HHMI Postdoctoral Associate, Janelia Research Campus, Ashburn, VA, USA www.pratik-kumar.com | kumarp3@janelia.hhmi.org

#### **EDUCATION & PROFESSIONAL APPOINTMENTS**

Postdoc	HHMI Janelia Research Campus, VA, USA		Luke Lavis	2019-	
PhD	Stony Brook University, NY, USA	Chemistry	Scott Laughlin	2019	
MS/BS	IISER-Kolkata, India	Chemistry	Rituparna Roy	2013	
Diploma	JNCASR, Bangalore, India	Chemistry	Jayanta Haldar2	019	
HHMI Janelia Research Campus, VA Scientists Teaching Science			2020		
Marine Biological Laboratory, Woods Hole, MA		Microscopy (OMIE	BS)	2018	
Alan Alda center for Communicating Sciences, NY		Science Communio	cation	2015-18	
HONORS &	AWARDS				
Outstandi	<b>ng Doctoral Student</b> , Maria Tzamarioudaki	Memorial Award, Ston	y Brook University	2019	
Outstanding Service award, Department of Chemistry, Stony Brook University					
New York State Graduate Student Employee Union Professional Development Award					
The Histo	<b>chemical Society</b> Travel Award			2018	
Marine Bi	<b>ological Laboratory</b> Scholarship			2018	
Distinguis	<b>hed Travel Award</b> by Graduate Student Org	ganization, Stony Broo	k University	2018	
	ed by the Dept. of chemistry and then selected f	rom the pool of all depar	tmental nominations		
ACS Biolog	<b>gical Chemistry</b> Travel Award			2017	
Best poste	er Award, Institute of Chemical Biology & Dr	rug Discovery, Stony B	rook University	2017	
SUNY Research Foundation Professional Development Award					
ACS Interdivisional Sci-Mix, ACS-San Francisco					
One of th	te 18 posters (out of $\sim$ 200) selected from the A0	CS Biological Chemistry o	division		
3MT-Peop	ole's Choice Award (3- <u>m</u> inute <u>t</u> hesis), Stony	Brook University		2017	
Departmental Distinguished Research Award, Stony Brook University				2016	
German Research Foundation Travel Award, Lindau Nobel Laureate Meetings, Germany				2013	
	Dept. of Science & Technology (India) Travel Award, Asian Science Camp, South Korea				
	POCE Fellowship, JNCASR, India				
INSPIRE Fellowship, Department of Science & Technology, India				2009–11 2008–13	
PATENT					

#### **PATENT**

Scott T. Laughlin, **Pratik Kumar**, Ting Jiang, Wei Huang. Compositions and methods for modular control of bioorthogonal ligation. W02020113077, 2020.

## PUBLICATIONS (Google Scholar | ORCID)

### In advanced preparation

- 1. **Pratik Kumar**, Made Budiarta, Markus Sauer, Luke D. Lavis & Gerti Beliu. Far-red emitting fluorogenic tetrazine dyes for click imaging in tissues.
- 2. **Pratik Kumar**, Jonathan Grimm, Katie Holland, Ariana Tkachuk & Luke D. Lavis. Photoactivation via cyclization of rhodamine fluorophores for single molecule imaging.

### Published/Submitted

- 1. **Pratik Kumar**, Jason D. Vevea, Edwin R. Chapman & Luke D. Lavis. Multifunctional fluorophores for livecell imaging and affinity capture of proteins. Bioarxiv, 2022, doi.org/10.1101/2022.07.02.498544. In review. <u>Featured on preLights</u>
- 2. Brittany M. White, **Pratik Kumar**, Amanda N. Conwell\*, Kane Wu\*, Luke D. Lavis & Jeremy M. Baskin. Lipid expansion microscopy. Resubmitted after revision, 2022.
- 3. **Pratik Kumar** & Luke D. Lavis. Melding synthetic molecules and genetically encoded proteins to forge new tools for neuroscience. Annual Review of Neuroscience, 2022, 45, 131–50.

