Pratik Kumar, PhD

www.pratik-kumar.com | kumarp3@janelia.hhmi.org

EDUCATION	I & TRAINING			
Postdoc	HHMI Janelia, VA Chemigenetic and fluorescent tools for new		in Schnermann (NCI) ogists	2019-
PhD	SUNY-Stony Brook University, NY	Chemistry	Scott Laughlin	2019
	Cyclopropene-neurotransmitters and caged		orthogonal labeling	
BS-MS	IISER, Kolkata, India	Chemistry	Rituparna Roy	2013
D: 1	Conformational studies of gramicidin inspir			2040
Diploma	JNCASR, Bangalore, India Synthesis and aggregation properties of bio	Chemistry degradable, cationic go	Jayanta Haldar emini-surfactants	2012
HHMI Janel	lia, VA	Scientists Teachi	ng Science	2020
Marine Biological Laboratory, Woods Hole, MA		Microscopy (OMIBS)		2018
Alan Alda c	enter for Communicating Sciences, NY	Science Commur	nication	2015-18
HONORS & A	AWARDS			
ACS Science	e Coach			2020
Outstandin	g Doctoral Student , Maria Tzamarioudaki M	emorial Award , SBU		2019
Outstandin	g Service award, Department of Chemistry,	SUNY-Stony Brook U	niversity	2019
New York S	<mark>State Graduate Student Employee Union</mark> Pro	fessional Developme	nt Award	2019
	hemical Society Travel Award			2018
	logical Laboratory Scholarship			2018
	ed Travel Award by Graduate Student Orga	•		2018
	d by the Dept. of chemistry and then selected fro	m the pool of all depar	tmental nominations	
•	ical Chemistry Travel Award			2017
ICB&DD-Be	est poster Award , <u>I</u> nstitute of <u>C</u> hemical <u>B</u> iolo	ogy & <u>D</u> rug <u>D</u> iscovery	, SBU	2017
SUNY Resea	arch Foundation Professional Development	Award		2017
ACS Interdi	i visional Sci-Mix , ACS-San Francisco			2017
One of the	18 posters (out of \sim 200) selected from the ACS	Biological Chemistry of	livision	
3MT-Peopl	e's Choice Award (3-minute thesis), SUNY-S	tony Brook Universi	ty	2017
Departmen	tal Distinguished Research Award, SUNY-St	ony Brook University	/	2016
German Research Foundation Travel Award, Lindau Nobel Laureate Meeting, Germany			g, Germany	2013
Dept. of Sci	ence & Technology (India) Travel Award, A	sian Science Camp, S	outh Korea	2011
POCE Fellowship, JNCASR, India			2009-11	
	t of Science & Technology (India) INSPIRE I	Fellowship		2008-13
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PATENT

Scott T. Laughlin, **Pratik Kumar**, Ting Jiang, Wei Huang. Compositions and methods for modular control of bioorthogonal ligation. Patent application PCT/US2019/063714, Filed Nov 2019.

PUBLICATIONS (ORCID: 0000-0002-9516-0212)

- 1. **Pratik Kumar**, David Shukhman, & Scott T. Laughlin. Stable cyclopropene-containing analog of the amino acid neurotransmitter glutamate. Tetrahedron Letters, 2019, 60, 1476–1480.
- 2. **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.
- 3. 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.
- 4. **Pratik Kumar** & Scott T. Laughlin (Invited Book chapter). Modular activatable bioorthogonal reagents. Methods in Enzymology, 2019, 622, 153–182.

