



Dr. S. SEKAR
Assistant Professor
Agricultural Entomology

Contact

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Academic Qualification : Ph.D., in Entomology

Teaching Experience : 4 Years

Research Experience : 5 Years

Area of Specialization / Interest:

Host Plant Resistance, Bio Control, Insect taxonomy, QTLs mapping, Molecular Markers

Publications:

International		National		Others	
Journals	Conference	Journals	Conference	Book Chapters	Books
3	4	6	3	7	1

Patent Files / Published: 0

- Nil

Achievements & Awards: 4

- **Student Senior Research Fellow (SRF)** during Ph. D Research work.
- **Best poster presentation award** (ISSPP SOUTH ZONAL SEMINAR on Crop Physiology – Emerging Challenges and Opportunities for Sustainable Agriculture held on 3rd March, 2015)
- **Best oral paper presentation award** (National Tamil conference on Agriculture Sciences held on 5th & 6th August, 2016)
- **Dr. M S Swaminathan Young Scientist Award** for contribution in the field of Agricultural Entomology on “Nation Conference and Award ceremony on innovation in science, Agricultural and adaptation to climate Changes” held on 28th April, 2021

Events Participated (Workshop / Seminar / Conference): << 5 >>

Sl. No	Title of the Events	Date	Venue / Organized by
1.	<i>International Conference on Innovative Insect Management Approaches for Sustainable Agro Ecosystem (IIMASAE)</i>	27 th January, 2015	Agricultural College and Research Institute, Madurai, Tamil Nadu
2.	<i>International Conference on Biocontrol and Sustainable Insect Pest Management (ICBS-2018)</i>	29 th January, 2018.	Agricultural College and Research Institute, Killikulam, Tamil Nadu.
3.	<i>17th International Tamil Internet Conference a</i>	6 th July, 2018.	Tamil Nadu Agricultural University, Coimbatore, Tamil Nadu
4.	<i>ISPP South Zonal Seminar on Crop Physiology – Emerging Challenges and Opportunities for Sustainable Agriculture</i> jointly organized	3 rd March, 2015.	S.V Agricultural College & RARS, Titupati Plant Physiology Club (APAU) and Indian Society for Plant Physiology at Tirupati

5.	<i>National Expo on Assemblage of Innovative Ideas / Work of Post Graduate Agricultural Research Scholars</i>	27 th March, 2015.	AC and RI Maduari
6.	<i>4th Agricultural Graduate Student Conference</i> conducted Coimbatore during	3 rd May, 2016	Tamil Nadu Agricultural University,
7.	National Tamil conference on Agriculture Sciences	5 th August, 2016.	TNAU, Coimbatore
8.	<i>National Level Technical Symposium – Bioconcurrency '17 & PG Biotechnology Seminar</i>	1 st March, 2017.	TNAU, Coimbatore
9.	<i>5th Annual Agricultural Graduate Students' Conference</i>	4 th May, 2017.	Tamil Nadu Agricultural University, Coimbatore
10.	<i>National conference and award ceremony on Innovations in sciences, Agriculture and adaptation to climate change</i>	28.04.2021	<i>Pushkaram college of Agriculture sciences, Pudukottai.</i>
11.	Workshop on Personality Development: Perspective and Practices	27.02.2012 to 28.02.2012.	(ICAR sponsored)
12.	Workshop on <i>Energy Conservation</i> organised		Petroleum Conservation Research Association
13.	Workshop on <i>Primer Designing</i> at held on	1.3 2017 to 2.3. 2017.	Agricultural College and Research Institute, Coimbatore
14.	Workshop on <i>Organic Vegetable Production Techniques</i>	8 th December, 2017.	Tamil Nadu Agricultural University, Coimbatore
15.	Workshop on Insect – Plant Interaction and Insect Pest Management	4 th and 5 th January, 2018.	Satyabama Institute of Science and Technology
16.	<i>TV Ramakrishna Ayyar Memorial Lecture and Workshop on Entomology and Entrepreneurship</i>	13 th February, 2018.	Agricultural College and Research Institute, Madurai

17.	Workshop on <i>Genotyping – Automation of DNA Marker Analysis</i>	8 th & 9 th March, 2018.	Agricultural College and Research Institute, Coimbatore
18.	Workshop on <i>Scientific Writing Skills</i>	12 th & 13 th March, 2018.	Tamil Nadu Agricultural University, Coimbatore
19.	Workshop on “ <i>Gall Inducing Arthropods on Forest Trees</i> ”	12 th & 13 th March, 2018.	Institute of Forest Genetics and Tree Breeding, Coimbatore
20.	Advance in rice Researches for food security and environment Sustainability	13.08.2020	TRRI, Adudurai
21.	Locust and man	24.06.2020	MTCA, Pudukottai

FDP / Training Programs: Nil

Sl. No	FDP Name	Date	Conducted by

Resource Person / Invited Talks / Other Representations: 1

Sl. No	Topic	Date	Role	Venue / Organized by
1	Pest Management in Rice	Since 2019	Invited Scientist	ADA Office Budalur Block, Thanjavur

Memberships:

