

Ryan D. Calvert, PhD

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Education

Purdue University, West Lafayette, IN

Ph.D. in Biochemical & Molecular Nutrition, concentration in Cancer Immunology, May 2019

Whitman College, Walla Walla, WA

B.A. in Biochemistry, Biophysics, and Molecular Biology, May 2014

Walla Walla Community College, Walla Walla, WA

A.A.S., May 2012

Postdoctoral Training

Purdue University, West Lafayette, IN

Postdoctoral Researcher, 2019–2020

Proteomics and bioinformatics of saliva and flavor

Academic Appointments

Kansas State University

Instructor in Food and Nutrition, 2026-present

Tabor College

Assistant Professor, 2021–2026

Bethel College

Adjunct Professor, Fall 2024

Purdue University

Limited Term Lecturer, 2019–2020

Purdue University

Teaching Assistant / Lab Instructor, 2017–2019

Whitman College

Undergraduate Teaching Assistant, 2012–2014

Courses Taught

Kansas State University: Introduction to Health Science (HLTSC100), Personal Wellness (FNDH252), Life Span Nutrition (FNDH510)

Tabor College: Human Anatomy (BI217); Human Physiology (BI317); Immunology (BI403); College Biology (BI110); Genetics (BI328); Medical Terminology (BI301); Nature Studies (BI315); Principles of Nutrition (NS230/NS330); Research Design and Analysis (NS202); Science Seminar (NS219, NS319); Independent Student Research (NS420); Internships (NS440); Introduction to Computer Programming and Problem Solving: Python (CS250/CS201)

Bethel College: General Biology (BIO140), distance learning

Purdue University: Essentials of Nutrition (NUTR 303), distance learning; Fundamentals of Nutrition (NUTR 315), distance learning; Food Chemistry (NUTR 45300), co-instructor; Physiology and Nutrition Through the Life Cycle (NUTR 36500), co-instructor; Nutritional Assessment (NUTR 436), Lab instructor.

Whitman College: General Chemistry (CHEM 125–126); Chemistry of Art (CHEM 102)

Publications

Peer-Reviewed Journal Articles

Calvert RD, Fleet JC, Fournier PGJ, Juarez P, Burcham GN, Haverkamp JM, Guise TA, Ratliff TL, Elzey BD. Monocytic Myeloid-Derived Suppressor Cells from Tumor Tissue Are a Differentiated Cell with Limited Fate Plasticity. *ImmunoHorizons*. 2022 Dec 1;6(12):790–806. doi: 10.4049/immunohorizons.2200079. PMID: 36480485.

Calvert RD, Crawford CR, Running CA. The prevalence of improper solution-making technique places molar solutions in crisis. *Journal of Food Science Education*. 2020;19(3):183–191.

Fleet JC, Burcham GN, **Calvert RD**, Elzey BD, Ratliff TL. $1\alpha,25$ Dihydroxyvitamin D ($1,25(\text{OH})_2\text{D}$) Inhibits the T Cell Suppressive Function of Myeloid Derived Suppressor Cells (MDSC). *Journal of Steroid Biochemistry and Molecular Biology*. 2020;198:105557. <https://doi.org/10.1016/j.jsbmb.2019.105557>

Conference Proceedings

Chen Y, **Calvert RD**, Azad A, Rajwa B, Fleet J, Ratliff T, Pothan A. Phenotyping Immune Cells in Tumor and Healthy Tissue Using Flow Cytometry Data. *Proceedings of the 2018 ACM International Conference on Bioinformatics, Computational Biology, and Health Informatics*.

Open Educational Resources / Teaching Materials

Calvert RD, Andolino CJ, Running C. *Food Chemistry: Experiments for Labs and Kitchens*. Department of Nutrition Science Open Educational Resources. 2020. Paper 1. <https://docs.lib.purdue.edu/fnoer/1>

Other Professional Publications

Calvert R, Allsopp M. The Early Bird Gets the Feedback: Lessons Learned from First-Time Instructors Following Formative Student Evaluations. *NDEP-Line* Summer 2021 Newsletter, 9–18.

Presentations

Oral Presentations

Calvert R, Allsopp M. The Early Bird Gets the Feedback: Lessons Learned from First-Time Instructors Following Formative Student Evaluations. Lilly Conference: Designing Effective Teaching. 2019, Bethesda, MD.

Allsopp M, **Calvert R**. Media: A Must for Making Meaningful Memories for Millennials! Lilly Conference: Designing Effective Teaching. 2019, Bethesda, MD.

Calvert RD, Burcham GN, Ratliff TL, Fleet JC. Myeloid Derived Suppressor Cells (MDSC) Are Vitamin D Targets and $1\alpha,25$ Dihydroxyvitamin D ($1,25(\text{OH})_2\text{D}$) Inhibits their Ability to Suppress T Cell Function. Experimental Biology: American Society of Nutrition, Graduate Student Research Award Oral Competition, 2017.

