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

EDUCATION	& I KAINING			
Postdoc	HHMI Janelia Research Campus, VA, USA Fluorescent dyes for chemigenetic labeling of p	Luke Lavis/Martin Soroteins for localization re	` ,	2019-
	manipulation (e.g., degradation, affinity tagging	g), and receptor pharma	cology	
PhD	Stony Brook University, NY, USA Cyclopropene-neurotransmitters and caged-cyc	Chemistry clopropenes for bioortho	Scott Laughlin ogonal labeling	2019
MS/BS	IISER-Kolkata, India Synthesis and conformational studies of gramio	Chemistry cidin inspired alternating	Rituparna Roy g LD peptides	2013
Diploma	JNCASR, Bangalore, India Synthesis and aggregation properties of biodeg	Chemistry gradable, cationic gemini	Jayanta Haldar -surfactants	2012
HHMI Janel	ia Research Campus, VA	Scientists Teaching S	Science	2020
Marine Biol	ogical Laboratory, Woods Hole, MA	Microscopy (OMIBS))	2018
Alan Alda co	enter for Communicating Sciences, NY	Science Communicat	ion	2015-18
HONORS & A	WARDS			
ACS Science	e Coach			2020
Outstanding	<mark>g Doctoral Student</mark> , Maria Tzamarioudaki Men	norial Award , SBU		2019
Outstanding	g Service award, Department of Chemistry, SU	NY-Stony Brook Unive	ersity	2019
New York S	tate Graduate Student Employee Union Profes	ssional Development A	ward	2019
The Histoch	nemical Society Travel Award			2018
Marine Biol	ogical Laboratory Scholarship			2018
_	ed Travel Award by Graduate Student Organizel by the Dept. of chemistry and then selected from		ntal nominations	2018
	cal Chemistry Travel Award			2017
ICB&DD-Be	st poster Award, Institute of Chemical Biology	v & <u>D</u> rug <u>D</u> iscovery, SB	U	2017
SUNY Resea	arch Foundation Professional Development Av	ward		2017
	visional Sci-Mix, ACS-San Francisco			2017
	18 posters (out of ~200) selected from the ACS Bi	ological Chemistry divis	ion	
3MT-People	e's Choice Award (3-minute thesis), SUNY-Sto	ny Brook University		2017
-	tal Distinguished Research Award, SUNY-Ston	•		2016
	search Foundation Travel Award, Lindau Nobe		ermanv	2013
	ence & Technology (India) Travel Award, Asia	•	<u>-</u>	2011
-	wship, JNCASR, India			2009-11
	t of Science & Technology (India) INSPIRE Fel	lowshin		2008-13
_ spai amon	to see see see see see see see see see se	P		2000 10

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: 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.

- 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: "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., Diyakara SSM Uppu, **Pratik Kumar**, & Jayanta Haldar. Cleavable cationic antibacterial amphiphiles: synthesis, mechanism of action, and cytotoxicities. Langmuir, 2012, 28(33), 12225-12234. Indian news: "Scientist Invents Biodegradable Detergent"

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<u>IN</u>	VITED 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	
	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	
	3 N 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	

MENTORING EXPERIENCE (TOTAL = 13)

3 PhD	(rotation and	1st vear	of their	PhD)	
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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

2017

2015

2014

8. At both ACS National Meeting & ACS interdivisional Sci-Mixer presentation, CA, USA

Cyclopropene neurotransmitters for biorthogonal imaging of neural circuits

Cyclopropene analogs of neurotransmitters for illuminating neural circuits

Fluorescent boronic acid probe as transsynaptic tracer of neural circuitry

9. Stony Brook University, Chemistry Research Day, NY, USA

10. Stony Brook University, Chemistry Research Day, NY, USA

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)5 Undergraduate 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)	Sep 2016–Apr 2018
Awarded URECA summer research fellowship and Sigma-Xi Undergraduate Research Awarded	
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	script) Summer 2017
TEACHING EXPERIENCE	
Graduate assistant, NMR facilities, SBU	2018, Spring 2019
Trained undergraduate, graduate, and postdoctoral trainees on setting up and analyzing ¹	
on 400/500/700 MHz NMR instruments. Also, performed routine maintenance such liqui	
Graduate assistant, Mass spectrometry facilities , SBU Trained undergraduate-, graduate-, and postdoctoral-trainees on how to run and analyze	2018, Spring 2019
spectrometer; run and obtain high-resolution mass-spectra of liquid samples; run solid	
spectrometer; and properly maintain mass spectrometers.	amples on The inject mass
Teaching assistant, Advanced organic chemistry lab, SBU	Spring 2015
Led ~4 lectures on NMR and weekly laboratory course for ~30 chemistry-majors on how	
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	
Teaching assistant, Undergraduate organic chemistry lab , SBU Led a weekly laboratory course for ~30 pre-med students on how to set up organic read	Fall 2013–Spring 2014
Leg a weekly landratory collise for ~ 30 pre-med stildents on how to set iin organic read	ctions: isolate and purity an
reaction product; analyze GC data; analyze IR data; report experimental data; and follow p	roper lab-safety techniques.
reaction product; analyze GC data; analyze IR data; report experimental data; and follow p Volunteer, High-School Chemistry, India	roper lab-safety techniques. Fall 2012, Summer 2013
reaction product; analyze GC data; analyze IR data; report experimental data; and follow p Volunteer, High-School Chemistry, India Taught chemistry to underprivileged, primarily Hindi-speaking high schoolers preparing	roper lab-safety techniques. Fall 2012, Summer 2013
reaction product; analyze GC data; analyze IR data; report experimental data; and follow p Volunteer, High-School Chemistry, India Taught chemistry to underprivileged, primarily Hindi-speaking high schoolers preparing PROFESSIONAL SERVICE	roper lab-safety techniques. Fall 2012, Summer 2013 for an exam in English
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reaction product; analyze GC data; analyze IR data; report experimental data; and follow p Volunteer, High-School Chemistry, India Taught chemistry to underprivileged, primarily Hindi-speaking high schoolers preparing PROFESSIONAL SERVICE Reviewer for Organic & Bimolecular Chemistry (2020–), ChemBioChem (2020–), and Imaging Meeting (2021)	roper lab-safety techniques. Fall 2012, Summer 2013 for an exam in English nd European Molecular 2022 2019
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Graduate Chemical Society competition in conjunction with the department of chemistry on research day Founder, *BrainChem* (currently with ~ 500 subscribers) 2016 A page for non-scientists where we explain interesting tidbits about chemistry and ecology using simple graphics