Genome Systems
2012	NIDDK K award and T award training grants
2012	R15 AREA grants
2013	NIMHD G12 RCMI Study Section
2013	NIGMS R01 RFA Study Section
2013	NIGMS Clinical and Translational Research
2015	Department of Veterans Affairs
2016	EPSCOR
2017 - 2018	NIH NIDDK Endocrinology, Metabolism, Nutrition and Reproductive Sciences EMNR
2018 - 2023	NIDDK F30-31-32 - NIH NIDDK Fellowships in Digestive Diseases and Nutrition
2022	NIH NIGMS COBRE II
2022	NIH NIGMS COBRE III
2024	NIH NIGMS COBRE I
2025	NIH NIGMS COBRE I
2026	NIH NIGMS COBRE III

International

1995 – 2005	Wellcome Trust, Israel Science Foundation, Royal Society of New Zealand,
2006	Association Francaise contre les Myopathies
2009	Medical Research Council
2013	Science Foundation Ireland
2017	Medical Research Council

Local

2007 - 2010	NCRR RCMI Bridging Fund
2010 - 2012	NCRR RTRN small grants
2014 - 2017	NIMHD U54 RMATRIX Pilot Project Program
2017 – 2020	NIMHD OLA HAWAII Pilot Project Program
2020 – 2021	UH UROP
2019 – present	UH Cancer Center Pilot project grants

Service – External committees

1994-1998	American Thyroid Association Program, Public Health and Research Committees
1998-1999	Chair, American Thyroid Association Research Committee
1998-present	International Advisory Board, International Symposium on Selenium in Biology and Medicine

2000-present Organizing Committee, International Symposium on Selenium in Biology and Medicine
2011-2016 External Advisory Committee, Chaminade University of Honolulu, Building Research Infrastructure and Capacity (BRIC) Program

Professional Society Involvement:
1992-present Member, Endocrine Society
2008-present Member, American Society for Biochemistry and Molecular Biology
2008-present Member, American Society for Nutrition

Editorial Boards:
1993-1996 Editorial Board, Endocrinology
2005-2006 Editorial Board, Journal of Biological Chemistry
2010-2012 Editorial Board, Journal of Trace Elements in Biology and Medicine

Journal reviews (partial list):
2021 Science, Nutrients, Viruses, Int'l J Molec Sciences, Biol Trace Elements Research, J Molecular Biology
2022 Science, PLOS One, Free Radicals in Biology and Medicine, Archives of Biochemistry and Biophysics
2023 eLife, Redox Biology, American J Clin Nutrition, Food and Function, Frontiers in Genetics
2024 Trends in Endo and Medicine, Nutrients, mSystems, Academia Nutrition and Dietetics, FASEB Journal
2025 Biomolecules, FASEB Journal, Metabolism, Academia Nutrition and Dietetics, Chemistry, Nutrients, Journal of Nutritional Biochemistry

Previous journal reviewing included Nature, Nature Structure and Molecular Biology, Molec Cell Biol, EMBO J, J Mol Biol, J Biol Chem, RNA, Nucleic Acids Research, J Nutrition, J Nutritional Biochemistry, Endocrinology, Thyroid, Trends in Genetics, Biotechniques, Biochim Biophys Acta, Mol Cell Biochem, and numerous other journals

Awards and Honors:
1980 Leon F. Goodman Scholarship, University of California
1980 Mildred Wright Scholarship for Undergraduate Research
1993 Women in Endocrinology Award, Endocrine Society
1998 Nutrition Emphasis Week Visiting Professor, University of Missouri, Columbia
1999 American Thyroid Association Van Meter Prize for outstanding contributions to thyroid research
2001 Ruth Pike Lectureship for significant contributions to nutrition research**,** Pennsylvania State Univ.
2004 Mary Shorb Lecturer, University of Maryland
2006 Scientist of the Year, Achievement Rewards for College Scientists, Honolulu Chapter

Extramural Research Funding:
Extramural funding from 6-2021 through 5-2025 is $12,955,703 (5-year total)
NIH Lifetime funding as sole Principal Investigator is in excess of $36 million
NIH Lifetime funding per NIH REPORTER including as PI, Core Director, Activity Leader is in excess of $42 million
NIH Lifetime funding as sole PI of individual research project grants (R01, R56, R29) is in excess of $12 million

Current Funding
NIH P20 GM139753 (Berry MJ; PI) 03/20/22 – 01/31/27 $10,995,000 (5-year total)
Title: Integrative Center for Precision Nutrition and Human Health

Past Funding
NIH R01 DK47320 (Berry MJ; PI) 08/01/94 – 03/31/22 $7,588,703 (28-year total)
Title: Mechanism of selenoprotein synthesis in eukaryotes

U54 MD007601 (Hedges J; PI) 09/21/17 – 06/30/22 $5,275,165 (5-year total for Investigator Development Core)
Title: Ola Hawaii
Role: Investigator Development Core (IDC) Director

NIH G12 MD007601 (Berry MJ; PI) 09/16/11 – 09/20/17 $15,042,881 (6-year total)
Title: Bioscience Research Infrastructure Development for Grant Enhancement and Success - RCMI BRIDGES

NIH G12-RR003061 (Yanagihara, R; PI) 08/01/07 – 07/31/12 $601,385 (5-year total for Bioact Nutrients Activity)
Title: Selective Research Excellence in Biomedicine and Health
Role: Bioactive Nutrients Activity Leader

NIH R01-NS040302 (Berry MJ; PI) 07/01/00 – 05/31/09 $2,770,712 (9-year total)
Title: Selenoprotein P function and regulation of expression

NIH R01-DK052963 (Berry MJ; PI) 09/01/97 – 07/31/07 $ 2,007,923 (10-year total)
Title: Alternative Mechanisms of UGA codon recognition

2010-2015	NIH R24-DA027318	Co-director	DIDARP
2007-2012	NIH U54-NS056883	Project Co-lead	SNRP - Imaging Studies: Neurotoxicity and Neurodevelopment
2004-2018	NIH P20-RR16467	Mentor	INBRE - Hawaii Statewide Research Education Partnership
2000-2004	NIH R01	Subcontract PI	Synthesis of selenium containing proteins
1998-2002	NIH R01	Co-PI	Physiological role of thyroxine binding proteins
1996-1997	NIH R43-DK051452	Subcontract PI	Selenocysteine tagging of endocrine proteins
1993-1994	NIH R29-DK045944	PI	Mechanism of selenocysteine incorporation in eukaryotes

Mentoring and Training:

Graduate Students (50)
Current: University of Hawaii
Chair (1)
Mark Boktor, PhD student, Cell and Molecular Biology, University of Hawaii

Committee member (2)
Kayla Colaruotolo, PhD student, Cellular and Molecular Biology, University of Hawaii
Princess Jena Santiago, MS student, Molecular Biosciences and Bioengineering, University of Hawaii

Past: University of Hawaii
Chair (13) (11 PhD, 2 MS)
Jeffrey Squires, PhD, Cell and Molecular Biology, University of Hawaii (Chair)
Marci Reeves, PhD, Cell and Molecular Biology, University of Hawaii (Chair)
Christy Gilman, MS, Cell and Molecular Biology, University of Hawaii (Chair)
Lucia Seale, PhD, Cell and Molecular Biology, University of Hawaii (Chair)
Arjun Raman, PhD, Cell and Molecular Biology, University of Hawaii (Chair)
Ali Seyedali, PhD, Cell and Molecular Biology, University of Hawaii (Chair)
China Burns, MS, Cell and Molecular Biology, University of Hawaii (Chair)
Mindy McDermott, PhD, Cell and Molecular Biology, University of Hawaii (Chair)
Ashley Ogawa, PhD, Cell and Molecular Biology, University of Hawaii (Chair)
Penny Kremer, PhD, Cell and Molecular Biology, University of Hawaii (Chair)
Elizabeth Nguyen-Wu, PhD, Cell and Molecular Biology, University of Hawaii (Chair)
Ting Gong, PhD, Molecular Biosciences and Bioengineering, University of Hawaii (Chair)
Jessica Nicholson, PhD, Cell and Molecular Biology, University of Hawaii (Chair)

Committee member (27)
Chaonan Ding, PhD, Molecular Biosciences and Bioengineering, University of Hawaii
Qirui Hu, PhD, Cell and Molecular Biology, University of Hawaii
Matthew Coussens, PhD, Cell and Molecular Biology, University of Hawaii
Matthew Pitts, PhD, Cell and Molecular Biology, University of Hawaii
Yanling Lin, MS, Molecular Biosciences and Bioengineering, University of Hawaii
Yu Cheng, MS, Molecular Biosciences and Bioengineering, University of Hawaii
Michelle Jhun, MS, Cell and Molecular Biology, University of Hawaii
Cheryl Koide, MS, Nutrition, University of Hawaii
Mindy McDermott, MS, Cell and Molecular Biology, University of Hawaii

Elizabeth Nguyen-Wu, MS, Cell and Molecular Biology, University of Hawaii
Xiaosha Pang, PhD, Cell and Molecular Biology, University of Hawaii
Jason Higa, PhD, Cell and Molecular Biology, University of Hawaii
Komal Arora, PhD, Cell and Molecular Biology, University of Hawaii
Stephanie Barayuga, MS, Cell and Molecular Biology, University of Hawaii
James Lawrence, PhD, Cell and Molecular Biology, University of Hawaii
Christie Wilcox, PhD, Cell and Molecular Biology, University of Hawaii
Gregory Fredericks, PhD, Cell and Molecular Biology, University of Hawaii
Amanda Lee, PhD, Cell and Molecular Biology, University of Hawaii
Brianna Shimada, PhD, Cell and Molecular Biology, University of Hawaii
Amanda Reyes, MS, Cell and Molecular Biology, University of Hawaii
Naghum Alfulaij, PhD, Cell and Molecular Biology, University of Hawaii
Michael Robles, PhD, Cell and Molecular Biology, University of Hawaii
Kelly Forest, PhD, Cell and Molecular Biology, University of Hawaii
Herena Ha, MS, Cell and Molecular Biology, University of Hawaii
Silvia Moriano-Gutierrez, PhD, Molecular Biosciences and Bioengineering, University of Hawaii
Joseph Avery, PhD, Cell and Molecular Biology, University of Hawaii
Alex Sasuclark, PhD, Cell and Molecular Biology, University of Hawaii

