

# Dr. Gunjan Kumar Saurav

## Personal Profile



**Dr. Gunjan Kumar Saurav**

**Assistant Professor, Department of Zoology**

**Rajiv Gandhi University, Rono Hills, Doimukh**

**Arunachal Pradesh-791112**

**Email: [gunjan.saurav@rgu.ac.in](mailto:gunjan.saurav@rgu.ac.in)**

**Mobile no.: 9555868650**

## Educational Profile

- Ph.D.** University of Delhi, Delhi; 2018  
Supervisor: Prof. Rajagopal Raman
- M.Phil.** University of Delhi, Delhi; 2013  
Supervisor: Prof. Rajagopal Raman
- M.Sc.** Hans Raj College, University of Delhi, Delhi; 2011
- B.Sc.** 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

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

### **Membership of Professional Bodies**

1. Life member of Association of Microbiologists of India (AMI), India
2. Life member of Vijana Bharti (Vibha), India

### **Research Interest**

1. Molecular Entomology
2. Insect-Endosymbiotic Bacteria Interaction
3. Insect-Virus Interaction
4. Insect Pest Management
5. Pathogen Biology

### **Research Publication**

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

1. *Aedes aegypti* lachesin protein binds to the domain III of envelop protein of Dengue virus-2 and inhibits viral replication: Rana, V. S.; Popli, S.; Saurav, G. K.; Yadav, K.; Kumar, A.; Sunil, S.; Kumar, N.; Singh, O. P.; Natarajan, K.; Rajagopal, R.; *Cellular Microbiology*, **2020**, 22: e13200.
2. A thioredoxin-like protein of *Bemisia tabaci* interacts with coat protein of begomoviruses: Saurav, G. K.; Rana, V. S.; Popli, S.; Daimei, G.; Rajagopal, R.; *Virus Genes*, **2019**, 55: 356-367.
3. Implication of the whitefly, *Bemisia tabaci*, collagen protein in begomoviruses acquisition and transmission; Rana, V. S.; Popli, S.; Saurav, G. K.; Raina, H. S.; Jamwal, R.; Chaubey, R.; Ramamurthy, V. V.; Natarajan, K.; Rajagopal, R.; *Phytopathology*, **2019**, 109: 1481-1493.
4. Influence of *Groundnut bud necrosis virus* on the life history traits and feeding preference of its vector *Thrips palmi* Karny: Daimei, G.; Raina, H. S.; Pukhrambam, P.

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- D.; Saurav, G. K.; Renukadevi, P.; Malathi, V. G.; Senthilraja, C.; Mandal, B.; Rajagopal, R.; **2017**, *Phytopathology*, 107: 1440-1445.
5. First Report of the natural occurrence of *Groundnut bud necrosis virus* (GBNV) on *Catharanthus roseus* in India: Daimei, G.; Pukhrambam, P. D.; Saurav, G. K.; Raina, H. S.; Rajagopal, R.; *Plant Disease*, **2017**. 101: 1333.
  6. *Aeromonas hydrophila*-induced alterations in cytosolic calcium activate pro-apoptotic cPKC-MEK1/2-TNF $\alpha$  axis in infected headkidney macrophages of *Clarias gariepinus*: Shelly, A.; Banerjee, C.; Saurav, G. K.; Ray, A.; Rana, V. S.; Raman, R.; Mazumder, S.; *Developmental and Comparative Immunology*, **2017**, 76: 392-402.
  7. Detection and Localization of *Wolbachia* in *Thrips palmi* Karny (Thysanoptera: Thripidae): Saurav, G. K.; Daimei, G.; Rana, V. S.; Popli, S.; Rajagopal, R.; *Indian Journal of Microbiology*, **2016**, 56: 167–171.
  8. A *Bemisia tabaci* midgut protein interacts with begomoviruses and plays a role in virus transmission: Rana, V. S.; Popli, S.; Saurav, G. K.; Raina, H. S.; Chaubey, R.; Ramamurthy, V. V.; Rajagopal, R.; *Cellular Microbiology*, **2016**, 18: 663–678.

