

Dr. Gunjan Kumar Saurav

Personal Profile



Dr. Gunjan Kumar Saurav
Assistant Professor
Department of Zoology
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डॉ. गुंजन कुमार सौरभ
सहायक आचार्य
प्राणि विज्ञान विभाग
राजीव गांधी विश्वविद्यालय
रोनो हिल्स, दोईमूख
अरुणाचल प्रदेश -७९१११२, भारत

Educational Profile

- Ph.D. (Zoology):** University of Delhi, Delhi; 2018
M.Phil. (Zoology): University of Delhi, Delhi; 2013
M.Sc. (Zoology): Hans Raj College, University of Delhi, Delhi; 2011
B.Sc. (Zoology): St. Xavier's College, Ranchi University, Ranchi, Jharkhand; 2009

Professional Experience

- Assistant Professor**, Department of Zoology,
Rajiv Gandhi University, Arunachal Pradesh,
India October, 2021 - Present
- Assistant Professor**, Department of Zoology,
M. L. Arya College, Purnea University, Bihar,
India October, 2019 - October 2021
- Research Associate (Post-Doctoral Fellow)**,
Department of Zoology, University of Delhi,
India, Supervisor: Prof. Rajagopal Raman August, 2018-October, 2019

Awards and Honours

1. Qualified GATE, February'2011 in Life Sciences
2. Qualified CSIR UGC NET-LS, December'2010 in Life Sciences
3. Received National Scholarship in Zoology from University of Delhi, Session- 2009-2011

Fellowship/Membership of Professional Bodies

1. Life fellow of The Entomological Society of India (FESI), India
2. Life member of Association of Microbiologists of India (AMI), India
3. Life member of Vijana Bharti (Vibha), India

Administrative/Official Responsibilities

1. Program Officer of NSS (from 2022 onwards)
2. NAAC member (For NAAC AQAR and SSR)

Research Interest

1. Molecular entomology
2. Insect-endosymbiotic bacteria interaction
3. Various aspects of entomology

Research Publication

Google Scholar Link: <https://scholar.google.co.in/citations?user=q0FmYmUAAAAJ&hl=en>

(* Equal First Author, # Corresponding Author)

1. Karmakar, S. *, **Saurav, G. K. ***, Tangjang, S., Yadav, K., Yirang, L., Paron, O. (2024). Phage therapy: a promising cure for bacterial infections in humans. **Journal of Bioresources**, 11 (2), 19-25. [Online ISSN- 2582-2276], **Accepted**.
2. Yadav, K., **Saurav, G. K.**, Rana, V.S., Rawat, N., Anjali, Jamwal, R., Singh, O. P., Bandyopadhyay, A., Rajagopal, R. (2024). Polyubiquitin protein of *Aedes aegypti* as an interacting partner of dengue virus envelope protein. **Medical and Veterinary Entomology**, 38 (1): 48-58. [Online ISSN- 1365-2915]
3. Jamwal, R., Pukhrambam, P. D., Rani, V., Rawat, N., Daimei, G., **Saurav, G. K.**, Renukadevi, P., Yadav, K., Anjali, Rajagopal, R. (2024). Structural and functional analysis of Groundnut bud necrosis virus (GBNV) using computational and biochemical Approaches. **Molecular Biotechnology**. [Online ISSN- 1559-0305]

