

SOHEL SHAMSUZZAMAN

University of Virginia School of Medicine

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EDUCATION

INSTITUTION AND LOCATION	DEGREE	COMPLETION	FIELD OF STUDY
University of Wisconsin-Madison Madison, WI	PhD	2016	Biochemistry
London School of Hygiene & Tropical Medicine, University of London London, United Kingdom	Masters of Science	2006	Immunology of Infectious Diseases
University of Dhaka, Dhaka, Bangladesh	Masters of Science	2001	Biochemistry and Molecular Biology
University of Dhaka Dhaka, Bangladesh	Bachelors of Science	2000	Biochemistry and Molecular Biology

RESEARCH & TEACHING EXPERIENCE

ACTIVITY/OCCUPATION	INSTITUTION	DATES	FIELD
NIH T32 Postdoctoral Fellow	University of Virginia Charlottesville, VA	2024-present	Cardiovascular Research
Research Scientist	University of Virginia Charlottesville, VA	2023-2024	Cardiovascular Research
Postdoctoral Research Associate	University of Virginia Charlottesville, VA	2018-2023	Cardiovascular Research
Associate Professor	University of Dhaka Dhaka, Bangladesh	2016-2018	Biochemistry and Molecular Biology
Graduate Student Researcher	University of Wisconsin- Madison Madison, WI	2010-2016	Biochemistry
Assistant Professor	University of Dhaka Dhaka, Bangladesh	2009-2010	Biochemistry and Molecular Biology
Lecturer	University of Dhaka Dhaka, Bangladesh	2005-2009	Biochemistry and Molecular Biology
Commonwealth Scholar	London School of Hygiene & Tropical Medicine, University of London London, United Kingdom	2005-2006	Immunology of Infectious Diseases

PUBLICATIONS

- **Shamsuzzaman S***, Deaton RA*, Salamon A, Doviak H, Serbulea V, Milosek VM, Evans MA, Karnewar S, Saibaba S, Alencar GF, Shankman LS, Walsh K, Bekiranov S, Kocher O, Krieger M, Kull B, Persson M, Michaëlsson E, Bergenhem N, Heydarkhan-Hagvall S, Owens GK. 2024. "Novel Mouse Model of Myocardial Infarction, Plaque Rupture and Stroke Shows Improved Survival with Myeloperoxidase Inhibition." *Circulation*, 2024 Aug 27;150(9):687-705. doi: 10.1161/CIRCULATIONAHA.123.067931.
- Alencar GF, Owsiany KM, K S, Sukhavasi K, Mocci G, Nguyen A, Williams CM, **Shamsuzzaman S**, Mokry M, Henderson CA, Haskins R, Baylis RA, Finn AV, McNamara CA, Zunder ER, Venkata V, Pasterkamp G, Björkegren J, Bekiranov S, Owens GK. 2020. "The Stem Cell Pluripotency Genes Klf4 and Oct4 Regulate Complex SMC Phenotypic Changes Critical in Late-Stage Atherosclerotic Lesion Pathogenesis." *Circulation*, doi:10.1161/CIRCULATIONAHA.120.046672.
- Newman AAC, Serbulea V, Baylis RA, Shankman LS, Bradley X, Alencar GF, Owsiany K, Deaton RA, Karnewar S, **Shamsuzzaman S**, Salamon A, Reddy MS, Guo L, Finn A, Virmani R, Cherepanova OA, Owens GK. 2021. "Multiple cell types contribute to the atherosclerotic lesion fibrous cap by PDGFR β and bioenergetic mechanisms." *Nat Metab*, 3(2):166-181. doi: 10.1038/s42255-020-00338-8.
- **Shamsuzzaman S**, Onal M, St John HC, Jeffery JJ, Pike JW. 2017. "Absence of the Vitamin D Receptor Inhibits Atherosclerotic Plaque Calcification in Female Hypercholesterolemic Mice." *Journal of Cellular Biochemistry*, 118(5):1050-1064. doi: 10.1002/jcb.25679.
- **Shamsuzzaman S**, Onal M, St John HC, Pike JW. 2017. "Deletion of a Distal RANKL Gene Enhancer Delays Progression of Atherosclerotic Plaque Calcification in Hypercholesterolemic Mice." *Journal of Cellular Biochemistry*, 118(12):4240-4253. doi: 10.1002/jcb.26074.
- Pike JW, Meyer MB, Benkusky NA, Lee SM, St John H, Carlson A, Onal M, **Shamsuzzaman S**. 2016. "Genomic Determinants of Vitamin D-Regulated Gene Expression." *Vitamins and Hormones*, 100:21-44. doi: 10.1016/bs.vh.2015.10.011.
- O'Neill LM, Phang YX, Matango M, **Shamsuzzaman S**, Guo CA, Nelson DW, Yen CE, Ntambi JM. 2020. "Global deficiency of stearyl-CoA desaturase-2 protects against diet-induced adiposity." *Biochem Biophys Res Commun.*, 527(3):589-595. doi: 10.1016/j.bbrc.2020.04.077.
- Taype CA, **Shamsuzzaman S**, Accinelli RA, Espinoza JR, Shaw MA. 2010. "Genetic susceptibility to different clinical forms of tuberculosis in the Peruvian population." *Infection, Genetics and Evolution*, 10(4):495-504. doi: 10.1016/j.meegid.2010.02.011.
- Sheikh A, **Shamsuzzaman S**, Ahmad SM, Nasrin D, Nahar S, Alam MM, Al Tarique A, Begum YA, Qadri SS, Chowdhury MI, Saha A, Larson CP, Qadri F. 2010. "Zinc influences innate immune responses in children with enterotoxigenic Escherichia coli-induced diarrhea." *Journal of Nutrition*, 140(5):1049-56. doi: 10.3945/jn.109.111492.
- **Shamsuzzaman S**, Ahmed T, Mannoor K, Begum YA, Bardhan PK, Sack RB, Sack DA, Svennerholm A-M, Holmgren J, Qadri F. 2009. "Robust gut associated vaccine specific antibody secreting cell responses are detected at the mucosal surface of Bangladeshi subjects after immunization with the oral killed whole cell bivalent cholera vaccine: Comparison with other mucosal and systemic responses." *Vaccine*, 27(9):1386-92. doi: 10.1016/j.vaccine.2008.12.041.
- Qadri F, Svennerholm AM, **Shamsuzzaman S**, Bhuiyan TR, Harris JB, Ghosh AN, Nair GB, Weintraub A, Faruque SM, Ryan ET, Sack DA, Calderwood SB. 2005. "Reduction in Capsular Content and Enhanced Bacterial Susceptibility to Serum Killing of *Vibrio cholerae* O139 Associated with the 2002 Cholera Epidemic in Bangladesh." *Infection and Immunity*, 73(10):6577-83. doi:10.1128/IAI.73.10.6577-6583.2005.