Past: Harvard Medical School
Chair (1)
Glover Martin, PhD, Graduate Program in Biological and Biomedical Sciences, Harvard Medical School (Chair)

Committee member (3)
Michael Ettore, PhD, Graduate Program in Biological and Biomedical Sciences, Harvard Medical School
Elisabeth Nigh, PhD, Graduate Program in Biological and Biomedical Sciences, Harvard Medical School
Rosa Larralde Rideau, PhD, Graduate Program in Biological and Biomedical Sciences, Harvard Medical School

Rotation and Foreign Exchange (3)
Joe Rayman, PhD, Graduate Program in Biological and Biomedical Sciences, Harvard Medical School
Irina Tsyguelnaia, PhD, Graduate Program in Biological and Biomedical Sciences, Harvard Medical School
Berta Alsina, PhD, Graduate Program in Genetics, Universitat de Barcelona (Foreign Exchange)

Medical students (4)
Past: University of Hawaii (3)
Christy Gilman (11 – 14), MD, JABSOM
Nikki Chong (09 – 10), MD, JABSOM
Kyoko Nakamura (04), MD, Univ of Tokyo

Past: Harvard Medical School (1)
Ben Sun, MD, PhD, Harvard Medical School

Postdoctoral Fellows (27)
Past: University of Hawaii (15)
Jun Chen (2002-2007), *Currently: Research Assoc. Professor, Cell and Molecular Biol, JABSOM, UH Manoa*
Peter Hoffmann (2004-07), *Currently: Professor, Cell and Molecular Biol, JABSOM, UH Manoa*
Andrea Small-Howard (2004-06), *Currently: Chief Science Officer at GB Sciences, Inc., Center for Healthcare Innovation, International Biotechnology Solutions*
Sergi Castellano (2004-05), *Currently: Professor of Genomics, University College London*
Rick Bellinger (2006-08), *Currently: Research Assist. Professor, Cell and Molecular Biol, JABSOM, UH Manoa*
Matthew Pitts (2009-2013), *Currently: Assistant Professor (Tenure-Track), Cell & Molecular Biol, JABSOM, UH Manoa*
Marci Reeves (2011), *Currently: Health and fitness coach*
Arjun Raman (2012-2013), *Currently: Professor, Biology Department, University of Alaska, Kachemak Bay*
Suguru Kurokawa (2012-2014), *Currently: Associate Faculty Osaka Ohtani University*
Lucia Seale (2012-2017), *Currently: Research Assoc. Professor (Tenure-Track), Pacific Biosci Res Ctr, UH Manoa*
Ali Seyedali (2014-2015), *Currently: Science Teacher, Cristo Rey High School, Boston*

Penny Kremer (2017), *Currently: Forensic Scientist, Honolulu Police Dept.*
Daniel Torres (2017 -2023), *Currently: Research Assist. Professor and COBRE RPL, Pacific Biosci Res Ctr, UH Manoa*
Naghum Alfulaij (2018 – 2022), *Currently: Assist. Professor, Pacific Biosci Res Ctr, UH Manoa*
Briana Shimada (2021-2022), *Currently: Research Assist. Professor and COBRE RPL, Pacific Biosci Res Ctr, UH Manoa*

Past: Harvard Medical School (7)
Susan Low (1994-1996), Harvard Medical School, *Currently: Syntonix Pharmaceuticals Inc., Waltham, MA*
Rosa Tujebajeva (1997-2001), Harvard Medical School
Elisabeth Grundner-Culemann (1998-2000), Harvard Medical School
Nadya Morozova (1999-2002), Harvard Medical School, *Currently: Institut des Hautes Études Scientifiques, France*
Ann Marie Zavacki (1999-2002), Harvard Medical School, *Currently: Assistant Prof in Medicine, Harvard Med School*
John Mansell (2000-2002), Harvard Medical School, *Currently: Biotechnology Patent Attorney, Director, Catalyst IP Patents Limited, Auckland NZ*
Zoia Stoytcheva (2001-2007), Harvard Medical School, *Currently: Honors Program Lecturer, Assistant Prof, UH Manoa*

MD fellows (5)
Past: Harvard Medical School (all 5 tenured, all 5 funded)
Susan Mandel (1992-1994), Harvard School of Public Health, *Currently: Professor & Chief of Division of Endo, Diabetes & Metabolism, Dir of Clin Endo, Diabetes, Metabolism, Dir of Endo Fellowship Training Program, Univ Pennsylvania*
Graham Williams (1992-1994), Harvard Medical School, *Currently: Prof of Endo, Div of Medicine, Medical Research Council Clinical Sciences Centre and Consultant Physician, Hammersmith Hospital, Imperial College, London, UK*
Nagaoki Toyoda, MD, PhD, *Currently: Professor, Univ of Tokyo*
Ana Luisa Maia, MD, PhD, *Currently: Professor, Univ of Sao Paolo*
Christoph Buettner (1997-1999) Harvard Medical School, *Currently: Professor, Medicine, Endocrinology, Diabetes and Bone Disease, Rutgers, NJ; Associate Professor, Neuroscience, Icahn School of Medicine at Mount Sinai, NY*

Faculty (21 – partial listing)

	TT/Tenured (13)	Extramurally Funded(16)
Current: University of Hawaii (5)		
Lucia Seale	Y	Y
Christoph Rettenmeier		
Briana Shimada		
Daniel Torres		
Nia Alfulaij		
Past: University of Hawaii (13)		
Mi Jeong Lee	Y	
Monica Esquivel	Y	Y
Matt Pitts	Y	Y
Cedomir Todorovic		Y
Alex Stokes		Y
Michelle Matter	Y	Y
Monika Ward	Y	Y
Yukiko Yamazaki	Y	Y
Pratibha Nerurkar	Y	Y
Ping An Li	Y	Y
Peter Hoffmann	Y	Y
Mariana Gerschenson	Y	Y
Jun Panee		Y
Past: Harvard Medical School (3)		
Susan Mandel	Y	Y
Christoph Buettner	Y	Y
Ann Marie Zavacki		Y

Teaching contributions

My teaching contributions have included courses through the Biological and Biomedical Sciences graduate program at Harvard Medical School, at Harvard School of Public Health, in the Cell and Molecular Biology graduate program and the Masters and PhD in Clinical Research Program at JABSOM, University of Hawaii, and a mentoring program offered to junior faculty in the health/life sciences at UH and remotely to 8 other institutions. This includes serving as course organizer, course director, lecturer, and discussion group leader.

1996 - 2000	BPH 222 - The Science of Human Nutrition Harvard School of Public Health Lecturer, member of teaching faculty
1997 - 1998	BCMP 201 - Biochemistry and Cell Biology Division of Medical Sciences, Harvard Medical School Discussion group leader
1998 - 2001	BCMP 200 - Molecular Biology Division of Medical Sciences, Harvard Medical School Lecturer, member of teaching faculty
1999 - 2001	BCMP 370/Cell Biol 300 - The RNA World Division of Medical Sciences, Harvard Medical School Course organizer and director, lecturer, 1 hr per week, 16 weeks
1999 - 2001	Genetics 330 - Critical Thinking and Research Proposal Writing BBS Graduate Program, Division of Medical Sciences, Harvard Medical School Discussion section leader, member of teaching faculty, 2 hrs per week, 16 weeks
2002 - 2011	CMB 621 – Cell and Molecular Biology Graduate Program in Cell and Molecular Biology, University of Hawaii Lecturer, member of teaching faculty, 4 hrs per semester
2004 - 2011	CMB 626 – Ethics in Biomedical Research Graduate Program in Cell and Molecular Biology, University of Hawaii Course director, lecturer, member of teaching faculty, 2 hrs per week, 16 weeks
2004 - 2011	Grantsmanship and Scientific Writing, Masters and PhD in Clinical Research Masters and PhD in Biomedical Science Program, JABSOM Lecturer, member of teaching faculty, 2 hrs per semester
2015 - 2018	CMB 654G, Essentials in Grant Writing Graduate Program in Cell and Molecular Biology, University of Hawaii Lecturer, member of teaching faculty, 2 hrs per week, 16 weeks
2019 - 2020	CMB 621 – Cell and Molecular Biology Graduate Program in Cell and Molecular Biology, University of Hawaii I was Course Director and member of the teaching faculty for this required 1st year Core course in the CMB graduate program, 4 hrs per week, 16 weeks
2018 – 2024	Mentoring Bootcamp Ola Hawaii Investigator Development Core, NIH-NIMHD RCMI grant sponsored, Intensive career development course for junior faculty in health/life sciences across UH I created, organized and directed this course, inviting 20 faculty to facilitate discussions, held for 20-24 hrs over 2-4 weeks annually every May for 6 years. Over 400 participants from UH Manoa, over 500 participants, including via zoom from 8 outside institutions

Regional, national, or international presentations (invited)

1991 Interrelationships btw iodine deficiency, Se deficiency, thyroid hormones, Aberdeen, Scotland, Invited lecture
Departmental Seminar, University of California, San Diego, CA, Invited lecture
International Thyroid Congress, The Hague, Netherlands, Plenary Lecture

1992 Departmental Seminar, Fox Chase Cancer Center, Philadelphia, PA, Invited lecture
Departmental Seminar, University of California, Los Angeles, CA, Invited lecture
Endocrine Grand Rounds, Brigham and Women's Hospital, Boston, MA, Invited lecture

1993 Alternate Readings of the Genetic Code Workshop, Parknasilla, Ireland, Invited lecture
2nd International Conference on Thyroid Hormone Metabolism, Long Beach, CA, Invited lecture
British Biochemical Society Meeting, Sheffield, England, Invited lecture

1994 Departmental Seminar, University of Missouri, Columbia, MO, Departmental seminar, Invited lecture
American Thyroid Association, Chicago, Il, Meet the Professor Session, Session chair, Invited lecture

1995 Jacques Monod Conference, Fate of eukaryotic mRNA in the Cytoplasm, Aussois, France, Invited lecture
FASEB Summer Conference on Trace Elements, Copper Mountain, CO, Invited lecture
Fed of Australian and Oceanian Society of Biochem and Molecular Biologists, Sydney, Australia, Invited lecture
Oregon State University, Departmental Seminar, Corvallis, OR, Invited lecture
UC Santa Cruz, Departmental Seminar, Invited lecture
International Thyroid Congress, Toronto, Canada, Session chair

