

Jibin Sadasivan

PhD Candidate

Department of Biochemistry and Molecular Biology

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Education:

PhD; September 2016 – present

Department of Biochemistry and Molecular Biology, University of British Columbia, Vancouver, Canada

PhD Thesis: “*Characterization of stress granule formation during virus infection*” (Advisor: Dr. Eric Jan, Professor, UBC)

BS-MS Dual Degree; July 2011 – June 2016

Department of Biological Sciences, Indian Institute of Science Education and Research (IISER), Kolkata, India

Masters Thesis: “*Trafficking of coronavirus spike protein plays an important role in cell-to-cell fusion*” (Advisor: Dr. Jayasri Das Sarma, Professor, DBS, IISER, Kolkata)

Publications

Research Article

- **Jibin Sadasivan**, Manmeet Singh and Jayasri Das Sarma; “*Cytoplasmic tail of coronavirus spike protein has intracellular targeting signal*” *Journal of Biosciences* 2017 Jun;42(2):231-244

Book Chapters

- **Jibin Sadasivan***, Reid Warsaba* and Eric Jan “*Dicistroviruses: Host molecular Interactions*” In *Insect Molecular Virology: Advances and Emerging Trends*, B.C. Bonning, ed. (Norfolk, UK: Caister Academic Press), pp (*equal contribution)
- **Jibin Sadasivan***, Reid Warsaba* and Eric Jan “*Dicistroviruses: Host molecular Interactions*” *Curr Issues Mol Biol.* 2020;34:83-112 (*equal contribution)
- **Jibin Sadasivan**, Neha Pradhan, Ayusman Dash, Ananya Acharya and Sutapa Bose “*Interactions between plants metals and microbes*”, CRC Press, 2017
- Neha Pradhan, Arnab Majumder, **Jibin Sadasivan**, Ananya Acharya, Swathy Babu and Sutapa Bose “*Microbial contamination and food degradation*”, Hand book of Bioengineering, Elsevier, 2017

Oral presentations

- **Jibin Sadasivan**, Anthony Khong, Anastasia Hyrina and Eric Jan, “Jack of all trades: CrPV 1A protein disrupts stress granule formation and RNA export” in the Indo-US Symposium on Infection, Immunity and Pathobiology of diseases-2019, Sinclairs Retreat, Port Blair, Andaman, India
- **Jibin Sadasivan**, Anastasia Hyrina, Marli Vlok, Dora Xiong and Eric Jan, “Jack of all trades: CrPV 1A protein disrupts stress granule formation and RNA export” in American Society of Virology Meeting 2019, University of Minnesota, Minneapolis, USA
- **Jibin Sadasivan**, Anastasia Hyrina, Anthony Khong and Eric Jan, “Cricket Paralysis Virus 1A protein disrupts stress granule formation” in Ribowest Conference-2018, University of Lethbridge, Alberta, Canada
- **Jibin Sadasivan**, Anthony Khong, Anastasia Hyrina and Eric Jan, “Mechanistic insights into the into the disruption of stress granule assembly in insect and human cells by multifunctional cricket paralysis virus 1A protein” in the RNA granules meeting-2018, University of Heidelberg, Heidelberg, Germany

Posters

- **Jibin Sadasivan**, Anthony Khong, Anastasia Hyrina and Eric Jan, “Jack of all trades: An insect viral protein disrupts stress granule formation and RNA export” in the Indo-US Symposium on Infection, Immunity and Pathobiology of diseases-2019, Sinclairs Retreat, Port Blair, Andaman, India
- **Jibin Sadasivan**, Anthony Khong, Anastasia Hyrina and Eric Jan, “Jack of all trades: CrPV 1A protein modulates cellular pathways” in the Life Science Research Night-2018, UBC, Vancouver, Canada
- **Jibin Sadasivan**, Anthony Khong, Anastasia Hyrina and Eric Jan, “Mechanistic insights into the disruption of stress granule assembly in insect and human cells by multifunctional cricket paralysis virus 1A protein” in the Protein Synthesis and Translational Control meeting-2017, EMBL, Heidelberg, Germany
- **Jibin Sadasivan** and Eric Jan, “Dynamics of gene expression during Cricket Paralysis Virus infection” in Ribowest Conference 2017, University of British Columbia, Vancouver, Canada
- **Jibin Sadasivan** and Jayasri Das Sarma, “Trafficking of coronavirus spike protein may play an important role in cell-to-cell fusion” Department of Biological Sciences Research Day, 2016, IISER Kolkata, India
- Manmeet Singh, Abhinoy Kishore, **Jibin Sadasivan**, Debnath Pal and Jayasri Das Sarma “Two consecutive central proline in the putative fusion domain of Mouse hepatitis Virus plays important role in pathogenesis” in Frontiers in Modern Biology - 2015, Kolkata India
- Levi Marincin, **Jibin Sadasivan**, Bridget Sanford and Randall J Cohrs, “3'-Sequencing of Novel ORF's of Varizella Zoster Virus Open Reading Frame” in the American Society of Microbiology (ASM) Tri-branch meeting -2014 in Durango, Colorado, United States
- Punnepalli Sunanda, Bankala Krishnarjuna, Abhinoy Kishore, Sreparna Vappala, **Jibin S**, Jayasri Das Sharma and Srinivasa Rao Raghothama “An NMR study of putative fusion domain of mouse hepatitis virus spike protein” in the Annual NMR conference - 2014 in Amritsar, India