- Life time membership in “*Agricultural Scientific Tamil Society*”, New Delhi
- Annual membership in “*Entomological Society of India*”, ICAR, New Delhi
- Life time membership in *Association for Advancement of Pest Management in Horticultural Ecosystem*, IIHR, Bangalore
- Life time membership in *Society of Biocontrol Advancement*, NBAIR, Bangaluru

List of Publication

Research Publication

- Ajaykumar R., Vishnu Shankar, S., Navinkumar C., **Sekar, S.**, Sivasabari, K and Harishankar, K. 2022. Time Serious Modelling and Forecasting of Pulses Productivity in Tamil nadu, India. AATCC Reviews. 1- 9
- Ajaykumar, R., Harishankar, K., Chandrasekaran, P., Navinkumar, C., **Sekar, S.**, Sabarinathan, C. and Reddy, B.K.K. 2022. Principle Component Analysis (PCA) and Character Interrelationship of Irrigated Blackgram [*Vigna mungo* (L.) Hepper] Influenced by Liquid Organic Biostimulants in Western Zone of Tamil Nadu. *Legume Research*. DOI: 10.18805/LR-5038.
- Sanjeevi Kumar. A., N. Muthukrishnan, P. Pavviya, K. Maruthupandi, V. Amsagowri, G. Arulkumar, **S. Sekar** and M. P. Bharath. 2016. Safety of newer biological insecticide spinetoram 12 SC to natural enemies in the pigeonpea ecosystem of Tamil Nadu. *International Journal of Plant Protection*, 9 (1): 150-152.
- Sanjeevi Kumar. A., N. Muthukrishnan, P. Pavviya, K. Maruthupandi, V. Amsagowri, G. Arulkumar, **S. Sekar** and M. P. Bharath. 2016. Safety of newer biological insecticide spinetoram 12 SC to *Cryptolaemus montrouzieri* in the grapevine ecosystem of Tamil Nadu. *International Journal of Plant Protection*, 9 (1): 230-232.
- Karthikeyan, S., Razak, T.A., Manivannan, A. and **Sekar, S.**, 2016. Study on combined Efficacy of *Xenorhabdus bovienii* and *Bacillus thuringiensis* against *Cnaphalocrocis medinalis* (guenee). *Biopestic Int*, 12 : 47-51.
- Karthikeyan. S., T. Abdul Razak, A. Manivannan and **S. Sekar**. 2017. Study on bioefficacy of *Xenorhabdus japonica* against *Cnephlocrocis medinalis* (GUENEE). *Ecofriendly Environment & Conservation*, 23: 149-152.
- Karthikeyan, S., Razak, T.A., Manivannan, A., **Sekar, S.** and Muthukumar, P.K., 2017. Virulence of *Xenorhabdus bovienii* and *Xenorhabdus japonica* against *Cnaphalocrocis medinalis* Guenee. *Madras Agricultural Journal*, 104: 1-3
- **Sekar. S.**, Jeyarani and S Kumaravadivel. N. 2018. Comparative Biology of Shoot Fly, *Atherigona soccata* (Rondani) on Susceptible, Resistant Genotypes and Its F₁ Hybrid of Sorghum. *Chemical Science Review and Letters*, 7(27): 741-744.

- **Sekar. S.** and R. Nalini. 2017. Varietal Screening of Mungbean Genotypes against Whitefly (*Bemisia tabaci* Genn.), Mungbean Yellow Mosaic Virus (MYMV) and *Cercospora* Leaf Spot. *International Journal of Current Microbiology and Applied Sciences*, 6 (3): 1278-1285.
- **Sekar. S.** and R. Nalini. 2017. Screening of Mungbean genotypes against pulse beetle *Callosobruchus chinensis* and evaluating the biochemical basis of resistance. *International Journal of Chemical Studies*, 5 (4): 1296-1301.
- **Sekar. S.**, Kumaravadivel. N. and Jeyarani. S. 2018. Screening of sorghum [*Sorghum bicolor* (L.) Moench] genotypes against shootfly [*Atherigona soccata* (Rodani)] in correlation with physico-chemical traits. *Electronic Journal of Plant Breeding*, 9 (2): 733 – 740.
- **Sekar. S.**, Kumaravadivel. N. and Jeyarani. S. 2018. Correlation studies for shootfly [*Atherigona soccata* (Rodani)] resistance traits in F₃ generation of Sorghum [*Sorghum bicolor* (L.) Moench]. *Electronic Journal of Plant Breeding*, 9 (2): 782-785.
- **Sekar S**, Thiruvengadam K, Naveena K, Nelson S, Nivetha T, Oviya T, Pavithra M and Chozhan K. 2021. Growth and development of pulse beetle, *Callosobruchus chinensis* [L] on pulses *Journal of Entomology and Zoology Studies*, 9(1): 1907- 1909.
- Thiruvengadam K, Vignesh M, Shobana PC, Vinotha K, Keerthika A, Yarra Trinadh, Venkatesh VS, **Sekar S** and Chozhan K. 2021. Biodiversity of Lepidoptera fauna in horticultural ecosystem in RVSAC-Usilampatti, Thanjavur. *International Journal of Chemical Studies*, 9(1): 1549-1557

