



Professor Charles N. Serhan, Ph.D., D.Sc.

Charles is the Simon Gelman Professor of Anaesthesia (Biochemistry and Molecular Pharmacology) at Harvard Medical School. He is Director of the Center for Experimental Therapeutics and Reperfusion Injury at Brigham and Women's Hospital and recently a Co-Director of the Brigham Research Institute.

Charles received a BS in biochemistry from Stony Brook University followed by a Doctorate in experimental pathology and medical sciences from New York University School of Medicine. He was a visiting scientist and post-doctoral fellow at the Karolinska Institutet, Stockholm with Professor Bengt Samuelsson (Nobel Laureate Medicine 82). He attended the Nobel Ceremony and two of his thesis publications were

cited by Samuelsson in his Nobel lecture. In 1987, he joined the faculty at Harvard Medical School and in 1996 received the honorary degree from Harvard University. He's received many awards including an NIH MERIT award (2000) and has delivered more than 50 keynote and plenary lectures. Among these, 2008 **William Harvey Outstanding Scientist Medal**, **AAAS Fellow** 2011. Society for Leukocyte Biology-Bonazinga Award 2010, American College of Rheumatology Hench Award Lecture at ACR 2011, and Mérieux 2013 Laureate. He received the IUBMB Lecture Medal 2019 and the **Ross Prize in Molecular Medicine** 2016. **Lifetime Achievement Award** 2017 from the International Eicosanoid Research Foundation and the LifeTime award 2019 from the SLB.

2018 British Pharmacology Soc BPS **Sir John Gaddum International Award** lecture. 2018 American Society for Investigative Pathology **Rous-Whipple Award 2023**. CPPA The **Chemistry and Pharmacology of Drug Abuse Award for visionary work and discovery of the Pro-Resolving Mediators from Northeastern Univ. CDD 2023**. BWH Department **Surgery J. Murry (1990 Nobel) Mentoring Award 2023**

<https://dms.hms.harvard.edu/search/site/Serhan?f%5B0%5D=bundle%3Aperson>

Charles has experience leading multidisciplinary research teams as PI/PD for several NIH supported Program Project Grants and a P-50 Center Grant. **2021, 2022, 2023, 2024 Highly Cited** Researcher from Clarivate, top **0.1%** in immunology. His **h-index is 191 (Aug 2024)** in google scholar **>125,000** citations visit his lab video and research team, lab web page.

<http://serhanlab.bwh.harvard.edu/>

Research interests:

1. **Serhan CN**, Gupta S, et al. The Atlas of Inflammation-Resolution (<https://air.elixir-luxembourg.org/minerva/>). **Molecular Aspects of Medicine** 2020. 74:100894.
2. **Serhan CN**. Pro-resolving lipid mediators are leads for resolution physiology. **Nature** 2014; 510:92-101
3. **Serhan CN**, et al. E-series resolvin metabolome, biosynthesis and critical role of stereochemistry of specialized pro-resolving mediators (SPMs) in inflammation-resolution: Preparing SPMs for long COVID-19, human clinical trials, and targeted precision nutrition. **Semin Immunol.** 2022
4. Fredman G, **Serhan CN**. Specialized pro-resolving mediators in vascular inflammation and atherosclerotic cardiovascular disease. **Nature Rev Cardiology.** 2024 doi: 10.1038/s41569-023-00984.

<https://www.ncbi.nlm.nih.gov/myncbi/1IGu42a66PfAI/bibliography/public/> contains **>624** publications (original reports and reviews) (9/1/2024); **400 Patents awarded** assigned to BWH.

Seminar title Oct.7th ,2024
**“The Resolution Code of the Inflammatory
Response, Mediators and Mechanisms”**