

Dr. Rachana R. R

Division

Division of Germplasm Collection and Characterisation
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Designation

Scientist (Entomology)

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Professional Experience

5 years

Qualification

Ph.D (Agricultural Entomology)

Specilization

Thrips taxonomy

Training

Professional Attachment Training on thrips taxonomy (10th May – 10th August, 2015) at Zoological Survey of India, Kolkota

Awards and Honours

Best oral presentation award in VII National Conference on Biological Control: 75 Years of Biological Control of Pests and Diseases in Agriculture: Challenges and Way Forward organized by ICAR-National Bureau of Agricultural Insect Resources, Bengaluru, 15–17 December 2022. Received Kanwar Virender Singh Memorial All India Best Publication Award 2019. Recognised as the fellow of the Society for Biocontrol Advancement, Bengaluru. Best poster award in VI National Conference on Biological Control: Innovative Approaches for Green India organized by National Bureau of Agricultural Insect Resources (NBAIR), Bengaluru, 3-5 March, 2021. Young Woman Scientist Award-2019 for significant contribution to biosystematics and taxonomy of Thysanoptera from Dr. B. Vasantharaj David Foundation, Chennai. Best poster award in I International Biodiversity Congress held from 6 – 9 November 2016 in Delhi.

Brief Achievements

Diagnosed a terebrantian thrips genus belonging to subfamily Thripinae new to Science. Described four thrips species infesting flowers new to Science. Lectotype was designated for *Gynaikothrips microchaetus*. Redescribed *Aduncothrips asiaticus* and *Gynaikothrips microchaetus*. Ten species and two genera of thrips were recorded for the first time from India.

Recognition

- Served as a member of national committee formed by Directorate of Plant Protection Quarantine and Storage (DPPQ&S) for the development of Standard Operational Practices (SOP) for integrated management of *Thrips parvispinus*.
- Served as a member of national committee formed by Ministry of Agriculture and Farmer's Welfare to conduct the survey and assessment of thrips infestation in chilli crops at Andhra Pradesh and Telangana.
- Received SBA-Dr Abraham Verghese Award for Best Ph. D. thesis in Entomology (Bioecology, Biosystematics, Biocontrol and Biotechnology).
- Awarded University of Agricultural Sciences (Dharwad) Gold Medal for securing the highest OGPA in Ph.D. (Agricultural Entomology).
- Best oral presentation award in V National symposium on plant protection in horticulture: Challenges and a roadmap ahead, ICAR-Indian Institute of Horticultural Research, Bengaluru, 27–29 December 2021.
- Awarded UAS, Bangalore Gold Medal for Merit for M.Sc (Agricultural Entomology)
- Recipient of ICAR Junior Research Fellowship (JRF) during M.Sc degree
- Awarded KAU merit scholarship during four year tenure of B.Sc (Agriculture) degree
- Best poster award in IV National Symposium on Plant Protection in Horticultural Crops organized by Indian Institute of Horticultural Research (IIHR), Bangalore, 25-28 April, 2012.
- Dr. M. Puttarudraiah Endowment Gold Medal for securing highest OGPA in M.Sc (Agricultural Entomology)
- Dr. V.P. Rao Memorial Gold Medal for securing highest OGPA in M.Sc (Agricultural Entomology)

Publications

Total Number of Publication = 30

Selected Publications

- Rachana, R.R., Amarendra, B. and Vanitha, K. 2023. A new species of Hydatothrips (Thysanoptera, Thripidae) from India with one new record. *Zootaxa*. 5319 (4): 589–594.
- Rachana, R.R., Amarendra, B., Gracy, R.G., Nagarjuna Reddy, K.V. 2023. A remarkable new genus of Thripinae (Thysanoptera, Thripidae) without antecellar setae from India. *ZooKeys*. 1141: 65–73.
- Rachana, R.R., Amarendra, B. and Gandhi Gracy, R. 2022. The Sericothripinae genus Hydatothrips (Thysanoptera, Thripidae) in India with description of a new species. *Zootaxa*. 5169 (2): 177–182.
- Rachana, R.R., Amarendra, B. and Gandhi Gracy, R. 2022. Studies on Pseudodendrothrips (Thysanoptera, Thripidae) from India, with one new species. *Zootaxa*. 5209 (3): 365–372.
- Rachana, R.R., Roselin, P., Amutha, M., Sireesha, K. and Narasa Reddy G. 2022. Invasive pest, *Thrips parvispinus* (Karny) (Thysanoptera: Thripidae)—a looming threat to Indian agriculture. *Current Science*. 122 (2): 211–213.

