

Name : Dr.M.Govindarajan
 Qualification : M.Sc., M.Phil., Ph.D.,
 Designation : Assistant Professor
 Department Name : Zoology
 Date of Appointment : 11.07.2007
 Office Address : Department of Zoology



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 Specialization : Vector control, Phytochemistry and Nanotechnology
 Experience (UG/PG) : UG-11 Year 7 months / PG- 11 Year 7 months
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Qualification

Degree	Major / Specialization	Institute / University	Year of Passing	% of Marks	University Ranks if any
M.Sc.	Zoology	Annamalai University	2002	67.2	-
M.Phil.	Zoology	Annamalai University	2004	75.0	First Rank with Gold medal
Ph.D.	Zoology	Annamalai University	2008	Highly commended	-

Distinctions, Prizes, Medals, Awards and other Honours received:

- ◆ Best Teacher Award -2019, Govt. College for Women (A), Kumbakonam.
- ◆ First rank in the M.Phil degree examinations (Gold Medal).
- ◆ Merit fellowship awarded by the university for the year 2005-2006
- ◆ Shiksha Rattan Puraskar (Award) from IIFS, New Delhi-2013
- ◆ Ph.D & M.Phil viva voce examiner in Bharathidasan University & Thiruvalluvar University
- ◆ Examiner for paper valuation in Bharathiar Univrsity, Bharathidasan women's college, Pondicherry University & AVC College, Mayiladithurai.
- ◆ Appointed as Question paper setter in Bharathiar Univrsity, Bharathidasan women's college, Pondicherry University & AVC College.

Teaching / Research Experience (as on February 2019):

Teaching Experience: 11 years 7 months

Research Experience: 18 years

S. No.	Research Work at	Title of Thesis
1.	Ph.D.	The potential use of secondary metabolites of soil fungi and actinomycetes against vector mosquitoes.
2.	M.Phil.	Studies on mosquitocidal activity of soil fungi and actinomycetes against mosquito vector, <i>Culex quinquefasciatus</i> (Say).

Research Projects:

Name of Principal Investigator- Dr.M.Govindarajan

S. No.	Title of the Project	Funding agency	Project period	Status	Total sanctioned amount (Rs.)
1	Isolation, purification and characterization of bio-active compound(s) from selected medicinal plants against vector mosquitoes	DST	23.07.2009 To 22.07.2012	Completed	14,43,600/-
2	Isolation and Identification of bioactive compound(s) from <i>Albizia lebbek</i> , <i>Delonix elata</i> and <i>Pithecellobium dulce</i> against vector mosquitoes	UGC	01.02.2011 To 31.01.2014	Completed	5,18,000/-
3	The potential use of bio-active compounds from plants against mosquitoes	ICMR	01.02.2013 To 31.01.2016	Completed	18,86,540/-

Research Guidance:

S. No.	Programme	No. s	
		Completed	Ongoing
1	M.Sc.	06	01
2	M.Phil.	02	-
3	Ph.D.	06	01

➤ **Research Papers Published**

TOTAL

No. of Publication : **204**
Impact Factor : **304.253**
Google Scholar Citation : **4,420**
Scopus h -Index : **33**
Google Scholar h Index : **39**
i 10- Index : **93**

