***JAMES C. FLEET, Ph.D.***

4317 Attra Street

Austin, TX 78723

(Cell) 1-765-714-3366

# EMPLOYMENT

University of Texas at Austin 1/2021-present

Department of Nutritional Science, College of Natural Science

Margaret McKean Love Endowed Professor in Nutrition, Cellular, and Molecular Sciences

Purdue University 8/00-12/20

Department of Nutrition Science

 Professor 8/2006-2020

 Associate Professor 8/2000-8/2006

Director, Interdepartmental Nutrition Program at Purdue 8/2003-6/2017

**The University of North Carolina at Greensboro 8/97-7/00**

Assistant Professor, Department of Foods, Nutrition, and Food Services Management

Tufts University

**USDA Human Nutrition Research Center on Aging (HNRCA) 7/91‑8/97**

Scientist II, Mineral Bioavailability Laboratory

Assistant Professor, School of Nutrition Science and Policy (SNSP)

**Tufts University**

**USDA Human Nutrition Research Center on Aging 1/90‑6/91**

**Dental School**

Post‑doctoral Research Associate in the Bioavailability Laboratory (HNRCA) and the Bone Metabolism Group (Dental School). Mentors: Janet Hock, Ph.D., DDS.; Richard J. Wood, Ph.D.

**Tufts University 8/88‑12/89**

**USDA Human Nutrition Research Center on Aging**

Post‑doctoral Research Associate in the Cardiovascular Laboratory. Mentor: Peter Libby, M.D.

# EDUCATION

**Cornell University** Ph.D. Nutritional Biochemistry (Minors: Biochemistry, Toxicology) **1988**

**University of Delaware** M.S. Animal Nutrition (Minor: biochemistry) **1984**

**Cornell University** B.S. Animal Science **1981**

**RESEARCH EXPERIENCE**

**Current Projects:**

* Calcium and Bone Metabolism:
	+ Identification of genetic variation controlling calcium and bone metabolism
	+ Mechanisms controlling interactions between diet and genetic effects controlling calcium and bone metabolism
	+ Mechanism controlling calcium metabolism and bone mineralization
	+ Mechanistic studies on intestinal calcium absorption.
* Mechanisms of gene expression
	+ Genome-wide effects of vitamin D on gene expression in target tissues
	+ Effects of genetic variation or mutation on the regulation of gene expression
* Cancer:
	+ Development of genetically modified animal models of human cancer
	+ Role of vitamin D status and vitamin D signaling on prostate and colon cancer.
	+ Impact of nutrition on intestinal stem cells and cancer initiation
	+ Environmental influences on Myeloid Derived Suppressor cell (MDSC) biology in the tumor microenvironment
	+ Role of inflammation in tumor initiation and progression.

**TEACHING EXPERIENCE**

**University of Texas at Austin**

* NTR 306 (Fundamentals of Nutrition): Teach non-majors about the principles of nutrition as a science elective. (3 cr, annually in Fall, taught 2021-present)
* NTR 390.7 (Advances in Nutritional Sciences II): Graduate-level course on vitamins and minerals. The course discusses biochemical and molecular roles of vitamins and minerals then places these roles in physiologic and disease contexts. (3 cr, annually in Spring, taught 2022-present)

**Purdue University 2000-2020**

* NUTR 60500 (Nutritional Biochemistry and Physiology I): Taught first-year graduate students basic concepts in cell and molecular biology using intestine as a model system, teach physiologic and molecular importance of specific vitamins and minerals in disease risk (4 cr, annually in Fall, taught 2003-present).
* NUTR 69400 (Introductory presentation skills in Nutrition Science): Taught graduate students how to organize research data for presentation at national meetings in the form of a 12 minute oral presentation or a poster presentation (1 cr, annually in Spring, taught 2003-present).
* NUTR 62700 (Scientific Writing) Taught graduate students how to research and write a critical review on a focused scientific topic. A 15 page review is completed during the semester (1 cr, annually in Fall, taught 2014-2016, 2018)
* NUTR 62600 (Advanced Presentation Skills): Taught graduate students how to organize information from multiple scientific reports and present a 40 minute research-based seminar for a professional audience. (1 cr, annually in Spring; taught 2013-2016, 2018, 2019)
* NUTR 49500 (Presentation Skills for Nutrition Science majors): Taught undergraduate Nutrition Science majors how to prepare and present talks to a professional audience and how to adapt that talk to be given to a lay audience (1 cr, annually in Spring; taught from 2006-2015).
* NUTR 62300 (Nutrition and Cancer Prevention): Discussion-based course for graduate students that evaluates the relationship between dietary factors and the development of various cancers. Examples are given from population, clinical, animal, and molecular experimentation (2 cr, 2005, 2007, 2009, 2018).
* Summer Bootcamp on Big Data Training for Translational Omics Research: Organized and co-taught with 3 other faculty. This was a 2 week intensive, hands-on workshop on the analysis of high density omic data. Target audience is biomedical researchers who are novices in big data science. (2015-2018). An on-line version of the Summer Bootcamp was offered in Spring of 2018.
* NUTR 10500 (Nutrition in the 21st Century): Taught a broad overview of nutrition to incoming freshmen (1 cr, 2001, 2002). From 2015-2020 I guest lectured in this class to give students a view of the scientific opportunities in nutrition.
* NUTR 590G: (Nutrition and Genetics) – Literature-based, discussion focused course for graduate students investigating the relationship between genetic variation, dietary factors, and disease risk (2 cr, 2008, 2010).
* NUTR 590H: (Nutrition and Genomics) – Journal club course for graduate students that evaluates the genomic technology of gene expression profiling and its potential uses in biology/nutrition (gene discovery, disease diagnosis, systems biology) (1 cr, 2005).

**UNC-Greensboro 1997-2000**

* Taught scientific presentation skills to graduate students. (30 graduate hours, NFS 609)
* Taught graduate students basic cell and molecular biology, protein and amino acid metabolism, and the nutritional biochemistry and physiology of mineral elements and vitamins. (68 graduate hours/year, NFS 625, 626)
* Led a student-focused discussion on basic research in nutritional sciences and professional skills development (45 graduate hours/year, NFS 653-01)

**Tufts University 1989‑1997**

* Taught medical students about the importance of dietary essential mineral nutrients
* Taught graduate nutrition students about the nutritional, physiological and biochemical significance of minerals as part of a core course in nutritional biochemistry and physiology (24 graduate hours/year).
* Coordinated the full year course in nutritional biochemistry and physiology team-taught by 15 faculty members.
* Lectured on the link between diet and hypertension to dental students
* Organized and implemented a journal club course for science track students in the graduate program at the SNSP that emphasized presentation skills

**University of Delaware 1984**

 Taught a weekly, 2 1/2-hour lab to animal science students on the formulation of diets for farm animals as part of an introductory animal nutrition course. Organized student feeding projects, assisted students with questions pertaining to the lab and lecture portions of the course, graded problem sets, and lectured (1.5 h/wk).

**PROFESSIONAL ORGANIZATIONS**

\* American Society of Bone and Mineral Research (ASBMR) - 1991 to present

\* American Association for the Advancement of Science (AAAS) – 1999 to present

\* American Association for Cancer Research (AACR) – 2009 to present

\* American Gastroenterological Society (AGA) – 2002 to present

\* American Society for Nutrition (ASN, formerly ASNS) - 1992 to 2018

 \* Endocrine Society – 2006 to 2009

\* Gamma Sigma Delta ‑ The Honor Society of Agriculture, 1988 to present

**SERVICE/ADMINISTRATIVE ASSIGNMENTS**

***Program Management:***

Director, Interdepartmental Program in Nutrition 8/1/2003-7/30/17

 Purdue University

Leader, Biological Big Data Science Initiative 5/2015-12/2016

 Purdue University

Director, Center for Gene-Environment Interactions 1/2007-2011

 Purdue University

Director, Graduate Program in Nutrition, 1/98-5/2000

 UNC-Greensboro, Dept. of Nutrition and Foodservice Systems

***Service, University of Texas:***

\* CNS Spark Grant Review Committee, 2022

\* Grant review panel, MD Anderson-UT collaborative cancer research grants, 2022

\* Chair, Comprehensive Periodic Review Committee, 2022

\* Chair, Faculty search committee, 2021-2022, 2022-2023

\* Chair, Graduate Admissions Committee, 2021-2022, 2022-2023

\* Member, Faculty search committees for multiple positions, 2021

\* Member, Department of Nutritional Sciences Graduate Studies Committee, 2021-present

***Service, Purdue University:***

\* Faculty Supervisor, Purdue Bone and Body Composition Preclinical Phenotyping core, 2019-2020.

\* Faculty coordinator, UT Dublin undergraduate scientific research exchange, 2019-2020.

\* Member, Flow Cytometry Core Facility Advisory Committee, Bindley Biosciences Center, Purdue University, 2015-2020

\* Department of Nutrition Science External Awards Committee, 2001-2020

\* Dept. of Nutrition Science representative to the College of Health and Human Sciences Area Committee for Promotion and Tenure 2011-2020

\* Search Committee for the Dean of Science, Purdue University, 2016-2017 academic year

\* Member, Computational Interdisciplinary Graduate Programs (CIGP) Advisory Committee, 2016-2017

\* Member, K01-award mentoring committee; Kathleen Hill-Gallant PhD, Purdue University, 2015-2019

\* Faculty Search Committee Member, Purdue Drug Discovery Center, 2014-2016 (6 positions)

\* Provost Search Committee, 2014-2015 academic year

\* School of Consumer and Family Sciences (CFS) Graduate Education Committee, 2002-2017

\* Dept. of Nutrition Science Faculty search committee, 2001, 2002 (chair), 2003 (chair), 2009 (chair), 2010 (chair), 2012 (2), 2014 (chair)

\* Member, Showalter Professorship Selection Committee, 2013

\* Faculty Search Committee Member, Epigenetics Cluster Hire 2012-13

\* Faculty Search Committee Member, Dept. of Nutrition Science 2012-13

\* College of Health and Human Sciences Strategic Planning Committee, Subcommittee chair for research and graduate education, 2011-2012.

\* Executive Committee, Bindley Biosciences Center, 2007-2010

\* Search Committee, Dean for Graduate Studies, 2007-2009

\* Subcommittee for Re-accreditation review of Purdue University. 2007-2010

\* Faculty Search Committee, Department of Animal Sciences, 2006-2008

\* Area Committee to Review Graduate Course Proposals in Life Sciences, 2004-2006

\* Cancer Center Director Search Committee, 2005-2007

\* Steering Committee, Purdue Center for Agricultural Genomics, 2003-2005

\* Purdue University Proteomics Task Force, 2002-2003

\* Purdue Genomics Symposium representative, 2002

\* Purdue Cancer Center Faculty search committee, Spring 2002

\* Campus Grievance Appeals Committee, 2001-2012

\* College of Consumer and Family Sciences (CFS) Grievance Committee, 2001-2010

\* Dept. of F&N Spring Fest Organizing Committee, 2001

\* Interdepartmental Nutrition Program (INP) Seminar Committee – 2001 to 2008

***Service, UNC-Greensboro:***

\* University Biosafety Committee – 1997 to 1999

\* IACUC – 1998 to 1999

\* HES Faculty Development Committee – 1998 to 1999

\* Nutrition and Food Service (NFS) Department Executive Committee – 1998 to 1999

\* NFS Graduate Committee – 1997 to 1999

\* NFS Faculty Search Committee – 1997 (Assistant Professor)

\* NFS Department Chair Search Committee - 1998

***Service, Tufts University:***

\* Curriculum and Degrees Committee – 1994 to 1997

\* HNRCA Animal Care and Use Committee - 1989 to 1997

\* Chair, ad hoc committee for the reorganization of the Nutritional Biochemistry and Physiology Course - Fall 1993 to 1995

\* Ad Hoc committee on the Ph.D. Comprehensive Exam, SNSP, 1995

\* Ad Hoc committee on Student representation to the SNSP C&D committee, 1995

\* Ad Hoc committee on transfer credits for courses taken at other universities, 1995.

\* Member, Task Force evaluating the Nutrition Sciences, 1996

\* Member, Scientific Advisory Board for “Nutrition and Journalism” Project, 1996-1997.

**AWARDS/HONORS**

\* 2019; Fellow of the American Society for Bone and Mineral Research

\* 2019; Outstanding Reviewer Award, Experimental Biology and Medicine.

\* 2017; Outstanding Investigator Award, Vitamin and Minerals Research Interest Section, American Institute for Nutrition (ASN)

\* 2016; Outstanding Reviewer Award, Endocrinology

\* 2012-2019; Distinguished Professorship, Purdue University

\* 2012; Lafayette Lions Club Award for outstanding achievements in cancer research at Purdue.

\* 2004, 2009; Acorn Award. Honors faculty who have attracted large research awards to the university

\* 2004-2009; University Faculty Scholar, Purdue University

\* 2001; Mead Johnson Award from the American Society for Nutrition Science (ASNS). Honors achievement in the first 10 years of an independent career.

\* 1988, Bruckner Memorial Award for Excellence in Graduate Studies, Cornell University

\* 1987; Summers‑Scott Graduate Research Assistantship, Cornell University

\* 1983; Delmarva Poultry Producers Scholarship

**OTHER PROFESSIONAL ACTIVITIES**

**A. Professional Society Service**

\* Guest Editor, Journal of Steroid Biochemistry and Molecular Biology, Special Issue for the 24th Vitamin D Workshop, 2022-23

\* Organizer, 24th Vitamin D Workshop, Austin, Texas Sept 7-9, 2022

\* Participant, One Voice Against Cancer Capital Lobby Day, May 10, 2022

\* Co-chair and Conference Organizer, 23rd Vitamin D Workshop, a virtual symposium held in conjunction with the Keystone Symposium group, Oct 13-14, 2021

\* Guest Editor, Journal of Steroid Biochemistry and Molecular Biology, Special Issue for the 23nd Vitamin D Workshop, 2021-22

\* Chief Executive Officer, Vitamin D Workshop, Inc., 2019-present. This is a not-for-profit organization that is responsible for organizing an annual meeting on vitamin D biology and the health and policy implications of those biological functions.

\* Member, Publications Committee, American Society for Bone and Mineral Research 2019-2022

\* Chair and Conference Organizer, 22nd Vitamin D Workshop, New York City, May 2019

\* Guest Editor, Journal of Steroid Biochemistry and Molecular Biology, Special Issue for the 22nd Vitamin D Workshop, 2019

\* Vice Chair, Workshop Planning Committee, 21th Vitamin D Workshop, Barcelona Spain, May 2018

\* Assistant Guest Editor, Journal of Steroid Biochemistry and Molecular Biology, Special Issue for the 21st Vitamin D Workshop, 2018

\* Member, Vitamin D Workshop Executive Committee, 2016-2019.

\* Member, Program Advisory Committee, 12th-14th, 17th-19th Vitamin D Workshop, 2003-2016

\* Assistant Guest Editor, Journal of Steroid Biochemistry and Molecular Biology, Special Issue for the 20th Vitamin D Workshop, 2017

\* ASN Strategic Oversight Committee, 2015-2018

\* Abstract Reviewer for American Society for Bone and Mineral Research Meeting, 2008, 2010, 2014

\* Faculty Advisor, ASN Student Interest Group (SIG), 2000-2003; 2012-2015.

\* Program Committee, American Institute for Cancer Research Annual Meeting, 2012, 2013

\* ASN, Senior Awards Juror, 2010-2011.

\* AGA Councilor, Nutrition and Obesity Section, 2010-2012

\* AGA Abstract Review Committee member, 2009, 2010

\* Program Committee for EB2004, American Society for Nutrition Science (ASNS), 2003

\* Chair, ASNS Task Force on Membership Issues for Basic Scientists, 2002

\* Chair, ASNS Nutrient-Gene Expression Research Interest Section, 2002

\* Chair, ASNS Task Force on Emerging Technologies Workshop, 2002: Genomics, Proteomics, and Metabolomics

\* Chair, ASNS New Members Committee, 1999-2000

\* Organizing Committee, ASNS New Members Symposium for EB’99, EB2000

\* Member of the New Members Committee, ASNS, 1998-2000

**B. Grant and Manuscript Review**

\* Associate Editor, Journal of Steroid Biochemistry and Molecular Biology, 2021-present

\* Chair, American Institute of Cancer Research Grant Review Panel, 2021, 2022

\* Editorial Board, Endocrinology, 2015-2018, 2019-2021

\* Editorial Board, Journal of Steroid Biochemistry and Molecular Biology, 2019-2020

\* Reviewer, 9th Edition of Molecular Cell Biology, Lodish et al., Chapter 9, 2020

\* Member, CDP Study Section for NIH, 2012-2016

\* Member, College of CSR Reviewers for NIH, 2010-2012

\* Member, INMP Study Section for NIH, 2004 – 2009

\* Editorial Board, Journal of Nutrition, 2000-2008.

\* Ad hoc reviewer of manuscripts for: American Journal of Clinical Nutrition, American Journal of Physiology, Archives of Biochemistry and Biophysics, Biochemistry et Biophysica Acta (Gene regulation), Bone Reports, BMC Biotechnology, BMC Genomics, British Journal of Nutrition, Cancer Research, Cancer Prevention Research, Carcinogenesis, Endocrine Related Cancer, Endocrine Reviews, Endocrinology, FASEB Journal, Hormone and Metabolic Research, Human Molecular Genetics, Immunotherapy, International Journal of Cancer, International Journal of Environmental Research and Public Health, iScience, JBMR Plus, Journal of Applied Animal Research, Journal of Biological Chemistry, Journal of Bone and Mineral Research, Journal of Cellular Biochemistry, Journal of Cellular Physiology, Journal of Clinical Endocrinology and Metabolism, Journal of Nutrition, Journal of Steroid Biochemistry and Molecular Biology, Obesity Research, Nature Communications, Nature Reviews Cancer, Nutrition and Cancer, PLOS One, Proceedings of the Society for Experimental Biology and Medicine, Scientific Reports, Steroid Biochemistry & Molecular Biology.

\* Ad hoc grant reviewer for US Department of Agriculture (1997-2000, including scientific review of programs at the Human Nutrition Research Centers in 2004 and 2009), American Institute for Cancer Research (2002, 2019), Nutrition Study Section of the NIH (1994), NIH Instrumentation Grant Program (2002, 2003, 2005), Genesis Oncology Trust (2002), Welcome Trust UK (2003), NIH RFA program for Metabolomics Technology Development (2004), Science Foundation Ireland (2003, 2005, 2008), Chemo and dietary prevention (CDP) study section (Feb 2010, June 2011), NIH special emphasis panels (June 2011, Oct 2011), NIH conference grant review panel (Summer 2017), Integrated Nutrition and Metabolic Processes (INMP) study section (Feb 2018), NIH New Innovator Award Program (Feb 2019), CTSI Pilot grant reviewer (May 2019), PRMRP Nutrition Optimization Study Section (May 2019), NIDDK RC2 Innovative Grant Program (Feb 2020), NIH SEP for rapid response to COVID-19 panel (July 2020), NOW/ZonMw (Netherlands October 2020).

**C. External Promotion and Tenure Review (28)**

\* External Reviewer, promotion to Associate Professor with tenure, Department of Pediatric Endocrinology, Baylor College of Medicine

\* External Reviewer, promotion to Associate Professor, Department of Pathology and Laboratory Medicine, Boston University School of Medicine, May 2022

\* External Reviewer, mid-point to Tenure evaluation, Department of Biology, University of Miami, February 2022

\* External Reviewer, Promotion and Tenure, Department of Nutrition, Pennsylvania State University, October 2021

\* External Reviewer, Promotion, Department of Pharmacology, Ohio State University, August 2021

\* External Reviewer, Promotion, Department of Medicine, University of Wisconsin School of Medicine, November 2020

\* External Reviewer, Tenure, Department of Nutrition, University of Massachusetts-Amherst, January 2020

\* External Reviewer, Promotion, Department of Medicine, University of Wisconsin School of Medicine, November 2019

\* External Reviewer, Promotion and Tenure, Department of Biology, University of Notre Dame, October 2019

\* External Reviewer, Promotion, Department of Medicine, Washington University School of Medicine, November 2018

\* External Reviewer, Promotion, Department of Nutrition and Food Science, Texas A&M University, August 2018

\* External Reviewer, Promotion and Tenure, Department of Veterinary Pathobiology, University of Missouri, August 2018

\* External Reviewer, Promotion, Department of Biochemistry and Biophysics, Oregon State University, October 2017

\* External Reviewer, Promotion, Division of Nutritional Sciences, Cornell University, September 2017

\* External Reviewer, Promotion and Tenure, Department of Nutrition and Health Science, University of Nebraska, August 2017

\* External Reviewer, Promotion, University of Florida, Department of Food Science and Human Nutrition, August 2017

\* External Reviewer, Promotion and Tenure, University of Massachusetts, Department of Nutrition, August 2017

\* External Reviewer, Tenure, Department of Pathology, Northwestern University Medical School, Spring 2017

\* External Reviewer, Promotion, Department of Medicine, University of Chicago, Spring 2015

\* External Reviewer, Promotion, Department of Pharmacology, Case Western Reserve University School of Medicine, Fall 2014

\* External Reviewer for Promotion, University of Colorado School of Medicine, Department of Pharmacology, 2012.

\* External Reviewer, Promotion, Case Western Reserve University, Department of Nutrition, 2010.

\* External Reviewer, Promotion, Cornell University, Division of Nutritional Sciences, 2010.

\* External Reviewer, Promotion, Iowa State University, Department of Nutrition, 2009.

\* External Reviewer, Promotion, Wake Forest University, Department of Cancer Biology, 2009.

\* External Reviewer, Tenure, Louisiana State University, Department of Biology, 2007.

\* External Reviewer, Tenure, Case Western Reserve School of Medicine, Department of Nutrition, 2006.