1996 Experimental Biology Meeting, Selenium session, Washington, D.C., Session chair and invited lecturer,
University of Utah, Departmental Seminar, Salt Lake City, UT, Invited lecture
Ludwig Maximillians University, Munich, Germany, Invited lecture
European Molecular Biology Laboratory, Heidelberg, Germany, Invited lecture
6th Thyroid Symposium, Thyroid and Trace Elements, Graz, Austria, Invited lecture
6th Int'l Symposium on Selenium in Biology and Medicine**,** Beijing, China, Session chair and invited lecturer
International OJI Seminar, Posttranscriptional control of gene expression, Hakone, Japan, Invited lecture
American Thyroid Association, San Diego, CA, Plenary lecture

1997 VIIth International Conf on the Chemistry of Selenium and Tellurium, Vaalsbroek, Netherlands, Invited lecture
RNA Society, Banff, Canada, Oral presentation
American Thyroid Association, Colorado Springs, CO, Session chair and invited lecturer
Tufts Medical School, Departmental seminar, Boston, MA, Invited lecture

1998 Nutrition Seminar Series, Harvard School of Public Health, Boston, MA, Invited lecture
Nutrition Emphasis Week, University of Missouri, Columbia, MO, Plenary lecture
RNA Society Meeting, Madison Wisconsin, Invited lecture
FASEB Summer Conference on Trace Elements, Namaste Retreat, OR, Invited lecture

1999 Experimental Biology Meeting, Minisymposium on selenium, Washington, D.C., Plenary lecture
Jacques Monod Conference, Fate of eukaryotic mRNA in the Cytoplasm, Aussois, France, Invited lecture
Meet the Professor Seminar, American Thyroid Association, West Palm Beach, FL, Invited lecture
American Thyroid Association, Palm Beach, FL, Session chair

2000 Biochem. and Molecular Pharm. Dept. Retreat, Graduate Program in Biological and Biomedical Sciences,
Harvard Medical School, Waterville Valley, NH, Co-organizer and Session chair
RNA Society Meeting, Madison Wisconsin, Invited lecture
FASEB Summer Conference on Trace Elements, Whitefish, MO, Session chair and invited lecture
University of Nebraska, Lincoln, Departmental seminar, Invited lecture
University of California Los Angeles, Departmental seminar, Invited lecture
Cold Spring Harbor Meeting on Translational Control, Cold Spring Harbor, NY, Invited lecture
8th International Symposium on Selenium in Biology and Medicine, Venice, Italy, Invited lecture

2001 University of Hawaii at Manoa, Honolulu, HI, Invited lecture
Ruth Pike Lecture, Pennsylvania State University, State College, PN, Invited lecture
RNA Society, Banff, Canada, Invited lecture
FASEB Summer Conference on Trace Elements, Kalispell, Montana, Invited lecture
American Thyroid Association, Washington, D.C., Plenary Lecture

2002 Triennial Ribosome Conference, Queenstown, New Zealand, Invited lecture
University of Hawaii at Manoa, Honolulu, HI, Invited lecture
Cold Spring Harbor Meeting on Translational Control, Cold Spring Harbor, NY, Invited lecture and Session Chair

2003 University of Hawaii at Manoa, Honolulu, HI, Departmental Seminar
FASEB Conference on Mol Mechanisms of Regulation by Dietary Constituents, Snowmass, CO, Invited lecture

Hawaii State Department of Health, Aiea, HI, Invited lecture

2004 Hawaii AIDS Clinical Research Program, Leahi Hospital, Honolulu, HI, Invited lecture
University of Hawaii, Honolulu HI, Zoology Dept, Invited lecture
FASEB Summer Conference on Trace Elements, Snowmass, CO, Session chair and invited lecturer
Cold Spring Harbor Meeting on Translational Control, Cold Spring Harbor, NY, Invited lecture

2005 Hawaii Biosciences Conference, Honolulu, HI, Invited lecture
Bioscience 2005, Glasgow, Scotland, Invited lecture

2006 Hawaii Biosciences Conference, Honolulu, HI, Invited lecture
American Society of Biochemists & Molecular Biologists, San Francisco, CA, Session chair, invited lecturer
FASEB Summer Conference on Trace Elements, Snowmass, CO, Session chair and invited lecturer
8th Int'l Symposium on Selenium in Biology and Medicine, Madison, WI, Session chair and invited lecturer
JABSOM RCMI forum, Honolulu, HI, Invited lecture

2007 Univ of Hawaii, Honolulu, HI, Department of Medicine Grand Rounds, Invited Lecture
Cancer Research Center of Hawaii Natural Products Group, Honolulu, HI, Invited Lecture

2008 JABSOM RCMI forum, Honolulu, HI, Invited Lecture
FASEB Trace Elements Summer Conference, Snowmass, CO, Invited Lecture

2009 Hawaii Addictions Conference, Honolulu, HI, Invited Lecture

2010 9th Int'll Symposium on Selenium in Biology and Medicine, Kyoto JP, June 2010, Session Chair, Invited lecture
FASEB Trace Elements Summer Conference, Snowmass CO, June 2010, Session Chair and Invited lecture
9th International Workshop on Resistance to Thyroid Hormone and Thyroid Hormone EMBL Meeting on Translational Control of Protein Synthesis, Sept. 7-11, 2011, Invited lecture
Hawaii Seafood Symposium, Honolulu HI, Oct. 20-22, 2010, Invited lecture
12th RCMI Symposium on Health Disparities Research, Nashville TN, Dec. 5- 9, 2010, Oral presentation

2011 Drexel University, Philadelphia, PA, Jan. 19, 2011, Invited lecture
Endocrine Society, Boston MA, June 4-7, 2011, Invited lecture

2012 Cold Spring Harbor Meeting on Translational Control of Protein Synthesis, Sept. 4-8, 2012, Invited lecture
13th RCMI Symposium on Health Disparities Research, San Juan, Puerto Rico, Dec. 9-13, 2012, Invited lecture

2013 10th Int'l Symposium on Selenium in Biology and Medicine, Berlin, Germany, Sept. 14-18, 2013, Session Chair

2014 EMBO workshop, Recoding: Reprograming Genetic Decoding, Killarney, Ireland, May 13-18, 2014, Invited lect
FASEB Trace Elements in Biology & Medicine, Steamboat Springs, CO, June 1-6, 2014, Invited lecture
Cold Spring Harbor Meeting on Translational Control of Protein Synthesis, Sept. 2-6, 2014, Invited lecture
International Pacific Health Conference 2014, Auckland, New Zealand, Nov. 3-5, 2014, Invited lecture
Minority Health and Health Disparities Conference, National Harbor, MD, De. 1-3, 2014, Invited lecture

2015 Gordon Conference, Translation Machinery in Health & Disease, Ventura, CA, Feb. 22-27, 2015, Invited lecture
American Society for Nutrition, Experimental Biology, Mar. 28- Apr. 1, 2015, Boston MA, Session chair
3rd South Amer Symposium in Signal Transd and Mol Med, Bariloche, Argentina, Apr 1- 6, 2015, Invited lecture
Organization for Study of Sex Differences, Stanford University, Palo Alto, CA, Apr. 21-23, 2015, Invited lecture
EMBL Translational control of Protein Synthesis. Heidelberg, Germany, Sept. 9-13, 2015, Invited lecture

2016 Endocrine Society, Boston, MA, April 1-4, 2016, Session Chair

2017 Gordon Conference, Cell Biology of Metals, Mount Snow, West Dover, VT, July 23–28, 2017, Invited lecture
11th Int'l Symposium on Selenium in Biology and Medicine, Aug. 13-17, 2017, Stockholm, Invited lecture

2018 Experimental Biology, San Diego, CA, Apr 21-25, 2018, Invited lecture
FASEB, Trace Elements in Biology and Medicine, June 3-8, 2018, Tahoe City, CA, , Invited lecture
American Society for Nutrition, Boston MA, June 9-12, 2018, Session chair

2019 American Society for Nutrition, Baltimore MD, June 8-11, 2019, Session chair
Organismal Biology of Metals and Metal Complexes, Castelldefels, Spain, July 14-19, 2019, Invited Speaker
13th Int'l Soc for Trace Element Research in Humans, Sept 22-26, 2019, Bali, Indonesia, Session Chair

2022 12th International Symposium on Selenium in Biology and Medicine, Feb 16-20, 2022, Honolulu, Hawai'i, Co-organizer, Invited Speaker, Session Chair

2023 American Society of Nutrition, Boston, MA, July 22-25, 2023, Session Chair
7th Int'l Conf on Se in Envir & Human Hlth, Bangkok, Thailand, Sept 24-7, 2023, Invited Speaker, Session Chair
Society For Redox Biology and Medicine, Montevideo, Uruguay, Nov 15-18, 2023, Session Chair

2024 Recoding and diversity of genetic decoding, Bantry, Ireland, May 13-18, 2024, Mtg Co-organizer, Session Chair
Trace elements in man & animals -18 conf, Bengaluru, India, Nov 8 –12, 2024, Invited Speaker, Session chair

2025 Hawai'i Workshop for Neurometabolism, Microbiome, and Beyond, Honolulu HI, Nov 18, 2025, Invited Speaker

Publications (h index = 71, i10 index = 133, over 18,000 citations)