- Sreerama Kumar, P. and Rachana, R.R. 2021. Scirtothrips dorsalis (Thysanoptera: Thripidae) is a pest of celery, *Apium graveolens* (Apiales: Apiaceae): First report and diagnostic characters. *Journal of Integrated Pest Management*. 12(1): 46–51.
- Rachana, R.R. 2021. A new species of Neohydatothrips (Thysanoptera: Thripidae) from India. *Zootaxa*. 4920 (2): 297–300.
- Rachana, R.R. and Manjunath, K. 2020. A new species of the genus Lefroyothrips (Thysanoptera: Thripidae) from India. *Zootaxa*. 4896 (4): 591–594.
- Rachana, R.R., Rachana, B. and Rayar, S.G. 2020. Redescription of *Aduncothrips asiaticus* (Ramakrishna and Margabandhu) (Thysanoptera: Aeolothripidae) with first description of the male. *Oriental Insects*, 54(3): 398-401.
- Sandeep Singh and Rachana, R.R. 2020. Diversity and population dynamics of thrips species on horticultural crops in Punjab. *Indian Journal of Horticulture*, 77(4): 647–654.
- Rachana, R.R., Mound, L.A. and Rayar, S.G. 2019. Tryphactothripini of India (Thysanoptera, Thripidae, Panchaetothripinae), with identification keys and a new record of *Opimothrips*. *ZooKeys*. 884: 43-52.
- Shyam, M., Johnson, Th., Rachana, R.R., Varatharajan, R. and Mound L.A. 2019. Redescription and lectotype designation of *Gynaikothrips microchaetus* Ananthakrishnan & Jagadish (Thysanoptera: Phlaeothripidae). *Zootaxa*, 4701 (6): 588 – 590.
- Rachana, R. R. and Varatharajan, R. 2018. Two new reports of thrips (Thysanoptera: Terebrantia: Thripidae) from India. *Journal of Threatened Taxa*, 10(2): 11312 – 11315.
- Rachana, R. R. and Varatharajan, R. 2018. New reports of thrips (Thysanoptera: Thripidae) from India. *Journal of Threatened Taxa*, 10(9): 12226 – 12229.
- Rachana, R.R., Roselin, P. and Varatharajan, R. 2018. Report of invasive thrips species, *Thrips parvispinus* (Karny) (Thripidae: Thysanoptera) on *Dahlia rosea* (Asteraceae) in Karnataka. *Pest Management in Horticultural Ecosystems*, 24(2): 187-188.
- Rachana, R.R. and Varatharajan, R. 2017. Additions to the thrips (Thysanoptera) fauna of Odisha, India. *Journal of Applied and Natural Science*. 9 (3): 1522 – 1544.
- Rachana, R. R. and Varatharajan, R. 2017. Additions to the terebrantian (Insecta: Thysanoptera) fauna of Kerala, India. *Journal of Applied and Natural Science*, 8(3): 1507 – 1509.
- Rachana, R.R. 2017. First report of the New World thrips genus *Plesiothrips* Hood (Thysanoptera: Thripidae) from India with a note on *Plesiothrips perplexus*. *Journal of Entomology and Zoology Studies*. 5 (3): 428 – 429.
- Rachana, R.R. and Varatharajan, R. 2017. A new species of the genus *Bregmatothrips* (Thysanoptera: Thripidae) from the Anadaman Islands of India. *Zootaxa*. 4317 (3): 597 – 600.
- Rachana, R.R. and Varatharajan, R. 2017. Checklist of Terebrantian thrips (Insecta: Thysanoptera) recorded from India. *Journal of Threatened Taxa*. 9 (1): 9748 – 9755.
- Rachana, R.R. and Varatharajan, R. 2017. A new species of the genus *Thrips* (Thysanoptera: Thripidae) from the Western Ghats of India. *Zootaxa*. 4221 (4): 491 – 493.
- Rachana, R. R. and Varatharajan, R. 2016. *Crotonothrips polyalthiae* Mound and Nasruddin (Thysanoptera: Tubulifera) – a new record for India. *Entomon*, 41(4): 355 – 360.

- Rachana. R. R., Jayasimha. G. T. and Richa, V. 2016. A review of the pest, Tospoviruses vector status of melon thrips, Thrips palmi and its natural enemies for biological control. *International Journal of Pure and Applied Bioscience*. 4 (2): 2320 – 7051.
- Rachana. R. R., Jayasimha. G. T., Richa, V. and Manjunatha. M. 2016. Evaluation of fungal pathogens, *Fusarium semitectum* Berk and Ravenel and *Hirsutella thompsonii* Fisher against red spider mite, *Tetranychus neocaledonicus* (Andre) of okra under laboratory and greenhouse conditions. *Journal of Applied and Natural Science*, 8 (1): 375 – 380.
- Varatharajan. R, Shyam Maisnam, Chochong. V.S. and Rachana. R.R. 2016. Pollination potential of thrips (Insecta: Thysanoptera) – an overview. *Zoo's print*. 31 (4): 6-12.
- Rachana. R. R., Jayasimha. G. T., Richa, V. and Manjunatha. M. 2015. Efficacy of fungal pathogens, *Fusarium semitectum* Berk and Ravenel and *Hirsutella thompsonii* Fisher against red spider mite, *Tetranychus neocaledonicus* (Andre) of okra under laboratory and field conditions. *Pest Management in Horticultural Ecosystems*, 21 (2): 162 – 168