Calvert RD, Burcham GN, Ratliff TL, Fleet JC. Myeloid Derived Suppressor Cells (MDSC) Are Vitamin D Targets and $1\alpha,25$ Dihydroxyvitamin D ($1,25(\text{OH})_2\text{D}$) Inhibits their Ability to Suppress T Cell Function. Experimental Biology: American Society of Nutrition, Immunology and Inflammation Research Interest Group Session, 2017.

Selected Poster Presentations

Wiens A, **Calvert R**. Avian Abundance and Seasonal Dynamics: A 2-Year Study of Collecting Bird Species Abundance and Population during Seasonal Changes at the Marion Reservoir. Poster presentation at the 157th Annual Meeting of the Kansas Academy of Science, Friends University, 4–5 Apr. 2025.

Nash C, **Calvert R**. Causes of White-Tailed Deer Movement in Southeast Kansas. Poster presentation at the 156th Annual Meeting of the Kansas Academy of Science, Emporia State University, 5–6 Apr. 2024.

Lowrie J, **Calvert R**. Student Perspectives on Virtual Reality as an Alternative to Traditional Learning Methods. Poster presentation at the 156th Annual Meeting of the Kansas Academy of Science, Emporia State University, 5–6 Apr. 2024. Student won 2nd place for undergraduate research.

Savage L, **Calvert R**. Dietary Effect on Meat Tenderness Genes Calpain and Calpastatin (Progress Report). Poster presentation at the 156th Annual Meeting of the Kansas Academy of Science, Emporia State University, 5–6 Apr. 2024. Calvert presented for the student.

Fleet JC, Burcham GN, **Calvert R**, Ratliff TL. $1\alpha,25$ dihydroxyvitamin D ($1,25(\text{OH})_2\text{D}$) inhibits the T cell suppressive function of myeloid derived suppressor cells (MDSC) [abstract]. In: Proceedings of the American Association for Cancer Research Annual Meeting 2019; 2019 Mar 29–Apr 3; Atlanta, GA. *Cancer Research*. 2019;79(13 Suppl): Abstract nr 2364.

Calvert R, Andoline C, Running C. Thinking outside the bench: Teaching chemistry of foods in kitchens. Institute of Food Technology conference, 2019.

Cladis D, Andoline C, **Calvert R**, Running C. Demonstrating protein functionality in foods: an innovative teaching lab for students in any setting. Institute of Food Technology conference, 2019.

Andoline C, **Calvert R**, Running C. A teaching laboratory on the physical and chemical properties of sweeteners. Institute of Food Technology conference, 2019.

Calvert R, Andoline C, Running C. Thinking outside the bench: Teaching chemistry of foods in kitchens. Purdue University, Transforming Education for Student Success Conference, 2019.

Grants and Funding

Tabor College Hope Scholarships for Independent Student Research across multiple students and projects, approximately \$19,000.

Student Mentoring and Research Supervision

Undergraduate students for research, 2021–Present

New graduate teaching assistants for NUTR 36500, Spring 2019

New graduate TAs for NUTR 453, Fall 2017 and 2019

Incoming graduate students in research laboratory (4 students), 2015–2018

Fellow graduate students in teaching certificate opportunities at Purdue, 2016–2019

Undergraduate students in research laboratory (4 students), 2014–2018

Service

Institutional Service

Enrollment Management Committee, 2024–2025

Teacher Education Committee, 2023–Present

Student Appeals Committee, 2025–Present

Solomon Lowen Natural Science Center Greenhouse Repair Project, 2025–Present

Science Club Faculty Advisor, 2024–Present

Professional Service

Alpha Epsilon Delta: National Honor Society for Health Pre-Professionals, District 2 Director, 2026–Present

American Society for Nutrition, Meeting Abstract Reviewer, 2023–Present

Journal of the Scholarship of Teaching and Learning, Reviewer, 2021–Present

Community and Public Engagement

Kansas University Cancer Center Patient and Family Advisory Council, 2024–Present

Mennonite Brethren Southern District Kids Camp, Science Activities Instructor, 2024–Present

Honors and Awards

NSTA Preservice and New Teacher Scholarship, Fall 2023

Teaching Academy Graduate Teaching Award, April 2019

American Society for Nutrition Emerging Leaders, Poster Competition, April 2017

American Society for Nutrition Graduate Student Research Award, Oral Competition, April 2017

Professional Development

Bio-Rad Biotechnology Instructor Workshop (1 week), Summer 2025

National Science Teaching Association Conference, Fall 2023

IMPACT X program, Purdue University, Spring 2020

College Teaching Workshops Series I, Purdue University, Spring 2017

Advanced Graduate Teaching Certificate program, Purdue University, 2017–2019

Professional Memberships

American Association of Anatomists, 2022–Present

Kansas Academy of Science, 2021–Present

Human Anatomy and Physiology Society, 2022–Present

American Society of Nutrition, 2021–Present

American Association of Cancer Research, 2018–Present

Additional Academic and Technical Experience

Senior Lab Technician, Notre Dame, 2020–2021

Lab Preparations Assistant, Biology Department, Whitman College, 2013–2014