

KEVIN FASSBINDER



ASSOCIATE PROFESSOR OF BIOLOGY

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Dedicated and passionate Associate Professor of Biology with over 10 years of experience in higher education, seeking to contribute expertise in molecular biology and genetics to a dynamic academic institution. Committed to fostering student learning, conducting innovative research, and collaborating with colleagues to advance scientific knowledge.

EXPERIENCE

2019 - Now

Associate Professor of
Biology

University of Mary Washington / Fredericksburg, VA

- Teach undergraduate and graduate courses in molecular biology, genetics, and bioinformatics, consistently receiving positive evaluations from students.
- Mentor and advise undergraduate and graduate students in research projects, resulting in several publications and presentations at national conferences.
- Lead a research laboratory focused on understanding the molecular mechanisms underlying genetic diseases, securing over 0,000 in grant funding from prestigious agencies such as the National Institutes of Health (NIH).
- Collaborate with interdisciplinary teams of researchers on projects related to cancer biology, genomics, and biotechnology.
- Serve on various departmental and university committees, including the Curriculum Committee and the Institutional Review Board (IRB).

2014 - 2019

Assistant Professor of
Biology

University of Mary Washington / Fredericksburg, VA

- Developed and taught undergraduate courses in genetics, cell biology, and biotechnology, integrating innovative teaching methods and technologies to enhance student engagement and learning outcomes.
- Supervised undergraduate research projects and guided students in presenting their findings at local and regional scientific meetings.
- Established collaborations with local biotechnology companies to provide students with hands-on experience through internships and research opportunities.
- Conducted research in molecular genetics, publishing findings in peer-reviewed journals and securing external funding to support laboratory operations.

2010 - 2014

Teaching Assistant,
Department of Biology

George Mason University / Fairfax, VA

- Assisted faculty in teaching undergraduate laboratory courses in molecular biology, genetics, and microbiology, providing guidance to students on laboratory techniques and experimental design.
- Graded assignments, exams, and laboratory reports, providing constructive feedback to students to help them improve their understanding of course material.
- Held regular office hours to provide additional support and assistance to students outside of class.

Research Assistant,
Laboratory of
Molecular Biology

Emory University / Atlanta, GA

- Conducted experiments investigating the role of specific genes in cellular differentiation and development using molecular biology techniques such as PCR, cloning, and gene expression analysis.
- Maintained laboratory equipment and reagents, ensuring proper functioning and availability for experiments.
- Analyzed experimental data and prepared figures and graphs for publication in scientific journals.

EDUCATION

2010 - 2014

George Mason University / Fairfax, VA

Doctor of Philosophy
(Ph.D.) in Biology

2008 - 2010

Emory University / Atlanta, GA

Master of Science (M.S.)
in Molecular Biology

2004 - 2008

Georgia State University / Atlanta, GA

Bachelor of Science
(B.S.) in Biology

SKILLS

Molecular biology techniques (PCR,
DNA sequencing, etc.)

Expert

Bioinformatics and data analysis

Expert

Grant writing and project
management experience

Expert

Gene expression analysis

Expert

PUBLICATIONS

1. Fassbinder, K. (2022). "Genetic Dissection of Complex Traits: Integrating GWAS and Functional Genomics Approaches." *Genetics Journal*, 15(2), 75-88.
2. Fassbinder, K. & Smith, J. (2017). "Unlocking the Secrets of Chromatin Remodeling: Insights from Functional Genomics." *Biotechnology Advances*, 10(4), 200-215.
3. Fassbinder, K., & Smith, J. (2010). "Bioprospecting Extreme Environments: Unveiling Novel Enzymes for Industrial Applications." *Journal of Molecular Biology*, 25(3), 123-135.

PROFESSIONAL MEMBERSHIP

- American Society for Biochemistry and Molecular Biology (ASBMB) | Since 2010
- American Association for the Advancement of Science (AAAS) | Since 2007