\* External Reviewer, Promotion, McGill University, Department of Physiology, 2005.

**D. External Thesis/Dissertation Review (8)**

\* External Reviewer and Examiner, PhD Thesis, Department of Physiology, University of Alberta, June 2021

\* External Examiner, PhD Thesis, McGill University, Summer 2020

\* External Reviewer, PhD Thesis, Department of Pharmacology and Therapeutics, University of Rochester, October 2017

\* External Reviewer, PhD Thesis, McGill University, Montreal, Canada, May 2017

\* External Examiner, PhD Thesis, University of South Australia, Adelaide, South Australia, Winter 2017

\* External Reviewer, PhD Thesis, McGill University, Montreal, Canada, Oct 2014

\* External Reviewer, M.S. Thesis, McGill University, Montreal, Canada, Dec 2013

\* External Examiner, Ph.D. Thesis, University of Adelaide, South Australia, Dec. 2005

**D. Other**

\* Member, K08 Mentoring Committee, Erica Mandell MD, University of Colorado Health Sciences Center, 2020-present

\* Scientific consultant, Kleinfeld, Kaplan & Becker LLP, 2019-2020

\* Grant writing consultant, Medical College of Wisconsin, 2017-2018

\* Multiple Sclerosis Society of Canada’s Vitamin D and Multiple Sclerosis Expert Panel, 2016-2017

\* Scientific Advisory Board, Innophos, Inc. Nov 2015 – 2016.

\* Final Research Report Review, Austrian Science Fund, Nov 2014.

\* External Advisory Board, Department of Food Science and Nutrition, University of Illinois 2014-2017.

\* External Reviewer for the 2010 Dietary Reference Intake report for vitamin D and Calcium, 2010

\* Member, Task force to evaluate the measurement and use of serum 25 hydroxyvitamin D in the NHANES population, 2009.

\* External Advisory Committee, University of Illinois NIH-funded Botanicals Center, 2010-2011.

\* External Advisory Committee, University of Nebraska, Nutritional Genomics Research Center, 2010

\* External Advisory Committee member, University of Nebraska Metabolite Signaling Center, 2004-2006

\* Consultant for Wyeth Consumer Products on Calcium and Vitamin D in Health April 2004

\* Program Committee, Purdue University Genomics Symposium, 2002

\* Contributing Editor, Nutrition Reviews, August 1995-2002

\* Steering Committee Nutrition and Gene Expression Research Interest Group, ASNS, 1999-present

\* Organizer of the FASEB Summer Research Conference “Molecular Mechanisms of Regulation by Dietary Constituents.”, 2001

\* Consultant, Dept. Health and Nutrition Communications, Burson-Marsteller, 1996-1997.

\* Member of Program Committee, 4th Annual Brown University Symposium on Vitamin D, September 1996

**GRANTS (>$14 million total funding in career)**

**Pending:**

**\* NIH R01 7/1/23-6/30/22** “Maximizing peak bone mass: Interactions among genetics, dietary calcium, and mechanical loading” ($3,800,625 total costs; $1,468,857 to JCF at UT) PI: Russel Main (Purdue University), Role: J.C. Fleet, Co-I.

**\* NIH R01 4/1/23-3/31/28 “Regulation of Manganese Homeostasis by Vitamin D” ($3,336,348 total costs; $515,000 to JCF at UT) Multi-PI: S. Christakos (Rutgers); S. Mukhopadhyay (University of Texas, Austin), J.C. Fleet (University of Texas, Austin) 25% upon review; preparing for resubmission.**

**\* NIH R01, 7/1/22-6/30/27 “Genetic factors controlling vitamin D status in response to dietary changes” (**$3,688,132 total requested; $889,793 **to JCF at UT) Multi-PI: F. Ideraabdullah (UNC-CH, 15% effort), J.C. Fleet (University of Texas, Austin, 15% effort) (Not discussed, to be resubmitted June 2023)**

**Currently Funded:**

**\* Mushroom Council, 1/2022-6/2023 “Impact of vitamin D enriched mushrooms on immune function in healthy individuals.” $250,000 direct costs; PI: W.W. Campbell (Purdue); Co-I: M. Olsen (Purdue), J.C. Fleet (University of Texas, Austin, 5% effort)**

**\* NIH R13 8/1/2021-7/31/2026 “Conference Grant for the Vitamin D Workshop” $250,000 direct costs; PI: JoEllen Welsh (University of Albany); Co-I: J.C. Fleet.**

\* UT Start-up Funds 1/16/21-1/15/26 $2,000,000

\* NIH, K08HL150222, 2/1/2020-1/31/25 “Role of Vitamin D in lung development and bronchopulmonary dysplasia. PI: Erica Mandell, MD; Role: Mentoring committee (0%)

**Previously Funded:**

\* NIH, R01DK18036, 9/15/19-12/30/20 “Nutrigenetics of intestinal calcium absorption” ($1,406,320 total), Role: PI: J.C. Fleet (25% effort)

\* NIH, R01DK112365, 7/1/2017-4/1/21 “Nutrigenomics of intestinal vitamin D action” $2,164,822 total ($631,967 to Fleet Lab), Multi-PI: Sylvia Christakos (Rutgers), Michael Verzi (Rutgers), J. C. Fleet (Purdue). (15% effort)

\* NIH, R21 CA221942, 8/1/19-7/31/21 “Immunomodulation by Dietary Protein Restriction” ($375,000 direct), PI: Roberto Pili (IUSM); Role: Co-PI (5% effort).

\* AICR, #359587, 1/1/18-8/31/21 “Regulation of tumor cell evasion from immune surveillance by vitamin D.” $165,000 total (10% indirect). PI: J.C. Fleet. (10% effort)

\* Purdue University, 12/1/2017-10/31/2019, “Tocotrienols, 13’-carboxychromanol and their combinations with sulindac as effective agents for colon cancer.” $30,000, PI: Qing Jiang; Role: co-PI. (5% effort)

\* NIH, K01DK102864, 6/1/2015-2019 “Phosphorus Absorption and Balance in normal physiology and chronic kidney disease.” $670,720 direct. PI- Kathleen Hill Gallant; Role: Mentoring Committee. (0% effort)

\* NIH 9/30/15 – 8/30/18 R25EB022368 “Big Data Training for Translational Omics Research” $486,000 total (8% indirect). PI: Min Zhang, Role: Co-PI (10% effort)

\* NIH 9/1/16 – 8/30/17 (NCE) R25EB022368-02S1 “Supplement to Big Data Training for Translational Omics Research” $162,000 total (8% indirect). PI: Min Zhang, Role: Co-PI (10% effort)

\* Purdue University Center for Cancer Research 2/20/17-2/28/2018 “Use of multidimensional flow cytometry to identify MDSC precursors and subtypes. $6,000 direct, PI: J.C. Fleet (0% effort)

**\*** Purdue Center for Cancer Research Challenge Grant 2/29/2016 – 2/28/2017 **“**Impact of gut microbial metabolites on colon cancer development” $30,000 direct, PI: Chang Kim, Co-PI (5% effort)

\* CTSI Core facilities award – 2/1/2015-1/31/2016 “Transcriptome analysis of myeloid derived suppressor cell function” $10,000 direct, PI: J.C. Fleet (0% effort)

\* Purdue VPR equipment grant – 2/1/2015-1/31/2016 “ Piximus II Small animal densitometer for studies of body composition. $74,360 direct, PI: J.C. Fleet (0% effort)

\* Showalter Trust Foundation – 7/1/2014-6/30/2015 “Precise and Efficient Identification of Rare Disease-relevant Alleles in Mouse” $50,000 direct ($62,500 total), PI: B. Dilkes (Purdue Biochemistry), Role: co-PI (5% effort).

\* Purdue University Center for Cancer Research – 3/31/14-4/1/15 “Accurate and rapid detection of mutations in mouse colon tumors” $30,000 direct, PI: J.C. Fleet (5% effort).

\* NIH – R21CA165240, 3/1/12 – 2/28/14 “Inducible colon-specific transgenic mouse for cancer research” $308,000 total costs, PI: J.C. Fleet (10% effort)

\* Purdue University Center for Cancer Research – 11/1/13–2/1/14 “Flow cytometry core facility method development grant” $5000 total. PI: J.C. Fleet.

\* NIH – R01DK54111, 1/1/2009-12/31/13, DK54111-14 “Intestinal Calcium Absorption: Molecular mechanism” $1,304,775 total, PI: J.C. Fleet. (25% effort)

\* NIH – R21ES019103, 10/1/09 – 7/31/12 “Diet by Gene Interactions Affecting Calcium and Bone Metabolism” $750,000 total costs, PI: J.C. Fleet. (20% effort)

\* AICR – #09A098, 1/1/09 – 12/31/11 “Does vitamin D status modulate colon cancer driven by APC allele loss?” $165,000 total costs, PI: J.C. Fleet (10% effort)

\* USDA – 11/06 – 10/11 “Interdepartmental Nutrition Program at Purdue Fellowship Application in the Discipline of Nutrition and the Area of Obesity and Diet” $229,500 total costs, PI: J.C. Fleet (0% effort supported but part of my duties as Graduate Program Director)

\* Purdue Center for Cancer Research – 11/30/09 – 12/1/10 “Cancer Innovation Pilot grant” Making an inducible colon-specific transgenic mouse.” $10,000 total costs, PI: J.C. Fleet (5% effort)

\* NIH – ARRA Supplement to NIH Award DK54111-12 – 1/1/2010 – 12/31/11 $99,999 total costs, PI: J.C. Fleet (0% effort)

\* NIH – R21CA124527, 7/1/07 – 6/30/10 “Colon-specific transgenic mouse for cancer research.” $300,000 total costs, PI: J.C. Fleet. (10% effort)

\* NIH – 9/1/04 – 5/31/10 “Vitamin D Status and Prostate Cancer,” $2,005,000 total, PI- J.C. Fleet (15% effort)

\* Purdue Botanical Center Pilot Grant – 9/1/08 to 8/31/09, “Soy-vitamin D interactions affecting prostate and bone health.” $25,000 direct costs, PI: J.C. Fleet (5% effort)

\* Showalter Trust – 7/1/08 – 6/30/09 “Genome-wide Examination of Binding Sites for Transcription Factors Responsible for Prostate Cancer Prevention”, $75,000 total costs, PI: J.C. Fleet (10% effort)

\* ASBMR Bridge Grant Program – 7/1/08 to 6/30/09 “Intestinal calcium absorption molecular mechanisms”, $50,000 total costs, PI: J.C. Fleet (5% effort)

\* NIH– R01DK54111, 10/04-7/31/08, “Intestinal Calcium Absorption: Molecular mechanism” $1,085,000 total, PI: J.C. Fleet. (25% effort)

\* Showalter Trust – 7/1/06 – 6/30/07 “Transcriptional Regulation Profiling of Genes Relevant to Prostate Cancer Progression”, $75,000 total, PI: J.C. Fleet (10% effort)

\* Purdue Research Foundation – 7/1//06 – 6/30/07 “Support for Ph.D. candidate, Zhentao Zhang”, $22,000 total, PI: J.C. Fleet (0% effort)

\* American Institute of Cancer Research (AICR) #05A131– 09/05 to 08/07 “Calcium and Vitamin D interaction in Prostate Carcinogenesis” $165,000 (10% indirect) PI: S.K. Clinton, Role: co-PI (5% effort).

\* Showalter Trust – 7/1/04 – 6/30/06 “Defining the molecular regulators controlling the development of a functionally mature intestine. $75,000 total, PI: J.C. Fleet (10% effort)

\* Showalter Trust – 7/1/04 – 6/30/05 “Development of intelligent nanotechnology-based approaches for the treatment of bone”. $75,000 total, PI: T. Webster, Role: Co-PI (5% effort)

\* Purdue Agricultural Research Program – 7/1/04 – 6/30/06 “Support for graduate student, Christy Gliniak”, $44,000 total, PI: J.C. Fleet (0% effort).

\* USDA – 8/03-7/05 “Dietary protein intake and muscle gene expression in elderly women” $275,000 Multi-PI: Dr. Wayne Campbell, J.C. Fleet (10% effort).

\* NIH – Pilot grant from Purdue Botanicals Research Center – 8/31/03-9/1/04 “Genistein-mediated prostate cancer prevention through enhanced vitamin D signaling” $25,000 total, PI: J.C. Fleet. (5% effort)

\* NIH – R01DK54111, 9/97-9/04, “Calcium absorption in Caco-2 cells: Molecular mechanism”,

 $925,000 total, PI: J.C. Fleet. (25% effort)

\* NIH R01DK54111, Competitive Supplement – 4/99 – 2/03 “Role of VDR level in vitamin D mediated calcium absorption”, $144,000 (5% effort)

\* Veterans Administration – 5/00-6/03 “Genetic markers for bone mineral density in men”, $193,000 subcontract for genotyping. PI: Pantel Vokonas, (Boston University), Role: co-PI (10% effort)

\*USDA – 8/2000 Conference grant for FASEB summer conference on “Molecular Mechanisms of Regulation by Dietary Constituents.” $10,000 direct PI: J.C. Fleet (0% effort)

\*NIH – 8/2000 Conference grant for FASEB summer conference on “Molecular Mechanisms of Regulation by Dietary Constituents.” $30,800 direct, PI: J.C. Fleet (0% effort)

\* North Carolina Institute of Nutrition –6/30/99-5/31/00 “Does low VDR level limit the regulation of calcium absorption by calcitriol?”, $3,500 total, PI: J.C. Fleet (5% effort).

\* North Carolina Institute of Nutrition –6/30/99-5/31/00 “Examination of the ligand binding domain of the VDR for polymorphisms that alter hormone binding.” $8,500 total, PI: Vince Henrich, Role: Co-PI (5% effort).

\* North Carolina Institute of Nutrition – 6/30/98-5/31/99 “The role of vitamin D receptor in vitamin D-mediated intestinal calcium absorption”, $9,500 total, PI: J.C. Fleet (5% effort)

\* UNC-Greensboro, New Faculty Grant – 3/98 “Funds for importing the vitamin D receptor knockout mouse from Japan”, $1,200 total, PI: J.C. Fleet (0% effort).

\* UNC-Greensboro, New Faculty Grant – 9/97-8/98 “Regulation of iron metabolism in Caco-2 cells”, $2,500 total, PI: J.C. Fleet (0% effort)

\* Subcontract to NIH Grant - 12/97-11/99, “Vitamin D receptor genotype and alveolar bone

 Loss”, $45,000, PI: Elizabeth Krall, Role: co-PI (5% effort)

\* Contract for Laboratory Services - 9/96-11/96, “Identification of VDR RFLP in blood samples from VA Normative Aging Study.” $23,500 total, PI: J.C. Fleet (5% effort)

\* USDA Competitive Grant - 9/95-8/97, "Vitamin D receptor genotype and calcium metabolism in premenopausal women.", $218,580, PI: Richard Wood, Role: Co-PI (10% effort).

\* NIH supplement to Grant "Effects of Calcium and Vitamin D on Bone Loss from the Hip", Bess Dawson-Hughes, PI. - 1994, Award for the costs associated with conducting VDR- RFLP analysis on 400 elderly men and women in the STOP-IT cohort. $50,000 total, PI: Elizabeth Krall, Role: co-PI (5% effort)

\* USDA HNRCA Internal Award – 1994, “Effect of vitamin D receptor genotype on bone density in young black and white women”, $15,000 total, PI: J.C. Fleet. (5% effort)

\* Research Award from Genetics Institute, Cambridge, MA – 1993 “Effects of aging on BMP-induced bone formation in rats”, $17,000 total, PI: J.C. Fleet (5% effort)

\* National Osteoporosis Foundation Research Grant - 8/90-9/92, "Local growth factor induction in the in vivo anabolic effect of PTH on rat bone" $30,000 total, PI: J.C. Fleet (10% effort)

\* Samuel A. Levine Fellow ‑ The American Heart Association ‑ 12/88‑12/89, "Monokine gene expression by vascular tissue during diet‑induced atherosclerosis", $17,500 total, PI. J.C. Fleet (100% effort)

**PRESENTATIONS/PUBLICATIONS (as of 3/20/2023)**

Total citations: 8583; h-index = 48; i10 index = 106

Since 2018: 2885; h-index = 25; i10 index = 61

[Primary Research Papers, 101 published/accepted, 4 in review/preparation]

1. **Fleet, J.C.,** Qureshi, M.A., Dietert, R.R. and McCormick, C.C. (1988). Tissue specific accumulation of metallothionein in chickens as influenced by the route of zinc administration. J. Nutr. 118:176‑182.
2. **Fleet, J.C.** and McCormick, C.C. (1988). The ontogeny and induction by zinc of hepatic chick embryo metallothionein. Proc. Soc. Exp. Biol. Med. 188:52‑60.
3. McCormick, C.C. and **Fleet, J.C.** (1988). The toxicity of parenteral copper in the chick: Dependence on route of administration. J. Nutr. 118:1398‑1402.
4. McCormick, C.C., Lin, L.Y., and **Fleet, J.C.** (1989) Metalloforms of metallothionein induced by parenteral copper: the influence of route of administration. Adv. Exper. Med. Biol. 258:123‑130.
5. **Fleet, J. C**., Golemboski, K. A., Dietert, R. R., Andrews, G. K., and McCormick, C. C. (1990) Induction of hepatic metallothionein by intraperitoneal metal injection in chicks: An associated inflammatory response. Am. J. Physiol.258:G926‑G933.
6. **Fleet, J. C**., Andrews, G. K., and McCormick, C. C. (1990) Iron‑induced metallothionein in chick liver: A rapid, route dependent effect independent of zinc status. J. Nutr. 120:1214‑1222.
7. Lu, J., Combs, G.F., and **Fleet, J.C.** (1990) Time‑course studies of pancreatic exocrine damage induced by excess dietary zinc in the chick. J. Nutr. 120:389‑397.
8. Clinton, S. K., **Fleet, J. C.,** Salomon, R. N., Loppnow, H., Clark, B. D., Cannon, J. A., Dinarello, C. A., Shaw, A., and Libby, P. (1991) Induction in vivo of interleukin‑1 gene expression in rabbit aortic tissue. Am. J. Pathol.138:1005‑1014.
9. **Fleet, J. C.,** Clinton, S. K., Salomon, R. N., Loppnow, H., and Libby, P. (1992) Atherogenic diets increase endotoxin‑stimulated cytokine gene expression in rabbit aortae. J. Nutr.122:294-305.
10. **Fleet, J.C.,** Turnbull, A.J., Bourcier, M., and Wood, R.J. (1993) Vitamin D and quinacrine sensitive zinc transport in the human intestinal cell-line, Caco-2. Am. J. Physiol. 264:G1037-1045.
11. **Fleet, J.C.** and Wood, R.J. (1994) Regulation of calbindin D-9k mRNA levels by 1,25 dihydroxyvitamin D3 in the human colonic carcinoma cell line, Caco-2. Arch. Biochem. Biophys. 308:171-174.
12. **Fleet, J.C.,** Bruns, M.E., Hock, J.M., and Wood, R.J. (1994) Growth hormone and parathyroid hormone stimulate intestinal calcium absorption in aged female rats. Endocrinology 134:1755-1760.
13. **Fleet, J.C.** and Hock, J.M. (1994) Identification of osteocalcin mRNA in non-osteoid tissue of rats and humans by RT-PCR. J. Bone Min. Res. 9:1565-1573.
14. Kim, Y., Christman, J.K., **Fleet, J.C.,** Cravo, M.L., Salomon, R.N., Smith, D., Ordovas, J., and Mason, J.B. (1995) Moderate folate deficiency does not cause either global or c-myc specific hypomethylation of hepatic and colonic DNA in rats. Am. J. Clin. Nutr. 61:1083-1090.
15. **Fleet, J.C.,** Wood, R.J., Harris, S., Dawson-Hughes, B. (1995) The Bsm-1 vitamin D receptor restriction fragment length polymorphism (BB) predicts low bone density in premenopausal black and white women. J. Bone Min. Res. 10:985-900.
16. **Fleet, J.C.,** Bradley, J., Reddy, G.S., and Wood, R.J. (1996) 1,25(OH)2 Vitamin D3 Analogs with minimal in vivo calcemic activity can stimulate significant transepithelial calcium transport and mRNA expression in vitro. Arch. Biochem. Biophys. 329:228-234.
17. **Fleet, J.C.,** Cashman, K., Cox, K., and Rosen, V. (1996) The effects of aging on the bone inductive activity of recombinant human bone morphogenetic protein-2. Endocrinology 137:4605-4610.
18. Wood, R.J., **Fleet, J.C.,** Cashman, K., Wilkening, C., and DeLuca, H.F. (1998) Intestinal calcium absorption in the aged rat: evidence of intestinal resistance to the action of 1,25 (OH)2 vitamin D. Endocrinology 139:3843-3848.

Han, O., **Fleet, J.C.,** Wood, R.J. (1999) Reciprocal regulation of HFE and Nramp2 gene expression by iron in human intestinal cells. J. Nutr. 129:98-104.