Academic Awards:

- SERB-UBC Doctoral Scholarship from Govt. of India (September 2016- present)
- Faculty of Medicine, Graduate Award from University of British Columbia, Canada (Sept 2016-present)
- International Tuition Award from University of British Columbia, Vancouver, Canada (Sept 2016-present)
- Travel Award (500 USD) for attending the Indo-US Symposium on Infection, Immunity and Pathobiology of diseases-2019, Sinclairs Retreat, Port Blair, Andaman, India
- Company of Biologist Oration award (400 USD) for oral presentation in the Indo-US Symposium on Infection, Immunity and Pathobiology of diseases-2019, Sinclairs Retreat, Port Blair, Andaman, India
- Travel Award (500 USD) for attending American Society for Virology Annual Meeting-2019, University of Minnesota, USA
- 3rd Prize for Oral presentation in Ribowest Conference-2018 held in University of Lethbridge, Alberta, Canada
- Travel Award (500 CAD) for attending Ribowest Conference – 2018, University of Lethbridge, Alberta, Canada
- Junior Research Fellowship, Council of Scientific and Industrial Research, Government of India (Declined)
- Du Pré grant of £5000 to young MS researchers from Multiple Sclerosis International Federation (MSIF), United Kingdom, 2014
- Innovation in Science Pursuit for Inspired Research (INSPIRE) scholarship for undergraduate students

from Department of Science and Technology (DST), Government of India (July 2011 – June 2016)

- Visiting Students Fellowship (VSFP) for Summer Internship from Indian Institute of Science Education and Research (IISER), Thiruvananthapuram (May 2012 – July 2012)

Teaching/Mentoring

Teaching

- Teaching Assistant, BIOC 302, General Biochemistry at University of British Columbia (January 2019- April 2019)
- Teaching Assistant, (Molecular Cloning Practical's, LS3204) for 3rd year BS-MS students of IISER, Kolkata (January 2016 – April 2016)
- Teaching Assistant (Biochemistry Practical's, LS2102) for 2nd year BS-MS students of IISER, Kolkata (August 2015- December 2015)

Mentoring

Undergraduates

1. Allison Li and Lauren Thor, Highschool students, Jan Lab, Spring 2017
2. Katherine Meretes, German Visiting Fellow, Jan Lab, September 2017 – March 2018
3. Anna Shen, Summer Intern, Jan Lab May 2018 – July 2018
4. Dora Xiong, Co-op student, Jan Lab Sept 2018 – April 2019
5. Roy Zhao, Work Learn Student Jan Lab September 2019 – March 2020
6. Paige Basner, Summer Intern May 2019 – August 2019
7. Tobias Ellinger, German Visiting student September 2019 – January 2019
8. Fardad Asghari Zadeh, Work learn student October 2019 – December 2019
9. Yihang Chen, UBC Directed studies student January 2020 – March 2020
10. Philipp Broschard, German Visiting student March 2020 – March 2020

Memberships

1. RNA Society (2020-)
2. American Society for Virology, USA (2019-)
3. Canadian Society for Virology, Canada (2019-)
4. Canadian Society for Molecular Bioscience, Canada (2017-)
5. Research Alumni Network, Multiple Sclerosis International Federation, United Kingdom (2014-)

Other Activities

- Biology Facilitator, Future Science Leaders Program, Telus Science world, Vancouver, Canada (2019)
- Student Representative, Academic Committee, of Department of Biological Sciences (DBS), IISER, Kolkata (2013-2014)
- Event Organizer of Junkyard Wars, a core event in Inquivesta 2013, Science Festival of IISER, Kolkata.
- Volunteer, Vijyoshi-2015 (National Science Camp) organized by KVPY and Department of Science and Technology, Government of India (3 days)
- Participated in “Frontiers in Modern Biology (FIMB), a national symposium organized by the Department of Biological Sciences, IISER, Kolkata in 2013 and 2015
- Volunteer, National Service Scheme, Government of India (300 hours)