

Vinayak Agarwal, PhD

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POSITIONS

Associate Professor	2023–current
Assistant Professor	2017–2023
School of Chemistry and Biochemistry	
School of Biological Sciences	
Ocean Science and Engineering graduate program	
Georgia Institute of Technology	
Postdoctoral Research Scientist	2012–2017
NIH K99 Pathway to Independence Fellow (2016–2017)	
Helen Hay Whitney Foundation Fellow (2014–2016)	
Scripps Institution of Oceanography	
University of California San Diego	
Postdoctoral Research Scientist	2012
Institute of Genomic Biology	
University of Illinois Urbana-Champaign	

EDUCATION

Doctor of Philosophy, Ph.D.	2007–2012
Biophysics and Computational Biology	
University of Illinois Urbana-Champaign	
Master of Technology, M.Tech.	2002–2007
Biochemical Engineering and Biotechnology	
Indian Institute of Technology, Delhi	
Bachelor of Technology, B.Tech.	2002–2007
Biochemical Engineering and Biotechnology	
Indian Institute of Technology, Delhi	

AWARDS and HONORS

Matt Suffness Young Investigator Award	2024
American Society for Pharmacognsy	
Vasser Woolley Professorship	2024
Georgia Tech, School of Chemistry and Biochemistry	
Camille Dreyfus Teacher Scholar Award	2023
The Camille and Henry Dreyfus Foundation	

NSF CAREER Award National Science Foundation	2023
ACS Academic Young Investigator (Division of Organic Chemistry) American Chemical Society	2022
Cottrell Scholar Award Research Corporation for Science Advancement	2021
Blanchard Assistant Professorship Georgia Tech College of Sciences	2020
Kavli Frontiers in Science Fellow The National Academies of Sciences, Engineering, and Medicine	2019
Sloan Foundation Fellow Alfred P. Sloan Foundation	2018
Class of 1969 Teaching Fellow Georgia Tech	2018
NIH K99/R00 Pathway to Independence Fellow National Institutes of Health	2016
Helen Hay Whitney Foundation Postdoctoral Fellow The Helen Hay Whitney Foundation	2014

POSTDOCTORAL TRAINEES

Dr. Nirmal Saha Ph.D., Centre of Biomedical Research, India	2022–current
Dr. Weimao Zhong Ph.D., Chinese Academy of Sciences	2022–current
Dr. Shahima Islam Ph.D., University of Texas, Austin	2022–2024
Dr. Hem R. Thapa Ph.D., Texas A&M University	2017–2020
Dr. Armando Losada Ph.D., University of Oviedo	2017–2018

GRADUATE STUDENT TRAINEES

Mujeeb A. Wakeel School of Chemistry and Biochemistry, Georgia Tech B.S., Obafemi Awolowo University, Ile-Ife M.S., University of Tennessee, Knoxville	2023–current
Paul J. Branham	2023–current

School of Chemistry and Biochemistry, Georgia Tech
B.S., Kennesaw State University

Yifan Tang 2023–current
School of Chemistry and Biochemistry, Georgia Tech
B.S., Georgia Institute of Technology

Vidya 2022–current
School of Chemistry and Biochemistry, Georgia Tech
B.S., Indian Institute of Science Education and Research
M.S., Indian Institute of Science Education and Research

Dongqi Yi 2018–2023
School of Chemistry and Biochemistry, Georgia Tech
M.S., Northwestern University
B.S., Nankai University

Nguyet A. Nguyen 2018–2023
School of Chemistry and Biochemistry, Georgia Tech
B.S., Vietnam National University

Ipsita Mohanty 2017–2022
School of Chemistry and Biochemistry, Georgia Tech
M.S., Indian Institute of Technology, Kharagpur
B.S., Indian Institute of Technology, Kharagpur

RESEARCH SCIENTISTS

Subhasish Tapadar 2020–2021
School of Chemistry and Biochemistry, Georgia Tech
Ph.D., Osmania University

RECENT PUBLICATIONS

67.
J Org Chem, **2024** 89:12748–52
Discovery and folding dynamics of a fused bicyclic cysteine knot undecapeptide from the marine sponge *Halichondria bowerbanki*
Zhong W, Olugbami J, Rathakrishnan P, Mohanty I, Moore SG, Garg N, Oyelere AK, Turner T, McShan AC,* **Agarwal V***
co-corresponding authors(*)

66.
Bielstein J Org Chem **2024** 20:1635–51
Polymer degrading marine *Microbulbifer* bacteria: an un(der)utilized source of chemical and biocatalytic novelty
Zhong W, **Agarwal V**

65.
Nat Chem Biol **2024** *accepted, in press*
The power and pitfalls of AlphaFold2 for structure prediction beyond rigid globular proteins

Agarwal V,* McShan AC*
co-corresponding authors(*)

64.

Nat Commun **2024** 15:1265

Disordered regions in proteusin peptides guide post-translational modification by a flavin-dependent RiPP brominase

Nguyen NA, Vidya FNU, Yennawar NH, Wu H, McShan AC,* **Agarwal V***
co-corresponding authors(*)

63.

Proc Natl Acad Sci USA **2024** *accepted, in press*

Short circular peptides in sponge genomes

Lin Z, **Agarwal V,*** Cong Y, Pomponi S, Schmidt EW*
co-corresponding authors(*)

62.

Front Mar Sci **2024** 10:1298518

Coral settlement induction by tetrabromopyrrole is widespread among Caribbean and Atlantic corals and compound specific

Sneed JM, Aylssa D, Margaret MW, Yi D, Moore BS, **Agarwal V**, Paul VJ

61.

J Appl Phycol **2024** *accepted, in press*

The influence of light stress on bromoform synthesis and concentration in the red seaweed *Asparagopsis taxiformis*

Hargrave M, Islam S, **Agarwal V**, Smith JE