1	M.Govindarajan. Larvicidal effect of extracellular secondary metabolites of different fungi against the mosquito, <i>Culex quinquefasciatus</i> Say. <i>Tropical Biomedicine</i> . 22 (1):1-3, 2005.
2	T.Pushpanathan, A.Jebanesan, M.Govindarajan. Larvicidal, ovicidal and repellent activities of <i>Cymbopogon citratus</i> Stapf (Graminae) essential oil against the filarial mosquito <i>Culex quinquefasciatus</i> (Say) (Diptera: Culicidae). <i>Tropical Biomedicine</i> . 23 (2):208-212, 2006.
3	M.Govindarajan , A.Jebanesan, T.Pushpanathan. Larvicidal and ovicidal activity of <i>Cassia fistula</i> Linn. Leaf extract against filarial and malarial vector mosquitoes. <i>Parasitology Research</i> . 10: 289-292, 2008.
4	T.Pushpanathan, A.Jebanesan, M.Govindarajan. The essential oil of <i>Zingiber officinale</i> Rosc (Zingiberaceae) as a mosquito larvicidal and repellent agent against the filarial vector <i>Culex quinquefasciatus</i> (Say) (Diptera: Culicidae). <i>Parasitology Research</i> . 102:1289-1291, 2008.
5	M.Govindarajan , A.Jebanesan, T.Pushpanathan, K.Samidurai. Studies on effect of <i>Acalypha indica</i> L. (Euphorbiaceae) leaf extracts on the malarial vector, <i>Anopheles stephensi</i> Liston (Diptera: Culicidae). <i>Parasitology Research</i> . 103(3):691-695, 2008.
6	M.Govindarajan , A.Jebanesan, D.Reetha, A. Amsath, T.Pushpanathan, K.Samidurai. Antibacterial activity of <i>Acalypha indica</i> L. <i>European Review for Medical and Pharmacological Sciences</i> .12(5): 299-302, 2008.
7	M.Govindarajan , Bioefficacy of <i>Cassia fistula</i> Linn. (Leguminosae) leaf extract against chikungunya vector, <i>Aedes aegypti</i> (Diptera: Culicidae). <i>European Review for Medical and Pharmacological Sciences</i> .13 (2): 99-103, 2009.
8	K.Kolanjinathan, P.Ganesh, M.Govindarajan. Antibacterial activity of ethanol extracts of seaweeds against fish bacterial pathogens. <i>European Review for Medical and Pharmacological Sciences</i> .13,173-177. 2009.
9	M.Govindarajan , Larvicidal efficacy of <i>Ficus benghalensis</i> L. plant leaf extract against <i>Culex quinquefasciatus</i> Say. <i>Aedes aegypti</i> L. and <i>Anopheles stephensi</i> L. (Diptera: Culicidae).