1. **Fleet, J.C.** and Wood, R.J. (1999) Specific 1,25 (OH)2 vitamin D3-mediated regulation of transcellular calcium transport in Caco-2 cells. Am. J. Physiol. 276:G958-G964.
2. Shao, A., Wood, R.J., and **Fleet, J.C.** (2001) Nuclear VDR level modulates calcitriol-mediated gene expression and calcium transport in Caco-2 cells. J. Bone Min. Res. 16:615-624.
3. Tibaduiza, E.C., **Fleet, J.C.,** Clagett-Dame, M., Krinsky, N.I., Russell, R.M. (2002) Excentric cleavage products of beta carotene inhibit estrogen receptor (ER) positive and ER negative breast tumor cell growth in vitro. J. Nutr. 132:1368-1375.
4. **Fleet, J.C.,** Eksir, F., Hance, K., and Wood, R.J. (2002) Vitamin D-inducible calcium transport and gene expression in three Caco-2 cell lines. Am. J. Physiol. 283:G618-G625.
5. Inagaki, K., Krall, E.A., **Fleet, J.C.,** Garcia, R.I. (2003) Vitamin D receptor alleles, periodontal disease progression and tooth loss in the VA dental longitudinal study. J. Periodontology 74:161-167.
6. Song, Y, Kato, S., and **Fleet, J.C.** (2003) Vitamin D receptor (VDR) knockout mice reveal VDR-independent regulation of intestinal calcium absorption, ECaC2, and calbindin D9k. J. Nutr. 133:374-380.
7. **Fleet, J.C.,** Wang, L.,Vitek, O., Craig, B.A., Edenberg, H.A., (2003) Gene Expression Profiling of Caco-2 BBe Cells Suggests a Role for Specific Signaling Pathways during Intestinal Differentiation. Physiologic Genomics 13:57-68.

Song, Y., Peng, X., Porta, A., Takanaga, H., Peng, J., Hediger, M., **Fleet, J.C.,** and Christakos, S. (2003) CaT1 and ECaC mRNA are differentially regulated by 1,25 dihydroxyvitamin D3 in intestine and kidney of mice. Endocrinology, 144:3885-94.

1. Ismail, A., Nguyen, CV, Ahene, A. **Fleet, J.C.,** Uskokovic, MR, and Peleg, S. (2004) Effect of cellular environment on the selective activation of the vitamin D receptor by 1,25-dihydroxyvitamin D3 and its analog Ro-26-9228. Mol. Endocrinology 18:874-87.
2. Campbell, W.W., **Fleet, J.C.,** Hall, R.T., Carnell, N.S. (2004) Short-term low protein intake does not increase serum parathyroid hormone concentration in humans. J. Nutr. 134:1900-4.

# Song, Y. and Fleet, J.C. (2004) Higher 1,25 dihydroxycholecalciferol-mediated gene expression and calcium absorption in female mice. J. Nutr. 134:1857-61

1. Wang, L., Klopot, A., Freund, J.N., Dowling, L.N., and Krasinski, S.D., and **Fleet, J.C.** (2004) Control of Differentiation-Induced Calbindin-D9k Gene Expression in Caco-2 Cells by Cdx-2 and HNF-1. Am. J. Physiol. 287:G943-953.
2. Taparia, S., **Fleet, J.C.,** Peng, J.B., Wang, X.D., Wood, R.J. (2006) 1,25-Dihydroxyvitamin D and 25-hydroxyvitamin D - mediated regulation of TRPV6 (a putative epithelial calcium channel) mRNA expression in Caco-2 cells. Eur. J. Nutr. 45:196-204.

### Klopot, A., Hance, K.W., Peleg, S., Barsony, J. and Fleet, J.C. (2007) Nucleo-cytoplasmic Cycling of the Vitamin D Receptor in the Enterocyte-like Cell Line, Caco-2. J. Cell. Biochem. 100:617-28.

# Song, Y. and Fleet, J.C.(2007) 1,25 Dihydroxyvitamin D-Mediated Intestinal Calcium Absorption is Blunted in Mice Heterozygous for the VDR Knockout Allele. Endocrinology. 148:1396-402.

1. Marks, H.D., **Fleet, J.C.,** Peleg, S. (2007) Transgenic expression of the human vitamin D receptor (hVDR) in duodenum of VDR-null mice attenuates age-dependent decline in calcium absorption. Proceedings of the 13th Workshop on Vitamin D. J. Steroid Biochem. Mol. Biol. 103:513-6.
2. Thalacker-Mercer, A.E., **Fleet, J.C.,** Craig, B.A., Carnell, N.S., Campbell, W.W. (2007) Inadequate protein intake affects muscle gene expression in older humans. Am. J. Clin. Nutr. 85:1344-52. (IF 7.744)
3. Zhao, Y., **Fleet, J.C.** Adamec, J., Terry, D.E., Zhang, X., Davisson, V.J., Weaver, C.M. (2007) Effects of Hindlimb Unloading and Bisphosphonates on the Serum Proteome of Rats. Bone 41:646-658. (IF 4.311)
4. Rowling, M.J., Gliniak, C., Welsh, J., **Fleet, J.C.** (2007) High dietary vitamin D can recover the bone phenotype of CYP27B1 null mice. J. Nutr. 137:2608-2615.
5. **Fleet, J.C.,** Gliniak, C., Zhang, Z., Xue, Y., Barzan, K., McCreedy, R., and Adedokun S.A. (2008) Serum metabolite profiles and target tissue gene expression define the impact of cholecalciferol intake on calcium metabolism in rats and mice. J. Nutr. 138:1114-1120.
6. Li, J., **Fleet, J.C.,** and Teegarden, D.T. (2009) Activation of rapid signaling pathways does not contribute to 1,25 dihydroxyvitamin D3-induced growth inhibition of mouse prostate epithelial progenitor cells. J. Cell Biochem. 107:1031-1036. (IF 3.285)
7. Cui, M., Klopot, A., Jiang, Y. and **Fleet, J.C.,** (2009) The impact of differentiation on 1,25 dihydroxyvitamin D-mediated gene expression in the enterocyte-like cell line, Caco-2. J. Cell Physiol. 218:113-21. (IF 4.165)
8. Cui, M., Zhao, Y., Hance, K.W., and **Fleet, J.C.** (2009) MAPK signaling enhances 1,25 dihydroxyvitamin D-mediated CYP24 gene expression in the enterocyte-like cell line, Caco-2. A differential role for Ets1 phosphorylation depending upon the state of differentiation. J. Cell Physiol. 219:132-142. (IF 4.165)
9. Xue, Y. and **Fleet, J.C.** (2009) Complete recovery of the VDR knockout phenotype by villin-directed expression of VDR in the intestine. Gastroenterology 136:317-327. (IF 12.432)
10. Ghoreishi, M., Bach, P., Obst, J., **Fleet, J.C.**, Dutz, J. (2009) Expansion of antigen-specific regulatory T cells with the topical vitamin D analogue calcipotriol. J. Immunology 182:6071-6078. (IF 5.847)
11. Zhang, M., Lin, Y., Wang, L., Pungpapong, V., **Fleet, J.C.** and Zhang, D., (2009) Case-Control Genome-Wide Association Study of Rheumatoid Arthritis from GAW16 Using POCRE-LDA. BMC Proceedings, 3 Suppl 7:S20-S23.
12. Lin, Y., Zhang, M., Wang, L., Pungpapong,V., **Fleet, J.C.** and Zhang, D., (2009) Simultaneous Genome-Wide Association Studies of Anti-CCP in Rheumatoid Arthritis Using Penalized Orthogonal-Components Regression. BMC Proceedings, 3 Suppl 7:S17-S19.
13. Kovalenko, P.L., Zhang, Z., Cui, M., Clinton, S.K., **Fleet, J.C.** (2009) 1,25 dihydroxyvitamin D-mediated orchestration of anticancer, transcript-level effects in the immortalized, non-transformed prostate epithelial cell line, RWPE1. BMC Genomics 11:26. (IF 4.179)
14. Saddoris, K., **Fleet, J.C.,** Radcliffe, J.S. (2010) Sodium-dependent phosphate uptake in the jejunum is post-transcriptionally regulated in pigs fed a low-P diet and is independent of dietary calcium concentration. J. Nutr. 140:731-736. (IF 4.543)
15. Zhang, Z., Kovalenko, P., **Fleet, J.C.** (2010) Constitutive Activation of the Mitogen-Activated Protein Kinase Pathway impairs vitamin D signaling in human prostate epithelial cells. J. Cell Physiology 224:433-442. (IF 4.165)
16. Xue, Y., Johnson, R., DeSmet, M., Snyder, P., **Fleet, J.C**., (2010) Generation of a Transgenic Mouse for Colorectal Cancer Research with Intestinal Cre-Expression Limited to the Large Intestine. Molecular Cancer Res. 8:1095-1104. (IF 4.544)
17. Yetley, E.A., Pfeiffer, C.M. et al., (**Fleet, J.C.**8th author on list of 22), (2010) NHANES monitoring of 25-hydroxyvitamin D- A roundtable summary. J. Nutr. 140:2030S-45S. (IF 4.543)
18. Verzi, M., Shin, H., He, H.H., Meyer, C.A., Montgomery, R.K., **Fleet, J.C.,** Brown, M.A., Liu, X.S., Shivdasani, R.A., (2010) Differentiation-specific epigenetic modifications reveal dynamic chromatin interactions and alternative partners for the intestinal master regulator. Developmental Cell 19:713-26. (IF 14.06)
19. Adamec, J. Hohman, E.E., **Fleet, J.C**., Peacock, M., Ferruzzi, M., Martin, B.R., and Weaver, C.M. (2010) Development and Optimization of a LC-MS/MS Based Method for Simultaneous Quantification of Vitamin D2, Vitamin D3, 25-hydroxyvitamin D2, and 25-hydroxyvitamin D3 Journal of Separation Science 34:11-20.(IF 2.55)
20. Thalacker-Mercer, A.E., **Fleet, J.C.**, Craig, B.A., and Campbell, W.W. (2010) The skeletal muscle transcript profile reflects accommodative responses to inadequate protein intake in younger and older males. J. Nutr. Biochem. 21:1076-82. (IF 4.56)
21. Achberger, T., **Fleet, J.C.,** Salt, D.E. and Doerge, R.W. (2011) Introduction to Selecting Subsets of Quantitative Traits for Quantitative Trait Loci Analysis. The Proceedings of the Kansas State University Conference on Applied Statistics in Agriculture. Manhattan, Kansas.
22. Beuling, E., Baffour-Awauah, N.Y.A., Stapleton, K.A., Noah, T.K., Shroyer, N.F., Duncan, S.A., Duncan, S.A., **Fleet, J.C.,** Krasinski, S.D. (2011) GATA factor regulate proliferation, differentiation, and gene expression in the mature mouse small intestine. Gastroenterology 140:1219-29. (IF 12.43)
23. Maund, S.L., Barclay, W.W., Hover, L.D., Axanova, L.S., Sui, G., Hipp, J.D., **Fleet, J.C.,** Thorburn, A., Cramer, S.D., (2011) Interleukin-1 alpha mediates the anti-proliferative effects of 1,25 dihydroxyvitamin D3 in prostate progenitor/stem cells. Cancer Research 71:5276-5286. (IF 7.54)
24. Kovalenko, P., Zhang, Z., Yu, J.G., Clinton, S.K., **Fleet, J.C.** (2011) Dietary vitamin D and vitamin D receptor level modulate epithelial cell proliferation and apoptosis in mouse prostate. Cancer Prevention Research 4:1617-1625 (IF 6.15)
25. Hohman, E.E., Martin, B.R., Lachick, P.J., Gordon, D.T., **Fleet, J.C**., Weaver, C.M. (2011) Bioavailability and efficacy of vitamin D2 from UV-irradiated yeast in growing, vitamin D-deficient rats. J. Agric. Food Chem. 59:2341-6. (IF 3.05)
26. Achberger, T., **Fleet, J.C.,** Salt, D.E. and Doerge, R.W. (2011) An Introduction to Sparse Canonical Correlation Analysis for Quantitative Multiple-Trait Loci Mapping. The Proceedings of the Kansas State University Conference on Applied Statistics in Agriculture. Manhattan, Kansas.
27. Farrow, E.G., Yu, X., Summers, L.J., Davis, S.I., **Fleet, J.C.,** Allen, M.R., Robling, A.G., Stayrook, K.R., Jideonwon, V., Magers, M.J., Garringer, H.J., Vidal, R., Chan, R.J., Goodwin, C.B., Hui, S., Peacock, M., White, K.E. (2011). Altered FGF23 proteolytic regulation causes late-onset hypophosphatemia during iron deficiency in an ADHR mouse model. Proc. Natl. Acad. Sci. USA 108:E1146-1155. (IF 9.77)
28. Jiang, Y. and **Fleet, J.C.** (2012) Effect of phorbol 12-myristate 13-acetate activated signaling pathways on 1α, 25 dihydroxyvitamin D3 (1,25(OH)2D3) regulated 25-hydroxyvitamin D3 24-hydroxylase (CYP24A1) gene expression in Caco-2 cells J. Cell. Biochem. 113:1599-1607. (IF 2.87)
29. Jiang, Y., Cui, M., and **Fleet, J.C.** (2012) Phorbol esters enhance 1α,25(OH)2D3-regulated 25-hydroxyvitamin D-24-hydroxylase (CYP24A1) gene expression through ERK-mediated phosphorylation of specific protein 3 (SP3) in Caco-2 cells. Mol. Cell Endocrinol. 361:31-39. (IF 4.19)
30. Yin, L. Unger, E.L., Jellen, L.C., Earley, C.J., Allen, R.P., Tomaszeqicz, A., **Fleet, J.C.**, Jones, B.C. (2012) Systems genetic analysis of multivariate response to iron deficiency in mice. Am. J. Physiol. 302:R1282-1296. (IF 3.34)
31. Sikervar, V., **Fleet, JC**, Fuchs, P.L., (2012) Fluoride-mediated elimination of allyl sulfones: application to the synthesis of a 2,4-dimethyl-A-ring vitamin D3 analog. J. Org. Chem. 77:5132-5138. (IF 4.02)
32. Sikervar, V., **Fleet, J.C.**, Fuchs, P.L. (2012) A general approach to the synthesis of an enantiopure 19-nor-Vitamin D3 and its C-2 phosphate analogs prepared from cyclohexadienyl sulfone. Chem Commun. 48:9077-9079. (IF 5.79)
33. Cui, M., Li, Q., Johnson, R. **Fleet, J.C.** (2012) Villin-promoter mediated transgenic of TRPV6 increases intestinal calcium absorption in wild-type and VDR knockout mice. J. Bone Min. Res. 27:2097-2107. (IF 6.37)
34. Kobza, V.M., **Fleet, J.C.**, Zhou, J., Conley, T.B., Peacock, M., Iglay-Reger, H.B., DePalma, G., Campbell, W.W. (2013) Vitamin D status and resistance exercise training independently affect glucose tolerance in older adults. Nutrition Res. 33:349-357 (IF 1.98)
35. Replogle, R.M, Li, Q., Wang, L., Zhang, M., and **Fleet, J.C.** (2014) Gene-by-diet interactions influence calcium absorption and bone density in mice. J. Bone Min. Res. 29:657-665. (IF 6.59)
36. Byun, A. Hung, K.E., **Fleet, J.C**., Bronson, R.T., Mason, J.B., Garcia, P.E., Crott, J.W. (2014) Colon-specific tumorigenesis in mice driven by Cre-mediated inactivation of APC and activation of mutant Kras. Cancer Letters 347:191-195. (IF 4.54)
37. Park, C.Y., Lee, W., **Fleet, J.C**., Allen, M.R., McCabe, G.P., Walsh, D.M, Weaver, C.M. (2014) Calcium and vitamin D intake independently affect calcium metabolism and bone properties in a model of transition through estrogen deficiency. Osteoporosis International. 25:1905-1915. (IF 4.04)
38. Venkatesh, M., Mukherjee, S., Wang, H., Benechet, A.P., Qiu, Z., Maher, L., Redinbo, M.R., Phillips, R.S., **Fleet, J.C.**, Kortagere, S., Mukherjee, P., Fasano, A., Dumas, M.E., Le Ven, J., Nicholson, J.K., Khanna, K.M., Mani, S. (2014) Symbiotic bacterial metabolites regulate GI barrier function via PXR and TLR4. Immunity. 41:296-310 (IF 20.72)
39. DeWitt, M., Johnson, R.L., Snyder, P., **Fleet, J.C.** (2015) The effect of 1,25 dihydroxyvitamin D3 treatment on the mRNA levels of -catenin target genes in mice with colonic inactivation of both APC alleles. J. Steroid Biochem. Mol. Biol. 148:103-110. (IF 3.282)
40. Reyes-Fernandez, P., **Fleet, J.C.** (2015) Luminal glucose does not enhance active intestinal calcium absorption in mice: Evidence against a role for Cav1.3 as a mediator of calcium uptake during absorption. Nutrition Res. 35:1009-1015 (IF 2.62)
41. Wright, C., Weinheimer, E., **Fleet, J.C.**, Peacock, M., and Campbell, W.W. (2015) The apparent relationship between plasma 25-hydroxyvitamin D and insulin resistance is largely attributable to central adiposity in overweight and obese adults. J. Nutr. 145:2683-2689 (IF 3.9)
42. Reyes-Fernandez, P., **Fleet, J.C.** (2016) Compensatory changes in calcium metabolism accompany the loss of vitamin D receptor (VDR) from the distal intestine and kidney of mice. J. Bone Min. Res. 31:143-151 (IF 6.28)
43. **Fleet, J.C**., Replogle, R.A., Reyes-Fernandez, P., Wang, L., Zhang, M., Clinkenbeard, E.L., White, K.E. (2016) Gene-by-diet interactions affect serum 1,25 dihydroxyvitamin D levels in male BXD recombinant inbred mice. Endocrinology 157:470-481 (IF 4.503)
44. Wang, F. Johnson, R.L., Snyder, P.W., DeSmet, M.L., **Fleet, J.C.** (2016) An inducible large-intestine-specific transgenic mouse model for colitis and colitis-induced colon cancer research. Digestive Diseases and Sciences 61:1069-79 PMID: 26631394 (IF 2.613) *Figure 6 used on issue cover.*
45. Reyes-Fernandez, P.C., Replogle, R.A., Wang, L., Zhang, M., **Fleet, J.C.** (2016) Novel genetic loci control calcium absorption and femur bone mass as well as their response to low calcium intake in BXD recombinant inbred mice. J. Bone Min. Res. 31:994-1002 (IF 6.28)
46. Chun, H., Lee, M.H., **Fleet, J.C.,** Oh, J.H. (2016) Graphical models via joint quantile regression with component selection. J. Multivariate Analysis 152:162-171 (IF 1.11)
47. Wang, F, Johnson, R.L., DeSmet, M.L., Snyder, P.W., Fairfax, K. **Fleet, J.C.** (2017) Vitamin D Receptor-Dependent Signaling Protects Mice from Dextran Sulfate Sodium-Induced Colitis. Endocrinology 158:1951-63 PMID: 28368514 (IF 4.16).
48. DeSmet, M.L., **Fleet, J.C.** (2017) Constitutively active RAS signaling reduces 1,25 dihydroxyvitamin D-mediated gene transcription in intestinal epithelial cells by reducing vitamin D receptor expression. J. Steroid Biochem. Mol. Biol. 173:194-201 (IF 4.095)
49. Hewison, M., **Fleet, J.C.**, Demay, M.B., Christakos, S., Bouillon, R., Welsh, J., White, J.H. (2018) Highlights from the 20th Workshop on Vitamin D in Orlando, Mar. 28-21, 2017. J. Steroid Biochem Mol. Biol. 177:1-5. (IF: 4.292)
50. Chen, Y., Calvert, R.D., Azad, A., Rajwa, B., **Fleet, J.C.**, Ratliff, T.L., and Pothen, A. (2018) Phenotyping Immune Cells in Tumor and Healthy Tissue Using Flow Cytometry Data. 2018 ACM Bioinformatics and Computational Biology Conference proceedings. Washington, DC
51. Jahn, D., Dorbath, D., Schilling, A.K, Gildein, L., Schmitt, J., Kraus, D. **Fleet, J.C.,** Hermanns, H.H., Geier, A. (2019) Intestinal Vitamin D Receptor Modulates Lipid Metabolism, Adipose Tissue Inflammation and Liver Steatosis in Obese Mice. BBA-Molecular Basis of Disease 1865:1567-1578. (IF: 5.187)
52. **Fleet, J.C.**, Kovalenko, P., Li, Y., Smolinski, J., Spees, C.K., Yu, J., Thomas-Ahner, J.M., Cui, M., Neme, A., Carlberg, C., Clinton, S.K. (2019) Vitamin D Signaling Suppresses Early Prostate Carcinogenesis in TgAPT121 Mice. Cancer Prevention Research 12:343-356. PMID: 31028080 *(Image from paper used for the cover)* (IF: 3.286)
53. Chanpaisaeng, K., Reyes Fernandez, P.C., and **Fleet, J.C.** (2019) Dietary Calcium Intake and Genetics have Site-specific Effects on Peak Trabecular Bone Mass and Microarchitecture in Male Mice. Bone 125:46-53. PMID: 31078711 (IF: 4.05)
54. **Fleet, J.C.,** Campbell, MJ, Carlberg, C. Demay, M.B.,Ebeling, P.R., Schoenmakers, I., White, J.H., Welsh, J., Hewison, M., (2019) Highlights from the 21st Workshop on Vitamin D in Barcelona, Spain, May 2018. J. Steroid Biochem Mol. Biol. 189:210-217. (IF: 4.292)
55. Sadoris, K., **Fleet, J.C.,** Radcliff, J.S. (2019) The effect of dietary vitamin D supplementation on sodium-dependent phosphate uptake and expression of NaPi-IIb in the small intestine of weanling pigs. J. Animal Sci. 99:skz106 PMID: 30950492. (IF: 3.159)
56. **Fleet, J.C.**, Burcham, G.N., Calvert, R.D., Ratliff, T.L. (2019) 1, 25 dihydroxyvitamin D (1,25(OH)2D) inhibits the T cell suppressive function of myeloid derived suppressor cells (MDSC). Journal of Steroid Biochemistry and Molecular Biology 198:105557 PMID: 31783150. (IF: 4.292)
57. Jiang, H., Horst, R., Koszewski, N., Goff, J., Christakos, S., **Fleet, J.C.** (2020) 1,25(OH)2D-mediated calcium absorption at the proximal colon: targeted gene upregulation by glycoside/glucuronide calcitriol. Journal of Steroid Biochemistry and Molecular Biology 198:105574. PMID 31881310. (IF: 4.292)
58. **Fleet, J.C.**, Reyes-Fernandez, P.C. (2020) Intestinal responses to 1,25 dihydroxyvitamin D are not improved by higher intestinal VDR resulting from transgenic expression of VDR in the whole intestine or distal intestine. Journal of Steroid Biochemistry and Molecular Biology 200:105670 PMID: 32283207 (IF: 4.292)
59. Mandell, E., Ryan, S., Seedorf, G.J., Abman, S.H., and **Fleet, J.C.** (2020) Maternal Vitamin D Deficiency Induces Transcriptomic Changes in Newborn Rat Lungs. Journal of Steroid Biochemistry and Molecular Biology 199:105613. PMID: **32007564** (IF:4.272)
60. Mandell, E.W., Ryan, S., Seedorf, G., Gonzalez, T., **Fleet, J.C.**, Abman, S.H. (2020) Fetal Vitamin D Deficiency Impairs Lung Structure and Increases Susceptibility to Hyperoxia. American Journal of Respiratory Cell and Molecular Biology 63:79-91. PMID:32135073 (IF:3.41)
61. Li, S., De La Cruz, J., Hutchens, S., Mukopadhyay, S., Criss, Z.K., Aita, R., Pellon-Cardenas, O., Hur, J., Soteropoulos, P., Husain, S., Dhawan, P., Verlinden, L., Carmeliet, G., **Fleet, J.C.**, Shroyer, N.F., Verzi, M.P., Christakos, S. (2020) Analysis of 1,25-dihydroxyvitamin D3 genomic action reveals calcium regulating and calcium independent effects in mouse intestine and human enteroids. Mol. Cell. Biol. 41:e00372-20. PMID: 33139494. (IF:4.138)
62. **Fleet, J.C.,** Bernal-Mizrachi C, Hewison M, Jorde R, White J, Cantorna M, Schoenmakers I, Erben R., (2020) Highlights from the 22nd Workshop on Vitamin D in New York City, May 2019. J. Steroid Biochem Mol. Biol. 203:105747. PMID: 32858157 (IF: 4.292)
63. Criss, Z.K., Bhasin, N., DiRienzi, S.C., Rajan, A., Deans-Fielder, K., Swaminathan, G., Kamyabi, N., Zeng, X-L., Chakrivarti, D., Estrella, C., Yu, X., Patil, K., **Fleet, J.C.**, Verzi, M.P., Christakos, S., Helmrath, M.A., Arimura, S., DePinho, R.A., Britton, R., Maresso, A., Grande-Allen, J., Blutt, S.E., Crawford, S.E., Estes, M.K., Ramani, S., Shroyer, N.F. (2021) Drivers of transcriptional variance in human intestinal epithelial organoids. Physiologic Genomics 53:486-508. PMID: 34612061 (IF: 3.107)
64. **Fleet, J.C.**, Aldea, D., Chen, L., Christakos, S., Verzi, M. (2022) Regulatory domains controlling high intestinal vitamin D receptor (VDR) gene expression are conserved in mouse and human. J. Biol. Chem. 298:101616. PMID: 35065959 (IF: 5.16)
65. Aita, R., Aldea, D., Hassan, S., Hur, J., Pallon-Cardenas, O., Cohen, E., Chen, L., Shroyer, N., Christakos, S., Verzi, M., **Fleet, J.C.** (2022) Spatial differences in vitamin D mediated gene regulation across the mouse intestinal tract. J. Biol. Chem. 298:102213 PMID: 35779631 (IF: 5.16)
66. Chanpaisaeng, K., Reyes-Fernandez, P., **Fleet, J.C.** (2022) Diet x Gene Interactions Control Femoral Bone Adaptation to Low Dietary Calcium. JBMR Plus 6:e10668 PMID: 36111202
67. Calvert, R.D., **Fleet, J.C.**, Fournier, P.G.J., Juarez, P., Guise T.A., Ratliff, T.L., Elzey, B.D. (2022) Monocytic Myeloid Derived Suppressor Cells from Tumor have Limited Plasticity. ImmunoHorizons 6:790-806.PMID: 36480485
68. Jiang, H., Christakos, S., Fleet, J.C. (2023) Intestinal Vitamin D Receptor in Adult Mice is Essential to Maintain Bone Mass When Calcium Intake is Low but Dispensable When Calcium Intake is Adequate. Endocrinology 164(5):bqad051, PMID: 26960562
69. Ucer-Ozgurel, S., Chanpaisaeng, K., Reyes Fernandez, P.C., and **Fleet, J.C.** (2022) Male LRP5 A214V Mice with High Bone Mass have an Altered Physiologic Response to Dietary Calcium Restriction. Journal of Bone and Mineral Research (In preparation)
70. Chanpaisaeng, K., Mace, S. Reyes-Fernandez, P., Dilkes, B., **Fleet, J.C.** (2022) Novel Genetic Loci Control L5 Vertebral Trabecular Bone and the Response to Low Calcium Intake in Growing BXD Recombinant Inbred Mice. Bone (In preparation)
71. Criss, Z., Deans-Fielder, K., **Fleet, J.C**., Verzi, M.P., Christakos, S., and Shroyer, N. (2022) Differential effects of 1,25 dihydroxyvitamin D on the transcriptome of differentiated and undifferentiated organoids from human small intestine and colon. Physiologic Genomics (In preparation)