Popular Articles

- Vijayaprabhakar. A, Sivaraj, P and **Sekar. S.** 2017. Rainwater Harvesting Methods for Rainfed Agriculture. *Agrobios Newsletter*. 15 (2): 122-123
- **Sekar. S** and Thiruvengadam, K. 2020. Management of Red Hairy Caterpillar in Groundnut, *Agri Sakthi Tamil Magazine*. 10: pp16-17
- **Sekar. S.** and Surya, S. 2020. Management of Fruit fly in Watermelon, *Agri Sakthi Tamil Magazine*, 10: pp11-13
- **Sekar. S.** 2020. Review on Study on Agricultural Graduation, *Agri Sakthi Tamil Magazine*, 12 : pp23-36
- **Sekar. S.** and Surya, S. 2020. Review on Study on Diploma Agriculture, *Agri Sakthi Tamil Magazine*, 13: pp20-23

- **Sekar. S.** Thiruvengadam, K and Surya, S. 2020. Management of Early shoot borer in Sugar cane, *Agri Sakthi Tamil Magazine*, 15: pp21-23
- **Sekar. S** and Thiruvengadam K. 2020. Alert on outbreak of Red Hairy caterpillar in southern district of Tamil Nadu, *Agri Doctor Daily E magazine. 2020 –Aug- 18*, pp7-9
- **Sekar. S,** Dhanapal. 2020. Management of Thrips in Chilli. *Agri Doctor Daily E magazine, 2020- Aug-21*, pp22-23
- Surya, S. Sadhana. V and **Sekar. S.** 2020. Management of Shoot and fruit borer in bhendi, *Agri Sakthi Tamil Magazine*, 38: pp37-38

Book Chapeters

- **Sekar. S** and Dhanapal. R. (2018). Distribution and management of fruit flies in horticultural crops. In: Joginder Singh, Rashmi Nigam, Wajid Hasan, Rajendra Singh (eds.) *Advances in Agriculture and Biodiversity*, Kailbri International Educational Trust, Meerut, pp: 128-131.
- Dhanapal R, Sangamithra S., **Sekar S.** and Ramesh Babu S. (2018). Exploitation of symbiotic microorganisms for insect pest control. In: Joginder Singh, Rashmi Nigam, Wajid Hasan, Rajendra Singh (eds) *Advances in Agriculture and Biodiversity*, Kailbri International Educational Trust, Meerut, pp: 141-150.
- Dhanapal R., **Sekar S.** and S. Ramesh Babu (2019). Role of Herbivore Induced Plant Volatiles in Insect Pest Management. In: S.V.S Raju, Kamal Ravi Sharma (eds) *Recent Trends In Integrated Pest Management*, Akinik Publications, New Delhi, pp: 31-43.
- **S. Sekar** and Dhanapal R (2019). Global Scenario on the Pest Management of Groundnut Leaf Miner, *Proaerema modicella* Dev. In: S.V.S Raju, Kamal Ravi Sharma (eds) *Recent Trends In Integrated Pest Management*, Akinik Publications, New Delhi, pp: 45-53.
- **Sekar S,** Dhanapal R, Ramesh Babu S and Kamal Ravi Sharma (2019). Diversity and IPM for Honey Bee Tracheal Mite, *Acarapis woodi* (Tarsonemidae: Acarina). In: Ratnesh Kumar Rao, P.K. Sharma, M. Raghuraman, Ram Swaroop Meena (eds) *Climate change and its impact on global food security and sustainability of agriculture*, Mahima Research Foundation and Social Welfare, Varanasi, pp: 82-86.
- Dhanapal, R., Sravika, A., **Sekar, S.,** Ramesh Babu, S. and Gajalakshmi, M., 2022. Improving Insect Control Using Genetically Modified Entomopathogens. In *New and*

Future Development in Biopesticide Research: Biotechnological Exploration, Springer, Singapore. pp. 223-242.

- Murugasridevi, K., Dhanapal, R., Tamilselvan, R. Aravind, J. and **Sekar, S.** 2022. Biointensive Integrated Pest Management (BIPM) Approaches in Orchards. In Handbook of Research on Principles and Practices for Orchards Management. IGI Global. pp. 249-276.

Gene Bank Submission

- Gene bank submission: **Sekar, S.**, Jeyarani and S Kumaravadivel. N. *Atherigona soccata* isolate TNAU 2 cytochrome oxidase subunit I (COI) gene, partial cds; mitochondrial.: (MH879155)
- Gene bank submission: **Sekar, S.**, Jeyarani and S Kumaravadivel. N. *Atherigona soccata* isolate TNAU 1 cytochrome oxidase subunit I (COI) gene, partial cds; mitochondrial.: (MH743227)

Additional / Special Qualification if any:					
Sl. No.	Name of the Course	Institute Offered	Period		Proof page No.
			From (date)	To (date)	
1	Integrated Pest Management	Agmoocs	8 weeks – 30.06.2020		6
2	Fundamentals of Agricultural Extention	Agmoocs	8 weeks – 30.06.2020		7
3	Diploma in computer application	Universal info tech	Feb 09 – July 09		8