- 4. Sambashiva Banala, Ariana Tkachuk, Ronak Patel, **Pratik Kumar**, Timothy Brown, & Luke D. Lavis. 2,7-Diaminobenzopyrylium dyes are live-cell mitochondrial stains. ACS Bio Med Chem Au, 2022, 2, 3, 307–12
- 5. **Pratik Kumar**, David Shukhman, & Scott T. Laughlin. Stable cyclopropene-containing analog of the amino acid neurotransmitter glutamate. Tetrahedron Letters, 2019, 60, 1476–1480.
- 6. **Pratik Kumar**, Omar Zainul, Frank Camarda, Ting Jiang, John Mannone, & Scott T. Laughlin. Second generation caged cyclopropenes with improved kinetics for controlling bioorthogonal reactivity. Organic Letters, 2019, 21, 3721–3725.
- 7. Ting Jiang, **Pratik Kumar**, Wei Huang, Wei-Siang Kao & Scott T. Laughlin. Modular enzyme- and light-based activation of the cyclopropene-tetrazine ligation. ChemBioChem, 2019, 20(17), 2222–2226.
- 8. **Pratik Kumar** & Scott T. Laughlin (Book chapter). Modular activatable bioorthogonal reagents. Methods in Enzymology, 2019, 622, 153–182.
- 9. **Pratik Kumar**, Ting Jiang, Omar Zainul, A. Preston, J. Farr, S. Li, Pavit Suri, & Scott T. Laughlin. Lipidated cyclopropenes via a stable 3-N spirocyclopropene scaffold. Tetrahedron Letters, 2018, 59, 3435–3438.
- 10. **Pratik Kumar\***, Ting Jiang\*, Sining Li, Omar Zainul, & Scott T. Laughlin. Caged cyclopropenes for spatiotemporal control of bioorthogonal reactivity. Organic & Biomolecular Chemistry, 2018, 16(22), 4081–4085. Featured on RSC
- 11. **Pratik Kumar**, Omar Zainul, & Scott T. Laughlin. Inexpensive multigram-scale synthesis of cyclic enamines and 3-N spirocyclopropyl systems. Organic & Biomolecular Chemistry, 2018, 16(4), 652–656.
- 12. **Pratik Kumar**, David Shukhman, & Scott T. Laughlin. A light-activatable, cyclopropene-containing analog of the amino acid neurotransmitter glutamate. Tetrahedron Letters, 2016, 57, 5750–5752.
- 13. Jiaul Hoque, **Pratik Kumar**, Vinod K. Aswal, & Jayanta Haldar. Aggregation properties of amide bearing cleavable gemini surfactants by small angle neutron scattering and conductivity studies. Journal of Physical Chemistry B, 2012, 116(32), 9718–9726.
- 14. Jiaul Hoque, Padma Akkapeddi, Venkateswarlu Y., Divakara SSM Uppu, **Pratik Kumar**, & Jayanta Haldar. Cleavable cationic antibacterial amphiphiles: synthesis, mechanism of action, and cytotoxicities. Langmuir, 2012, 28(33), 12225–12234. <u>Featured in Indian news</u>