	<i>European Review for Medical and Pharmacological Sciences</i> .14(2): 107-111, 2010.
10	T. Mathivanan, M. Govindarajan , K. Elumalai, K. Krishnappa and A. Ananthan. Mosquito larvicidal and phytochemical properties of <i>Ervatamia coronaria</i> Stapf. (Family: Apocynaceae) <i>Journal of Vector Borne Diseases</i> . 47: 178–180, 2010.
11	M.Govindarajan . Larvicidal and repellent activities of <i>Sida acuta</i> Burm. F. (Family: Malvaceae) against three important vector mosquitoes. <i>Asian Pacific Journal of Tropical Medicine</i> . 3(9): 691-695, 2010.
12	M.Govindarajan . Chemical composition and larvicidal activity of leaf essential oil from <i>Clausena anisata</i> (Willd.) Hook. f. ex Benth (Rutaceae) against three mosquito species. <i>Asian Pacific Journal of Tropical Medicine</i> . 3(11): 874-877, 2010.
13	M. Govindarajan and P.Karuppannan. Mosquito larvicidal and ovicidal properties of <i>Eclipta alba</i> (L.) Hassk (Asteraceae) against chikungunya vector, <i>Aedes aegypti</i> (Linn.) (Diptera: Culicidae) <i>Asian Pacific Journal of Tropical Medicine</i> .4(1):24-28, 2011.
14	A. Anandan,, K.Krishnappa , M.Govindarajan and K.Elumalai. Antifeedant activity of some plant extracts against the fourth instar larvae of <i>Spodoptera litura</i> (Hub.). <i>International Journal of Recent Scientific Research</i> .2(1): 01-03, 2011.
15	M.Govindarajan . Mosquito larvicidal and ovicidal activity of <i>Cardiospermum halicacabum</i> Linn. (Family: Sapindaceae) Leaf extract against <i>Culex quinquefasciatus</i> (say.) and <i>Aedes aegypti</i> (Linn.) (Diptera : Culicidae). <i>European Review for Medical and Pharmacological Sciences</i> . 15(7): 787-794, 2011.
16	M.Govindarajan . Evaluation of indigenous plant extracts against the malarial vector, <i>Anopheles stephensi</i> (Liston) (Diptera: Culicidae). <i>Parasitology research</i> . 109:93-103,2011.
17	M Govindarajan . Larvicidal and repellent properties of some essential oils against <i>Culex tritaeniorhynchus</i> Giles and <i>Anopheles subpictus</i> Grassi (Diptera: Culicidae) <i>Asian Pacific Journal of Tropical Medicine</i> . 4(2):106-111, 2011.
18	M Govindarajan , T.Mathivanan , K.Elumalai , K. Krishnappa, A. Anandan. Mosquito larvicidal, ovicidal and repellent properties of botanical extracts against <i>Anopheles stephensi</i> , <i>Aedes aegypti</i> and <i>Culex quinquefasciatus</i> (Diptera: Culicidae). <i>Parasitology research</i> . 109: 353–367, 2011.
19	M Govindarajan , T.Mathivanan , K.Elumalai , K. Krishnappa, A. Anandan. Ovicidal and repellent activities of botanical extracts against <i>Culex quinquefasciatus</i> , <i>Aedes aegypti</i> and <i>Anopheles stephensi</i> (Diptera: Culicidae). <i>Asian Pacific Journal of Tropical Biomedicine</i> . 1(1): 43-48, 2011.
20	M.Govindarajan . Evaluation of <i>Andrographis paniculata</i> Burm.f. (Family:Acanthaceae) extracts against <i>Culex quinquefasciatus</i> (Say.) and <i>Aedes aegypti</i> (Linn.) (Diptera:Culicidae). <i>Asian Pacific Journal of Tropical Medicine</i> .4(3):176-181, 2011.
21	M.Govindarajan . Ovicidal and repellent properties of <i>Coccinia indica</i> Wight and Arn. (Family: Cucurbitaceae) against three important vector mosquitoes. <i>European Review for Medical and Pharmacological Sciences</i> . 15 (9):1010-1019, 2011.
22	R.Sivakumar , A.Jebanesan , M.Govindarajan , P.Rajasekar. Oviposition attractancy of dodecanoic, hexadecanoic and tetradecanoic acids against <i>Aedes aegypti</i> and <i>Culex quinquefasciatus</i> (Diptera: Culicidae). <i>European Review for Medical and Pharmacological Sciences</i> .. 15(10):1172-5, 2011.
23	M.Govindarajan , R. Sivakumar, A.Amsath, and S.Niraimathi. Mosquito larvicidal properties of <i>Ficus benghalensis</i> L. (Family: Moraceae) against <i>Culex tritaeniorhynchus</i> Giles and <i>Anopheles subpictus</i> Grassi (Diptera: Culicidae). <i>Asian Pacific Journal of Tropical Medicine</i> . 4(7): 505-509, 2011.
24	R.Sivakumar, A.Jebanesan , M.Govindarajan , P.Rajasekar. Larvicidal and repellent activity of tetradecanoic acid against <i>Aedes aegypti</i> (Linn.) and <i>Culex quinquefasciatus</i> (Say.) (Diptera:Culicidae). <i>Asian Pacific Journal of Tropical Medicine</i> . 4 (9): 706-710, 2011.
25	M. Govindarajan and R.Sivakumar. Mosquito adulticidal and repellent activities of botanical extracts against Malarial vector, <i>Anopheles stephensi</i> Liston (Diptera:Culicidae). Asian Pacific Journal of Tropical Medicine . 4(12): 941-947,2011.
26	M.Govindarajan , R. Sivakumar and M. Rajeswari. Larvicidal efficacy of <i>Cassia fistula</i> Linn. leaf extract against <i>Culex tritaeniorhynchus</i> Giles and <i>Anopheles subpictus</i> Grassi (Diptera:Culicidae) Asian Pacific Journal of Tropical Disease . 1(4): 295-298, 2011.
27	M. Govindarajan and R. Sivakumar. Adulticidal and repellent properties of indigenous plant extracts against <i>Culex quinquefasciatus</i> and <i>Aedes aegypti</i> (Diptera: Culicidae). <i>Parasitology</i>