1. **Berry MJ**, Samuel CE. Detection of subnanogram amounts of RNA in polyacrylamide gels in the presence and absence of protein by staining with silver. Anal Bioch 1982; 124:180-184.
2. **Berry MJ**, Knutson GS, Lasky SR, Munemitsu SM, Samuel CE. Purification and substrate specificities of the double-stranded RNA-dependent protein kinase from untreated and interferon-treated mouse fibroblasts. J Biol Chem 1985; 260:11240-11247.
3. **Berry MJ**, Samuel CE. Production and characterization of monoclonal and polyclonal antibodies to the interferon-induced phosphoprotein P1. Biochem Biophys Res Comm 1985; 133:168-175.
4. Samuel CE, Knutson GS, **Berry MJ**, Atwater JA, Lasky SR. Purification of double-stranded RNA-dependent protein kinase from mouse fibroblasts. Meth Enzymol 1986; 119:499-516.
5. Broni B, Julkunen I, Condra JH, Davies ME, **Berry MJ**, Krug RM. Parental influenza virion nucleocapsids are efficiently transported into the nuclei of cells expressing the nuclear interferon-induced Mx protein. J Virol 1990; 64:6335-6340. PMC248816
6. **Berry MJ**, Kates AL, Larsen PR. Thyroid hormone regulates type I deiodinase messenger RNA in rat liver. Mol Endocrinol 1990; 4:743-748.
7. **Berry MJ**, Banu L, Larsen PR. Type I iodothyronine deiodinase is a selenocysteine-containing enzyme. Nature 1991; 349:438-440.
8. **Berry MJ,** Kieffer JD, Larsen PR. Evidence that cysteine, not selenocysteine, is in the catalytic site of type II deiodinase. Endo 1991; 129:550-552.
9. **Berry MJ**, Kieffer JD, Harney JW, Larsen PR. Selenocysteine confers the biochemical properties characteristic of the Type I iodothyronine deiodinase. J Biol Chem 1991; 266:14155-14158.
10. **Berry MJ**, Banu L, Chen Y, Mandel SJ, Kieffer JD, Harney JW, Larsen PR. Recognition of UGA as a selenocysteine codon in type I deiodinase requires sequences in the 3' untranslated region. Nature 1991; 353:273-276.
11. Mandel SJ, **Berry MJ**, Kieffer JD, Harney JW, Warne RL, Larsen PR. Cloning and in vitro expression of the human selenoprotein, type I iodothyronine deiodinase. J Clin Endo Metab 1992; 75:1133-1139.
12. **Berry MJ**. Identification of essential histidine residues in rat type I iodothyronine deiodinase. J Biol Chem 1992; 267:18055-18059.
13. **Berry MJ**, Maia AL, Kieffer JD, Larsen PR. Substitution of cysteine for selenocysteine in type I iodothyronine deiodinase reduces the catalytic efficiency of the protein but enhances its translation. Endo 1992; 31:1848-1852.
14. **Berry MJ**, Larsen PR. The molecular cloning of type I iodothyronine deiodinase: new insights into thyroid hormone action. Thyroid Today 14:1-9, 1992.
15. **Berry MJ**, Larsen PR. The role of selenium in thyroid hormone action. Endocrine Reviews 13:207-219, 1992.
16. Lee WS, **Berry MJ**, Hediger MA, Larsen PR. The type I iodothyronine 5' deiodinase mRNA is localized to the S3 segment of the rat kidney proximal tubule. Endo 1993; 132:2136-2140.
17. **Berry MJ**, Banu L, Harney JW, Larsen PR. Functional characterization of the eukaryotic SECIS elements which direct selenocysteine insertion at UGA codons. EMBO 1993;12:3315-3322. PMC413599
18. **Berry MJ**, Greico D, Taylor BA, Maia AL, Kieffer JD, Beamer W, Glover E, Poland A, Larsen PR. Physiological and genetic analyses of inbred mouse strains with a Type I iodothyronine deiodinase deficiency. J Clin Invest 1993; 92:1517-1528. PMC288298
19. **Berry MJ**, Larsen PR. Molecular cloning of the selenocysteine-containing enzyme type I iodothyronine deiodinase. Amer J Clin Nutr 57:249S-255S, 1993.
20. **Berry MJ**, Larsen PR. Recognition of UGA as a selenocysteine codon in eukaryotes: a review of recent progress. Biochem Soc Trans 21:827-832, 1993.
21. Moreno M, **Berry MJ**, Horst C, Goglia F, Harney JW, Larsen PR, Visser TJ. Activation and inactivation of thyroid hormone by type I iodothyronine deiodinase. FEBS Lett 1994; 344:143-146.
22. Toyoda N, Harney JW, **Berry MJ**, Larsen PR. Identification of critical amino acids for 3,5',3'-triiodothyronine deiodination by human type I deiodinase based on comparative functional-structural analyses of the human, dog, and rat enzymes. J Biol Chem 1994; 269:20329-20334.
23. **Berry MJ**, Harney JW, Ohama T, Hatfield DL. Selenocysteine insertion or termination: factors affecting UGA codon fate and complementary anticodon:codon mutations. Nucleic Acids Res 1994;22:3753-3759. PMC308358
24. **Berry MJ**, Larsen PR. Type I iodothyronine deiodinase. In: Thyroid Hormone Metabolism: Molecular Biology and Alternate Pathways. CRC Press, Boca Raton, FL, S-y Wu and TJ Visser, eds. pp. 1-22, 1994.

25. Larsen PR, **Berry MJ**. Type I iodothyronine deiodinase: unexpected complexities in a simple deiodination reaction. Thyroid 4:357-362, 1994.

26. **Berry MJ**, Larsen PR. Selenocysteine and the structure, function, and regulation of iodothyronine deiodination: Update 1994. Endocrine Reviews Monographs 3:265-269, 1994.

27. McCaughan KK, Brown CM, Dalphin ME, **Berry MJ**, Tate WP. The efficiency of translational termination in mammals is determined by the base following the stop codon. Proc Natl Acad Sci USA 1995; 92:5431-5435. PMC41708

28. Toyoda N, **Berry MJ**, Harney JW, Larsen PR. Topological analysis of the integral membrane protein, type I deiodinase (DIO 1). J Biol Chem 1995; 270: 12310-12318.

29. Maia AL, **Berry MJ**, Sabbag R, Harney JW, Larsen PR. Structural and functional differences in the Dio1 gene in mice with inherited type 1 deiodinase deficiency. Mol Endo1995;9:969-980.

30. Low SC, Harney JW, **Berry MJ**. Cloning and functional characterization of human selenophosphate synthetase, an essential component of selenoprotein synthesis. J Biol Chem 1995; 270:21659-21664.

31. Salvatore D, Low SC, **Berry MJ**, Maia AL, Harney JW, Croteau W, St. Germain DL, Larsen PR. Type 3 iodothyronine deiodinase: cloning; in vitro expression, functional analysis of the placental selenoenzyme. J Clin Invest 1995; 96:2421-2430.

32. Larsen PR, **Berry MJ**. Nutritional and hormonal regulation of thyroid hormone deiodinases. Ann Rev Nutr. 15:323-352, 1995.

33. Martin GW, Harney JW, **Berry MJ**. Selenocysteine incorporation in eukaryotes: Insights into mechanism and efficiency from sequence, structure and spacing proximity studies of the type 1 deiodinase SECIS element. RNA 1996; 2:171-182. PMC1369361

34. Arnault F, Etienne J, Noe L, Raisonnier A, Brault D, Harney JW, **Berry MJ**, Tse C, Fromental-Ramain C, Hamelin J, Galibert F. Human lipoprotein lipase last exon is not translated, in contrast to lower vertebrates. J Mol Evol 1996; 43:109-115

35. Low SC, **Berry MJ**. Knowing when not to stop: selenocysteine incorporation in eukaryotes. Trends Biochem. 21:203-208, 1996.

36. **Berry MJ**, Martin GW, Low SC. Selenium and iodothyronine deiodination. Proceedings of the 6th Thyroid Symposium, Graz, Austria, 13-17, 1996.

37. Toyoda N, Kaptein E, **Berry MJ**, Harney JW, Larsen PR, Visser TJ. Structure-Activity relationships for thyroid hormone deiodination by mammalian type I iodothyronine deiodinases. Endocrinology 1997; 138:213-219.

38. Sun B, Harney J, **Berry M**, Larsen PR. The role of the active site cysteine in catalysis by type 1 iodothyronine deiodinase. Endocrinology 1997; 138:5452-5458.

39. **Berry MJ**, Martin GW, Low SC. RNA and protein requirements for eukaryotic selenoprotein synthesis. Biomed. and Environ. Sci. 10: 182-189, 1997.

40. Shisler JL, Senkevich TG, **Berry MJ**, Moss B. Selenoprotein from a human dermatotropic poxvirus blocks UV-induced cell death. Science 1998; 279:102-105.

41. Martin GW, Harney JW, **Berry MJ**. Functionality of mutations at conserved nucleotides in eukaryotic SECIS elements. RNA 1998; 4:65-73. PMC1369597

42. Martin GW, **Berry MJ**. Eukaryotic selenocysteine incorporation: mechanistic insights. Phosphorus, Sulfur, and Silicon, and the Related elements 136-138: 309-320, 1998.

43. Gadaska PY, Berggren MM, **Berry MJ**, Powis G. Cloning, sequencing and functional expression of a novel human thioredoxin reductase. FEBS Lett 1999; 442: 105-111.

44. Prabakaran D, Ahima RS, Harney JW, **Berry MJ**, Larsen PR, Arvan P. Polarized targeting of thyroid epithelial cell proteins in thyrocytes and MDCK cells. J Cell Science 1999; 112:1247-1256.

45. Grundner-Culemann E, Martin GW, Harney JW, **Berry MJ**. Two distinct structures capable of directing selenocysteine incorporation in eukaryotes. RNA 1999; 5:625-635. PMC1369790

46. Buettner C, Harney JW, **Berry MJ.** The *Caenorhabditis elegans* homologue of thioredoxin reductase contains a selenocysteine insertion sequence element that differs from mammalian SECIS elements but directs selenocysteine incorporation. J Biol Chem 1999; 274:21598-21602.

47. Alsina B, Corominas M, **Berry M**, Baguna J, Serras F. Disruption of selenoprotein biosynthesis affects cell proliferation in the imaginal discs and brain of Drosophila melanogaster. J Cell Science 1999; 112:2875-84.

48. Gasdaska JR, Harney JW, Gasdaska PY, Powis G, **Berry MJ**. Regulation of human thioredoxin reductase expression and activity by 3' untranslated region SECIS and mRNA instability elements. J Biol Chem 1999; 274:25379-25385.

49. Tujebajeva RM, Harney JW, **Berry MJ.** Selenoprotein P expression, purification, and immunochemical characterization. J Biol Chem 2000; 275:6288-629437.