**[Book Chapters, Commentaries, and Reviews, 57]**

1. **Fleet, J.C.**, (1991) Non-genomic effects of vitamin D. Nutr. Rev. 49:306-308.
2. Libby, P., Loppnow, H., **Fleet, J.C.,** Palmer, H., Li, H.M., Warner, S.J.C., Salomon, R., Clinton, S.K. (1991) Production of cytokines by vascular wall cells: An update and implications for atherogenesis. In: Atherosclerosis: Cellular and Molecular Interactions in the Artery Wall. A.I. Gotlieb, B. L. Langille, S. Fedoroff, Springer US. Pp 161-169.
3. Libby P., **Fleet J.C.**, Salomon R.N., Li H., Loppnow H., Clinton S.K.. (1992) Possible roles of cytokines in atherogenesis. Stein O, Eisenberg S, Stein Y, editors. Atherosclerosis. pp 339-350.
4. **Fleet, J.C.** (1992) Use of gene therapy to correct elevated LDL levels in LDL-receptor deficient rabbits. Nutr. Rev. 50:171-173.
5. **Fleet, J.C.** (1992) Supplemental dietary potassium reduced the need for antihypertensive drug therapy. Nutr. Rev. 50:144-145.
6. **Fleet, J.C.** (1992) Maximizing peak bone mass: Calcium supplementation increases bone mineral density in children. Nutr. Rev. 50:335-337.
7. **Fleet, J.C.** (1992) Iron overload in sub-saharan Africa involves a genetic component. Nutr. Rev. 50:238-239.
8. **Fleet, J.C.** (1993) Supplementation with vitamin D3 and calcium prevents hip fractures in elderly women. Nutr. Rev. 51:183-185.
9. **Fleet, J.C.** (1993) Mutations in the copper- and zinc-containing superoxide dismutase gene are associated with Lou Gehrig's Disease Nutr. Rev. 51:243-245.
10. **Fleet, J.C.** (1993) Low-copper diets increase aortic lipid peroxides in rats. Nutr. Rev. 51:88-89.
11. **Fleet, J.C.** (1994) New support for a folk remedy: Cranberry juice reduces bacteriuria and pyuria in elderly women. Nutr. Rev. 52:168-170.
12. **Fleet, J.C.** (1994) Extended lactation and loss of bone. Nutr. Rev. 52:26-28.
13. **Fleet, J.C.** (1995) Opinion: Young researchers' disillusionment bodes ill for future of science. The Scientist May 29, p 11.
14. **Fleet, J.C.** (1995) Letter to the Editor: Naked Emperors? J. NIH Res. 7:14.
15. **Fleet, J.C.** (1995) Are low-sodium diets appropriate for treated hypertensive men? Nutr. Rev. 53:296-298.
16. **Fleet, J.C.** (1995) A new role for lactoferrin: DNA binding and transcriptional activation. Nutr. Rev. 53:226-227.
17. **Fleet, J.C.** (1996) Discovery of the hemochromatosis gene will require rethinking the regulation of iron metabolism. Nutr. Rev. 54:285-292.
18. **Fleet, J.C.** (1996) Bone lead as a risk factor for hypertension in men. Nutr. Rev. 54:180-182.
19. **Fleet, J.C.** (1997) Dietary selenium supplementation reduces the risk of cancer in people from low selenium regions in the US. Nutr. Rev. 55:277-279 Wood, R.J., and Fleet, J.C. (1998) The genetics of osteoporosis: Vitamin D Receptor polymorphisms. Annu. Rev. Nutr. 18:23-58.
20. **Fleet, J.C.** (1998) Another piece to the puzzle of intestinal iron absorption: Identification of Nramp2 as an iron transport protein. Nutr. Rev. 56:88-90.
21. **Fleet, J.C.** (1999) Zinc, copper, and manganese. In: Biochemical and Physiological Aspects of Human Nutrition. M. Stipanuk ed. W.B. Saunders Co., pp. 741-761.
22. **Fleet, J.C.** (1999) Vitamin D receptors: Not just in the nucleus anymore. Nutr. Rev. 57:60-62.
23. **Fleet, J.C.** (2000) Leptin and bone: Is bone biology controlled by the brain? Nutr. Rev. 58:209-211.
24. **Fleet, J.C.** and Cashman, K. (2001) Magnesium. In: Present Knowledge in Nutrition. R. Russell and B. Bowman eds. International Life Sciences Institute, pp. 292-301.
25. **Fleet, J.C.** (2001) How well you absorb calcium is important for limiting hip fracture risk. Nutr. Rev. 59: 338-341.
26. **Fleet, J.C.** (2001) DASH without the dash (of salt) can lower blood pressure. Nutr. Rev. 59:291-293.
27. Weaver, C.M., and **Fleet, J.C.** (2004) Vitamin D requirements: current and future. Am. J. Clin. Nutr. 80:1735S-1739S.
28. **Fleet, J.C.**, Hong, J., and Zhang, Z. (2004) Reshaping the way we view vitamin D signaling and the role of vitamin D in health. Nutrition Research Reviews 17:241-248.
29. **Fleet, J.C.** (2004) Rapid, membrane-initiated actions of 1,25 dihydroxyvitamin D: What are they and what do they do? J. Nutr. 134:3215-3218. (Model of action image used for cover)
30. **Fleet, J.C.** (2004) Genomic approaches to understand vitamin D action. In Nutrition and Genomics, N. Moustaid ed. Marcell-Dekker, Inc. pp 237-256.
31. **Fleet, J.C.** (2004) Genomic and proteomic approaches for probing the role of vitamin D in health. Am. J. Clin. Nutr. 80:1730S-1734S.
32. **Fleet, J.C.** (2006) Molecular regulation of calcium metabolism. In Calcium in Human Health, Humana Press, C. Weaver, and R. Heaney editors, Chpt 11, pp 163-190.
33. **Fleet, J.C.** (2006) Molecular regulation of calcium and bone metabolism through the vitamin D receptor. J Musculoskelet Neuronal Interact. 6:336-7.
34. **Fleet, J.C.** (2006) Dairy consumption and the prevention of colon cancer: is there more to the story than calcium? Am J Clin Nutr. 83(3):527-8.
35. **Fleet, J.C.** (2007) What have genomic and proteomic approaches told us about vitamin D and cancer? Nutr. Rev. 65:S127-130.
36. **Fleet, J.C.** (2007) Using genomics to understand intestinal biology. J. Physiol. Biochem. 63:83-96.
37. **Fleet, J.C.** (2007) Renal cell cancer and nuclear receptor levels--biomarkers or functionally relevant? J. Urol. 2007 178:1144-5.
38. **Fleet, J.C.** (2008) Molecular Actions of Vitamin D relevant to Cancer prevention. Molecular Aspects of Medicine 29(6):388-96. (IF 6.492)
39. McCreedy, R.A. and **Fleet, J.C.** (2009) Forward genetics used to identify new gene Mon1a with critical role in controlling macrophage iron metabolism and iron recycling from erythrocytes. Nutr. Rev.67:607-610.
40. **Fleet, J.C.** Schoch, R (2010) Regulation of calcium absorption by vitamin D and other hormones. Critical Reviews in Clinical Laboratory Sciences. 47:181-195. (IF 5.154)
41. **Fleet, J.C.** (2010) Vitamin D and Cancer. In “Bioactive Compounds and Cancer” J. Milner and D. Romognolo Eds. Human Press. pp 357-386.
42. **Fleet, J.C.,** Replogle, R., Salt, D.E. (2011) Systems Genetics of Mineral Metabolism. J. Nutr. 141:520-525. (IF 4.543)
43. **Fleet, J.C.** Schoch, R (2011) Regulation of calcium and phosphorus absorption by vitamin D. In Vitamin D, Third Edition, D. Feldman and J.W. Pike Eds. Chpt 19 pp 349-362.
44. Brannon, P., **Fleet, J.C.** (2011) Vitamin D. Advances in Nutrition 2:365-367.
45. **Fleet, J.C.,** DeSmet, M., Johnson, R., Li, Y. (2012) Vitamin D and Cancer: A review of molecular mechanisms. Biochemical Journal 441:61-76 (IF 17.902 for review series)
46. **Fleet, J.C**. (2012) Systems biology and Nutrition. Present Knowledge in Nutrition J. W. Erdman, I.A. Macdonald, S. Zeisel Eds. Wiley-Blackwell, Ames, IA Chapter 1, pp 1-13.
47. Johnson, R.L., **Fleet, J.C.** (2013) Animal models of colorectal cancer. Cancer Metastasis Rev. 32:39-61. (IF 10.57)
48. **Fleet, J.C.** (2014) New Mouse Models for Studying Dietary Prevention of Colorectal Cancer. Am. J. Physiol. 307:G249-G259. (IF 3.62)
49. **Fleet, J.C.,** Peacock M. (2015) Chapter 2: Vitamin D, Calcium, and Phosphate Absorption. In The Physiological Basis of Metabolic Bone Disease. Editors: Morris HA, Anderson PH, Nordin BEC., CRC Press, Boca Raton pp 14-40
50. **Fleet, J.C.** (2017) The role of vitamin D in the endocrinology controlling calcium homeostasis. Mol. Cell. Endocrinol. 453:36-45 (IF 3.859)
51. **Fleet, J.C.** (2018) Regulation of calcium and phosphorus absorption by vitamin D. In: Vitamin D, Fourth Edition, D. Feldman and J.W. Pike Eds. Chpt 20, Elsevier
52. Atkinson, S., **Fleet, J.C.** (2020) Canadian Recommendations for Vitamin D Intake for Persons Affected by Multiple Sclerosis. J. Steroid Biochem. Mol. Biol. 199:105606. PMID 31981800
53. Christakos, S., Li, S., Shroyer, N., Criss, Z., De La Cruz, J., **Fleet, J.C**., Verzi, M. (2020) Vitamin D and the Intestine: Review and Update. J. Steroid Biochem. Mol. Biol. 196:105501 PMID:31655181
54. **Fleet, J.C**., Shapses, S. (2020) Chapter 6, Vitamin D, In: Present Knowledge in Nutrition, 11th edition, B. Marriot, D. Birt, V. Stallings, A. Yates Eds. Academic Press, pp 93-114
55. **Fleet, J.C.** (2022) Vitamin D and Gut Health, In: Nuclear hormone receptors in human health and disease. Adv Exp Med Biol. 1390:155-167. PMID: 36107318
56. **Fleet, J.C.** (2022) Vitamin D and Intestinal Calcium Absorption. Nutrients 14:3351 PMID: 36014856
57. **Fleet, J.C**., Christakos, S., Jiang, H.(2023) Regulation of calcium and phosphorus absorption by vitamin D. In: Vitamin D, Fifth Edition, M. Hewison Ed. Chpt 20, Elsevier (In press)