### **Research Project:**

<b>S. no.</b>	<b>Project Title</b>	<b>Funding Agency</b>	<b>Year of Sanction, Period</b>
1.	Study of diversity of stingless bees in Arunachal Pradesh using morphological and molecular identification tools.	University Seed Grant	2022, Two years

### **Plenary/Invited Lecture delivered**

1. Invited Lecture on “*Begomovirus* interaction with its insect vector, *Bemisia tabaci*” at National Seminar “25 Years of Zoology, Rajiv Gandhi University” on 16<sup>th</sup> June, 2022, Organized by Department of Zoology, Rajiv Gandhi University, Doimukh, Arunachal Pradesh-791112.

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2. 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.

### **Seminar/Conference/Lecture series Organized**

1. Silver Jubilee Lecture Series, Lecture 3 (Speaker: Prof. O. P. Singh), on 22<sup>nd</sup> April, 2022, Department of Zoology, Rajiv Gandhi University, Doimukh, Arunachal Pradesh-791112, (Role: Coordinator).
2. Silver Jubilee Lecture Series, Lecture 2 (Speaker: Dr. Anwaruddin Choudhury), on 21<sup>th</sup> April, 2022, Department of Zoology, Rajiv Gandhi University, Doimukh, Arunachal Pradesh-791112, (Role: Coordinator).
3. Silver Jubilee Lecture Series, Lecture 1 (Speaker: Prof. Samir Bhattacharya), on 25<sup>th</sup> March, 2022, Department of Zoology, Rajiv Gandhi University, Doimukh, Arunachal Pradesh-791112, (Role: Deputy Coordinator).
4. International Seminar on “Molecular Approaches in Zoological Research” on 24<sup>th</sup> February, 2022, Department of Zoology, Rajiv Gandhi University, Doimukh, Arunachal Pradesh-791112, (Role: Organizing Secretary).
5. National Seminar on “Population Explosion: Causes, Remedies and Impact on Environment” on 19<sup>th</sup> 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 10<sup>th</sup> November, 2020- 09<sup>th</sup> December, 2020 and obtained a grade A<sup>+</sup> 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 15<sup>th</sup> December, 2021- 29<sup>th</sup> December, 2021 and obtained a grade A<sup>+</sup> from Teaching and Learning Centre,

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Ramanujan College, University of Delhi, Delhi, India under the aegis of MHRD, PMMMNMTT.

### **Seminar/Conference/Webinar Participation**

1. Participated in National Conference of Virology (Virtual Mode) (VIROCON 2021), March 26-28, 2022, organized by Department of Microbiology, All India Institute of Medical Sciences, Bibinagar, Hyderabad, Telangana, under the aegis of Indian Virological Society (IVS).
2. Participated and presented poster entitled “Detection and localization of endosymbiotic bacteria- *Wolbachia* in *Thrips palmi* Karny (Thysanoptera: Thripidae)” at 57<sup>th</sup> Annual Conference of Association of Microbiologists of India & International Symposium on “Microbes and Biosphere: What’s New What’s Next”, 24<sup>th</sup>-27<sup>th</sup> November’2016, held at Gauhati University, Guwahati, Assam, India.
3. Participated and presented poster entitled “*Arsenophonus* GroEL shows more binding affinity than *Hamiltonella* GroEL with coat protein of ToLCNDV” at 8<sup>th</sup> International Geminivirus Symposium & 6<sup>th</sup> International ssDNA Comparative Virology Workshop, 07<sup>th</sup>-10<sup>th</sup> November’2016, held at New Delhi, India.
4. 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”, 5<sup>th</sup> December’2015, held at Division of Plant pathology, I.A.R.I, New Delhi, India.
5. Participated and presented poster entitled “Microbial degradation of HCH by sphingomanads” at Indo-Swiss Collaboration in Biotechnology (ISCB) International Conference, 9<sup>th</sup>-11<sup>th</sup> 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

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and the 6th International ssDNA comparative virology workshop, 7<sup>th</sup> –10<sup>th</sup> 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 16<sup>th</sup> December, 2021, at Aquaculture field school of Papum Pare Eco Agro, 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.