50. Tujebajeva RM, Copeland PR, Xu XM, Carlson BA, Harney JW, Driscoll DM, Hatfield DL, **Berry MJ**. Decoding apparatus for eukaryotic selenocysteine insertion. EMBO Reports 2000; 1, 158-163**.** PMC1084265
51. Warner GW, **Berry MJ**, Moustafa ME, Carlson BA, Hatfield DL, Faust JR. Inhibition of Selenoprotein Synthesis by Selenocysteine tRNA$^{[Ser]Sec}$ Lacking Isopentenyladenosine. J Biol Chem 2000; 275, 28110-28119.
52. Tujebajeva RM, Ransom DG, Harney JW, **Berry MJ**. Expression and characterization of the first non-mammalian selenoprotein P in the zebrafish, *Danio rerio*. Genes to Cells 2000; 5, 897-903.
53. Kumaraswamy E, Malykh A, Korotkov KV, Kozyavkin S, Hu Y, Kwon SY, Moustafa ME, Carlson BA, **Berry MJ**, Lee BJ, Hatfield DL, Diamond AM and Gladyshev VN. Structure-expression relationships of the 15 kDa selenoprotein gene: possible role of the protein in cancer etiology. J Biol Chem 2000; 275, 35540-35547.
54. Low SC, Grundner-Culemann E, Harney JW, **Berry MJ**. SECIS-SBP2 interactions dictate selenocysteine incorporation efficiency and selenoprotein hierarchy. EMBO Journal 2000; 19, 6882-6890. PMC305907
55. **Berry MJ**. Recoding UGA as Selenocysteine. In: Translational Control. Vol. 2. Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY, JWB Hershey, MB Mathews, N Sonenberg, eds. pp. 763-83, 2000.
56. Martin GW, **Berry MJ**. Selenocysteine codons decrease polysome association on endogenous selenoprotein mRNAs. Genes to Cells 2001; 6, 121-129.
57. Bianco AC, **Berry MJ.** Iodine Landmark paper: Pituitary Nuclear 3,5,3'-Triiodothyronine and Thyrotropin Secretion: An Explanation for the Effect of Thyroxine. J. Trace Elements in Exp. Med. 2001; 14, 255-259.
58. Moustafa ME, Carlson BA, El-Saadani MA, Kryukov GV, Sun QA, Harney JW, Hill KA, Burk RF, Combs GF, Feigenbaum L, Mansur DB, **Berry MJ**, Diamond AM, Gladyshev VN, Lee BJ, Hatfield DL. Selective inhibition of selenocysteine tRNA maturation and selenoprotein synthesis in transgenic mice expression isopentenyladenosine mutant selenocysteine tRNA$^{[Ser]Sec}$ transgenes. Mol. Cell Biol. 2001; 21, 3840-3852. PMC87048
59. Castellano S, Morozova N, Morey M, **Berry M**, Serras F, Corominas M, Guigó Roderic. *In silico* identification of novel selenoproteins in the *Drosophila melanogaster* genome. EMBO R 2001; 2, 697-702. PMC1083988
60. Grundner-Culemann E, Martin GW, Tujebajeva RM, Harney JW, **Berry MJ.** Interplay between termination and translation machinery in eukaryotic selenoprotein synthesis. J. Mol. Biol. 2001; 310, 699-708.
61. **Berry MJ**, Tujebajeva RM, Copeland PR, Xu XM, Carlson BA, Martin GW, Low SC, Mansell JB, Grundner-Culemann E, Harney JW, Driscoll DM, Hatfield DL. Selenocysteine incorporation directed from the 3'UTR: characterization of eukaryotic EFsec and mechanistic implications. BioFactors 14: 17-24, 2001.
62. Mansell JB and **Berry MJ**. Towards a mechanism for selenocysteine incorporation in eukaryotes. In: Selenium: its Molecular Biology and Role in Human Health. Kluwer Academic Publishers. DL Hatfield, ed. Pp. 69-80, 2001.
63. Martin III GW and **Berry MJ**. SECIS Elements. In: Selenium: its Molecular Biology and Role in Human Health. Kluwer Academic Publishers. DL Hatfield, ed. pp. 45-53, 2001.
64. Xu XM, Carlson BA, Grimm TA, Kutza J, **Berry MJ**, Arreola R, Fields KH, Shanmugam I, Jeang KT, Oroszlan S, Combs GF, Clouse KA, Marx PA, Gladyshev VN, Hatfield DL. Rhesus monkey Simian Immunodeficiency Virus Infection as a Model for Assessing the Role of Selenium in Aids**.** Journal of Acquired Immune Deficiency Syndromes 2002; 31, 453-463.
65. **Berry MJ**, Martin GW, Tujebajeva RM, Grundner-Culemann E, Mansell JB, Morozova N and Harney JW. SECIS element characterization and selenoprotein expression. In: Methods Enzymol. Vol. 347. Academic Press. H Sies, L Packer, eds. pp. 17-24, 2002.
66. Bianco AC, Salvatore D, Gereben B, **Berry MJ**, Larsen PR. Biochemistry, cellular and molecular biology, and physiological roles of the iodothyronine selenodeiodinases. Endocr Rev. 23: 38-89, 2002.
67. Zavacki AM, Mansell JB, Chung M, Klimovitsky B, Harney JW, **Berry MJ**. Coupled tRNA^{Sec} dependent assembly of the selenocysteine decoding apparatus. Mol Cell 11; 773-781, 2003.
68. Morozova N, Forry EP, Shahid E, Zavacki AM, Harney JW, Kraytsberg Y, **Berry MJ.** Antioxidant function of a novel selenoprotein in *Drosophila melanogaster.* Genes to Cells 8; 963-971, 2003.
69. Chen J, **Berry MJ**. Selenium and selenoproteins in the brain and brain diseases. J. Neurochemistry 86: 1-12, 2003.
70. Carlson BA, Xu XM, Kryukov GV, Rao M, **Berry MJ**, Gladyshev VN, Hatfield DL. Identification and characterization of phosphoseryl-tRNA kinase. Proc Natl Acad Sci USA 101; 12848-12853, 2004. PMC516484
71. Chen J, Small-Howard A, Yin A, **Berry MJ**. The responses of Ht22 cells to oxidative stress induced by buthionine sulfoximine (BSO). BMC Neuroscience 6; 10, 2005. PMC549549
72. **Berry MJ**. Knowing when not to stop. Nat Struct Mol Biol. 12:389-90, 2005. PMID: 15870727
73. Hoffmann PR, **Berry MJ**. Selenoprotein synthesis: A unique translational mechanism used by a diverse family of proteins. Thyroid, 15:769-775, 2005. PMID: 16131320

74. Hoffmann PR, de Jesus LA, Michaud T, He Q, Stillwell RJ, Harney JW, **Berry MJ**. Tracking the Shuttling of SBP2 and EFsec Proteins between the Nucleus and Cytoplasm using Three-color Immunofluorescence. Microscopy and Microanalysis, 11:1116-1117, 2005.

75. He Q, de Jesus LA, Michaud T, Hoffmann PR, Stillwell RJ, Harney JW, **Berry MJ**. Determining Subcellular Localization of Selenoprotein Translation Factors using Immunofluorescence. Microscopy and Microanalysis 11: 1188-1189, 2005.

76. Shomaker TS, Easa D, Harrigan R, **Berry M**, Gubler D, Andrade N, Mau M, Palafox N, Blanchette PL, Rayner PM, Kasuya R, Withy K, Davis J: Excellence in Research and Education at the John A. Burns School of Medicine: A Tribute to Edwin Cadman's Vision. Hawaii Medical Journal 64:264-270, 2005. PMID: 1629470

77. Small-Howard AL**, Berry MJ**. Unique features of selenocysteine incorporation function within the context of general eukaryotic translational processes. Biochemical Society Transactions, 33:1493-7, 2005. PMID: 16246153

78. Stillwell RJ, **Berry MJ**. Expanding the repertoire of the eukaryotic selenoproteome. Proc Natl Acad Sci USA 102:16123-4, 2005. PMC1283472

79. Xu XM, Mix H, Carlson BA, Grabowski PJ, Gladyshev VN, **Berry MJ**, Hatfield DL. Evidence for direct roles of two additional factors, SECp43 and SLA, in the selenoprotein synthesis machinery. J Biol Chem, 280:41568-75, 2005. PMID: 16230358

80. **Berry MJ**. Insights into the hierarchy of selenium incorporation. Nat Genetics, 37:1162-3, 2005. PMID: 16254558.

81. de Jesus LA , Hoffmann PR, Michaud T, Forry EP, Small-Howard A, Stillwell RJ, Morozova N, Harney JW, **Berry MJ**. Nuclear assembly of UGA decoding complexes on selenoprotein mRNAs: a mechanism for eluding nonsense mediated decay? Mol Cell Biol, 26:1795-1805, 2006. PMC1430236

82. Small-Howard A, Morozova N, Stoytcheva Z, Forry EP, Mansell JB, Harney JW, Carlson BA, Xu XM, Hatfield DL, **Berry MJ**. Supramolecular complexes mediate selenocysteine incorporation *in vivo*. Mol Cell Biol 26:2337-2346, 2006. PMC1430297

83. Hoffmann P, **Berry MJ.** The EFsec-SBP2 complex and the escape of selenoprotein mRNAs from nonsense-mediated decay. In: Selenium: Its molecular biology and role in human health. Vol. 2. Hatfield DL, **Berry MJ**, and Gladyshev VN, eds. Kluwer Academic Publishers, pp. 73-82, 2006.

84. Small-Howard A, **Berry MJ**. Selenocysteine biosynthesis and incorporation may require supramolecular complexes. In: Selenium: Its molecular biology and role in human health. Vol. 2. Hatfield DL, **Berry MJ**, and Gladyshev VN, eds. Kluwer Academic Publishers, pp. 83-95, 2006.

85. Cassago A, Rodrigues EM, Prieto EL, Gaston KW, J.D. Alfonzo JD, Iribar MP, **Berry MJ**, Cruz AK,Thiemann OH. Identification of Leishmania selenoproteins and SECIS element. Molecular and Biochemical Parasitology, 149, 128-134, 2006. PMID: 16766053

86. Squires J, and **Berry MJ**. Selenium, selenoproteins and cancer. Hawaii Medical Journal, 65, 239-40, 2006. PMID: 17004624

87. Stoytcheva Z, Tujebajeva R, Stoytchev I, **Berry MJ**. Efficient incorporation of multiple selenocysteines involves an inefficient decoding step serving as a translational checkpoint and ribosome bottleneck. Mol Cell Biol, 26:9177-84, 2006. PMC1698516

88. **Berry MJ** and Dinman J. Regulation of termination and recoding, Invited chapter for: Translational Control. Vol. 3. Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY, JWB Hershey, MB Mathews, N Sonenberg, pp. 625-654, 2006.