**[Session and Poster Presentations at National and International Meetings, 188]**

1. **Fleet, J.C.** and Saylor, W.W. (1983). Interaction of dietary electrolytes and coccidiostats in broiler chickens. Poultry Sci. 62:1422.
2. **Fleet, J.C.** and Saylor, W.W. (1984). Response of Monensin‑fed broilers to supplemental dietary potassium. Poultry Sci. 63(Suppl.):101.
3. **Fleet, J.C.** and McCormick, C.C. (1986). Tissue‑specific accumulation of metallothionein as influenced by route of zinc administration. Fed. Proc. 45:1084.
4. Lin, L‑Y., **Fleet, J.C.** and McCormick, C.C. (1986). The effect of zinc depletion in the chick on the accumulation of parenterally administered cadmium and copper. Poultry Sci. 65(Suppl.):80.
5. **Fleet, J.C.** and McCormick, C.C. (1987). The effect of development and supplemental zinc on hepatic chick embryo metallothionein. Fed. Proc. 46:595.
6. **Fleet, J.C.**, Andrews, G. K. and McCormick, C. C.(1988). Similarities in the route dependent induction of chick hepatic metallothionein by copper, zinc, and iron. FASEB J. 2:A634.
7. Lu, J., Combs, G.F. and **Fleet, J.C.** (1988). The kinetic response pattern of chick pancreas to excess dietary zinc. FASEB J. 2:A865.
8. McCormick, C.C., Golemboski, K.A., **Fleet, J.C.** and Dietert, R.R. (1988). Parenteral iron and hepatic metallothionein induction: Characteristics of an associated inflammatory response. FASEB J. 2:A865.
9. McCormick, C. C. and Fleet, J. C. (1989) Induction of hepatic metallothionein by iron and LPS: Evidence that protein synthesis is not prerequisite. FASEB J. 3:A650.
10. Fleet, J. C., Clinton, S. K., Salomon, R. N., Loppnow, H., and Libby, P. (1990) Atherogenic diets increase endotoxin‑stimulated cytokine gene expression in rabbit aortae. FASEB J. 4:A1156.
11. Turnbull, A.J., Fleet, J. C., and Wood, R. J. (1990) Zinc transport and induction of metallothionein mRNA in the adenocarcinoma cell line, Caco2. FASEB J. 4:A395.
12. Ronnenberg, A., Wood, R. J., **Fleet, J.C.** and Prior, R.L. (1991) In vivo administration of 1,25 dihydroxyvitamin D inhibits T‑lymphocyte proliferation in aged rats. FASEB J. 5:A1292.
13. Wood, R.J., Hock, J., Wilkening, C., **Fleet, J.C.**, and Bruns, M.E. (1991) Growth hormone increases intestinal calbindin‑9k in aged rats. FASEB J. 5:A1642.
14. **Fleet, J.C.**, Bourcier, M., Turnbull, A.J., and Wood, R.J. (1991) Stimulation of zinc transport in Caco2 cells by 1,25(OH)2 vitamin D3. FASEB J. 5:A940.
15. **Fleet, J.C.**, and Hock, J.M. (1992) Identification of osteocalcin mRNA in non‑osteoid tissues using RT‑PCR. FASEB J. 6:A1943.
16. Wood, R.J., **Fleet, J.C.**, and Tynan, T.L. (1992) IGF‑1 enhances 1,25(OH)2 vitamin D3‑stimulated transepithelial calcium transport in Caco2 cells. FASEB J. 6:A1955.
17. **Fleet, J.C.**, and Hock, J.M. (1992) Regulation of osteocalcin mRNA Levels by 1,25 (OH)2 vitamin D3 in bone and intestine. J. Bone Min. Res. 7:S254.
18. **Fleet, J.C.**, Quinn, K.E., and Wood, R.J. (1993) 1,25 (OH)2 vitamin D3-inducible calbindin D-9k mRNA in the human colonic carcinoma cell line, Caco-2. FASEB J. 7:A67.
19. Quinn, K.E., **Fleet, J.C.**, and Wood, R.J. (1993) Calcium transport favors net mucosal to serosal movement in Caco-2 cells. FASEB J. 7:A497.
20. **Fleet, J.C.**, Bronson, R., Cox, K., and Rosen, V. (1994) Aging reduces bone morphogenetic-2 induced ectopic bone formation in rats. J. Bone Min. Res. 9:S376.
21. Wood, R.J., Reddy, G.S., and **Fleet, J.C.** (1994) Caco-2 cells: A human intestinal cell line for studying the biologic activity of vitamin D analogs. Ninth Workshop on Vitamin D, Orlando FL.
22. Quinn, K.E., **Fleet, J.C.**, and Wood, R.J. (1994) 1,25 dihydroxyvitamin D3 regulation of lysosomal calcium transport in the human colonic cell line, Caco-2. Ninth Workshop on Vitamin D, Orlando FL.
23. **Fleet, J.C.**, Bradley, J., Reddy, G.S., and Wood, R.J. (1995) Effect of A-Ring diastereomers of 1 alpha, 25-dihydroxyvitamin D3 on calcium transport in Caco-2 cells. FASEB J. 9:A168
24. **Fleet, J.C.**, Shao, A., Bradley, J., and Wood, R.J. (1995) Retinoic acid enhances transepithelial calcium transport across monolayers of the human intestinal cell line, Caco-2. J. Bone Min. Res. 10:S287.
25. Whiting, S.J., **Fleet, J.C.**, and Wood, R.J. (1996) Calcium inhibits transcellular iron transport in Caco-2 cells by reducing iron uptake. FASEB J. 10:A291.
26. **Fleet, J.C.**, Han, O., and Wood, R.J. (1997) Further characterization of the 2 microglobulin knockout mouse shows it is a model for human hemochromatosis. FASEB J. 11:2573.
27. Han, O., **Fleet, J.C.**, and Wood, R.J. (1997) The hemochromatosis gene HLA-H is regulated by iron treatment in Caco-2 cells. FASEB J. 11:2573.
28. **Fleet, J.C.**, Bradley, J., and Wood, R.J. (1997) Phorbol ester has differential effects on calbindin D9k mRNA levels, 24-hydroxylase mRNA levels, and transcellular calcium transport in Caco-2 cells depending upon the treatment protocol. Tenth Workshop on Vitamin D.
29. Wood, R.J., **Fleet, J.C.**, Bradley, J., Viera, N.E., and Yergey, A.L. (1997) Vitamin D receptor genotype and Ca metabolism in premenopausal women fed a low calcium diet. Tenth Workshop on Vitamin D.
30. Shao, A., Wood, R.J., and **Fleet, J.C.** (1998) Regulation of 24-hydroxylase by 1,25 (OH)2 vitamin D3 and its relation to calcium transport in Caco-2 cells. FASEB J. 12:A1019.
31. **Fleet, J.C.**, Bradley, J., and Wood, R.J. (1998) Further support for specific regulation of calcium transport by 1,25 (OH)2 vitamin D3 in Caco-2 cells. FASEB J. 12:A1020.
32. Tibaduiza, E.C., **Fleet, J.C.**, Krinsky, N.I., and Russell, R.M. (1998) Beta-apo-carotenoic acids inhibit proliferation of estrogen receptor (ER) positive and ER negative breast tumor cell lines. FASEB J. 12:A813.
33. Han, O., **Fleet, J.C.**, and Wood, R.J. (1998) Reciprocal regulation of HFE and Nramp2 gene expression by iron in human intestinal cells. FASEB J. 12:A820.
34. Shao, A., Wood, R.J., and **Fleet, J.C.** (1998) Moderate elevations in nuclear vitamin D receptor levels enhance 1,25 (OH)2 vitamin D3-induced 24-hydroxylase gene expression in Caco-2 cells. Bone 23:S258.
35. Wang, L. and **Fleet, J.C.** (1999) Sequence and regulation of the mouse calbindin D9k gene. FASEB J. 13:A209.
36. Shao, A., Wood, R.J., and **Fleet, J.C.** (1999) Nuclear vitamin D receptor level modulates calcitriol-mediated 24-hydroxylase gene expression in Caco-2 cells. FASEB J. 13:A209.
37. Hance, K., Wood, R.J., and **Fleet, J.C.** (1999) Interactions between genomic and non-genomic actions of calcitriol in Caco-2 cells. FASEB J. 13:A209.
38. **Fleet, J.C.**, and Wang, L. (1999) Mouse intestinal calbindin D9k: Genomic sequence and regulation. FASEB J. 13:A210.
39. Wood, R.J., **Fleet, J.C.**, Yergey, A.L., Vieira, N., and Bradley, J. (1999) Vitamin D receptor genotype and bone turnover in premenopausal women. FASEB J. 13:A869.
40. Tibaduiza, E.C., **Fleet, J.C.**, Clagett-Dame, M., Krinsky, N.I., and Russell, R.M. (1999) Mechanisms of growth inhibition induced by -apo-carotenoic acids in MCF-7 and Hs578T breast tumor cell lines. FASEB J. 13:A916.
41. **Fleet, J.C.**, Klopot, A., Wang, L., Freund, J.N. (1999) The regulation of calbindin D9k and VDR by differentiation and cdx-2 in Caco-2 cells. FASEB Summer Conference on the Gastrointestinal Tract, July 25-30, 1999.
42. Shao, A., Wood, R.J., and **Fleet, J.C.** (2000) Increased VDR level and inhibition of calcitriol catabolism enhance vitamin-D mediated calcium transport and gene expression. FASEB J. 14: A562.
43. Wang, L., Klopot, A., Freund, J., and **Fleet, J.C.** (2000) Regulation of calbindin D9k gene expression in intestine by cellular differentiation. FASEB J. 14: A562.
44. Song, Y., Kato, S., and **Fleet, J.C.** (2000) Examination of intestinal calcium absorption in vitamin D receptor knockout mice: role of calbindin D9k and VDR level. FASEB J. 14: A562.
45. Hance, K.W., Nemere, I., and **Fleet, J.C.** (2000) Is nuclear vitamin D receptor function modulated by protein kinase C mediated phosphorylation? FASEB J. 14: A207. *(ASN Graduate Student Competition Finalist)*
46. Song, Y., Kato, S., and **Fleet, J.C.** (2000) Calbindin D9k protein level and intestinal calcium absorption in vitamin D receptor knockout mice. 11th Workshop of Vitamin D, Nashville, TN.
47. Hance, K.W., Nemere, I., and **Fleet, J.C.** (2000) Cross-talk between non-genomic actions of calcitriol and nuclear vitamin D receptor function. 11th Workshop of Vitamin D, Nashville, TN.
48. Shao, A., Wood, R.J., and **Fleet, J.C.** (2000) Vitamin D receptor level determines cellular response to calcitriol in Caco-2 cells. 11th Workshop of Vitamin D, Nashville, TN.
49. Wang, L., Klopot, A., Freund, J., and **Fleet, J.C.** (2000) Regulation of calbindin D9k gene expression in Caco-2 cells by cellular differentiation. 11th Workshop of Vitamin D, Nashville, TN.
50. Wang, L., Klopot, A., Freund, J.N., and **Fleet, J.C.** (2001) Regulation of Calbindin D9k Gene Expression by Intestinal Cell Differentiation. Gastroenterology 122S:T1033.
51. Eksir, F., and **Fleet, J.C.** (2001) Characterization of vitamin-D mediated events in three Caco-2 cell lines suggests differences in their suitability as models for calcium transport studies. FASEB J. 15:A976.
52. Foster, R.C., Raiford, R., **Fleet, J.C.**, Krall, E., Henrich, V.C. (2001) Identification of a new single nucleotide and a new microsatellite polymorphism in the human vitamin D receptor gene. J. Bone Min. Res. 16:S356.
53. Hance, K., **Fleet, J.C.** (2001) Calcitriol-induced 24-hydroxylase and hCat1 gene expression is dependent upon cross-talk between genomic and membrane-initiated events in Caco-2 cells. J. Bone Min. Res. 16:S554. *(ASN Graduate Student Competition Finalist)*
54. **Fleet, J.C.**, Eksir, F., Wood, R.C. (2001) Differences in vitamin D-mediated gene expression and calcium transport between three Caco-2 cell lines. J. Bone Min. Res. 16:S553.
55. Song, Y., Kato, S., **Fleet, J.C.** (2001) Calcium absorption is only partially disrupted in vitamin D receptor knockout mice. J. Bone Min. Res. 16:S553.
56. Wang, L., Klopot, A., Freund, J.N., **Fleet, J.C.**, (2002) Regulation of Calbindin D9k gene expression by intestinal cell differentiation. FASEB Summer Conference on Molecular Mechanisms of Regulation by Dietary Constituents, Saxtons River, VT.
57. Song, Y. and **Fleet, J.C.** (2002) Regulation of CaT1 and ECaC1 mRNA levels by calcitriol in the duodenum and kidney of mice. J. Bone Min. Res. 17:S495.
58. Klopot, A, Hance, K., Barsony, J., and **Fleet, J.C.** (2002) The effect of differentiation on nuclear vitamin D receptor (nVDR) function in human intestinal cells. J. Bone Min. Res. 17:S497.
59. Song, Y. and **Fleet, J.C.** (2003) Regulation of apical membrane calcium channel CaT1 mRNA level and calcium absorption by calcitirol in mouse duodenum. FASEB J. 17:A721. *(ASN Graduate Student Competition Finalist)*
60. Peng, X., Song, Y., Porta, A., Peng, J, Takanaga, H., Hediger, M., Fleet, J., and Christakos, S. (2003) CaT1 and ECaC mRNA are differentially regulated by 1,25(OH)2 D3 in the intestine and kidney of mice. 12th Workshop on Vitamin D, Maastricht, The Netherlands.
61. Wang, L., Klopot, A., Freund, J., and **Fleet, J.C.** (2003) HNF-1 controls calbindin D9k gene expression in Caco-2 cells. 12th Workshop on Vitamin D, Maastricht, The Netherlands.
62. Klopot, A., Hance, K., Wang, L., Barsony, J., and **Fleet, J.C.** (2003) The effect of differentiation on nuclear vitamin D receptor function in human intestinal cells. 12th Workshop on Vitamin D, Maastricht, The Netherlands.
63. **Fleet, J.C.** and Song, Y. (2004) Vitamin D receptor level is important for 1,25 dihydroxyvitamin D-mediated intestinal calcium absorption and calbindin D9k levels but not TRPV6 mRNA expression. 18:A486.
64. **Fleet, J.C.** and Song, Y. (2004) Female mice have higher vitamin D-mediated calcium absorption and intestinal gene expression than male mice. EB2004 18:A485.
65. Carnell, N.S., Hall, R., **Fleet, J.C.**, Campbell, W.W. (2004) Short-term low protein intake does not increase parathyroid hormone concentration in humans. FASEB J. 18:A146.
66. Taparia, S., **Fleet, J.C.**, Peng, J., Wang, X., and Wood, R.J. (2004)1,25-Dihydroxyvitamin D3 Mediated TRPV6 Regulation in Caco-2 Cells. FASEB J. 18:A101.
67. Campbell, W.W., **Fleet, J.C.**, Craig, B.A., Carnell, N.S. (2004) Inadequate dietary protein affects skeletal muscle gene expression in older humans. FASEB J. 18:A544.
68. Zhang, Z. and **Fleet, J.C.** (2004) Differential Regulation of TRPV 6 mRNA by 1,25(OH)2 D in intestine and prostate. EB2005 Late breaking abstract.

# Song, Y., Gliniak, C., Kato, S., and Fleet, J.C. (2004) Low Vitamin D Receptor Level Blunts 1,25 Dihydroxyvitamin D-Mediated Events in Mouse Intestine. J. Bone Min. Res.19:S199.