#### SELECTED ORAL PRESENTATIONS

JU.	BECTED ORMET RESERVITIONS	
Inv	rited	
1.	Sabarmati Young Researcher Seminar Series, Biological Engineering, IIT Gandhinagar (virtual)	2021
2	Multifunctional fluorescent dyes as molecular tools beyond imaging	2021
۷.	Project SEED, American Chemical Society (virtual)	2021
_	Illuminating biology through fluorescent dyes	
3.	SUNY-Suffolk Community College, Department of Natural Sciences, NY, USA	2018
	Activatable bioorthogonal reactions for biology	
Co	nference	
1.	Gordon Research Conference, Bioorganic Chemistry, Flash talk, NH, USA	2022
	Multifunctional fluorophores as molecular tools beyond imaging	
2.	IndiaBioscience YIM and PDF Meeting (virtual)	2022
	Chemical tools for imaging and manipulation of living systems	
3.	Chemical Biology and Physiology, Oregon Health & Science University, OR, USA	2022
	Multifunctional fluorophores as molecular tools beyond imaging	
4.	Annual Janelia Symposium, HHMI-Janelia Research Campus, VA, USA	2022
	Multifunctional fluorophores as molecular tools beyond imaging	
5.	International Conference on Nanoscopy, Leibniz Institute of Photonic Technology (virtual)	2021
	Multifunctional fluorophores as molecular tools beyond imaging	
6.	Dana-Farber Cancer Institute, Chemical Biology Symposium, Flash talk (virtual)	2021
	Multifunctional fluorophores as molecular tools beyond imaging	
7.	IndiaBioscience YIM and PDF Meeting (virtual)	2021
	Chemigenetic multifunctional fluorophores	
8.	<b>Probe Fest,</b> HHMI-Janelia Research Campus, Flash talk, VA, USA	2018
	Modular activatable cyclopropenes for spatiotemporal control of bioorthogonal reactivity	

SELECTED POSTER PRESENTATIONS  1. Gordon Research Seminars & Gordon Research Conference, Bioorganic Chemistry, NH, USA 2022 Multifunctional fluorophores as molecular tools beyond imaging 2. EMBO/EMBL, Seeing is Believing: Imaging the Molecular Processes of Life, VA, USA 2021 Multifunctional fluorophores as molecular tools beyond imaging 3. HHMI-Janelia Research Campus, ProbeFest, VA, USA 2018 Light- and enzyme-activatable cyclopropenes 4. Rockefeller University, Tri-Institutional Chemical Biology Symposium, NY, USA 2018 Caged cyclopropenes for spatiotemporal control of bioorthogonal reactivity 5. Gordon Research Seminars & Gordon Research Conference, Bioorganic Chemistry, NH, USA 2018 Caged cyclopropenes for spatiotemporal control of bioorthogonal reactivity 6. NERCBI and Yale Chemical Biology Symposium, CT, USA 2018 Caged cyclopropenes for spatiotemporal control of bioorthogonal reactivity 7. Icahn School of Medicine–Mount Sinai & ICBⅅ–Stony Brook University symposium on Frontiers in Chemical Biology and Drug Discovery, NY, USA   Best poster award 3//spirocyclopropenes provide spatiotemporal control of bioorthogonal reactivity 8. New York Academy of Sciences, Chemical Biology Symposium, NY, USA   2017 Cyclopropene neurotransmitters for biorthogonal imaging of neural circuits 9. Gordon Research Seminars & Gordon Research Conference, High-Throughput Chemistry and Chemical Biology, NH, USA 2017 Cyclopropene neurotransmitters for biorthogonal imaging of neural circuits 11. Stony Brook University, Chemistry Research Day, NY, USA 2017 Cyclopropene neurotransmitters for biorthogonal imaging of neural circuits 12. Stony Brook University, Chemistry Research Day, NY, USA 2017 Cyclopropene neurotransmitters for biorthogonal imaging of neural circuits 13. Stony Brook University, Chemistry Research Day, NY, USA 2017 Cyclopropene neurotransmitters for biorthogonal imaging of neural circuits 14. Stony Brook University, Chemistry Research Day, NY, USA 2017 Cyclopropene neurotransmitters for biorthogonal imaging of neural ci
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Chair, Gordon Research Seminars-Bioorganic Chemistry 2022
President Janelia Association of Research Scientists
2022
Officer, Janelia Association of Research Scientists 2021–22
Moderator, 70th Lindau Nobel Laureate Meeting Open Exchange Sessions 2021
<b>Discussion leader,</b> Gordon Research Seminars-Bioorganic Chemistry 2019
Vice-Chair, Gordon Research Seminars-Bioorganic Chemistry 2019
President, Graduate Chemical Society, SBU Apr 2017–Apr 2019
President, Student Invited Speaker Committee, Stony Brook Chemistry Spring 2017
Moderator (& organizer), Grad. Chemical Society career panel on non-academic careers Spring 2016
<b>Moderator</b> (& organizer), Graduate Career Association career panel on entrepreneurship Fall 2015
Vice-President, Graduate Career Association, SBU Fall 2015–Spring 2016
Senator for Chemistry at Graduate Student Organization, SBU 2015–Spring 2018
Public Relations Officer, Graduate Chemical Society Spring 2015–Apr 2017
TEACHING EXPERIENCE
Graduate assistant, NMR facilities, SBU 2018, Spring 2019