89. Xu XM, Carlson BA, Mix H, Zhang Y, Saira K, Glass RS, **Berry MJ**, Gladyshev VN, Hatfield DL. Biosynthesis of Selenocysteine on its tRNA in Eukaryotes. PLOS Biology 5(1):e4, 2007. PMC1717018

90. Morozova N, Khrapko K, Panee P, Liu W, Harney JW, and **Berry MJ**. Glutathione depletion in hippocampal cells increases levels of H and L ferritin and glutathione S-transferase mRNAs. Genes to Cells 12, 561-567, 2007. PMID: 17535247

91. Ben Jilani KE, Panee J, He Q, **Berry MJ** and Li PA. Overexpression of Selenoprotein H Reduces Ht22 Neuronal Cell Death After UVB Irradiation By Preventing Superoxide Formation. Int'l J. of Biological Sciences 3, 198-204, 2007. PMC1802020

92. Hoffmann P, Höge S, Li PA, Hoffmann F, Hashimoto A, **Berry MJ**. The selenoproteome exhibits widely varying, tissue-specific dependence on selenoprotein P for selenium supply. Nucleic Acids Res 35, 3963-73, 2007. PMC1919489

93. Panee J, Stoytcheva ZR, Liu W, **Berry MJ**. Selenoprotein H is a redox-sensing HMG family DNA-binding protein that upregulates genes involved in glutathione synthesis and phase II detoxification. J Biol. Chem. 282, 23759-65, 2007. PMID: 17526492

94. Panee J, Liu W, Nakamura K, and **Berry MJ**. The responses of HT22 cells to the blockade of mitochondrial complexes and potential protective effect of selenium supplementation. Int'l J. of Biological Sciences 3, 335-41, 2007. PMC1925139
95. Hoffmann PR, Jourdan-Le Saux C, Hoffmann FW, Chang PS, Bollt O, He Q, Tam EK, and **Berry MJ**. A Role for Dietary Selenium and Selenoproteins in Allergic Airway Inflammation. Journal of Immunology 179, 3258-67, 2007. PMID: 17709542
96. Xu X, Carlson BA, Zhang Y, Mix H, Kryukov GV, Glass RS, **Berry MJ**, Gladyshev VN, Hatfield DL. New Developments in Selenium Biochemistry: Selenocysteine Biosynthesis in Eukaryotes and Archaea. Biological Trace Element Research, 19, 234-4, 2007. PMID: 17916946
97. Hoffmann PR, Gurary A, Hoffmann FW, Jourdan-Le Saux C, Teeters K, Hashimoto A, Tam EK, and **Berry MJ**. A New Approach for Analyzing Cellular Infiltration During Allergic Airway Inflammation. J I Methods, 328: 21-33, 2007. PMID: 17825315. PMCID: PMC2864229
98. Squires JE, Stoytchev I, Forry EP, **Berry MJ**. SBP2 binding affinity is a major determinant in differential selenoprotein mRNA translation and sensitivity to nonsense-mediated decay. Mol Cell Biol, 27: 7848-55, 2007. PMC2169151
99. Panee J, Liu W, Lin Y, Gilman C, **Berry MJ**. A novel function of bamboo extract in relieving lipotoxicity. Phytotherapy Research, 22(5):675-68, 2008. PMID: 18350521
100. Castellano S, Gladyshev VN, Guigó R, and **Berry MJ**. SelenoDB: a database of selenoprotein genes, proteins and SECIS elements. Nucl. Acids Res. 36, D332-8, 2008. PMC2238826
101. Squires JE and **Berry MJ**. Eukaryotic Selenoprotein Synthesis: Mechanistic Insight Incorporating New Factors and New Functions for Old Factors. IUBMB Life, 60(4):232-5, 2008. PMID: 18344183
102. Hoffmann PR, **Berry MJ**. The influence of selenium on immune responses. Mol Nutr Food Res. 52(11):1273-80, 2008. PMCID: PMC3723386
103. Glass RS, **Berry MJ**, Block E, Boakye HT, Carlson BA, Gailer J, Graham N, Gladyshev VN, Hatfield DL, Jacobsen NE, Johnson S, Kahakachchi C, Kamifski R, Manley SA, Mix H, Pickering IJ, Prenner EJ, Saira K, Skowrofska A, Tyson JF, Uden PC, Wu Q, Xu XM, Yamdagni R and Zhang Y. Insights into the Chemical Biology of Selenium. Phosphorus, Sulfur, and Silicon and the Related Elements, 183:4, 924 – 930, 2008.
104. Blauwkamp MN, Yu J, Schin MA, Burke KA, **Berry MJ**, Carlson BA, Brosius FC 3rd, Koenig RJ. Podocyte specific knock out of selenoproteins does not enhance nephropathy in streptozotocin diabetic C57BL/6 mice. BMC Nephrol. 22:9, 7, 2008. PMC2494546
105. Lin Y, Collier A, Liu W, **Berry MJ**, and Panee J. The inhibitory effect of bamboo extract on the development of 7,12-Dimethylbenz[a]anthracene (DMBA)-induced breast cancer and its regulatory effect on sulfotransferase activity. Phytotherapy Research 22(11):1440-5, 2008. PMID: 18972584
106. Bellinger F, He QP, Bellinger MT, Lin Y, Raman AV, White LR, and **Berry MJ**. Association of Selenoprotein P with Alzheimer's Disease Pathology in Human Cortex. J. Alzheimer's Disease 15(3):465-72, 2008. PMC2695562
107. **Berry MJ** and Ralston NVC. Mercury toxicity and the mitigating role of selenium. EcoHealth, 2009 Feb 6 PMID: 19198945
108. Stoytcheva Z, **Berry MJ**. Transcriptional regulation of mammalian selenoprotein expression. Biochim Biophys Acta, 2009 Nov;1790(11):1429-40. PMC2764002
109. Bellinger FP, Raman AV, Reeves MA, **Berry MJ**. Regulation and Function of Selenoproteins in Human Disease. Biochem J, 2009 Jul 29;422(1):11-22. PMC2912286
110. Squires JE, Davy P, **Berry MJ**, Allsopp R. Attenuated expression of SECIS binding protein 2 causes loss of teleomeric reserve without affecting telomerase. Experimental Gerontology, 2009 Sep;44(9):619-23. Epub 2009 Jun 27. PMC2735496.
111. Reeves MA, Bellinger FP, **Berry MJ**. The Neuroprotective Functions of Selenoprotein M and its Role in Cytosolic Calcium Regulation. Antioxidants and Redox Signaling, 2010 Apr 1;12(7):809-1. PMC2864655.
112. Stoytcheva ZR, Vladimirov V, Douet V, Stoychev I, **Berry MJ**. Metal transcription factor-1 regulation via MREs in the transcribed regions of selenoprotein H and other metal-responsive genes. Biochim Biophys Acta. 2010, 1800(3):416-24. PMC2826586
113. **Berry MJ** and Howard MT. Reprogramming the Ribosome for Selenoprotein Expression: RNA Elements and Protein Factors. In Recoding: Expansion of decoding rules enriches gene expression. Springer, New York, NY. 2009
114. Takemoto AS, **Berry MJ**, Bellinger FP. Role of Selenoprotein P in Alzheimer's Disease. Ethnicity and Disease 20, S1 92-95, 2010. PMC2917322

115. Hoffmann FW, Hashimoto AC, Shafer LA, Dow S, **Berry MJ,** Hoffmann PR. Dietary selenium modulates activation and differentiation of CD4+ T cells in mice through a mechanism involving cellular free thiols. J Nutr. 2010 Jun;140(6):1155-61. PMC2869499

116. **Berry MJ**. The Cell and Molecular Biology Department, University of Hawaii at Manoa. Hawaii Med J. 2010 Jun;69(6):148-9. PMC3118017

117. Seale LA, Ralston NV, **Berry MJ**. The role of selenium in mitigating mercury toxicity. In: Methylmercury: Formation, Sources and Health Effects. Andrew P. Clampet, Ed. NOVA Science Publishers Inc. 2011

118. Koide CLK, Collier AC, **Berry MJ,** Panee J. The effect of bamboo extract on hepatic biotransforming enzymes – Findings from an obese–diabetic mouse model. Journal of Ethnopharmacology, 2011 Jan 7;133(1):37-45. PMC3471658

119. Bellinger FP, Bellinger MT, Seale LA, Takemoto AS, Raman AV, Miki T, Manning-Boğ AB, **Berry MJ**, White LR, Ross GW. Glutathione Peroxidase 4 is associated with Neuromelanin in Substantia Nigra and Dystrophic Axons in Putamen of Parkinson's brain. Molecular Neurodegeneration 6, 8, Jan 2011. PMC3037910

120. Seale LA, Ralston NV, **Berry MJ**. Role of selenium in mitigating mercury toxicity. NOVA Science Publishers Inc. 2011 (Stand alone publication, separate from book chapter above).

121. Higa JK, **Berry M**, Pane'e J. Supplement of bamboo extract lowers serum monocyte chemoattractant protein-1 concentration in mice fed a diet containing high level of saturated fat. British Journal of Nutrition, 7:1-4, Dec 2011. PMID: 21736779

122. Raman AV and **Berry MJ**. Selenoproteins in Cellular Redox Regulation and Signaling. In Oxidative Stress in Vertebrates and Invertebrates: Molecular Aspects on Cell Signaling. Wiley-Blackwell, 2011.

123. Reeves MA, **Berry, MJ**. Selenoprotein M. In: Selenium: Its molecular biology and role in human health. Third Edition. Hatfield DL, **Berry MJ**, and Gladyshev VN, eds. Springer Publishers, 2011.

124. Pitts MW, Raman AV, **Berry, MJ**. Schizophrenia, oxidative stress, and selenium. In: Selenium: Its molecular biology and role in human health. Third Edition. Hatfield DL, **Berry MJ**, and Gladyshev VN, eds. Springer Publishers, 2011.

125. Pitts MW, Raman AV, Hashimoto AC, Todorovic C, Nichols RA, **Berry MJ**. Deletion of Selenoprotein P results in Impaired Function of Parvalbumin Interneurons and Alterations in Fear Learning and Sensorimotor Gating. Neuroscience, 2012;208:58-68. PMC3362796

126. Raman AV, Pitts MW, Seyedali A, Hashimoto AC, Seale LA, Bellinger FP, **Berry MJ.** Absence of Selenoprotein P but not Selenocysteine Lyase Results in Neurological Dysfunction. Genes, Brains and Behavior, 2012;11(5):601-13. PMC3389215

127. Seale LA, Hashimoto AC, Kurokawa S, Gilman CL, Seyedali A, Bellinger FP, Raman AV, **Berry MJ**. Disruption of the selenocysteine lyase-mediated selenium recycling pathway leads to metabolic syndrome in mice. Mol Cell Biol. 2012;32(20):4141-54. PMC3457337.