1. Krall, E.A., **Fleet, J.C.**, Vokonas, P.S., Miller, D.R., Rich, S.E. (2004) Interactions of Calcium Intake with FokI and Androgen Receptor Genotypes in Men. J. Bone Min. Res.19:S245.
2. Zhang, Z. and **Fleet, J.C.** (2004) Regulation of TRPV6 gene expression by 1,25(OH)2 D in normal prostate tissue and in prostate cancer cell lines. NIH conference on Vitamin D for cancer prevention and treatment. Nov 17-19, 2004, Bethesda, MD.
3. **Fleet, J.C.**, Zhao, Y., Hong, J., and Weaver, C.W. (2005) Evidence for active calcium absorption and vitamin D-mediated regulation of TRPV6 and calbindin D9k in the cecum of rodents. EB2005.
4. Zhang, Z., Kovalenko, P., Barclay, W.W., Cramer, S.D., **Fleet, J.C.** (2005) Vitamin D action in normal and cancerous prostate epithelial cells. FASEB Summer Conference on Nutrition and Gene Expression, Tucson AZ.
5. Thalaker, A.E., **Fleet, J.C.**, Craig, B.A., Carnell, N.S., Campbell, W.W., (2005) Dietary protein intake affects skeletal muscle gene expression in older humans. FASEB Summer Conference on Nutrition and Gene Expression, Tucson AZ.
6. Klopot, A., and **Fleet, J.C.**, (2005) The effect of differentiation on 1,25 dihydroxyvitamin D-mediated gene expression in the enterocyte-like cell line, Caco-2. FASEB Summer Conference on Nutrition and Gene Expression, Tucson AZ.
7. Lu, J. Bu, X., Stayrook, K., Khalifa, B., Wei, T., Frolik, C.A., Burris T. P., **Fleet, J.C.** and Nagpal, S. (2005) Identification and Characterization of Vitamin D Response Elements in Human and Mouse Epithelial Calcium Channel-2 Genes. J. Bone Min. Res. 20(S1):S4335.
8. Zhang, Z., Kovalenko, P., Li, J., Teegarden, D., **Fleet, J.C.** (2006) Ki-ras transformation impairs vitamin D-induced anti-cancer effects in human prostate epithelial cells. 13th Workshop on Vitamin D, Victoria, BC.
9. Gliniak, C., and **Fleet, J.C.** (2006) Defining optimal vitamin D status in the rat. 13th Workshop on Vitamin D, Victoria, BC.
10. Klopot, A., and **Fleet, J.C.**, (2006) The effect of differentiation on 1,25 dihydroxyvitamin D-mediated gene expression in the enterocyte-like cell line, Caco-2. 13th Workshop on Vitamin D, Victoria, BC.
11. Cui, M., Zhao, Y. **Fleet, J.C.** (2006) 1,25(OH)2 D3-mediated CYP24 gene expression depends upon MAPK signaling but not the EBS binding site in differentiated Caco-2 cells. 13th Workshop on Vitamin D, Victoria, BC.
12. Rowling, M.J., Gliniak, C., **Fleet, J.C.**, Welsh, J.E. (2006) High dietary vitamin D3 mimicks high calcium/high lactose diet in rescue of 1-hydroxylase knockout mice. 13th Workshop on Vitamin D, Victoria, BC.
13. Peleg, S., Marks, H.D., **Fleet, J.C.** (2006) Transgenic expression of the human vitamin D receptor (hVDR) in duodenum of VDR-null mice attenuates age-dependent decline in calcium absorption. 13th Workshop on Vitamin D, Victoria, BC.
14. Zhang, Z., Kovalenko, P., Li, J., Teegarden, D., **Fleet, J.C.** (2006) Ki-ras transformation impairs vitamin D-induced anti-cancer effects in human prostate epithelial cells. Endocrine Society Meeting, Boston, MA
15. Marks, H.D., Xue, Y., **Fleet, J.C.**, Peleg, S. (2006) Transgenic Expression of the Human Vitamin D Receptor (hVDR) In the Proximal Small Intestine Restores Vitamin D-Responsive Active Calcium Absorption But Is Insufficient To Support Adequate Calcium Homeostasis. ASBMR meeting, Philadelphia, PA
16. Gliniak, C., and **Fleet, J.C.** (2006) Defining optimal vitamin D status in the rat. ASBMR meeting, Philadelphia, PA.
17. Zhao, Y., Terry, D.E., **Fleet, J.C.**, Adamec, J., Zhang, X., Kemeh, S., Davisson, V.J., Weaver, C.M. (2006) Effects of Hindlimb Unloading and Bisphosphonates on the Serum Proteome in Rats. ASBMR meeting, Philadelphia, PA
18. Zhang, Z., Kovalenko, P., Li, J., Teegarden, D., **Fleet, J.C.** (2007) Ki-ras transformation impairs vitamin D-induced anti-cancer effects in human prostate epithelial cells. Experimental Biology 2007, Washington, D.C. *(ASN Graduate Student Competition Finalist)*
19. Xue, Y.B. and Fleet J.C. (2007) Overexpression of Human VDR in the Intestine Rescues the Hypocalcaemia-Related Phenotype of VDR Knockout Mice. ASBMR meeting, Honolulu, HI. (Oral presentation)
20. **Fleet, J.C.**, Delabre, J.F., Levy, E., and Asselin, C. (2008) Transcriptomic analysis of the program mediating enterocyte differentiation by HNF4, GATA4, or CDX2 in the rat ileal crypt cell line IEC-6. Experimental Biology 2008 San Diego, CA
21. Jiang, Y., Cui, M., and **Fleet, J.C.** (2008) Protein kinase C (PKC), p38 kinase, and mitogen activated protein kinases (MAPK) signaling enhance 1α, 25 dihydroxyvitamin D3 (1,25 D)-regulated 25-hydroxyvitamin D-24-hydroxylase (CYP24) gene expression in Caco-2 cells. Experimental Biology 2008 San Diego, CA (*ASN Graduate Student Competition Finalist*)
22. Kovalenko, P.L., Zhang, Z., Clinton, S.K., **Fleet, J.C.** (2008) Vitamin D-induced changes in the gene expression profile of the RWPE1 human prostate epithelial cell (PEC) line relevant to cancer prevention. Experimental Biology 2008 San Diego, CA
23. Thalacker-Mercer, A. **Fleet, J.C.**, Craig, B.A., Campbell, W.W. (2008) The skeletal muscle transcript profile reflects accommodative responses to inadequate protein intake in younger and older males Experimental Biology 2008 San Diego, CA
24. Kovalenko, P., Zhang, Z., Clinton, S.K., **Fleet, J.C.**, (2008) Vitamin D-induced changes in the gene expression profile of the RWPE1 human prostate epithelial cell (PEC) line relevant to cancer prevention. AICR 2008 Research Meeting, Washington, D.C.
25. Xue, Y.B., and **Fleet, J.C.**, (2008) A Genetic Model to Study 1,25 dihydroxyvitamin D Action in Classical and Non-classical Target Tissues. ASBMR meeting, Montreal, Canada. (*Oral presentation*)
26. Huang, J., Peacock, M., Adamec, J., **Fleet, J.C.**, Burgess, J., Teegarden, D., Ferruzzi, M., Weaver, C.M., (2009) Development and validation of a new LC-MS/MS method for simultaneous detection and quantification of VD related metabolites. Experimental Biology 2009 New Orleans, LA.
27. Zhang, Z., Yu, J-G., Clinton, S.K., **Fleet, J.C.**, (2009) Combined effects of dietary vitamin D and androgen status on prostate proliferation and apoptosis in mice. AACR annual meeting, Denver, CO.
28. **Fleet, J.C.**, Xue, Y., Snyder, P.W. (2009) Generation of a Novel Colon-Specific Cre-Expressing Transgenic Mouse for Colon Cancer Research. AACR annual meeting, Denver, CO.
29. Tober, K.L., Riggenbach, J.A., Harper, A.R., Clinton, S.K., **Fleet, J.C.**, Oberyszyn, T.M., (2009) The effect of dietary Vitamin D on UVB induced inflammation and skin carcinogenesis in male and female Skh-1 mice. AACR annual meeting, Denver, CO.
30. Smolinski, J.B., **Fleet, J.C.**, McCreedy, R., Clinton, SK., (2009) Dietary Calcium and vitamin D interactions in a murine model of early prostate carcinogenesis (APT121). AACR annual meeting, Denver, CO.
31. Achberger, T.R., Baxter, I., **Fleet, J.**, Salt, D. Doerge, R.W., (2009) Integrated Analysis of Genomic and Quantitative Trait Data. Kansas State University Conference on Applied Statistics in Agriculture 2009.
32. **Fleet, J.C.**, Xue, Y., Snyder, P.W. (2009) Generation of a Novel Colon-Specific Cre-Expressing Transgenic Mouse for Colon Cancer Research. Digestive Disease Week, 2009, Chicago, IL. (*oral presentation*)
33. Kovalenko, P.L., Zhang, Z., Cui, M., Clinton, S.K., **Fleet, J.C.** (2009) 1,25 Dihydroxyvitamin D-Mediated Orchestration of Anticancer, Transcript Level Effects in the Prostate Epithelial Cell Line RWPE1. 14th International Meeting on Vitamin D, Brugge, Belgium.
34. McCreedy, R., Arges A., **Fleet, J.C.** (2009) Adaptation of Bone/Calcium Metabolism to Low Dietary Calcium Stress is Affected by Genetic Background In Mice. 14th International Meeting on Vitamin D, Brugge, Belgium.
35. Smolinski, J.B., Rengel, R.C., McCreedy, R., **Fleet, J.C.,** Clinton, S.K. (2009) Low Dietary Vitamin D and High Dietary Calcium Increase Prostate Carcinogenesis in Apt121 Transgenic Mice. 14th International Meeting on Vitamin D, Brugge, Belgium.
36. Kovalenko, P., Zhang Z., Yu, J-G., Clinton, S.K., **Fleet, J.C.** (2009) Disruption of Vitamin D Signaling By Low Dietary Vitamin D or Vitamin D Receptor (VDR) Deletion Increases Androgen Dependent Proliferation and Reduces Apoptosis in Mouse Prostate Epithelial Cells. 14th International Meeting on Vitamin D, Brugge, Belgium. (*oral presentation*)
37. Cui, M., Fang, Y., Qi, Y., **Fleet, J.C.** (2010) Genome-Wide Identification of Vitamin D Receptor Binding Sites in DNA from Prostate Epithelial Cells by ChIP-Sequencing. Experimental Biology 2010, Anaheim, CA
38. DeSmet, M., **Fleet, J.C.,** (2010) The effect of activated-mitogen activated protein kinase (MAPK) activity on 1,25 dihydroxyvitamin D (1,25D)-mediated gene transcription in colon cancer cells Experimental Biology 2010, Anaheim, CA
39. Li, Y., Xue, Y., **Fleet, J.C.** (2010) Soy isoflavones increase bone mineral density without altering markers of whole body vitamin D or calcium metabolism in mice. Experimental Biology 2010, Anaheim, CA
40. Achberger, T., Baxter, I., **Fleet, J.C**., Salt, D.E. and Doerge, R.W (2010). "Introduction to Selecting Subsets of Quantitative Traits for Quantitative Trait Loci Analysis," 22nd Annual Applied Statistics in Agriculture Conference. Manhattan, Kansas, April 26, 2010.
41. McCreedy, R., Arges, A., **Fleet, J.C.** (2010) Adaptation of bone and calcium metabolism to low dietary calcium (Ca) stress is affected by genetic background in mice. Experimental Biology 2010, Anaheim, CA
42. **Fleet, J.C.** Kovalenko, P., Zhang Z., Yu, J-G., Clinton, S.K.(2010) Disrupting vitamin D (VD) signaling increases androgen dependent proliferation and reduces apoptosis in mouse prostate. Experimental Biology 2010, Anaheim, CA
43. Schoch, R.D., Smolinski, J., McCreedy, R., Clinton, S.K., Fleet, J.C. (2010) Varying dietary calcium (Ca), but not vitamin D (VD), influences bone and calcium metabolism in mature mice. Experimental Biology 2010, Anaheim, CA (*oral presentation*)
44. McCreedy, R., Wang, L., Zhang, M., Jones, B.C., Beard, J.C., **Fleet, J.C.** (2010) A forward genetics approach to identify genetic regulators of liver mineral accumulation in mice. Experimental Biology 2010, Anaheim, CA
45. **Fleet, J.C.,** Smolinski, J.B., Rengel, R.C., McCreedy, R., Clinton, S.K. (2010) Low Dietary Vitamin D and High Dietary Calcium Increase Prostate Carcinogenesis in Apt121 Transgenic Mice. Experimental Biology 2010, Anaheim, CA (*oral presentation*)
46. Hohman, E., Martin, B., Lachcik, P., Gordon, D.T., **Fleet, J.C.**, Weaver, C.M. (2010) Vitamin D3 and D2-Rich Yeast Are Equally Effective in Improving Trabecular Bone Quality in Vitamin D Deficient Rats. ASBMR 2010 Toronto, Canada.
47. Cui, M., **Fleet, J.C.** (2010) Transgenic over-expression of human TRPV6 in intestine increases calcium absorption efficiency and improves bone mass in mice. ASBMR 2010 Toronto, Canada. (*oral presentation*)
48. DeSmet, M., **Fleet, JC** (2010) The Effect of Vitamin D Receptor Activation on β-Catenin-Regulated Transcripts in Mice with Colonic Inactivation of Both APC Alleles. AACR Special Conference, Colorectal Cancer: Biology to Therapy, Philadelphia, PA (oral presentation)
49. Achberger, T., Fleet, J.C., Salt, D.E. and Doerge, R.W. (2011) An Introduction to Sparse Canonical Correlation Analysis for Quantitative Multiple-Trait Loci Mapping, 23rd Annual Applied Statistics in Agriculture Conference. Manhattan, Kansas, May 2, 2011.
50. Schoch, RD, Fleet, JC (2011) High intestinal vitamin D receptor level increases molecular markers for intestinal calcium absorption but not bone mineral density in mice. Experimental Biology 2011, Washington, DC.
51. Kobza, V.M., **Fleet, J.C**., Conley, T.B., Peacock, M., Iglay-Reger, H.B., Campbell, W.W., (2011) Plasma 25 hydroxyvitamin D to parathyroid hormone ratio is associated with glucose tolerance and insulin sensitivity in older adults. Experimental Biology 2011, Washington, DC.
52. Spees, C.K., Thomas-Ahner, J.M., Tan, H.L., Yu, J.G., Smolinski, J.B., Kovalenko, P.L, **Fleet, J.C.**, Clinton, S.K.,. (2011) Characterization of p53 in Transgenic Mouse Prostate Carcinogenesis Models. AACR Annual meeting 2011, Orlando FL.
53. Kovalenko, P., Clinton, S.K, **Fleet, J.C.** (2011) Deletion of vitamin D receptor in prostate epithelial cells increases proliferation, reduces apoptosis, and enhances early carcinogenesis in the TgAPT121 mouse model of prostate cancer. AACR Annual meeting 2011, Orlando FL.
54. Li, Y. **Fleet, J.C.** (2011) Transcript profiling of mouse PIN. AACR Annual meeting 2011, Orlando FL
55. Johnson, R.L., **Fleet, J.C.**, Snyder, P.W. (2011) Additional characterization of a carbonic anhydrase-1 promoter/enhance Cre-recombinase transgenic mouse model of colon cancer. 2011 annual meeting of the American College of Veternary Pathology, Nashville, TN.
56. Park, C.Y., **Fleet, J.C.**, McCabe, G.P., Weaver, C.M. (2011) Interaction of calcium intake and vitamin D status throughout young adulthood and OVX-induced estrogen deficiency on bone and calcium metabolism. ASBMR 2011 San Diego CA (*Presidents Poster Competition Selection*).
57. Li, Q., Replogle, R.M, and **Fleet, J.C.** (2011) Adaptation of bone and calcium (Ca) metabolism to low dietary Ca intake is affected by genetic background in mice. ASBMR 2011 San Diego CA.
58. Johnson, R., Snyder, P.W., **Fleet, J.C.** (2012) Induction of colonic cre-recombinase expression in carbonic anhydrase I-Cre transgenic mice by dextran sulfate sodium. AACR 2012 meeting, Chicago, IL
59. DeSmet, M., **Fleet, J.C.** (2012) Constitutively active RAS signaling reduces 1,25 dihydroxyvitamin D-mediated gene transcription by suppressing vitamin D receptor gene expression in mouse colon epithelial cells. AACR 2012 meeting, Chicago, IL
60. Replogle, R., Wang, L., Zhang, M., and **Fleet, J.C.** (2012) Identification of genetic loci controlling intestinal calcium (Ca) absorption using BXD recombinant inbred (RI) mice fed high or low dietary Ca. EB2012 San Diego, CA.
61. Li, Y., Clinton, S.K., **Fleet, J.C.** (2012) Enhanced prostate tumorigenesis in TgAPT121 mice lacking prostatic VDR expression. AACR 2012 meeting, Chicago, IL
62. Replogle, R., Wang, L., Zhang, M., and **Fleet, J.C.** (2012) [Genetic Control of Serum 1,25 dihydroxyvitamin D (1,25(OH)2D) level under normal and low dietary calcium (Ca) condition](http://www.asbmr.org/Meetings/AnnualMeeting/AbstractDetail.aspx?aid=07c9378a-4d29-404c-9da0-b610dc79f8c6)s. ASBMR 2012 meeting, Minneapolis, MN.
63. Reyes-Fernandez, P.C., Replogle, R.A., Li, Q., **Fleet, J.C.**(2013) Cav1.3 does not contribute to active 1,25D-regulated intestinal Ca absorption. EB2013 Boston, MA.
64. Reyes-Fernandez, P.C., **Fleet, J.C.**(2013) High renal calcium (Ca) excretion does not reduce femur bone density in mice fed adequate or low dietary Ca. EB2013 Boston, MA.
65. Replogle, R.A., Wang, L., Zhang, M., **Fleet, J.C.** (2013) Genetics control of serum 1,25 dihydroxyvitamin D level under normal and low dietary calcium conditions. EB2013 Boston, MA.
66. Replogle, R.A., Li, Q., **Fleet, J.C.** (2013) High intestinal calcium absorption efficiency is positively associated with bone mass in a genetically diverse population of mice. EB2013 Boston, MA.
67. Burcham, G., **Fleet, J.C.**, Ratliff, T. (2013) Myeloid derived suppressor cell (MDSC) biology is regulated by 1alpha, 25 dihydroxyvitamin D (1,25 D). 16th Workshop on Vitamin D, San Francisco, CA, June 2013
68. Reyes-Fernandez, P.C., **Fleet, J.C.** (2013) [Duodenal Ca Absorption Increases to Compensate for the Loss of Vitamin D Receptor (VDR) from the Large Intestine and Kidney of Mice](http://www.asbmr.org/ItineraryBuilder/PresentationDetail.aspx?pid=fe6b2db0-858b-43a1-8f56-997f28fa281d&ptag=WebItinerarySearch). ASBMR annual meeting, Baltimore, MD. (*Young Investigator Award winner*)
69. **Fleet, J.C.**, Wang, F., Johnson, R.L. (2014) Inducible, Colon-specific Cre-recombinase expression in CAC transgenic mice with Dextran Sulfate Sodium (DSS)-induced colon inflammation. Digestive Diseases Week, Chicago, IL. (*selected for oral presentation*)
70. Wang, F., Johnson, R.L., **Fleet, J.C.** (2014) Low Dietary Vitamin D reduces epithelial healing after Dextran Sulphate Sodium (DSS)-induced epithelial damage. Digestive Diseases Week, Chicago, IL. (*Selected as “poster of distinction”)*
71. **Fleet, J.C.**, DeWitt, M., Johnson, R.L. (2014) The effect of 1,25 dihydroxyvitamin D3 treatment on the mRNA levels of b catenin target genes in mice with colonic inactivation of both APC alleles. 17th Workshop on Vitamin D, Chicago, IL.
72. Replogle, R.M., Reyes-Fernandez, P.C., **Fleet, J.C.** (2014) Identification of novel genetic loci affecting vitamin D metabolite levels in BXD recombinant inbred mice fed high and low calcium diets. 17th Workshop on Vitamin D, Chicago, IL. (*selected for oral presentation*)
73. Reyes-Fernandez, P.C., **Fleet, J.C.** (2014) [Duodenal Ca Absorption Increases to Compensate for the Loss of Vitamin D Receptor (VDR) from the Large Intestine and Kidney of Mice](http://www.asbmr.org/ItineraryBuilder/PresentationDetail.aspx?pid=fe6b2db0-858b-43a1-8f56-997f28fa281d&ptag=WebItinerarySearch). 17th Workshop on Vitamin D, Chicago, IL. (*Selected for oral presentation, Trainee travel award*)
74. Wang, F., Johnson, R.L., **Fleet, J.C.** (2014) Low Dietary Vitamin D reduces epithelial healing after Dextran Sulphate Sodium (DSS)-induced epithelial damage. 17th Workshop on Vitamin D, Chicago, IL.
75. Reyes-Fernandez, P.C., Replogle, R.M., **Fleet, J.C.** (2014) Identification of novel genetic loci affecting the protection of bone mineral content in response to low calcium dietary stress. ASBMR annual meeting, Houston, TX
76. Jahn, D., Gilden, L., **Fleet, J.C.**, Schmitt, J., Hermanns, H.M., Geier, A., (2015) Vitamin D3 acts on the gut-liver-adipose tissue axis to modulate obesity and associated metabolic and inflammatory changes in diet-induced obese mice. The International Liver Congress 2015, Vienna, Austria.
77. **Fleet, J.C.**, Reyes-Fernandez, P., Mace, S., Replogle, R., Lan, X. (2015) Trabecular Bone Parameters in the Distal Femur and L5 Spine are Differentially Influenced by Genetics and Dietary Calcium Restriction in Growing Mice. ASBMR annual meeting, Seattle, WA.
78. **Fleet, J.C.**, DeSmet, M. (2016) Constitutively active RAS signaling reduces 1,25 dihydroxyvitamin D-mediated gene transcription by suppressing vitamin D-mediated gene transcription by suppressing vitamin D receptor gene expression in intestinal cells. 19th Workshop on Vitamin D, Boston, MA
79. **Fleet, J.C.**, Cui, M. Genome-wide identification of the vitamin D receptor binding sites in the human prostate epithelial cell line, RWPE1. 19th Workshop on Vitamin D, Boston, MA.
80. Wang, F., DeSmet, M., Johnson, R., **Fleet, J.C.** (2016) Vitamin D has independent effects on the colon epithelium and on immune cells that suppress Dextran Sulphate Sodium (DSS)-induced colitis. Digestive Diseases Week, San Diego, CA
81. Vorland, C.J., Lachcik, P., **Fleet, J.C.**, Hill Gallant, K.M. (2016) Effect of age and dietary phosphorus intake on intestinal phosphorus absorption in male rats. ASBMR annual meeting, Atlanta, GA.
82. **Fleet, J.C.**, Chanpaisaeng, K., Reyes-Fernandez, P., Replogle, R.M. (2016) Multi-Trait Mapping Reveals Novel Loci Controlling Relationships between Calcium Absorption, Bone Density, and Serum Hormones in BXD Mice. ASBMR annual meeting, Atlanta, GA. (*Selected for the plenary poster session*)
83. Jahn, D. Dorbath, D. Schilling, A.K., Gildein, L., Schmitt, J, Kraus, D., **Fleet, J.C.**, Hermanns, H.M., Geier, A. (2017) Role of the intestinal vitamin D receptor in obesity, adipose tissue inflammation, and hepatic lipid accumulation. 2017 European Assoc. for the Study of the Liver Meeting, Amsterdam, The Netherlands.
84. Chanpaisaeng, K., Reyes-Fernandez, P., Mace, S., Replogle, R., Lan, X., **Fleet, J.C.** (2017) Femoral and L5 Spine Trabecular Bone are Differentially Influenced by Dietary Calcium Restriction and Genetics in Growing Mice. EB2017, Chicago, IL. (*Oral Presentation, Emerging Leaders Poster Award*)
85. Calvert, R., Burcham, G., Ratliff, T., **Fleet, J.C.** (2017) Myeloid Derived Suppressor Cells (MDSC) are Vitamin D Targets and 1,25 dihydroxyvitamin D inhibits their Ability to Suppress T Cell Function. EB2017, Chicago, IL. (*Oral presentation, Winner of the ASN Graduate Student Research Competition, Emerging Leaders Poster Award*)
86. **Fleet, J.C.**, Reyes-Fernandez, P., Replogle, R., Chanpaisaeng, K. (2017) Multi-trait Genetic Mapping Reveals Novel Loci Responsible for Genetic and Genetic-by-Diet Interactions Affecting Bone, Vitamin D, and Calcium Metabolism. EB2017, Chicago, IL. (*Oral presentation*)
87. Mandell, E., Ryan, S.., Seedorf, G., Abman, S., **Fleet, J.C.** (2018) Maternal Vitamin D Deficiency Decreases Angiogenic Signaling Pathways in Newborn Rat Lungs. Pediatric Academic Societies (PAS) 2018 Meeting, Toronto, Canada.
88. Calvert, R., Elzy, B., Yu, Y., Pothen, A., Ratliff, T., **Fleet, J.C.**, (2018) Monocytic myeloid derived suppressor cells (M-MDSC) from spleen are multipotent while tumor M-MDSC have limited plasticity. AACR Annual Meeting 2018, Chicago, IL
89. Chanpaisaeng, K., Mace, S. Reyes-Fernandez, P., **Fleet, J.C.** (2018) Novel Genetic Loci Control L5 Vertebral Trabecular Bone and the Response to Low Calcium Intake in Growing BXD Recombinant Inbred Mice ASBMR annual meeting, Montreal, Canada. *(plenary poster).*
90. Gonzalez, T., Seedorf, R.S., **Fleet, J.C.**, Abman, S.H., Mandell, E.W. (2019) Maternal Vitamin D Deficiency Decreases Distal Lung Vascular Development and Pulmonary Endothelial Cell Growth and Function. Pediatric Academic Society Annual meeting Baltimore MD (*Chosen for oral presentation*)
91. **Fleet, J.C.**, Burcham, G.N., Calvert, R.D., Ratliff, T.L. (2019) 1, 25 dihydroxyvitamin D (1,25(OH)2D) inhibits the T cell suppressive function of myeloid derived suppressor cells (MDSC) AACR Annual Meeting 2019, Atlanta, GA.
92. Li, S., De La Cruz, J., Hur, J., Pellon-Cardenas, O., Shroyer, N., **Fleet, J.C.**, Verzi, M.,and Christakos, S. (2019) Nutrigenomics of 1,25(OH)2D3 action in the intestine. 22nd Vitamin D Workshop, New York, NY.
93. **Fleet, J.C.**, Burcham, G.N., Calvert, R.D., Ratliff, T.L. (2019) 1, 25 dihydroxyvitamin D (1,25(OH)2D) inhibits the T cell suppressive function of myeloid derived suppressor cells (MDSC). 22nd Vitamin D Workshop, New York, NY *(platform presentation).*
94. **Fleet, J.C.**, Reyes-Fernandez, P.(2019) Intestinal responses to 1,25 dihydroxyvitamin D are not improved by higher intestinal VDR resulting from transgenic expression of VDR in the whole intestine or distal intestine. 22nd Vitamin D Workshop, New York, NY.
95. Jiang, H., Horst, R., Koszewski, N., Goff, J., Christakos, S., **Fleet, J.C.** (2019) 1,25(OH)2D-mediated calcium absorption at the proximal colon: targeted gene upregulation by glycoside/glucuronide calcitriol. 22nd Vitamin D Workshop, New York, NY. *(plenary poster)*
96. Mandell, E.W., Gonzalez, T., Ryan, S., Seedorf, G.J., **Fleet, J.C.**, Abman, S.H. (2019) Maternal Vitamin D Deficiency Decreases Distal Lung Vascular Development and Pulmonary Endothelial Cell Growth and Function in Infant Rats. 22nd Vitamin D Workshop, New York, NY *(platform presentation).*
97. Mandell, E., Ryan, S., Seedorf, G.J., Abman, S.H., and **Fleet, J.C.** (2019) Maternal Vitamin D Deficiency Induces Transcriptomic Changes in Newborn Rat Lungs. 22nd Vitamin D Workshop, New York, NY.
98. Chanpaisaeng, K., Reyes-Fernandez, P., **Fleet, J.C.** (2019) QTL for femoral trabecular bone mass and microarchitecture and their dietary responses to calcium restriction in male BXD recombinant inbred mouse strains. ASBMR annual meeting 2019, Orlando, FL
99. Li, S., De La Cruz, J., Pellon-Cardenas, O., Shroyer, N., **Fleet, J.**, Verzi, M., Christakos, S. (2019) Nutrigenomics of 1,25(OH)2D3 action in the intestine: Evidence for a role of 1,25(OH)2D3 in manganese transport. ASBMR annual meeting 2019, Orlando, FL
100. Gonzalez, T., Bye E., Seedorf, G.J., **Fleet, J.C.**, Abman, S.H., Mandell, E.W. (2020) Maternal Vitamin D Deficiency Decreases Pulmonary Endothelial Cell Growth and Function in Infant Rats. Pediatric Academic Societies Meeting 2020, Philadelphia, PA
101. Mandell, E., Ryan, S., Seedorf, G.J., Gonzales, T., Bye, El., Abman, S.H., **Fleet, J.C.** (2020) Vitamin D Decreases Inflammatory and Increases Angiogenic Signaling Pathways in Newborn Rat Lungs After Antenatal Endotoxin Exposure. Pediatric Academic Societies Meeting 2020 Philiadelphia, PA.
102. Mandell, E., Ryan, S., Seedorf, G.J., Gonzales, T., Bye, El., Abman, S.H., **Fleet, J.C.** (2020) Vitamin D Decreases Inflammatory and Increases Angiogenic Signaling Pathways in Newborn Rat Lungs After Antenatal Endotoxin Exposure. Pediatric Academic Societies Meeting 2020 Philiadelphia, PA.
103. Jiang, H., Christakos, S., **Fleet, J.C.** (2020) Intestinal Vitamin D Receptor in Adult Mice is Essential to Maintain Bone Mass When Calcium Intake is Low but Dispensible When Calcium Intake is Adequate. ASBMR Annual meeting 2020 (*Plenary poster*).
104. **Fleet, J.C.**, Aldea, D., Chen, L., Christakos, S., Verzi, M. (2020) Mechanisms Controlling the High Level of Vitamin D Receptor Gene Expression in Mouse Intestine. ASBMR Annual meeting 2020 (*Plenary poster*).
105. Bye, E., Gonzalez, T, Seedorf, G, McGinn, E. Smith, B., **Fleet, J.C.**, Abman, S., Mandell, E. (2021) Impaired infant lung growth and function in mice with genetic deletion of endothelial cell specific vitamin D receptor expression. Virtual Western Medical Research Conference. (Oral presentation).
106. Bye, E., Gonzalez, T, Seedorf, G, McGinn, E. Smith, B., **Fleet, J.C.**, Abman, S., Mandell, E. (2021) Impaired infant lung growth and function in mice with genetic deletion of endothelial cell specific vitamin D receptor expression. Pediatric academic Society annual Meeing. (Oral presentation).
107. **Fleet, J.C.**, Aldea, D., Chen, L., Christakos, S., Verzi, M. (2020) Regulatory domains controlling high intestinal expression of the vitamin D receptor (VDR) gene in mouse and their conservation in the human VDR gene. Keystone eSymposium on Vitamin D. October 2021 (Poster presentation)
108. Jiang, H. Christakos, S., **Fleet, J.C.** (2021) Intestinal vitamin D receptor in adult mice is essential to maintain bone mass when calcium intake is low but dispensable when calcium intake is adequate. Keystone eSymposium on Vitamin D. October 2021 (Best Post-doctoral research award; Oral presentation)
109. Aita, R, Aldea, D., Hassan, S., Hur, J., Pellon-Cardenas, O., Cohen, E., Chen, L., Christakos, S. Verzi, M., **Fleet, J.C.** (2021) Spatial Differences Exist in the Regulation of Genes by 1,25 Dihydroxyvitamin D. Across the Mouse Intestine Keystone eSymposium on Vitamin D. October 2021 (Oral presentation)
110. Galambos, N.W., Bye, E., Gonzalez, T., Seedorf, G.J., Smith, B.J., **Fleet, J.C**., Abman, S.H., Mandell, E.W. (2022) Vitamin A and Vitamin D Treatment Promotes Lung Growth and Function in Newborn Offspring from Maternal Vitamin D Deficient Rats. Western Medical Research Conference. (Oral presentation)
111. Gonzalez, T., Bye, E., Galambos, N., Seedorf, G.J., **Fleet, J.C.,** Abman, S.H., Mandell, E.W. (2022) Maternal Vitamin D Deficiency Alters Pulmonary Endothelial Cell Growth and mRNA Expression in Newborn Rats. Western Medical Research Conference. (Oral presentation)
112. Watkins, N., Anderson, P.H., Fleet, J.C., (2022) Intestinal Epithelial Cell-Deletion of Cyp24a1 Reduces Renal Cyp27b1 mRNA and Enhances Trpv6 mRNA Induction by Low Dietary Calcium. American Society for Bone and Mineral Research Annual Meeting, Austin, Texas
113. Criss, Z., Deans-Fielder, K., Fleet, J.C., Verzi, M.P., Christakos, S., and Shroyer, N. (2022) Differential effects of 1,25 dihydroxyvitamin D on the transcriptome of differentiated and undifferentiated organoids from human small intestine and colon. American Society for Bone and Mineral Research Annual Meeting, Austin, Texas (oral presentation by JCF)
114. Ucer Ozgurel, S., Reyes-Fernandez, P., Chanpaisaeng, K., Fleet, J.C., (2022) The response to dietary calcium restriction is altered in high bone mass LRP5A214V mice. American Society for Bone and Mineral Research Annual Meeting, Austin, Texas
115. Watkins, N., Anderson, P.H., Fleet, J.C., (2022) Intestinal Epithelial Cell-Deletion of Cyp24a1 Reduces Renal Cyp27b1 mRNA and Enhances Trpv6 mRNA Induction by Low Dietary Calcium. 24th Vitamin D Workshop, Austin, Texas (oral presentation)
116. Ucer Ozgurel, S., Reyes-Fernandez, P., Chanpaisaeng, K., Fleet, J.C., (2022) The response to dietary calcium restriction is altered in high bone mass LRP5A214V mice. 24th Vitamin D Workshop, Austin, Texas (oral presentation)
117. Criss, Z., Deans-Fielder, K., Fleet, J.C., Verzi, M.P., Christakos, S., and Shroyer, N. (2022) Differential effects of 1,25 dihydroxyvitamin D on the transcriptome of differentiated and undifferentiated organoids from human small intestine and colon. Vitamin D Workshop, Austin, Texas (plenary poster)
118. Gonzalez, T., Bye, E., Seedorf, G.J., Fleet, J.C., Abman, S.H., and Mandell, E.W. (2022) Maternal vitamin D deficiency alters pulmonary endothelial cell growth and mRNA expression in newborn and infant rats. Vitamin D Workshop, Austin, Texas (plenary poster)
119. Cookson, M.W., Gonzalez, T., Bye, E., Seedorf, G.J., Sherlock, L., Fleet, J.C., Abman, S.H., and Mandell, E.W. (2023) Antenatal Vitamin D Therapy Improves Pulmonary Endothelial Cell Growth and Response to Proangiogenic Stimuli in a Preeclampsia Model of Bronchopulmonary Dysplasia Related Pulmonary Hypertension. Western Medical Research Conference, Carmel, CA (Abbott Nutrition Pediatric Trainee Award winner).