Please visit <https://www.ncbi.nlm.nih.gov/myncbi/sohel.shamsuzzaman.1/bibliography/public/> for a complete list of my publications.

HONORS

- 2024 ***Ruth L. Kirschstein Institutional National Research Service Award***, NIH T32 Grant
- Awarded to institutions to recruit outstanding predoctoral and postdoctoral scholars and prepare them for careers that have a significant impact on the health-related research needs of the nation
- 2021 ***AstraZeneca-UVA Alliance Collaboration Grant***, AstraZeneca Pharmaceuticals
- Collaboration to determine the effects of MPO inhibitor AZM198 from AstraZeneca in a novel mouse model of coronary atherosclerosis, spontaneous MI and stroke
- 2015 ***Travel Grant***, American Society for Bone and Mineral Research
- Awarded a travel grant to attend the ASBMR Symposium titled “Crosstalk Between Kidney and Bone: From Bench to Bedside” in Seattle, WA
- 2012 ***President’s Poster Competition Award***, American Society for Bone and Mineral Research
- Awarded during the ASBMR 2012 annual meeting in Minneapolis, MN
- 2010 ***Kamaluddin Ahmad Distinguished Graduate Scholarship***, University of Wisconsin-Madison, USA
- Scholarship awarded by UW-Madison to the most distinguished graduate from the Department of Biochemistry and Molecular Biology in Dhaka University to help them pursue doctoral studies
- 2010 ***Dean’s Gold Medal for Scientific Research***, University of Dhaka, Bangladesh
- Awarded by the Dean of Faculty of Biological Sciences at the University of Dhaka to their best faculty in terms of both teaching, writing, and research
- 2008 ***Marie-Curie Actions Grants***, University of Leeds, UK
- Funding provided by the European Union to support the mobility of distinguished researchers around the world in order to support the free movement of innovative ideas
- 2005 ***The Commonwealth Scholarship***, University of London, UK
- The Commonwealth Scholarship Commission (CSC) offers scholarships to the most promising Commonwealth citizens from around the world for postgraduate study and professional development