	<i>Research</i> . 110: 1607–1620,2012.
28	M.Govindarajan , R.Sivakumar, M.Rajeswari, K.Yogalakshmi. Chemical composition and larvicidal activity of essential oil from <i>Mentha spicata</i> (Linn.) against three mosquito species. <i>Parasitology Research</i> . 110: 2023–2032,2012.
29	M.Govindarajan , R.Sivakumar, M.Rajeswari, K.Yogalakshmi. Larvicidal and Ovicidal properties of leaf and seed extracts of <i>Delonix elata</i> (L.) Gamble (Family: Fabaceae) against malaria (<i>Anopheles stephensi</i> Liston) and dengue (<i>Aedes aegypti</i> Linn.) (Diptera: Culicidae) vector mosquitoes. <i>Parasitology Research</i> . 111: 65–77,2012.
30	M.Govindarajan , R.Sivakumar, M.Rajeswari, K.Yogalakshmi. Adulticidal activity of <i>Pithecellobium dulce</i> (Roxb.) Benth. (Family: Fabaceae) against <i>Culex quinquefasciatus</i> (Say) (Diptera: Culicidae). <i>Asian Pacific Journal of Tropical Disease</i> . 2(2): 124-128,2012.
31	M.Govindarajan , R.Sivakumar, A.Amsath and S.Niraimathi. Larvicidal efficacy of botanical extracts against two important vector mosquitoes. <i>European Review for Medical and Pharmacological Sciences</i> . 16(3): 386-392, 2012.
32	M.Govindarajan and R.Sivakumar. Repellent properties of <i>Cardiospermum halicacabum</i> Linn. (Family: Sapindaceae) plant leaf extracts against three important vector mosquitoes. Asian Pacific Journal of Tropical Biomedicine . 2(8): 602-607, 2012.
33	M. Govindarajan and R. Sivakumar. Adulticidal properties of <i>Cardiospermum halicacabum</i> plant extracts against three important vector mosquitoes. <i>European Review for Medical and Pharmacological Sciences</i> . 16 (3): 95-104,2012.
34	M.Govindarajan , M.Rajeswary and R.Sivakumar. Mosquito larvicidal and ovicidal activity of <i>Delonix elata</i> (L.) Gamble against <i>Culex quinquefasciatus</i> Say (Diptera: Culicidae). <i>Asian Pacific Journal of Tropical Disease</i> . 2(2): 571-S573,2012.
35	M.Govindarajan , R.Sivakumar, M.Rajeswari and K.Yogalakshmi. Chemical composition and larvicidal activity of essential oil from <i>Ocimum basilicum</i> (L.) against <i>Culex tritaeniorhynchus</i> , <i>Aedes albopictus</i> and <i>Anopheles subpictus</i> (Diptera: Culicidae). <i>Experimental Parasitology</i> . 134(1): 7-11, 2013.
36	M. Rajeswary and M.Govindarajan . Mosquito larvicidal and phytochemical properties of <i>Ageratina adenophora</i> (Asteraceae) against three important mosquitoes. <i>Journal of Vector Borne Disease</i> . 50(2): 141-143,2013.