4. Biju, T., Misaya, A., **Saurav, G. K.**, Mize, D. (2023). Bird Diversity of Kamlang Wildlife Sanctuary and its Adjacent Areas: A Preliminary Survey. *Indian Journal of Applied & Pure Biology*. Special Issue 2023, 57-64 [ISSN: 0970-2091]
5. Kumari, R., Suman, K., Karmakar, S., Mishra, V., Lakra, S. G., **Saurav, G. K.**, Mahto, B. K. (2023). Regulation and safety measures for nanotechnology-based agri-products. **Frontiers in Genome Editing**. 5:1200987. doi: 10.3389/fgeed.2023.1200987. [Online ISSN 2673-3439]
6. Yadav, K., Rana, V. S., Anjali, **Saurav, G. K.**, Rawat, N., Kumar, A., Sunil, S., Singh, O. P., Rajagopal, R. (2023). Mucin Protein of *Aedes aegypti* Interacts with Dengue Virus 2 and Influences Viral Infection. **Microbiology Spectrum**. 11 (2): e0250322. Advance online publication. <https://doi.org/10.1128/spectrum.02503-22> [Online ISSN- 2165-0497]
7. Rana, V. S., Popli, S., **Saurav, G. K.**, Yadav, K., Kumar, A., Sunil, S., Kumar, N., Singh, O. P., Natarajan, K., Rajagopal, R. (2020). *Aedes aegypti* lachesin protein binds to the domain III of envelop protein of Dengue virus-2 and inhibits viral replication. **Cellular Microbiology**. 22 (7): e13200. <https://doi.org/10.1111/cmi.13200> [Online ISSN- 1462-5822]
8. **Saurav, G. K.**, Rana, V. S., Popli, S., Daimei, G., Rajagopal, R. (2019). A thioredoxin-like protein of *Bemisia tabaci* interacts with coat protein of begomoviruses. **Virus Genes**. 55: 356-367. <https://doi.org/10.1007/s11262-019-01657-z> [Online ISSN- 1572-994X]
9. Rana, V. S., Popli, S., **Saurav, G. K.**, Raina, H. S., Jamwal, R., Chaubey, R., Ramamurthy, V. V., Natarajan, K., Rajagopal, R. (2019). Implication of the whitefly, *Bemisia tabaci*, collagen protein in begomoviruses acquisition and transmission. **Phytopathology**. 109: 1481-1493. <https://doi.org/10.1094/PHYTO-03-18-0082-R> [Online ISSN- 1943-7684]
10. Daimei, G., Pukhrambam, P. D., **Saurav, G. K.**, Raina, H. S., Rajagopal, R. (2017). First Report of the natural occurrence of *Groundnut bud necrosis virus* (GBNV) on *Catharanthus roseus* in India. **Plant Disease**. 101: 1333. <https://doi.org/10.1094/PDIS-01-17-0108-PDN> [Online ISSN- 1943-7692]
11. Daimei, G., Raina, H. S., Pukhrambam, P. D., **Saurav, G. K.**, Renukadevi, P., Malathi, V. G., Senthilraja, C., Mandal, B., Rajagopal, R. (2017). Influence of *Groundnut bud necrosis virus* on the life history traits and feeding preference of its vector *Thrips palmi* Karny. **Phytopathology**. 107: 1440-1445 <https://doi.org/10.1094/PHYTO-08-16-0296-R> [Online ISSN- 1943-7684]

12. Shelly, A., Banerjee, C., **Saurav, G. K.**, Ray, A., Rana, V. S., Raman, R., Mazumder, S. (2017). *Aeromonas hydrophila*-induced alterations in cytosolic calcium activate pro-apoptotic cPKC-MEK1/2-TNF α axis in infected headkidney macrophages of *Clarias gariepinus*. **Developmental and Comparative Immunology**. 76: 392-402 <https://doi.org/10.1016/j.dci.2017.07.015> [Online ISSN- 0145-305X]
13. **Saurav, G. K.**, Daimei, G., Rana, V. S., Popli, S., Rajagopal, R. (2016). Detection and Localization of *Wolbachia* in *Thrips palmi* Karny (Thysanoptera: Thripidae). **Indian Journal of Microbiology**. 56: 167–171. <https://doi.org/10.1007/s12088-016-0567-7> [Online ISSN- 0973-7715]
14. Rana, V. S., Popli, S., **Saurav, G. K.**, Raina, H. S., Chaubey, R., Ramamurthy, V. V., Rajagopal, R. (2016). A *Bemisia tabaci* midgut protein interacts with begomoviruses and plays a role in virus transmission. **Cellular Microbiology**. 18: 663–678. <https://doi.org/10.1111/cmi.12538> [Online ISSN- 1462-5822]