128. Dewing AS, Rueli RH, Robles MJ, Nguyen-Wu ED, Zeyda T, **Berry MJ,** Bellinger FP. Expression and regulation of mouse selenoprotein P transcript variants differing in non-coding RNA. RNA Biol. 2012;9(11):1361-9. PMC3597576

129. Bellinger FP, Raman AV, Rueli RH, Bellinger MT, Takemoto AS, Seale LA, Andres MA, Uyehara-Lock JH, White LR, Ross GW, **Berry MJ**. Changes in selenoprotein P in substantia nigra and putamen in Parkinson's disease. J Parkinson's Disease 2012; 2(2):115-126. PMC3527083

130. Seale LA, **Berry MJ**. Selenium in human health and disease. In: Encyclopedia of Metalloproteins. RH Kretsinger, VN Uversky, EA Permyakov, eds. Springer, 2013.

131. Seale LA, **Berry MJ**. Selenoproteins – regulation, in *Metals in Cells*, edited by Valeria Culotta and Robert S. Scott. Chichester, UK: John Wiley & Sons, Ltd, pp.311-319.

132. Pang X, Panee J, Liu X, **Berry MJ**, Chang SL, Chang L. Regional Variations of Antioxidant Capacity and Oxidative Stress Responses in HIV-1 Transgenic Rats With and Without Methamphetamine Administration. J Neuroimmune Pharmacol. 2013 8(3):691-704. PMC3773562

133. Raman AV, Pitts MW, Seyedali A, Hashimoto AC, Bellinger FP, **Berry MJ**. Selenoprotein W Expression and Regulation in Brain and Neurons. Brain and Behavior 2013: 3(5) 562–574. PMC3869984

134. Kurokawa S, **Berry MJ**. Selenium. Role of the Essential Metalloid in Health. In: Metal Ions in Life Sciences, vol. 13: 499-534. Sigel A, Sigel H, and Sigel RKO, editors. 2013.

135. Pitts MW, Reeves MA, Hashimoto AC, Ogawa A, Kremer P, Seale LA, **Berry MJ**. Deletion of Selenoprotein M (SelM) Leads to Obesity Without Cognitive Deficits. J Biol Chem., 2013;288(36):26121-34. PMC3764815.

136. Byrns CN, Pitts MW, Gilman CA, Hashimoto AC, **Berry MJ.** Mice Lacking Selenoprotein P and Selenocysteine Lyase Exhibit Severe Neurological Dysfunction, Neurodegeneration, and Audiogenic Seizures. J Biol Chem. 2014; 289(14):9662-74. PMC3975015

137. Kurokawa S, Bellinger FP, Hill KE, Burk RF, **Berry MJ**. Isoform-specific Binding of Selenoprotein P to the β-Propeller Domain of Apolipoprotein E Receptor 2 mediates Selenium Supply. J Biol Chem. 2014;289(13):9195-207. PMC3979378

138. Seale LA, Gilman CL, Moorman BP, **Berry MJ**, Grau EG, Seale AP. Effects of acclimation salinity on the expression of selenoproteins in the tilapia, *Oreochromis mossambicus.* Journal of Trace Elements in Medicine and Biology 2014;28(3):284-92. PMC4082732

139. Pitts MW, Byrns CN, Ogawa-Wong AN, Kremer P, Berry MJ. Selenoproteins in Nervous System Development and Function. Biol Trace Elem Res. 2014 Jul 1. PMC4222985

140. Seyedali A, **Berry MJ**. Nonsense-mediated decay factors are involved in the regulation of selenoprotein mRNAs during selenium deficiency. RNA. 2014;20(8):1248-56. PMC4105750

141. Ching T, Tiirikainen M, **Berry M**, Towner D, Garmire LX. Genome-wide hypermethylation coupled with promoter hypomethylation in the chorioamniotic membranes of early onset preeclampsia. Mol Hum Reprod. 2014 Sep;20(9):885-904. PMC4131767.

142. Soon R, Dye TD, Ralston NV, **Berry MJ,** Sauvage LM. Seafood consumption and umbilical cord blood mercury concentrations in a multiethnic maternal and child health cohort. BMC Pregnancy and Childbirth 2014, 14:209. PMC4068976.

143. Rueli RL, Parubrub AC, Dewing AST, Hashimoto A, Bellinger MT, Weeber EJ, Uyehara-Lock JH, White LR, **Berry MJ**, Bellinger FP. Increased Selenoprotein P in Choroid Plexus and Cerebral Spinal Fluid in Alzheimer's Disease Brain. Journal of Alzheimer's Disease, 2014 Oct 8. [Epub ahead of print]. PMID:2529819

144. **Berry MJ**, Cann R, Haymer D, Hoffmann P, Jameson D, LeSaux O, Nichols R, Seifried S, Stokes A, Todorovic C. Medical school hotline: The educational mission of the cell and molecular biology department and program at the John A. Burns School of Medicine. Hawaii J Med Public Health. 2014 Nov;73(11):362-4. PMC4238125

145. Panee J, Pang, X, Munsaka S, **Berry MJ**, Chang L. Independent and Co-morbid HIV Infection and Meth Use Disorders on Oxidative Stress Markers in the Cerebrospinal Fluid and Depressive Symptoms. J Neuroimmune Pharm 2015 Jan 10; PMID:25575491

146. Gilman CL, Soon R, Sauvage L, Ralston NVC, **Berry MJ.** Umbilical cord blood and placental mercury, selenium and selenoprotein expression in relation to maternal fish consumption. Journal of Trace Elements in Medicine and Biology. 2015 Apr;30:17-24. PMC4352208

147. Ching T, Ha J, Song MA, Tiirikainen M, Molnar J, **Berry MJ**, Towner D, Garmire LX. Genome-scale hypomethylation in the cord blood DNAs associated with early onset preeclampsia. Clin Epigenetics. 2015 Mar 13;7(1):21. PMC4371797.

148. **Berry MJ**, Astern J, Bellinger F, Brampton C, Cann R, Gerschenson M, Haymer D, James NG, Jameson DM, LeSaux O, Hoffmann PR, Nichols R, Pitts M, Seale L, Seifried S, Stokes AJ, Todorovic C. Medical school hotline: The Research Mission of the Cell and Molecular Biology Department and Program at the John A. Burns School of Medicine. Hawaii J Med Public Health. 2015 Apr;74(4):150-3. PMC4407459.

149. Andres MA, Cooke IM, Bellinger FP, **Berry MJ**, Zaporteza M, Rueli RH, Barayuga SM, Chang L. Methamphetamine acutely inhibits voltage-gated calcium channels but chronically upregulates L-type channels. J Neurochem. 2015 Jul;134(1):56-65. PMC4472572.

150. Seale LA, Gilman CL, Hashimoto AC, Ogawa-Wong AN, **Berry MJ**. Diet-induced obesity in the selenocysteine lyase knockout mouse. Antiox Redox Signal. 2015 July 20. [Epub ahead of print]. PMC4589310.

151. Pitts MW, Kremer PM, Hashimoto AC, Torres DJ, Byrns CN, Williams CS, **Berry MJ**. Competition between the Brain and Testes under Selenium Compromised Conditions: Insight into Sex Differences in Selenium Metabolism and Risk of Neurodevelopmental Disease. J Neuroscience, 2015 Nov 18;35(46):15326-38. PMC4649005.

152. Seale LA, Zavacki AM, **Berry MJ**. Selenoproteins and the Metabolic Syndrome. In: Diversity of Selenium Functions in Health and Disease. Brigelius Flohe R and Sies H, eds. CRC Press, 2015.

153. Ogawa-Wong AN, **Berry MJ**, Seale LA. Selenium and Metabolic Disorders: An Emphasis on Type 2 Diabetes Risk. Nutrients. 2016 Feb 6;8(2). PMC4772044

154. Gladyshev VN, Arnér ES, **Berry MJ**, Brigelius-Flohé R, Bruford EA, Burk RF, Carlson BA, Castellano S, Chavatte L, Conrad M, Copeland PR, Diamond AM, Driscoll DM, Ferreiro A, Flohé L, Green FR, Guigó R, Handy DE, Hatfield DL, Hesketh J, Hoffmann PR, Holmgren A, Hondal RJ, Howard MT, Huang K, Kim HY, Kim IY, Köhrle J, Krol A, Kryukov GV, Lee BJ, Lee BC, Lei XG, Liu Q, Lescure A, Lobanov AV, Loscalzo J, Maiorino M, Mariotti M, Prabhu KS, Rayman MP, Rozovsky S, Salinas G, Schmidt EE, Schomburg L, Schweizer U, Simonović M, Sunde RA, Tsuji PA, Tweedie S, Ursini F, Whanger PD, Zhang Y. Selenoprotein Gene Nomenclature. J Biol Chem. 2016 Sep 19. pii: jbc.M116.756155. PMC4772044

155. Rueli RL, Torres DJ, Dewing AST, Kiyohara AC, Barayuga SM, Bellinger MT, Uyehara-Lock JH, White LR, Moreira

PI, **Berry MJ**, Perry G, Bellinger FP. Selenoprotein S Reduces Endoplasmic Reticulum Stress-induced Phosphorylation of Tau: Potential Role in Selenate Mitigation of Tau Pathology. Journal of Alzheimer's Disease, 2017;55(2):749-762. PMC5893862 [IF 4.1]

156. **Berry M**, Chen J, Hixon A, Gerschenson M, James N, Jameson D, Lew HL, Lozanoff S, Nichols R, Seifried S, Teshima D, Masaki K, Tam E, Ward B, Ward S. Medical School Hotline: School of Medicine Departments - Year in Review 2017, Part 1. Hawaii Journal of Medicine & Public Health: a Journal of Asia Pacific Medicine & Public Health. 2018 01; 77 (1) :14-16

157. Ogawa-Wong AN, Hashimoto AC, Ha H, Pitts MW, Seale LA, **Berry MJ**. Sexual Dimorphism in the Selenocysteine Lyase Knockout Mouse. Nutrients. 2018 Jan 31;10(2). pii: E159. PMC5852735 [IF 4.2]

