

In the space below, please provide a statement (approximately 300-words) that will be helpful to the electorate in their selection. This page will be posted to the University Secretariat website exactly as submitted by the nominee; do not submit personal information on this page (i.e., address, telephone number, e-mail address, photograph, etc.). Please limit your statement to this page only.

Name of Nominee:

Bhagwati PGupta



Current Status at McMaster:

Professor, Department of Biology

Member, McMaster Institute of Research on Aging Member, Neuroscience/MiNDS graduate program Member, Origins Institute, McMaster University

Educational Background:

Postdoctoral Fellow, California Institute of Technology, Pasadena, California, USA Ph.D., Tata Institute of Fundamental Research, Mumbai, India

M.Sc. Jawaharlal Nehru University, New Delhi, India

Scholarly and Professional Achievements:

Grant Reviewer: CIHR and NSERC (Discovery and New Frontiers program)

External Funding: NSERC - current, CIHR, CFI, OIT, ERA, and NIH (USA) - in the past More than 40 invited and contributed talks at various institutions, conferences, and meetings

Publications: 57 peer reviewed (55 original papers, 2 book chapters), 41 non-peer reviewed (Conf abstracts etc.) Supervision of Graduate students/postdocs (graduated/total): 23/26

Graduate student supervisory committees: 5 (current), 51 (in total) Graduate thesis examinations (Masters and Doctoral): 64 Supervision of Undergraduate Thesis Students: 86

Co-Supervision of Undergraduate Thesis Students: 39 Supervision of Undergraduate Research Students: 65

Administrative Responsibilities:

MUFA Vice-President

Member, McMaster AI Operational Excellence Committee Member, T&P Appeals Nominating Committee

Member, Digital Learning Strategy Steering Committee Member, Renaissance Award Selection Committee Member, Biology Tenure and Promotion committee

Research Interests:

My research focuses on the genetic basis of behavioral and physiological processes that affect health and survival of all organisms including humans. Using the tiny nematode (worm) C. elegans and related species, my lab explores conserved mechanisms underlying heat tolerance (relevant to global warming), healthy aging, and lifespan regulation. The worm models provide powerful experimental advantages for dissecting fundamental biological processes with broad relevance to human and animal health.

Teaching Interests:

I am deeply committed to teaching and believe education should equip our students with essential skills for not only getting a job but also for lifelong success. Over the years I have taught undergraduate and graduate courses in genetics, cell biology, developmental biology, molecular biology, Neuroscience, and graduate skill development. My approach emphasizes critical thinking, scientific inquiry, and mentorship to help develop analytical, research, and communication skills.