Research Project:

S. no.	Project Title	Role	Funding Agency	Type, Year of Sanction, Period	Status
1.	Study of diversity of stingless bees in Arunachal Pradesh using morphological and molecular identification tools.	Principal Investigator	RGU-UGC (University Seed Grant)	Minor, 2022, Two years	Ongoing

Keynote Speaker/Plenary Lecture/Invited Lecture/Resource person

1. Invited Lecture on “Anti-Ragging and Its Causes,” on 17th August, 2024 in Anti-Ragging Awareness Week 2024, organized by National Institute of Technology (NIT), Jote, Arunachal Pradesh-791112.

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2. Invited lecture on “PCR and Gene Cloning” in “3 Days Workshop on Molecular Techniques”, from 10th June, 2024-12th June, 2024 organized by DBT Bio-tech Hub Department of Botany, Rajiv Gandhi University, Arunachal Pradesh-791112, India.
3. Lab training as resource person “Lab work clonal fidelity testing” in 7-Days hands-on training program on orchid cultivation, micro-propagation and clonal fidelity testing from 14th October, 2022 to 20th October, 2022 organized by Department of Botany, Rajiv Gandhi University, Arunachal Pradesh-791112, India.
4. Invited lecture on “Molecular techniques for clonal fidelity testing of micro-propagated Orchids” in 7-Days hands-on training program on orchid cultivation, micro-propagation and clonal fidelity testing from 14th October, 2022 to 20th October, 2022 organized by Department of Botany, Rajiv Gandhi University, Arunachal Pradesh-791112, India.
5. Invited Lecture on “*Begomovirus* interaction with its insect vector, *Bemisia tabaci*” at National Seminar “25 Years of Zoology, Rajiv Gandhi University” on 16th June, 2022, Organized by Department of Zoology, Rajiv Gandhi University, Doimukh, Arunachal Pradesh-791112.
6. Plenary Lecture on “Understanding the interaction of begomoviruses with its insect vector, *Bemisia tabaci*” at Applied Biology Research & Innovation Conference 2021 on December 18-20, 2021.

Workshop/Seminar/Conference/Lecture series Organized

1. Two Days Workshop On "Training on Camera Traps, GIS and Honey Bee Identification" from 5th March, 2024 to 6th March, 2024 by Department of Zoology, Rajiv Gandhi University, Arunachal Pradesh, India (Role: Coordinator).
2. Silver Jubilee Lecture Series, Lecture 3 (Speaker: Prof. O. P. Singh), on 22nd April, 2022, Department of Zoology, Rajiv Gandhi University, Doimukh, Arunachal Pradesh-791112, (Role: Coordinator).
3. Silver Jubilee Lecture Series, Lecture 2 (Speaker: Dr. Anwaruddin Choudhury), on 21th April, 2022, Department of Zoology, Rajiv Gandhi University, Doimukh, Arunachal Pradesh-791112, (Role: Coordinator).

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4. Silver Jubilee Lecture Series, Lecture 1 (Speaker: Prof. Samir Bhattacharya), on 25th March, 2022, Department of Zoology, Rajiv Gandhi University, Doimukh, Arunachal Pradesh-791112, (Role: Deputy Coordinator).
5. International Seminar on “Molecular Approaches in Zoological Research” on 24th February, 2022, Department of Zoology, Rajiv Gandhi University, Doimukh, Arunachal Pradesh-791112, (Role: Organizing Secretary).
6. National Seminar on “Population Explosion: Causes, Remedies and Impact on Environment” on 19th December, 2019, Department of Zoology, Purnea University, Purnea, Bihar, India, (Role: Organizing Secretary).