158. Gong T, Torres DJ, **Berry MJ,** Pitts MW. Hypothalamic redox balance and leptin signaling - Emerging role of selenoproteins. Free Radic Biol Med. 2018 Mar 5. pii: S0891-5849(18)30103-5. PMC6123311 [IF 6.02]

159. Seale LA, Ogawa-Wong AN, **Berry MJ**. Sexual Dimorphism in Selenium Metabolism and Selenoproteins. Free Radic Biol Med. 2018 Mar 21. pii: S0891-5849(18)30139-4. PMC6150850 [IF 6.02]

160. Seale LA, Ha HY, Hashimoto AC, **Berry MJ.** Relationship Between Selenoprotein P and Selenocysteine Lyase: Insights into Selenium Metabolism. 2018 Mar 21. pii: S0891-5849(18)30139-4. PMC6148438 [IF 6.02]

161. Ofili EO, Tchounwou PB, Fernandez-Repollet E, Yanagihara R, Akintobi TH, Lee JE, Malouhi M, Garner ST, Hayes TT, Baker AR, Dent AL, Abdelrahim M, Rollins L, Chang SP, Sy A, Hernandez BY, Bullard PL, Noel RJ, Shiramizu B, Hedges JR, **Berry MJ**, Bond VC, Lima MF, Mokuau N, Kirken RA, Cruz-Correa M, Sarpong DF, Vadgama J, Yates C, Kahn SA, Soliman K, Perry G, Pezzano M, Luciano CA, Barnett ME, Oyekan A, Kumar D, Norris KC, on behalf of the RCMI Investigators and RTRN Team Members. The RCMI Translational Research Network: Building and Sustaining Capacity for Multi-Site Basic Biomedical, Clinical and Behavioral Research. Ethnicity and Disease. 2019. Feb 21;29(Suppl 1):135-144. PMC6428183

162. Kremer PM, Torres DJ, Hashimoto AC, **Berry MJ.** Disruption of Selenium Handling During Puberty Causes Sex-Specific Neurological Impairments in Mice. Antioxidants (Basel). 2019 Apr 24;8(4). pii: E110.). PMC6523490

163. Ha HY, Alfulaij N, **Berry MJ,** Seale LA. From Selenium Absorption to Selenoprotein Degradation. Biological Trace Element Research. 2019 June 3; Doi.org/10.1007/s12011-019-01771. PMC6801053

164. Torres DJ, Pitts MW, Hashimoto AC, **Berry MJ**. Agrp-specific ablation of Scly protects against diet-induced obesity and leptin resistance. Nutrients. 2019. Jul 23;11(7). Pii: E1693. doi: 10.3390/nu11071693. PMID:31340540. PMC6682868

165. Benny P, Yamasato K, Yunits B, Zhu X, Ching T, Garmire LX, **Berry MJ**, Towner D. Maternal Cardiovascular-Related Single Nucleotide Polymorphisms, Genes, and Pathways Associated with Early-Onset Preeclampsia. PLOS One 2019, i PLoS One. 2019 Sep 26;14(9):e0222672. doi: 10.1371/journal.pone.0222672. eCollection 2019. PMC6762142

166. Seale LA, Khadka VS, Menor M, Xie G, Watanabe LM, Sasuclark L, Guirguis K, Ha HY, Hashimoto AC, Peplowska K, Tiirikainen M, Jia W, **Berry MJ**, Deng Y. Combined Omics Reveals That Disruption of the Selenocysteine Lyase Gene Affects Amino Acid Pathways in Mice. Nutrients. 2019 Oct 26;11(11). pii: E2584. doi: 10.3390/nu11112584. PMC6893568

167. Seale LA, Torres DJ, **Berry MJ**, Pitts MW. A role for selenium-dependent GPX1 in SARS-CoV-2 virulence. Am J Clin Nutr. 2020 Jun 27; doi:10.1093/ajcn/nqaa177. PMC7337667

168. Watanabe LM, Hashimoto AC, Torres DJ, **Berry MJ**, Seale LA. Effects of Selenium Supplementation in Diet-Induced Obesity of Mice with a Disruption of the Selenocysteine Lyase Gene. Journal of Trace Elements in Medicine and Biology. 2020 Dec; 62:126596. doi: 10.1016/j.jtemb.2020.126596. Epub 2020 Jul 11. PMC7655518.

169. Seale LA, Ogawa-Wong AN, Watanabe LM, Khadka VS, Menor M, Torres DJ, Carlson BA, Hatfield DL, **Berry MJ.** Adaptive Thermogenesis in a Mouse Model Lacking Selenoprotein Biosynthesis in Brown Adipocytes. Int. J. Mol. Sci. 2021, 22, 611. https://doi.org/ 10.3390/ijms22020611. PMC7827413

170. Yanagihara R, **Berry MJ**, Carson MJ, Chang SP, Corliss H, Cox MB, Haddad G, Hohmann C, Kelley ST, Lee ESY, Link BG, Noel RJ Jr, Pickrel J, Porter JT, Quirk GJ, Samuel T, Stiles JK, Sy AU, Taira DA, Trepka MJ, Villalta F, Wiese TE. Building a Diverse Workforce and Thinkforce to Reduce Health Disparities. Int. J. Environ. Res. Public Health 2021 Feb 7;18(4):1569. doi.org/10.3390/ijerph18041569. PMC7915161

171. Galton VA, Larsen PR, **Berry MJ.** The Deiodinases: Their Identification and Cloning of Their Genes. Endocrinology. 2021 Mar 1;162(3):bqab005. doi: 10.1210/endocr/bqab005. PMC7864002

172. Torres DJ, Alfulaij N, **Berry MJ**. Stress and the Brain: An Emerging Role for Selenium. Frontiers in Neuroscience. 15 April 2021. doi: 10.3389/fnins.2021.666601. PMC8081839.

173. Watanabe LM, Hashimoto AC, Torres DJ, Alfulaij N, Peres R, Sultana R, Maunakea AK, **Berry MJ**, Seale LA. Effect of statin treatment in obese selenium-supplemented mice lacking selenocysteine lyase. Mol Cell Endocrinol. 2021 Aug 1;533:111335. doi: 10.1016/j.mce.2021.111335. Epub 2021 May 27. PMID: 34052303.

174. Kremer PM, Torres DJ, Hashimoto AC, **Berry MJ.** Sex-specific Metabolic Impairments in a Mouse Model of Disrupted Selenium Utilization. Frontiers in Nutrition. 2021, May 10;8:682700. doi: 10.3389/ fnut.2021.682700. PMC8141863.

175. Torres DJ, Pitts MW, Seale LA, Hashimoto AC, An KJ, Hanato AN, Hui KW, Remigio SMA, Carlson BA, Hatfield DL, **Berry MJ.** Female Mice with Selenocysteine tRNA Deletion in Agrp Neurons Maintain Leptin Sensitivity and Resist Weight Gain While on a High-Fat Diet. Int J Mol Sci. 2021 Oct 12;22(20):11010. doi: 10.3390/ijms222011010. PMC8539086.

176. Nicholson JL, Toh P, Alfulaij N, **Berry MJ**, Torres DJ. New insights on selenoproteins and neuronal function. Free Radic Biol Med. 2022 Sep;190:55-61. doi: 10.1016/j.freeradbiomed.2022.07.021. Epub 2022 Aug 7.PMID: 35948259 Review.

177. Toh P, Nicholson JL, Vetter AM, **Berry MJ,** Torres DJ. Selenium in Bodily Homeostasis: Hypothalamus, Hormones, and Highways of Communication. Int J Mol Sci. 2022 Dec; 23(23): 15445. PMID: 36499772. PMC9739294.

178. An KJ*, Hanato AN*, Hui KW, Pitts MW, Seale LA, Nicholson JL, Toh P, Kim JK, **Berry MJ,** Torres DJ. Selenium Protects Mouse Hypothalamic Cells from Glucocorticoid-induced Endoplasmic Reticulum Stress Vulnerability and Insulin Signaling Impairment. Antioxidants, 2023. Feb 20; 12(2), 526. DIO:10.3390/antiox12020526. *co-first authors. PMCID: PMC9952756

179. Toh P, Seale LA, **Berry MJ**, Torres DJ. Prolonged maternal exposure to glucocorticoids alters selenoprotein expression in the developing brain. Frontiers in Molecular Neuroscience, 24, March 2023. Vol 16. PMCID: PMC10080067

180. Hedges JR, Chow DC, Fogelgren B, Braun KL, Tsark JU, Ordinado S, **Berry MJ**, Yanagihara R, Mokuau N. Health Disparities Investigator Development Through a Team-Science Pilot Projects Program. International Journal of Environmental Research and Public Health, 2023. Mar 30;20(7):5336. PMCID: PMC10094603

181. Ralston NVC, Raymond LJ, Gilman CL, Soon R, Seale LA, **Berry MJ.** Maternal Seafood Consumption is Associated with Improved Selenium Status: Implications for Child Health. Neurotoxicology 2024. Volume 101, March 2024, Pages 26-35, Published online 2024 Jan 23. doi: 10.1016/j.neuro.2024.01.003. PMCID: PMC10978253

182. Shimada BK, Apo Takayama NK, Hallam KA, Pjd S, Yew JY, Alfulaij N, Nakahara-Akita K, Soares AG, **Berry MJ,** Seale LA. A selenomethionine deficient, high-fructose diet does not lead to cardiometabolic disorder in the selenocysteine lyase knockout mice. J Trace Elem Med Biol. 2025 Aug;90:127685. doi: 10.1016/j.jtemb.2025.127685. Epub 2025 Jun 18. PMID: 40543467; PMCID: PMC12367225.

183. Świrski M, Tierney J, Albà M, Andreev D, Aspden J, Atkins J, Bassani-Sternberg M, **Berry M**, Biffo S, Boris-Lawrie K, Borodovsky M, Brierley I, et al. Translon: a single term for translated regions. Nature Methods 2025, Oct;22(10):2002-2006. doi: 10.1038/s41592-025-02810-3. PMID: 40890551.

184. Shimada BK, Watanabe M, Apo Takayama NK, Soares AG, Hallam KA, Rivers OS, Ewell K, Santiago PJD, Swanson SM, Toh P, Alfulaij N, **Berry MJ,** Seale LA. Cardiac redox imbalance upon disruption of selenocysteine decomposition in mice. Am J Physiol Heart Circ Physiol. 2025 Dec 1;329(6):H1480-H1496. doi: 10.1152/ajpheart.00370.2025. Epub 2025 Oct 24. PMID: 41134664.