37	M.Govindarajan , M. Rajeswary and R.Sivakumar. Larvicidal and ovicidal efficacy of <i>Pithecellobium dulce</i> (Roxb.) Benth. (Fabaceae) against <i>Anopheles stephensi</i> Liston and <i>Aedes aegypti</i> Linn. (Diptera: Culicidae). <i>Indian Journal of Medical Research</i> . 138: 129-134,2013.
38	M.Govindarajan , R. Sivakumar, M. Rajeswary and K. Veerakumar. Mosquito larvicidal activity of thymol from essential oil of <i>Coleus aromaticus</i> Benth. against <i>Culex tritaeniorhynchus</i> , <i>Aedes albopictus</i> and <i>Anopheles subpictus</i> (Diptera: Culicidae). <i>Parasitology Research</i> 112(11): 3713-3721,2013.
39	K.Veerakumar, M. Govindarajan and M. Rajeswary. Green synthesis of silver nanoparticles using <i>Sida acuta</i> (Malvaceae) leaf extract against <i>Culex quinquefasciatus</i> , <i>Aedes aegypti</i> and <i>Anopheles stephensi</i> (Diptera: Culicidae). <i>Parasitology Research</i> . 112(12): 4073-4085,2013.
40	M. Govindarajan and R. Sivakumar. Larvicidal, ovicidal, and adulticidal efficacy of <i>Erythrina indica</i> (Lam.) (Family: Fabaceae) against <i>Anopheles stephensi</i> , <i>Aedes aegypti</i> , and <i>Culex quinquefasciatus</i> (Diptera: Culicidae). <i>Parasitology Research</i> . 113: 777–791, 2014.
41	M. Govindarajan and R. Sivakumar. Ovicidal, larvicidal and adulticidal properties of <i>Asparagus racemosus</i> (Willd.) (Family:Asparagaceae) root extracts against filariasis (<i>Culex quinquefasciatus</i>), dengue (<i>Aedes aegypti</i>) and malaria (<i>Anopheles stephensi</i>) vector mosquitoes (Diptera: Culicidae). <i>Parasitology Research</i> .113 (4): 1435-1449,2014.
42	M. Govindarajan . Mosquito repellent properties of <i>Delonix elata</i> (L.) gamble (Family: Fabaceae) against filariasis vector, <i>Culex quinquefasciatus</i> say. (Diptera : Culicidae). <i>Asian Pacific Journal of Tropical Disease</i> . 4(1): 194-198,2014.
43	M.Rajeswary and M.Govindarajan . Adulticidal properties of <i>Pithecellobium dulce</i> (Roxb.) Benth. (Family: Fabaceae) against Dengue vector, <i>Aedes aegypti</i> (Linn.) (Diptera: Culicidae). <i>Asian Pacific Journal of Tropical Disease</i> . 4(1): 449-452,2014.
44	M. Govindarajan and M.Rajeswary. Mosquito larvicidal properties of <i>Impatiens balsamina</i> (Balsaminaceae) against <i>Anopheles stephensi</i> , <i>Aedes aegypti</i> and <i>Culex quinquefasciatus</i> (Diptera: Culicidae). <i>Journal of Coastal Life Medicine</i> . 2(3): 222-224,2014.
45	M. Govindarajan , M.Rajeswary and R. Sivakumar. Mosquito larvicidal and ovicidal properties of <i>Pithecellobium dulce</i> (Roxb.) Benth. (Fabaceae) against <i>Culex quinquefasciatus</i> Say (Diptera: Culicidae). <i>Journal of Coastal Life Medicine</i> . 2(4): 308-312,2014.