Induction/Orientation/Refresher Program etc. Attended

1. Successfully completed a “4-week Induction/Orientation Program” for Faculty in University/College/Institutes of Higher Education” from 23rd April, 2023- 22nd May, 2023 and obtained a grade A⁺ from Teaching and Learning Centre, Ramanujan College, University of Delhi, Delhi, India under the aegis of MHRD, PMMMNMTT.
2. Successfully completed a “2-week Refresher course in Zoology” from 15th December, 2021- 29th December, 2021 and obtained a grade A⁺ from Teaching and Learning Centre, Ramanujan College, University of Delhi, Delhi, India under the aegis of MHRD, PMMMNMTT.
3. Successfully completed a “4-week Induction/Orientation Program” for Faculty in University/College/Institutes of Higher Education” from 10th November, 2020- 09th December, 2020 and obtained a grade A⁺ from Teaching and Learning Centre, Ramanujan College, University of Delhi, Delhi, India under the aegis of MHRD, PMMMNMTT.

Seminar/Conference/Webinar Participation

1. Paper presentation on " Native belief system of Arunachal Pradesh, India: Donyi Polo Faith at International Conference held on the theme "Cultures in transformation: a subcontinental experience" in blended mode, on 2nd March, 2024 by Ram Lal Anand College, Delhi, India
2. Participated in National Conference of Virology (Virtual Mode) (VIROCON 2021), March 26-28, 2022, organized by Department of Microbiology, All India Institute of Medical

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Sciences, Bibinagar, Hyderabad, Telangana, under the aegis of Indian Virological Society (IVS).

3. Participated and presented poster entitled “Detection and localization of endosymbiotic bacteria- *Wolbachia* in *Thrips palmi* Karny (Thysanoptera: Thripidae)” at 57th Annual Conference of Association of Microbiologists of India & International Symposium on “Microbes and Biosphere: What’s New What’s Next”, 24th-27th November’2016, held at Gauhati University, Guwahati, Assam, India.
4. Participated and presented poster entitled “*Arsenophonus* GroEL shows more binding affinity than *Hamiltonella* GroEL with coat protein of ToLCNDV” at 8th International Geminivirus Symposium & 6th International ssDNA Comparative Virology Workshop, 07th-10th November’2016, held at New Delhi, India.
5. Participated and co-authored poster (awarded for best poster award) entitled “A *Bemisia tabaci* midgut protein interacts with begomoviruses and plays a role in virus transmission” in one day symposium on “Challenges in Plant Virology and Our Preparedness”, 5th December’2015, held at Division of Plant pathology, I.A.R.I, New Delhi, India.
6. Participated and presented poster entitled “Microbial degradation of HCH by sphingomanads” at Indo-Swiss Collaboration in Biotechnology (ISCB) International Conference, 9th-11th February’2011, held at the University of Delhi, Delhi, India.

Abstract Published

1. Abstract entitled “*Arsenophonus* GroEL shows more binding affinity than *Hamiltonella* GroEL with coat protein of ToLCNDV” of the 8th International Geminivirus Symposium and the 6th International ssDNA comparative virology workshop, 7th –10th November 2016, New Delhi (2016) *VirusDis.* 27(4):405–459. doi: 10.1007/s13337-016-0351-7]

Workshop Participation

1. One day skill development training in ornamental fish breeding and awareness on pearl culture on 16th December, 2021, at Aquaculture field school of Papum Pare Eco Agro,

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Sonajuli, Papum Pare, Arunachal Pradesh organized in collaboration with ICAR-Central Institute of Freshwater Aquaculture, Kausalyaganga, Bhubaneswar-751002, India.

2. Sixth workshop on 'Bioinformatics and Molecular Modeling in Drug Design' held during January 21, 2016 to January 23, 2016 at Dr. B. R. Ambedkar Centre for Biomedical Research, University of Delhi, Delhi-110007, India.
3. Twelfth UGC-Networking Resource Centre Workshop on 'Molecular Virology' held during March 20, 2015 to March 31, 2015 at Indian Institute of Science, Bangalore-560 012, India