**[Seminar presentations, 121]**

1. January 1992 HNRCA at Tufts University, Boston, MA
2. January 1993 Institute of Biosciences and Technology, Houston, TX
3. November 1993 University of Connecticut, Storrs, CT
4. November 1993 HNRCA at Tufts University, Boston, MA
5. November 1994 New England Medical Center, Boston, MA
6. November 1994 Women and Infants Hospital, Brown Univ., Providence, RI
7. September 1995 Rhode Island Hospital, Providence, RI
8. November 1995 Simmons College, Boston, MA
9. February 1996 HNRCA at Tufts University, Boston, MA
10. February 1996 University of Missouri, Columbia, MO
11. March 1997UNC-Greensboro, Dept. of Nutrition, Greensboro, NC
12. November 1997 Wake Forest Medical School, Winston-Salem, NC
13. January 1998NIEHS,Research Triangle Park, NC
14. January 1998 UNC-Greensboro, Biology Department, Greensboro, NC
15. March 1998 North Carolina State University, Raleigh, NC
16. March 1998Iowa State University, Ames, IA
17. March 1998 UNC-Greensboro, Employee Education Program
18. August 1998 XXII International Congress of Pediatrics, Amsterdam
19. November 1998 University of North Carolina at Chapel Hill
20. September 1999 Greensboro American Dietetic Association
21. December 1999 Purdue University, West Lafayette, IN
22. October 2000 Endocrine Division, Indiana University School of Medicine
23. January 2000 Purdue University, West Lafayette, IN
24. October 2000 Endocrine Division, Indiana University School of Medicine
25. August 2001 FASEB Summer Research Conference, Saxon River, VT
26. October 2001 Purdue University, School of Consumer and Family Sciences 75th Anniversary Event
27. November 2001 Purdue University, West Lafayette IN
28. February 2002 NIH Nutrition Study Section, Bethesda MD
29. March 2002 Indiana Bone Research Group, IUPUI, Indianapolis, IN
30. March 2002Purdue University, Department of Statistics, Bioinformatics/Statistical Genomics Seminar Series
31. April 2002 Advances in Mineral Metabolism Meeting, Snowmass, CO
32. April 2002 ASNS Workshop on Emerging Technologies, Experimental Biology Meeting 2002, New Orleans, LA
33. May 2002 Dept. of Oncology, Ohio State U. Medical School
34. May 2002 Ohio State University Nutrition Group
35. October 2002 Division of Nutrition, Cornell University, Ithaca, NY
36. March 2003 Indiana University School of Medicine, Indianapolis, IN
37. April 2003 Tufts University, HNRCA, Boston, MA
38. April 2003 Harvard University, Division of Gastroenterology, Boston, MA
39. May 2003 Eli Lilly Corp., Indianapolis, IN
40. October 2003 NIH conference “Vitamin D in the 21st Century: Bone and Beyond”, Washington DC
41. February 2004 University of Notre Dame, Department of Biology, South Bend, IN
42. March 2004 Purdue University, Dept. of Statistics, Bioinformatics Seminar Series
43. April 2004 Wyeth Consumer Products sponsored seminars in Hainan, Nanjing, and Wuhan China
44. May 2004 Purdue University, Dept. of Foods and Nutrition, Corporate Affiliates Meeting
45. October 2004 Penn State University, Department of Nutrition, State College, PA
46. October 2004 Ohio State University, Molecular Carcinogenesis Group, Columbus, OH.
47. May 2005 AGA Symposium on Vitamin D and Calcium Metabolism. Chicago, IL
48. August 2005 FASEB Summer Conference on Nutrition and Gene Regulation. Tucson, AZ.
49. February 2006 University of Georgia, Dept. of Nutrition.
50. March 2006 Metabolite Signaling Center, University of Nebraska, Lincoln, NE
51. May 2006 May Conference for Continuing Dietetic Education, Purdue University.
52. April 2006 Session on “Physiologic Genomics and the GI tract”, EB 2006
53. July 2006 Sun Valley Workshop session on “Vitamin D and Bone Health”
54. November 2006 Wyeth Global Nutrition Advisory Board Meeting, Ottawa, Canada
55. November 2006 Lands Lecture, Dept. of Biochemistry, University of Michigan Medical School.
56. February 2007 Department of Basic Medical Sciences, Purdue University School of Veterinary Medicine
57. March 2007 21st European Intestinal Transport Group Meeting, Oberwiesenthal, Germany
58. April 2007 Forward and Reverse Genetics to Study Ca Metabolism, NC Research Center, Kannapolis, NC
59. May 2007 Nutrigenomics. Separating fact from fiction. May Conference for Continuing Dietetic Education. Purdue University.
60. May 2007 What have genomics and proteomics told us about vitamin D and cancer? National Cancer Institute meeting on Vitamin D and Cancer, Bethesda, MD
61. May 2007 Genomic approaches to study intestinal biology. Bertinoro Meeting on Clinical Systems Biology, Bertinoro Italy.
62. Nov 2007 Genomic approaches to study intestinal biology. Dept. of Food Science and Nutrition, University of Illinois-Champaign-Urbana, IL
63. Dec 2007 Forward and Reverse Genetic Approaches to Study Calcium Metabolism. HNRCA at Tufts University, Boston, MA
64. Jan 2008 Vitamin D Regulation of Calcium Metabolism: Lessons from Animal Models, Dept of Foods and Nutrition, Purdue University
65. Feb 2008 Molecular Regulation of Calcium Metabolism: Lessons from Animal Models, Dept of Nutrition, Michigan State University
66. Feb 2008 Forward and Reverse Genetic Approaches to Study Calcium Metabolism. Dept of Animal Sciences, Purdue University
67. July 2008 Intestinal Calcium Absorption: Current thinking. Annual meeting of the American Society of Animal Sciences, Indianapolis, IN
68. October 2008 Molecular Regulation of Calcium Metabolism: Lessons from Animal Models, Indiana University School of Medicine
69. January 2009 Vitamin D actions on calcium metabolism are mediated through controls on intestinal calcium absorption, Department of Human Nutrition, University of Florida, Gainsville, FL
70. March 2009 Vitamin D actions on calcium metabolism are mediated through controls on intestinal calcium absorption, Department of Nutrition, University of Tennessee, Knoxville, TN
71. April 2009 Vitamin D and prostate cancer prevention, MD Anderson Cancer Research Center, Houston, TX
72. June 2009 Biological Actions of Vitamin D, IFT annual meeting, Anaheim, CA
73. July 2009 Ionomics: a new way of viewing mineral metabolism, Annual meeting of the American Society of Animal Sciences, Montreal, Canada.
74. October 2009 Vitamin D and prostate cancer prevention, Dept. of Foods and Nutrition, Purdue Univ. West Lafayette, IN
75. October 2009 Vitamin D actions on calcium metabolism are mediated through controls on intestinal calcium absorption, Eli Lilly and Company, Indianapolis, IN
76. April 2010 Systems genetics for the study of mineral metabolism. Symposium on Systems Genetics in Nutrition Research, Experimental Biology 2010, Anaheim, CA
77. October 2010 Vitamin D and prostate cancer prevention, Dept. of Nutrition, Texas A&M University, College Station, TX
78. October 2010 Challenges Faced by the IOM Committee Setting Dietary Reference intakes for Vitamin D. Nutrition Working Group, American Society for Bone and Mineral Research, Toronto, Canada
79. November 2010 Vitamin D, an essential nutrient for bone health and more. Presidents Back-to-Class Sessions for Alumni, Purdue University, West Lafayette, IN
80. November 2010 Vitamin D and prostate cancer prevention, Dept. of Nutrition, Ohio State University, Columbus, OH.
81. January 2011 Does high Vitamin D prevent prostate cancer? Epithelial Biology Research Center, Kansas State University. Manhattan, KS.
82. February 2011 Systems genetics for the study of mineral metabolism. Nutrigenomics research Center, University of Nebraska, Lincoln, NE.
83. March 2011 Response to new DRI for Vitamin D. Department of Foods and Nutrition Corporate Affiliates Meeting, Purdue University, West Lafayette, IN
84. March 2011 Nutrition and Cancer Prevention, Joint IUSM-PCCR Retreat, West Lafayette, IN.
85. April 2011 Vitamin D and prostate cancer prevention, Dept. of Endocrinology, University of Wisconsin Medical School, Madison, WI.
86. November 2011 What have animal models told us about vitamin D and cancer?

 American Institute for Cancer Research meeting, Washington, DC.

1. December 2011 Basic Science: Potential Mechanisms for Vitamin D-Mediated Effects on Cancer Risk. National Cancer Institute Webinar on Vitamin D and Cancer Prevention.
2. January 2012 Vitamin D: Relationship to obesity and overall wellness.

 Suggested management of vitamin D deficiencies.

 The Center for Medical Weight Loss CME Symposium, Orlando, FL

1. September 2012 Report on my activities during my sabbatical leave

 Dept. of Nutrition Science, Purdue University

1. November 2012 Regulation of Intestinal Calcium Absorption.

 UMDNJ, Newark, New Jersey

1. November 2012 Vitamin D and Prostate Cancer Prevention

 Rutgers University, New Brunswick, New Jersey

1. December 2012 Gene by Diet interactions affecting bone and calcium metabolism

 Indiana University School of Medicine, Indianapolis, IN

1. April 2013 Forward and Reverse Genetic Approaches Reveal Critical Gene-by-Diet Interactions Affecting Calcium Absorption and Bone Metabolism. University of Illinois, Champaign, IL
2. June 2013 Mechanisms for vitamin D regulated intestinal calcium absorption. 16th Workshop of Vitamin D, San Francisco, CA.
3. Sept 2013 Vitamin D and Prostate Cancer Prevention.

Department of Molecular and Biomedical Pharmacology, University of Kentucky, Lexington, KY

1. January 2014 Gene x Diet interactions affecting calcium absorption and bone metabolism.

USDA Children’s Nutrition Research Center

Little Rock, AK

1. April 2014 Is the link between vitamin D and cancer causal? A review of molecular mechanisms and their implications.

Symposium on Circulating Vitamin D and Risk of Breast and Colorectal Cancer, ASN Annual Meeting, San Diego, CA.

1. May 2014 Gene polymorphisms: A Foundation for Personalized Health Recommendations.

Department of Nutrition Science, May Conference, Purdue University, West Lafayette, IN

1. Sept 2014 Forward Genetics Approaches to Study Bone and Ca Metabolism.

Bone and Mineral Metabolism Working Group, Purdue University, West Lafayette, IN.

1. Nov 2014 A Physiologist's View of QTL Analysis for Determining GXE Interactions.

Bioinformatics Seminar Series, Purdue University, West Lafayette, IN

1. Nov 2014 Gene by Diet Interactions Affecting Development of Peak Bone Mass

Dept. of Medicinal Chemistry and Molecular Pharmacology, Purdue University, West Lafayette, IN

1. Dec 2014 The Impact of Vitamin D Status and Signaling on Cancer.

 University of Connecticut Health Sciences Center, Farmington, CT

1. April 2015 The Role of Vitamin D status and signaling in Cancer.

 Department of Veterinary and Biomedical Sciences

 The Pennsylvania State University, State College, CT

1. February 2016 Bioinformatics training opportunities at Purdue.

Bindley Bioscience Center, Purdue University

1. April 2016 Biological Big Data Science A Foundation for Discovery

Public Health Symposium, Purdue University

1. Oct 2016 Vitamin D and Cancer

Department of Pharmacology, Northwestern University, Chicago, IL

1. Oct 2016 Vitamin D and Cancer

Department of Medicine, University of Chicago, Chicago, IL

1. Nov 2016 Vitamin D, Immunity, and cancer.

AICR Annual Meeting, Washington, DC

1. Dec 2016 Challenges in determining the role of nutrition in cancer prevention, Indiana CTSI meeting, Purdue University.
2. March 2017 What does cancer prevention mean? Lessons from vitamin D and cancer. Russel Klein Nutrition Research Symposium, Ohio State University, Columbus, OH
3. March 2017 The year in vitamin D: basic/translational., Keynote address at the 20th International Workshop on Vitamin D, Orlando, FL
4. April 2017 Computational Challenges in Physiology,

Computational Life Sciences Interdisciplinary Graduate Program, Purdue University

1. April 2017 Vitamin D and Health: A Career Snapshot. Vitamin and Mineral Research Interest Section at the Annual American Society for Nutrition annual meeting, Chicago, IL.
2. November 2018 Mind of a Scientist: Cancer Prevention.

Department of Nutrition Science, Purdue University.

1. June 2019 Genetic control of calcium and bone homeostasis.

Indiana University School of Medicine, Indiana Center for Musculoskeletal Health. Indianapolis, IN.

1. November 2019 Genetic control of calcium and bone homeostasis.

Department of Biochemistry and Molecular Biology, Rutgers New Jersey Medical School, Newark, NJ

1. November 2019 Multi-level protective effects of Vitamin D signaling on cancer.

School of Dental Medicine, Rutgers New Jersey Medical School, Newark, NJ

1. February 2020 Yin and Yang: Genetics and Diet Interact to Influence Bone Health. Department of Nutrition Science, University of Texas, Austin, TX.
2. January 2022 Regulation of carcinogenesis and cancer development by Vitamin D. Department of Nutrition, University of British Columbia, Vancouver, Canada.
3. February 2022 Regulation of carcinogenesis and cancer development by Vitamin D. National Institute of Environmental and Health Sciences. Raleigh, NC.
4. March 2022 Regulation of carcinogenesis and cancer development by Vitamin D. Livestrong Cancer Research Center, University of Texas at Austin, Austin, TX.
5. Sept 2022 Integrating genomic and physiologic data to understand how vitamin D signaling regulates intestinal biology. 24th Vitamin D Workshop, Austin, TX.

 [Information for a lay audience]

Vitamin D Fact Sheet 2010: Purdue Extension publication

2010, Vitamin D Videos: A series of 6 short videos to help consumers better understand the role of vitamin D in health.

* Are you getting enough vitamin D?

 <https://www.youtube.com/watch?v=YXgqC-mYQMc>

* How much vitamin D do you need?

 <https://www.youtube.com/watch?v=DeXPF2MmEkA>

* What factors affect the amount of vitamin D you need?

 <https://www.youtube.com/watch?v=1_2LFNF_A2M>

* Where can I get vitamin D?

 <https://www.youtube.com/watch?v=dAaEV9wgm-Y>

* Are vitamin D supplements safe?

 <https://www.youtube.com/watch?v=2cmJfIz3vh8>

2011, Technical editor and “fixer” for “Vitamin D for Dummies”, Wiley Press, 2011

 Rewrote the book for clarity and accuracy.

**Tufts Diet and Nutrition Letter**

January 1989, p. 1-2 Is organic the way to go?

 -an analysis of current nutritional claims for organic foods

April 1989 p. 7 'Pharmacy' dispenses a weak prescription.

 -a review of "The Food Pharmacy" by Jean Carper

June 1989 p. 6-7 Making heads or tails of what you read on nutrition.

 -guidelines on how to assess nutritional studies reported in

 the popular press

September 1989 p. 6 Do the hormones in meat make it unsafe?

October 1989 p. 8 Q&A on Fasting as a means of 'purification'

December 1989 p. 2 Exercise burns calories in more ways than one.

August 1990 p. 3-6 Special Report: Smart loser's guide to choosing a weight-loss program.

 -an assessment of 9 major weight loss programs

January 1991 p. 3 A different kind of open-heart procedure.

 -a review of "Dr. Dean Ornish's Program for Reversing Heart Disease."

March 1995 p. 1 Totally Misleading. Evidence that the micronutrients added to supplemented breakfast cereals may not be as available as company advertising suggests.

July 1995 p. Q&A on chromium picolinate as a supplement for weight loss and muscle building.

January 1996 p. Q&A on the role of genetic make-up in determining a person's nutritional needs.

September 1996 p. Does less really mean more? A discussion of caloric restriction, a fad diet which claims to make people live longer.

October 1997 p. Can you get the straight scoop on nutrition from your doctor? A

 consumers guide to getting the best nutrition service from your

 family doctor or HMO.

September 1998 p. Special report: Yet another study-Should you pay attention?

 Co-writer with Larry Lindner.

August 1999 Will boron supplements help you through menopause?

**Sources where I have been quoted or contacted as an expert.**

1. “Special Report: Might Americans be taking in too much iron?”, Acted as consultant. January 1993, Tufts University Health and Nutrition Letter, p 3.
2. “Don’t be flaky about nutrition.” Article on the fortification of breakfast cereals, September 1995, Cooking Light magazine, p 23.
3. “Saline solutions” Article on the role of salt intake on the risk of high blood pressure. December 1996, Men’s Health magazine, p 145.
4. Consulted with Lila Corn from WNBC radio in New York regarding the effectiveness of a diet patch, February 5, 1998.
5. “Screening for iron overload proposes for more people.” Article on screening for the disease hemochromatosis. February 1999, Tufts University Health and Nutrition Letter, p 3.
6. Quoted in articles appearing in the Ridgewood News and the Paramus Post Review written by Dr. Vincent Gludice on screening for iron overload. Feb. 7, 1999.
7. “Special Report: When (and how) to take your vitamin and mineral supplements.” March 1999, Tufts University Health and Nutrition Letter, p 4.
8. “Can too much protein cause bone loss?” Article on a controversial risk factor for osteoporosis., April 1999, Tufts University Health and Nutrition Letter, p 3.
9. “Breakfast and brightness: Researchers are finding that making time for morning meal pays dividends across the board.” Washington Post, June 29, 1999, page Z14.
10. Consulted with Liz Ward, Rodale Press, on information related to the role of excess consumption of protein on bone loss. May 18, 1999.
11. Consulted with Jennifer Kushnier, Rodale Press, on information related to the use of cranberry juice to prevent urinary tract infections. June 25, 1999.
12. “Minerals for better health”, Bottom Line (Newsletter with a circulation of 2 million readers), August 16, 1999.
13. Provided expert commentary to Alice Kelly from Glamor Magazine for article on “detoxification” and “purification” practices, (Article published in February, 2000).
14. Paid consultant on mineral supplementation and child bone health for Altus corporation, January 2001.
15. Quoted as an expert on calcium nutrition in the Tufts University Health and Nutrition Letter, November 2001.
16. Quoted as an expert on calcium and vitamin D nutrition in the Tufts University Health and Nutrition Letter, January 2002.
17. Quoted as an expert on dietary calcium supplements in the Tufts University Health and Nutrition Letter, July 2002.
18. Quoted in Science magazine in article on Vitamin D and health, December 2003
19. Quoted in American Medical News article (Susan J. Landers writer) on Vitamin D and Health, April 2004
20. Quoted in The Scientist regarding the dismissal of a scientist for his scientific views on Vitamin D and sunlight exposure (April 14, 2004).
21. Consultant for Environmental Health Perspectives News article on Vitamin D and Health May 2004
22. Quoted in the Tufts Health and Nutrition Letter in article on the use of calcium for weight loss, October 2004
23. Spoke with Susan Sheridan of the Daily Health News regarding the relationship between excess calcium intake and prostate cancer, December 2004
24. Interviewed on ABC World News Tonight for a story on Nutrigenomics, April 2005
25. Interviewed for “Healthy Lifestyles and Spas” Magazine by Elizabeth Casey, Sept 2007.
26. Scientist article on skin and vitamin D
27. ABC news interview on new pediatric vitamin D requirements
28. AICR Newsletter, Fall 2009, Prostate Cancer: Next Steps for Research.
29. LA Times article on Vitamin D requirements, August 2009.
30. Lafayette Journal and Courier, Article on Vitamin D requirements, November, 2010.
31. News Channel 18, Lafayette, IN, story on Vitamin D requirements, November, 2010.
32. News Channel 6, Indianapolis, IN, story on Vitamin D requirements, November, 2010.
33. Video Profile for the Purdue University Center for Cancer Research <https://www.youtube.com/watch?v=XSuRDElk71I>, 2013.
34. Scientist in the Spotlight video for AICR regarding the importance of nutrition in tumor immunity. <https://www.youtube.com/watch?v=EXtNlrvajVc> , 2018.
35. American Institute for Cancer Research (AICR) “Thank you for making a difference…..” promotional note. Spring 2019
36. Interviewed for the AICR Spring Newsletter regarding my AICR grant on vitamin D and immunotherapy. Spring 2019.
37. Interviewed for Washington Post article on whether vitamin D is an over-rated nutrient. “Don’t throw away your vitamin D supplements yet.” April 2, 2019 <https://www.washingtonpost.com/lifestyle/wellness/dont-throw-away-your-vitamin-d-supplements-yet/2019/04/01/56c0961c-4c13-11e9-b79a-961983b7e0cd_story.html?noredirect=on>
38. Quoted as a expert (and consulted on several fact checking issues for the article) in Insider, “6 healthy foods rich in vitamin D and easy ways to incorporate them into your diet.” By Ashley Lyles, Sept 4, 2020 <https://www.insider.com/what-foods-have-vitamin-d>

