

Graham Moran

Professor

Webpage

Statement of Interest

I have been a member of ASBMB for more than twenty years. I see membership of the nominating committee as a means to maintain strengths and influence the future direction of the society. I have been an independent researcher for 25 years, a Department Chair at the University of Wisconsin-Milwaukee, Department of Chemistry and Biochemistry and now occupy the Carl Moore Research Chair position at Loyola University Chicago Department of Chemistry and Biochemistry.

My laboratory studies enzyme mechanism using primarily transient state methods. While, we have studied many systems with relevance to medicine or agriculture, our activities center around fundamental questions and the attempt to understand enzymatic catalysis through the comprehensive understanding of the chemical mechanism sequence.

I have a strong belief in participation and directing energy toward one's convictions with purpose, openness and optimism. I feel have been fortunate to pursue this career on my own terms and have enjoyed ostensibly every minute of it. As such giving back has always seemed warranted, and I take opportunities to contribute as they arise. I don't care much for pedigree, the latest hoopla or pretense. I would assert that capable and curious scientists can be found within all echelons of the academy or industry. So as a nominating committee member I would be interested in ASBMB leadership continuing to be representative of the breadth of the society's members.

Education and Training

- 1996-1999 Postdoctoral Researcher Project: Tryptophan Hydroxylase Texas A&M University, College Station, TX in the laboratory of Professor Paul Fitzpatrick
- 1992-1995 Doctor of Philosophy 1
- 1996 - Enzyme Chemistry Project: Expression and Mechanistic Studies of Mutants of paraHydroxybenzoate Hydroxylase
- 1994-1995, The University of Michigan, Ann Arbor, MI under Professor David P. Ballou and Professor Barrie Entsch
- 1992-1993, The University of New England, N.S.W., Australia under Professor Barrie Entsch
- 1991-1992 Honors (1st Class)- Natural Product Chemistry The University of New England, Armidale, New South Wales, Australia Project: NMR Structural Elucidation of Cyanobacterial Hepatotoxic Molecules under Professor Ian Falconer and Doctor David Tucker.
- 1987-1991 Bachelor of Science - Majors in Biochemistry and Organic Chemistry The University of New England, New South Wales, Australia

Awards and Honors

- First class honors in Chemistry and Biochemistry, 1992
- UWM Foundation and Graduate School Award for Excellence in Research, 2003.

ASBMB 2026 Election: Nominating Committee Candidate

- Graduate School Research Committee Award 2002
- Selected Chair of 32nd Midwest Enzyme Chemistry Conference, Oct 2012.
- Elected Vice Chair Enzymes Coenzymes and Metabolic Pathways Gordon Research Conference 2016.
- Elected Co-Chair Enzymes Coenzymes and Metabolic Pathways Gordon Research Conference 2017.
- Organizing Committee for Symposium in honor of Paul Fitzpatrick, April 2019.
- Loyola University Sujack Master Researcher Award, 2020.
- Selected Site Chair of 42nd Midwest Enzyme Chemistry Conference, Oct 2022.
- Selected as Co-chair of the 2024 Enzyme Mechanisms Conference, Jan 2024.
- Organizing Committee for 21st Flavins and Flavoproteins Symposium, July 2024

Relevant Experience

- Graham R. Moran and Audrey L. Lamb. The Tenured Itch. ASBMB Today. 18(7), pp 49-50.
- Lamb AL, Moran GR. (2020). What we've lost by closing our labs - and what we risk reopening them. ASBMB Today 19(6), 42-44.
- Lamb AL, Moran GR. (2020) F(i/u)nding your next hypothesis. ASBMB Today. 19(7), pp 47- 48
- "Unusual Properties Of Para-Hydroxybenzoate Hydroxylase Mutated In A Putative Proton Relay Residue." Palfey B.A., Dauber D.S., Moran G.R., Entsch B., Ballou D.P. Presented at the ASBMB Meeting, San Francisco, CA, Jul. 1995.
- "Purification of A Stable Active Mutant of Tryptophan Hydroxylase" Moran G. R. and Fitzpatrick P. F., Presented at the ASBMB Meeting, San Francisco, CA, Jul. 1997.
- The E. coli Nudix hydrolase NudC cleaves damaged NADH. Atreyei Ray, Brett A. Beaupre, Graham R. Moran, & David N. Frick. Presented at the 2017 ASBMB Meeting, Chicago IL April 2017.
- 3,4-dihydroxy-2-butanone 4-phosphate synthase (RibB) of riboflavin biosynthesis has a mononuclear magnesium active site. Nikola Kenjic, Melissa C. Denler, Timothy A. Jackson, Graham R. Moran, Audrey L. Lamb. Presented at the ASBMB/Experimental Biology Meeting , Orlando, FL. Apr. 2019.
- An opine on opines: the biosynthesis of opine metallophores. Jeffrey S. McFarlane, Jian Zhang, Sanshan Wang, Xiaoguang Lei, Graham R. Moran and Audrey L. Lamb. Presented at the ASBMB/Experimental Biology Meeting , Orlando, FL. Apr. 2019.
- Two Oddly Complex Dehydrogenases: Brett A. Beaupre, Dariush Fourozesh, Joseph Roman, Madison Smith, Tyler Alt, Corine Smith and Graham R. Moran. Presented at the ASBMB Conference, Chicago IL. April 2025