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

EDUCATION	I & TRAINING			
Postdoc	HHMI Janelia Research Campus, VA, USA	Luke Lavis/Martin Sch	nermann (NCI/NIH)	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 Haldar	2012
HHMI Janelia Research Campus, VA		Scientists Teaching Sci	ence	2020
Marine Bio	logical Laboratory, Woods Hole, MA	Microscopy (OMIBS)		2018
Alan Alda c	enter for Communicating Sciences, NY	Science Communication	n	2015–18
HONORS &	AWARDS			
Outstandin	g Doctoral Student , Maria Tzamarioudaki M	emorial Award , Stony Br	ook University	2019
Outstanding Service award, Department of Chemistry, Stony Brook University				2019
New York State Graduate Student Employee Union Professional Development Award				2019
	hemical Society Travel Award			2018
	logical Laboratory Scholarship			2018
Distinguished Travel Award by Graduate Student Organization, Stony Brook University				2018
	d by the Dept. of chemistry and then selected fro	m the pool of all departmer	ntal nominations	221-
_	ical Chemistry Travel Award			2017
-	r Award , Institute of Chemical Biology & Drug		University	2017
SUNY Rese	arch Foundation Professional Development	Award		2017
ACS Interd	ivisional Sci-Mix, ACS-San Francisco			2017
One of the	e 18 posters (out of \sim 200) selected from the ACS	Biological Chemistry divisi	on	
3MT-Peopl	e's Choice Award (3- <u>m</u> inute <u>t</u> hesis), Stony B	rook 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				2011
POCE Fello	wship , JNCASR, India			2009–11
INSPIRE Fe	ellowship , Department of Science & Technolo	ogy, India		2008-13
PATENT				

PATEN1

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.
- 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. <u>Featured on RSC blog</u>: "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. <u>Indian news</u>: "Scientist Invents Biodegradable Detergent"

2012, 20(33), 12223-12234. initial news. Scientist invents blodegradable better	БСПС
INVITED ORAL PRESENTATIONS	2024
1. ACS Project SEED	2021
TBD	2010
2. New York Academy of Sciences—Chemical Biology Symposium, NY, USA	2018
Activatable cyclopropenes for spatiotemporal control of bioorthogonal reactivity	2018
3. HHMI-Janelia Research Campus 1 min-1 slide talk	
Modular activatable cyclopropenes for spatiotemporal control of bioorthogonal re	2018
4. SUNY-Suffolk community college , Department of Natural Sciences, NY, USA Activatable bioorthogonal reactions for biology	2016
5	
POSTER 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	2010
4. NERCBI and Yale Chemical Biology Symposium, CT, USA	2018
Caged cyclopropenes for spatiotemporal control of bioorthogonal reactivity	. 2017
5. Icahn School of Medicine-Mount Sinai & ICB&DD-Stony Brook University, Joint syl	-
on Frontiers in Chemical Biology and Drug Discovery, NY, USA Best poster award	
3 <i>N</i> spirocyclopropenes provide spatiotemporal control of bioorthogonal reactivity. 6. New York Academy of Sciences , Chemical Biology Symposium, NY, USA	y 2017
Cyclopropene neurotransmitters for biorthogonal imaging of neural circuits	2017
7. Gordon Research Seminars & Gordon Research Conference , High-Throughput Che	emistry 2017
and Chemical Biology, NH, USA	annsu y 2017
Caged cyclopropenes for spatiotemporal control of bioorthogonal reactivity	
8. At both ACS National Meeting & ACS interdivisional Sci-Mixer presentation, CA, US	SA 2017
Cyclopropene neurotransmitters for biorthogonal imaging of neural circuits	2017
9. Stony Brook University , Chemistry Research Day, NY, USA	2015
Cyclopropene analogs of neurotransmitters for illuminating neural circuits	_010
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)	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 2017 - 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
	, 1