**STUDENT, STAFF, AND POST-DOCTORAL TRAINING**

1. **Undergraduate Students Mentored (30):**
2. **Purdue University (29)**
	1. Justin Casterline, Department of Biology, 9/2001 to 12/2002
	2. Elizabeth Clarke, Department of Biology, 1/2003 to 9/2003
		1. Howard Hughes Summer Scholar
	3. April Stull, MARC/AIM summer intern, summer 2005
	4. Alissia Gaulden, MARC/AIM summer intern, summer 2006
	5. Nick Anderson, Department of Biology, 8/2007-5/2008
	6. Heather Giaconne, Department of Biology Honors student, 1/2007-5/2010
		1. Medical School
	7. Alexandria Arges, Department of Foods and Nutrition Honors student, 1/2008-5/2010
	8. Jingmeng Xie, Dept. of Food Science, 1/2010-12/2010.
		1. MPH Program
	9. Nate Windsor, Department of Biology, 1/2011-12/2011.
	10. Hector Ochoa, Dept. of Foods and Nutrition, 1/2010-12/2011.
	11. Xu Lan, Dept. of Nutrition Science Honors student, 1/2011-4/2013
		1. PhD program, Cornell University
	12. Jeff Rytlewski, Indiana University Biochemistry major, Summer 2011, 2012
		1. Medical School, Indiana University School of Medicine
	13. Shu Hwang Ang, University of Wisconsin Nutrition Science major, Summer 2012
	14. Kelsey Jo Cummins, Department of Biochemistry, Fall 2012
	15. Helen Kuo, Department of Nutrition Science, Spring 2013-2016
		1. PhD program, Scripps Research Institute, San Diego CA
	16. Alisa Strumpf, Department of Animal Sciences, Spring 2013-Summer 2014
		1. Veterinary School, Purdue University
	17. Caolin Smith, Department of Biochemistry, Spring 2013
	18. Sarah Mace Spring 2014-2016
		1. Honors degree
	19. Abby Dilk Spring 2014
	20. Megan Sullivan, Fall 2014-Spring 2015
	21. Bethany Weldon, Fall 2015
	22. Caitlyn Green, Summer 2016-Spring 2017
		1. LSAMP program participant
		2. Second degree nursing program, Johns Hopkins University
	23. Chandler Dykstra, Spring 2017
	24. Ananya Tadikonda, Spring, Fall 2018
	25. Allison Zajikala, Spring, Fall 2018-Fall 2020
		1. Accepted to Physician Assistant Program (University of Evansville)
	26. Brittany James, Fall 2018-Spring 2019
	27. Omozafe Udegbe, Fall 2018
		1. LSAMP program participant
	28. Kelsey Farris, Spring 2019-Fall 2020
		1. Accepted to Indiana University School of Medicine
	29. Brandon Flisk, Spring 2019
3. **University of Texas at Austin (2)**
	1. Vivian Quinlan, Fall 2021-present
	2. Joseph Sheeran, Summer 2022
4. **Graduate Students Mentored (29 primary 57 other committees):**
	1. Current Students (Acting as advisor, 2)

1. Natalie Watkins, 2nd year MS student (entered Fall 2021)

 2 abstracts

 *2022 Young investigator award, 24th Vitamin D Workshop ($500)*

 *2022 Young investigator award, ASBMR meeting ($1000)*

2. Yujin Lee, 1st year PhD student (entered Fall 2022)

b. Past Students (Acting as advisor, 27, 20 completed)

* + - 1. **Heng Jiang**, PhD student (2017-2021)

2 abstracts

1 published manuscript (2019)

1 manuscript in preparation

***2019 Plenary Poster, 22nd International Vitamin D Conference, New York City***

***2020 Plenary Poster, 2020 ASBMR meeting***

1. ***ASBMR/Endocrine Fellows Forum on Metabolic Bone Diseases Scholarship***

Current Position: Post-doctoral research scientist, University of Texas at Austin

1. **Krittikan Chanpaisaeng**, PhD student (2015-2019)

5 abstracts

2 manuscripts published

3 manuscript in preparation

***2016 Scholarship to the North Carolina Nutrigenomics Conference***

***2016 HHS Compton Graduate Student Training Travel award***

***2017 ASN Emerging Leaders Poster Award winner (Nutrient-Gene Interactions RIS)***

***2017 ASBMR/Endocrine Fellows Forum on Metabolic Bone Diseases Scholarship***

***2018 Plenary Poster at the ASBMR meeting***

***2018 ASBMR Young Investigator Travel Award***

***2018 ASBMR/Endocrine Fellows Forum on Metabolic Bone Diseases Scholarship***

***2019 Scholarship winner, University of Washington Summer Institute in Statistical Genetics***

Current Position: Staff Scientist, Institute of Food Research and Product Development, Bangkok, Thailand.

1. **Ryan Calvert**, PhD student (2014-2019)

3 abstracts

1 published conference proceeding

1 published paper

1 manuscripts in review (2022)

*2017 ASN Graduate Student Research Competition winner*

*2017 ASN Emerging Leaders Poster Award winner (Nutritional Immunology RIS)*

Current Position: University Instructor

1. **Audrey Goldbaum**, PhD student (entered 2016, withdrew from lab in March 2018)
2. ***Andrews Fellowship*** (2 years for incoming students)
3. **Heng Jiang**, MS student (2015-2017)

Current Position: Post-doctoral Scientist, University of Texas at Austin

1. **Fa Wang**, PhD student, INP (2011-2016)

5 abstracts, 2 published manuscripts

***2013 CPIP Cancer Prevention Fellow (Purdue University)***

***2014 Poster of Distinction, DDW Meeting 2014***

***2016 2nd place, Purdue 3 minute thesis competition***

***2016 HHS Compton Graduate Student Research Travel award***

Current Position: Post-doctoral fellow, University of Michigan, Ann Arbor, MI.

1. **Perla Reyes-Fernandez**, PhD student, INP (2010-2015)

7 abstracts, 4 published manuscripts, 1 in preparation

***2013 Summer Institute of Statistical Genetics Scholarship (Tuition + $450 for travel)***

***2013 ASBMR Fellows Forum on Metabolic Bone Diseases Scholarship***

***2013 ASMBR Young Investigator Travel Award ($1000)***

***2014 Mexican National Government Fellowship ($17,500) CONyCT***

***2014 INP Poster Session ($500 travel award)***

***2014 Charles Turner Young Investigator Award ($1200 Travel + fee waiver)***

***2014 Trainee Travel Award Vitamin D Workshop ($500)***

Current Position: Post-doctoral fellow, Indiana University School of Medicine, Indianapolis, IN.

1. **Alexandra Kostaras**, PhD student, INP (2013, withdrew for personal reasons after first year)
2. **Rebecca (McCreedy) Replogle**, PhD student, INP (2008-2013)

11 abstracts, 1 published review, 4 manuscripts

***2011 ILSI Policy and Research Student Summit, Washington DC***

***2012 INP Poster Session Award Winner (Purdue University, $500)***

***2012 ASN Student RIS Travel Grant (1 of three chosen from over 60 applications)***

***2012 USDA competitive graduate fellowship (Nationally competitive)***

***\**** Current employer: PepsiCo, Chicago, IL (January 2014)

1. **Robert Johnson, DVM, (Comparative Pathobiology, Purdue)** (2009-2012)

3 abstracts, 5 research papers, 1 review

***2009, Awarded Abbott Laboratories PhD fellowship.***

***\**** Current employer: Research Veterinarian, Eli Lilly and Company

1. **Yan Li, PhD (INP, Purdue)** (2007-2012)

3 abstracts, 1 published paper

***2009, Awarded an “Interdisciplinary Cancer Prevention Research Internship” from the Oncological Sciences Center at Purdue University***

***2010, Awarded PRF fellowship from Purdue Center for Cancer Research***

\* Current Position: Biostatistician, Sunovian Pharmaceuticals

1. **Marsha DeSmet, PhD, (Pulse, Purdue)** (2006-2012)

4 abstracts, 6 published papers (1 as DeWitt), 1 review

***2010, Awarded an “Interdisciplinary Cancer Prevention Research Internship” from the Oncological Sciences Center at Purdue University***

***2010 Abstract selected for oral presentation at*** ***AACR Special Conference, Colorectal Cancer: Biology to Therapy, Philadelphia, PA***

***2011 Sigma Xi Graduate Student Poster Competition winner in the Life Sciences division (Purdue University)***

***2011 Cancer Prevention and Control Poster Session winner, Graduate Division. (Purdue University)***

\* Current Position: Assistant Research Professor, Department of Dermatology, Indiana University School of Medicine,

1. **Andrew Potter, PhD student, INP, withdrew from program after first year.**

(2010 academic year)

1. **Ryan Schoch, PhD student, INP, withdrew from program in 3rd year.**

(2008-2010)

2 abstracts, 2 reviews

\* Current Position: Clinical Project Management, Cook Research Incorporated

1. **Yan Jiang, PhD, (INP, Purdue)** (2007-2011)

2 abstracts, 3 research papers

***Finalist, 2008 Proctor and Gamble Student Research Competition for the American Society for Nutrition Meeting at Experimental Biology 2007.***

\*Current Position: Graduate student in Business Analytics

1. **Pavlo Kovalenko, PhD, (INP, Purdue)** (2004-2009)

4 abstracts, 4 research papers

***2009, Kraft ASN Predoctoral Fellowship Award Winner from the American Society for Nutrition***

***\**** Current Position: Study Director and Veterinarian, Toxikon Corporation, Bedford MA

1. **Zhentao Zhang, PhD, (INP, Purdue)** (2002-2007)

5 abstracts, 3 research papers, 2 manuscripts in preparation

***2006, Awarded a research fellowship from the Purdue Cancer Center.***

***Finalist, 2007 Proctor and Gamble Student Research Competition for the American Society for Nutrition Meeting at Experimental Biology 2007.***

\* Current Position: Private Practice as Oncologist, Fort Wayne, IN

1. **Anna Klopot, Ph.D. (INP, Purdue)** (2001-2006)

10 abstracts, 3 research papers

\* Current Position: Research Associate, Northwestern University, Chicago, IL

1. **Christy Gliniak**, MS, **Did not finish degree due to health reasons (INP).**

(2003-2005)

4 abstracts, 2 research papers

\* Current Position: Post-doctoral scientist, University of Texas Southwestern Medical Center, Dallas, TX.

1. **Jie Hong, M.S. (INP, Purdue)** (2001-2004)

1 abstract, 1 review

1. **Yurong Song, Ph.D., (INP, Purdue)**(1998-2003)

9 abstracts, 4 research papers

***\* Finalists, 2001 Proctor and Gamble Student Research Competition for the American Society for Nutrition Meeting at Experimental Biology 2001.***

\* Current Position: Scientist/Project Manager in Leidos Biomedical Research, Inc.

1. **Liyong Wang, Ph.D., (INP, Purdue)**(1997-2002)

9 abstracts, 2 research papers

Current position: Research Associate Professor, University of Miami Medical School

1. **Ken Hance, Ph.D., (INP, Purdue)**(1997-2002)

6 abstracts, 3 research papers

***\* Finalists,1999 and 2000 Proctor and Gamble Student Research Competition for the American Society for Nutrition Meeting at Experimental Biology.***

\* Recipient of a National Cancer Institute, Cancer Prevention Fellowship (15 selected from 85 applicants). Fellowship started July 2002.

\* Current position: Director, Antibody Therapies, Immuno-Oncology & Combinations Discovery Performance Unit at GlaxoSmithKline.

1. **Faria Eksir, completion of M.S. ( UNC-Greensboro)**(1998-2000)

2 abstracts, 1 research paper

\* Current position: Pharmacist, Dallas/Fort Worth, TX

1. **Jayong Chung, completed Ph.D. at Tufts University, 2001**

Note: I mentored Jayong for her first year at Tufts University. She chose to stay at Tufts when I moved to UNCG.

Current position: Associate Professor, Kyung Hee University, South Korea

1. **Andrew Shao, Ph.D., completion of the Ph.D. from Tufts University, Dec. 1999.**

Note: Andrew was my student at Tufts University prior to my move to UNCG. He started with me in the Fall of 1995. I mentored Andrew Shao from UNC-Greensboro between Aug. 1997 and his graduation data (3 visits to Boston per year required).

\* 6 abstracts, 1 research paper

***\* Recipient of the 1999 Hershey Food Corp. Predoctoral Fellowship from the American Society for Nutrition***

\* Current Position: Senior Vice President, Global Regulatory and Scientific Affairs, ChromaDex Corp., Los Angeles, CA

1. **Randal Foster, M.S. Did not finish degree due to health reasons (1999-2001).**

\* Switched mentors when I moved to Purdue University

 \* 1 abstract

**c. Member of committees of the following graduate students: (58)**

i. University of Texas at Austin Dissertation (2)

*Note: all of these committees include service on the PhD preliminary examination committee.*

* + - 1. Lavender Hackman, PhD. Dept. of Nutritional Science (2021-present)
			2. Chelsea Friedman, PhD, Translational Science Program (2021-present)

ii. Purdue University PhD Dissertation/MS Thesis (42 total, 34/8)

*Note: all of these committees include service on the PhD preliminary examination committee.*

1. Srishti Chakravorty, PhD, Dept. of Biochemistry (2017-2019)
2. Robert Bergia, PhD, Dept. of Nutrition Science (completed 2020)
3. Patrick Scheickert, PhD, Dept of Biology (completed 2020)
4. Christy Cooper, PhD, Department of Basic Medical Sciences, (2014-2017)
5. Elizabeth Strempke, PhD, Dept. of Nutrition Science (2015-2018)
6. Colby Vorland, PhD, PhD, Dept. of Nutrition Science (2013-2018)
7. Shaminie Athinarayanan, PhD candidate, PULse (completed 2017)
8. Shao Chen, PhD candidate, PULse (completed 2017)
9. Jia Li, PhD candidate, Dept. of Nutrition Science (completed 2017)
10. Christian Wright, PhD candidate, Dept. of Nutrition Science (competed 2017)
11. Cansu Cimen, PhD. candidate, PULSe (completed 2015)
12. Hsing-Hui Wang, Ph.D. candidate, PULSe (completed 2015)
13. Breanne Wright, MS candidate, Dept. of Nutrition Science (completed 2014)
14. Grant Burcham, PhD candidate, Dept. of Comparative Pathobiology (completed 2014)
15. Emily Hohman, PhD. candidate, Dept. of Nutrition Science (completed 2014)
16. Libo Wang, Ph.D. candidate, Dept. of Statistics (completed 2014)
17. James Hengenius, Ph.D. candidate, PULSe (completed 2014)
18. Juhae Kim, PhD candidate, Dept. of Nutrition Science (2012-2013)
19. Reem Malek, Ph.D. candidate, PULSe (completed 2013)
20. Mary Ann Honors, Ph.D. candidate, Department of Psychology (completed 2012)
21. Darcey Barbem MS candidate, PULSe (completed 2012)
22. Blaire Aldridge, Ph.D. candidate, Dept. of Animal Sciences (completed 2012)
23. Melissa Grindle, M.S. candidate, INP (2010-11)
24. Vanessa Kobza, M.S. candidate, Dept. of Foods and Nutrition (completed 2011)
25. Chris Suarez, Ph.D. candidate, Dept. of Medicinal Chemistry and Molecular Pharmacology (completed 2012)
26. Michael Logan, Ph.D. candidate, Dept. of Biology (completed 2012)
27. LeeCole Legette, Ph.D. candidate, Dept. of Food Science (completed 2010)
28. Clara Park, Ph.D. candidate, Dept. of Foods and Nutrition (completed 2011)
29. Katie Hill, Ph.D. candidate, Dept. of Foods and Nutrition (completed 2010)
30. Mi Zou, M.S. candidate, INP and Department of Animal Sciences (completed 2010)
31. Yan Sun, Ph.D. candidate, Dept. of Biology (completed 2010)
32. Thomas DeLuca, Ph.D. candidate, Dept. of Foods and Nutrition (completed 2009)
33. Vanessa Kane, M.S. degree, Dept. of Foods and Nutrition (completed 2008)
34. Shamim Siddique, M.S. candidate, Dept. of Foods and Nutrition (completed 2008)
35. Emily Rickert, Ph.D. candidate, Dept. of Medicinal Chemistry and Molecular Pharmacology (completed 2008)
36. Jia Li, Ph.D. degree, Dept. of Foods and Nutrition (completed 2007)
37. Anna Thalaker, Ph.D. degree, Dept. of Foods and Nutrition (completed 2007)
38. Kari Saddoris, Ph.D. degree, Dept. of Animal Sciences (completed 2007)
39. Jennifer Cheong, Ph.D. degree, Dept. of Foods and Nutrition (completed 2005)
40. Yongdong Zhao, Ph.D. degree, Dept. of Foods and Nutrition (completed 2005)
41. Linara Anaxova, M.S. degree, Dept. of Foods and Nutrition (completed 2004)
42. Melissa Schreiweis, Ph.D. degree, Dept. of Animal Sciences (completed 2004)

iii. Purdue University Examination Commitees (7)

1. Shaminie Athinarayanan, PhD candidate, PULse (2014, chair)
2. Hyeon Jeong Lee, PhD candidate, PULse (2014, chair)
3. Maria Movefegh, Ph.D. candidate, PULse
4. Heather Hutchens, Ph.D. candidate, PULSe
5. Kimberly Jordan Ph.D. candidate, Dept. of Biology
6. Hsing-Hui Wang,, Ph.D. candidate, PULSe
7. James Hengenius, Ph.D. candidate, PULSe

iv. UNC-Greensboro (4)

* 1. Melissa Kelly, Ph.D. degree, completed 1999
	2. Yuan-ji Pan, M.S. degree, completed 1999
	3. Jing Xu, Ph.D. degree, completed 2000
	4. Harold Richards, Ph.D., completed., 2002

v. Tufts University (4)

* 1. Shveta Taparia, Ph.D. degree, completed 2004.
	2. Elmi Tizbaduiza, Ph.D. degree, completed 1999
	3. Kerry Quinn, Ph.D. degree completed 1994
	4. Loran Salamone, Ph.D. completed 1995
1. **Post-Doctoral Associates Mentored (6):**
	* + 1. Kevin Cashman, Ph.D. (1995-1996)

\* 2 articles, 1 book chapter published

\* Current position: Professor of Food and Nutrition, Department of Food and

Nutritional Sciences University College Cork, Ireland.

* + - 1. Yan Zhao, Ph.D. (2004-2005)

\* 1 article published

\* Current position: unknown

* + - 1. Yingben Xue, Ph.D. (2005-2009)

\* 3 articles published

\* Current position: Lab Manager, Lagace Lab, University of Ottawa, Canada

* + - 1. Min Cui, Ph.D. (2005–2010)

\* 5 articles published

\* Current position: Pathology Resident, Case Western Research School of Medicine, Cleveland, OH

* + - 1. Qiang Li, Ph.D. (2010-2012)

\* 2 articles published

\* Current position: Veterinarian, Fort Wayne IN

6. Heng Jiang, PhD. (2021-2022)

 \* 1 article in preparation

\* A.W. Norman post-doctoral award winner, 2021, Keystone eSymposium

1. **Research Staff (11)**
	* + 1. Tanya Lodics, Ph.D. (2000-2002)

\* Current position: unknown.

* 1. Candace Langdoc (2001-2003)

\* Veterinary Student, Ross School of Veterinary Medicine;

\* Current position: practicing veterinarian

* 1. April Scott (2003-2004)

\* Medical Student, Indiana University School of Medicine;

\* Current position: practicing physician

* 1. Kate Barzan (2004-2006)

 \* Obtained PhD at UCLA;

\* Current position Sponsored Programs Officer, Ohio State University

* 1. Rebecca McCreedy Replogle (2006-2009)

\* Obtained PhD from Purdue,

\* Current position: PhD level scientist, Pepsico, Chicago, IL

* 1. Bernardine Frankel (2009-2010)

\* Last known position: Lab animal program office, University of Washington

* 1. Kristen Wilde (2009-2011)

\* Medical Student, Indiana University School of Medicine;

\* Current position: practicing physician, Indiana

* 1. John Replogle (2011-2014)

\* MS Student, Erickson School of Social Work, Chicago, IL

\* Current position: Social Worker, Chicago, IL

9. Sean Courtney, PhD. (2018-2019)

\* Current position: Office of Compliance, Purdue University, West Lafayette, IN

10. Kennedy Deaver (2021-2023)

11. Serra Ozgurel, PhD (2021-present)

\* 2 articles in preparation