Trained undergraduate, graduate, and postdoctoral trainees on setting up and analyzing 1H, 13C, COSY, and DEPT NMR on 400/500/700 MHz NMR instruments. Also, performed routine maintenance such liquid-nitrogen/helium refills.

# Graduate assistant, Mass spectrometry facilities, SBU

2018, Spring 2019

Trained undergraduate-, graduate-, and postdoctoral-trainees on how to run and analyze liquid samples on ESI-mass spectrometer; run and obtain high-resolution mass-spectra of liquid samples; run solid samples on TLC-inject mass spectrometer; and properly maintain mass spectrometers.

# Teaching assistant, Advanced organic chemistry lab. SBU

Spring 2015

Led ~4 lectures on NMR and weekly laboratory course for ~30 chemistry-majors on how to set up multistep organic reactions; monitor the progress of reactions; purify reaction intermediates; analyze GC data; acquire and analyze IR data; analyze <sup>1</sup>H & <sup>13</sup>C NMR data; report spectroscopic and experimental data; and follow proper lab-safety techniques.

#### Teaching assistant, Undergraduate organic chemistry lab, SBU

Fall 2013-Spring 2014

Led a weekly laboratory course for ~30 pre-med students on how to set up organic reactions; isolate and purify an reaction product; analyze GC data; analyze IR data; report experimental data; and follow proper lab-safety techniques.

MENTORING EXPERIENCE (TOTAL = $15$ )	
<b>2 Postdoc</b> (1st year of their Postdoc):	
Guoqiang Yu	2022-23
Jianping Zhu	2021-22
<b>3 PhD</b> (rotation and 1st year of their PhD):	
Wei Huang (Chemistry/Chemical Biology, co-authors on two manuscripts)	Nov 2017-Dec 2018
Wei-Siang Kao (Chemistry/Chemical Biology, co-authors on two manuscripts)	Nov 2017 - Dec 2018
Ting Jiang (Chemistry/Chemical Biology, co-authors on four manuscripts)	Nov 2016-Dec 2017
<b>3 PhD rotation</b> students: Lei Chen, Yilin Ma, Beilei Jiang	2016, 2017
<b>1 MS</b> student: Sining Li (Chemistry, co-authors on three manuscripts) <b>5 Undergraduate</b> students:	Jan 2016–Apr 2017
Nayarit Tineo (Biology, worked with Omar Zainul through SBU-INSPIRE program)	Spring 2018
John Mannone (Chemistry, awarded URECA summer research fellowship)	Nov 2017-Apr 2019
Frank Camarda (Pharmacology, co-authors on two manuscript)	Nov 2017-Apr 2019
Omar Zainul (Pharmacology, and co-authors on four manuscripts) Awarded URECA summer research fellowship and Sigma-Xi Undergraduate Research Award	Sep 2016–Apr 2018
David Shukhman (Biochemistry, co-authors on one manuscript)	Aug 2014-Apr 2016
1 High School student: Pavit Suri (W.T. Clarke high School, co-author on one manuscri	pt) Summer 2017
OUTREACH	
Moderator (& organizer), "How to approach new collaborations" American Society for	Cell Biology 2022
Organizer, Adobe Illustrator Workshop for Scientists, Janelia Research Campus, VA, US	A 2021
Project SEED Speaker, American Chemical Society	
Science Coach, American Chemical Society	2021
Science Coach, American Chemical Society	2021 2020
Developed chemistry demos/lectures focused on current research for high-school students	
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High-School Chemistry, Volunteer, Patna, India Fall 2012, Summer 2013

Taught chemistry to underprivileged, primarily Hindi-speaking high schoolers preparing for an exam in English