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- 5. **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.
- 6. 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 blog (rsc.li/2LAHrOW): "Reactivity Caging Strategy for Controlling Bioorthogonal Reactivity"
- 7. **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.
- 8. **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.
- 9. 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.
- 10. 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. **Indian news** (bit.ly/2t5yzJT): "Scientist Invents Biodegradable Detergent"

INVITED ORAL PRESENTATIONS

1.	New York Academy of Sciences—Chemical Biology Symposium, NY, USA	2018
	Activatable cyclopropenes for spatiotemporal control of bioorthogonal reactivity	
2.	HHMI-Janelia Research Campus 1 min-1 slide talk	2018
	Modular activatable cyclopropenes for spatiotemporal control of bioorthogonal reactivity	
3.	SUNY-Suffolk community college, Department of Natural Sciences, NY, USA	2018
	Activatable bioorthogonal reactions for biology	
PO	STER PRESENTATIONS	
1.	HHMI-Janelia Research Campus, ProbeFest, VA, USA	2018
	Light- and enzyme-activatable cyclopropenes	
2.	Rockefeller University, Tri-Institutional Chemical Biology Symposium, NY, USA	2018
	Caged cyclopropenes for spatiotemporal control of bioorthogonal reactivity	
3.	Gordon Research Seminars & Gordon Research Conference, Bioorganic Chemistry, NH, USA	2018
	Caged cyclopropenes for spatiotemporal control of bioorthogonal reactivity	
4.	NERCBI and Yale Chemical Biology Symposium, CT, USA	2018
	Caged cyclopropenes for spatiotemporal control of bioorthogonal reactivity	
5.	Icahn School of Medicine-Mount Sinai & ICB&DD-Stony Brook University, Joint symposium	2017
	on Frontiers in Chemical Biology and Drug Discovery, NY, USA Best poster award	
	3N spirocyclopropenes provide spatiotemporal control of bioorthogonal reactivity	
6.	New York Academy of Sciences, Chemical Biology Symposium, NY, USA	2017
	Cyclopropene neurotransmitters for biorthogonal imaging of neural circuits	
7.	Gordon Research Seminars & Gordon Research Conference, High-Throughput Chemistry	2017
	and Chemical Biology, NH, USA	
	Caged cyclopropenes for spatiotemporal control of bioorthogonal reactivity	
8.	At both ACS National Meeting & ACS interdivisional Sci-Mixer presentation, CA, USA	2017
	Cyclopropene neurotransmitters for biorthogonal imaging of neural circuits	
9.	Stony Brook University, Chemistry Research Day, NY, USA	2015
	Cyclopropene analogs of neurotransmitters for illuminating neural circuits	
10.	Stony Brook University, Chemistry Research Day, NY, USA	2014
	Fluorescent boronic acid probe as transsynaptic tracer of neural circuitry	

MENTORING EXPERIENCE (TOTAL = 13)

3 PhD (rotation and 1st year of their PhD):

Wei Huang (Chemistry/Chemical Biology, co-authors on two manuscripts)

Pratik Kumar, PhD

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
3 PhD rotation students: Lei Chen, Yilin Ma, Beilei Jiang	2016, 2017
1 MS student: Sining Li (Chemistry, co-authors on three manuscripts)	Jan 2016-Apr 2017
5 Undergraduate students:	
Nayarit Tineo (Biology, worked with Omar Zainul through SBU-INSPIRE program	
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 Awa	Sep 2016–Apr 2018 ard
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 manus	
TEACHING EXPERIENCE	. ,
Graduate assistant, NMR facilities, SBU	2018, Spring 2019
Trained undergraduate, graduate, and postdoctoral trainees on setting up and analyzing ¹ l	
on 400/500/700 MHz NMR instruments. Also, performed routine maintenance such liqui	
Graduate assistant, Mass spectrometry facilities, SBU	2018, Spring 2019
Trained undergraduate-, graduate-, and postdoctoral-trainees on how to run and analyze	
spectrometer; run and obtain high-resolution mass-spectra of liquid samples; run solid s	
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 d	
data; analyze ¹ H & ¹³ C NMR data; report spectroscopic and experimental data; and follow p	
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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 read	ctions; isolate and purify an
Led a weekly laboratory course for $\sim \! 30$ pre-med students on how to set up organic reaction product; analyze GC data; analyze IR data; report experimental data; and follow products	ctions; isolate and purify an roper lab-safety techniques.
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