E Undergraduate students.	
5 Undergraduate students: 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 Awar	d
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 manusc	ript) Summer 2017
TEACHING EXPERIENCE	
Graduate assistant, NMR facilities, SBU	2018, Spring 2019
Trained undergraduate, graduate, and postdoctoral trainees on setting up and analyzing ¹ H, on 400/500/700 MHz NMR instruments. Also, performed routine maintenance such liquid-	
Graduate assistant, Mass spectrometry facilities, SBU	2018, Spring 2019
Trained undergraduate-, graduate-, and postdoctoral-trainees on how to run and analyze li	
spectrometer; run and obtain high-resolution mass-spectra of liquid samples; run solid sa	= -
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	
reactions; monitor the progress of reactions; purify reaction intermediates; analyze GC data	
data; analyze ¹ H & ¹³ C NMR data; report spectroscopic and experimental data; and follow pro	
Teaching assistant, Undergraduate organic chemistry lab , SBU Led a weekly laboratory course for ~30 pre-med students on how to set up organic reacti	Fall 2013–Spring 2014
reaction product; analyze GC data; analyze IR data; report experimental data; and follow pro	
	all 2012, Summer 2013
Taught chemistry to underprivileged, primarily Hindi-speaking high schoolers preparing fo	
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PROBBINION AT SERVICE	
PROFESSIONAL SERVICE Reviewer! Journals: RSC Organic & Bimolecular Chemistry (2020–). ChemBioChem (2020–).	2020-)
Reviewer Journals: RSC Organic & Bimolecular Chemistry (2020–), ChemBioChem (2020–)	
Reviewer Journals: RSC Organic & Bimolecular Chemistry (2020–), ChemBioChem (2021), Gordon Research Seminar	
Reviewer Journals : RSC Organic & Bimolecular Chemistry (2020–), ChemBioChem (2021), Gordon Research Seminar (2022), 70th Lindau Nobel Laureate Meetings	s-Bioorganic Chemistry
Reviewer Journals: RSC Organic & Bimolecular Chemistry (2020–), ChemBioChem (2021), Gordon Research Seminar (2022), 70th Lindau Nobel Laureate Meetings Co-Chair, Gordon Research Seminars-Bioorganic Chemistry	s-Bioorganic Chemistry 2022
Reviewer Journals: RSC Organic & Bimolecular Chemistry (2020–), ChemBioChem (2 Meetings: European Molecular Imaging Meeting (2021), Gordon Research Seminar (2022), 70th Lindau Nobel Laureate Meetings Co-Chair, Gordon Research Seminars-Bioorganic Chemistry Janelia Association of Research Scientists	s-Bioorganic Chemistry 2022 2021–
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Reviewer Journals: RSC Organic & Bimolecular Chemistry (2020–), ChemBioChem (2 Meetings: European Molecular Imaging Meeting (2021), Gordon Research Seminar (2022), 70th Lindau Nobel Laureate Meetings Co-Chair, Gordon Research Seminars-Bioorganic Chemistry Janelia Association of Research Scientists Moderator, 70th Lindau Nobel Laureate Meeting Open Exchange Sessions Discussion leader, Gordon Research Seminars-Bioorganic Chemistry Vice-Chair, Gordon Research Seminars-Bioorganic Chemistry President, Graduate Chemical Society, SBU	s-Bioorganic Chemistry 2022 2021– 2021 2019
Reviewer Journals: RSC Organic & Bimolecular Chemistry (2020–), ChemBioChem (2021), Gordon Research Seminar (2022), 70th Lindau Nobel Laureate Meetings Co-Chair, Gordon Research Seminars-Bioorganic Chemistry Janelia Association of Research Scientists Moderator, 70th Lindau Nobel Laureate Meeting Open Exchange Sessions Discussion leader, Gordon Research Seminars-Bioorganic Chemistry Vice-Chair, Gordon Research Seminars-Bioorganic Chemistry President, Graduate Chemical Society, SBU President, Student Invited Speaker Committee, Stony Brook Chemistry	2022 2021– 2021 2019 2019 Apr 2017–Apr 2019 Spring 2017
Reviewer Journals: RSC Organic & Bimolecular Chemistry (2020–), ChemBioChem (2021), Gordon Research Seminar (2022), 70th Lindau Nobel Laureate Meetings Co-Chair, Gordon Research Seminars-Bioorganic Chemistry Janelia Association of Research Scientists Moderator, 70th Lindau Nobel Laureate Meeting Open Exchange Sessions Discussion leader, Gordon Research Seminars-Bioorganic Chemistry Vice-Chair, Gordon Research Seminars-Bioorganic Chemistry President, Graduate Chemical Society, SBU President, Student Invited Speaker Committee, Stony Brook Chemistry Moderator (& organizer), Grad. Chemical Society career panel on non-academic career	2022 2021– 2021 2019 2019 Apr 2017–Apr 2019 Spring 2017 ers Spring 2016
Reviewer Journals: RSC Organic & Bimolecular Chemistry (2020–), ChemBioChem (2022), 70th Lindau Nobel Laureate Meetings Co-Chair, Gordon Research Seminars-Bioorganic Chemistry Janelia Association of Research Scientists Moderator, 70th Lindau Nobel Laureate Meeting Open Exchange Sessions Discussion leader, Gordon Research Seminars-Bioorganic Chemistry Vice-Chair, Gordon Research Seminars-Bioorganic Chemistry President, Graduate Chemical Society, SBU President, Student Invited Speaker Committee, Stony Brook Chemistry Moderator (& organizer), Grad. Chemical Society career panel on non-academic career Moderator (& organizer), Graduate Career Association career panel on entrepreneur	2022 2021– 2021 2021 2019 2019 Apr 2017–Apr 2019 Spring 2017 ers Spring 2016 ship Fall 2015
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3MT (3-minute thesis) Judge, SBU

Graduate Chemical Society research photo contest winner, SBU

Founder, BrainChem (~500 subscribers)

A page for non-scientists where we explain interesting tidbits about chemistry and ecology using simple graphics