46	K.Veerakumar, M.Govindarajan , M.Rajeswary and U.Muthukumaran. Low-cost and eco-friendly green synthesis of silver nanoparticles using <i>Feronia elephantum</i> (Rutaceae) against <i>Culex quinquefasciatus</i> , <i>Anopheles stephensi</i> and <i>Aedes aegypti</i> (Diptera: Culicidae). <i>Parasitology Research</i> . 113(5):1775-85,2014.
47	M.Rajeswary and M. Govindarajan . Mosquito adulticidal properties of <i>Delonix elata</i> (Family:Fabaceae) against dengue vector, <i>Aedes aegypti</i> (Diptera:Culicidae). <i>Journal of Coastal Life Medicine</i> . 2(5): 389-393,2014.
48	K.Veerakumar, M. Govindarajan , M.Rajeswary and U.Muthukumaran. Mosquito larvicidal properties of silver nanoparticles synthesized using <i>Heliotropium indicum</i> (Boraginaceae) against <i>Aedes aegypti</i> , <i>Anopheles stephensi</i> and <i>Culex quinquefasciatus</i> (Diptera: Culicidae). <i>Parasitology Research</i> . 113(6):2363-73, 2014.
49	M.Rajeswary and M. Govindarajan . Adulticidal efficacy of <i>Delonix elata</i> against filariasis vector mosquito, <i>Culex quinquefasciatus</i> (Diptera: Culicidae). <i>Journal of Coastal Life Medicine</i> . 2(7): 564-568,2014.
50	M.Rajeswary and M. Govindarajan . Mosquito repellent potential of <i>Pithecellobium dulce</i> leaf and seed against malaria vector <i>Anopheles stephensi</i> (Diptera: Culicidae). <i>Journal of Coastal Life Medicine</i> . 2(8): 648-651,2014.
51	K.Veerakumar and M. Govindarajan . Adulticidal properties of synthesized silver nanoparticles using leaf extracts of <i>Feronia elephantum</i> (Rutaceae) against filariasis, malaria, and dengue vector mosquitoes. <i>Parasitology Research</i> . 113(11): 4085-4096, 2014.
52	K.Veerakumar and M. Govindarajan . Evaluation of plant -mediated synthesized silver nanoparticles against vector mosquitoes. <i>Parasitology Research</i> . 113(12): 4567–4577,2014.
53	M. Govindarajan , A.Ramya and R. Sivakumar. Mosquito larvicidal properties of <i>Mirabilis julopo</i> (Nyctaginaceae) against <i>Anopheles stephensi</i> , <i>Aedes aegypti</i> and <i>Culex quinquefasciatus</i> (Diptera: Culicidae). <i>Indian Journal of Medical Research</i> . 140(3): 438–440, 2014.
54	M. Govindarajan and M. Rajeswary. Ovicidal and adulticidal potential of leaf and seed extract of <i>Albizia lebbeck</i> (L.) Benth. (Family: Fabaceae) against <i>Culex quinquefasciatus</i> , <i>Aedes aegypti</i> , and <i>Anopheles stephensi</i> (Diptera: Culicidae). <i>Parasitology Research</i> 114:1949-1961, 2015.
55	M. Govindarajan , M.Rajeswary and R. Sivakumar. Repellent properties of <i>Delonix elata</i> (L.) Gamble (Family: Fabaceae) against malaria vector <i>Anopheles stephensi</i> (Liston) (Diptera: Culicidae). <i>Journal of the Saudi Society of Agricultural Sciences</i> . 14:128-133,2015.
56	M. Govindarajan and R. Sivakumar. Laboratory evaluation of Indian medicinal plants as repellents against malaria, dengue, and filariasis vector mosquitoes. <i>Parasitology Research</i> . 114(2):601-612, 2015.
57	U. Muthukumaran, M.Govindarajan and M. Rajeswary. Mosquito larvicidal potential of silver nanoparticles synthesized using <i>Chomelia asiatica</i> (Rubiaceae) against <i>Anopheles stephensi</i> , <i>Aedes aegypti</i> , and <i>Culex quinquefasciatus</i> (Diptera: Culicidae). <i>Parasitology Research</i> . 114 (3): 989-999,2015.
58	U. Muthukumaran, M.Govindarajan and M. Rajeswary. Synthesis and characterization of silver nanoparticles using <i>Gmelina asiatica</i> leaf extract against filariasis, dengue, and malaria vector mosquitoes. <i>Parasitology Research</i> . 114(5):1817-27, 2015.
59	U. Muthukumaran, M.Govindarajan and M. Rajeswary. Green synthesis of silver nanoparticles from <i>Cassia roxburghii</i> —a most potent power for mosquito control. <i>Parasitology Research</i> . 114(12):4385-95, 2015.
60	M.Govindarajan and M. Rajeswary. Repellent properties of <i>Pithecellobium dulce</i> (Roxb.) Benth. (Family: Fabaceae) against filariasis vector, <i>Culex quinquefasciatus</i> Say (Diptera: Culicidae). <i>Journal of Medicinal Herbs and Ethnomedicine</i> . 1(1): 103-107, 2015.
61	M.Govindarajan M. Rajeswary, K.Veerakumar, U.Muthukumaran , S.L.Hoti, H.Mehlhorn, DonaldR. Barnard and G. Benelli. Novel synthesis of silver nanoparticles using <i>Bauhinia variegata</i> : a recent eco-friendly approach for mosquito control. <i>Parasitology Research</i> . 115:723-733, 2016.
62	M.Govindarajan , M. Rajeswary. S.L.Hoti, A.Bhattacharyya and G.Benelli. Eugenol, α -pinene and β -caryophyllene from <i>Plectranthus barbatus</i> essential oil as eco-friendly larvicides against malaria, dengue and Japanese encephalitis mosquito vectors. <i>Parasitology Research</i> . 115(2):807-815, 2016.
63	M. Govindarajan and G. Benelli. Facile biosynthesis of silver nanoparticles using <i>Barleria cristata</i> : mosquitocidal potential and biotoxicity on three non-target aquatic organisms. <i>Parasitology Research</i> . 115:925-935, 2016.
64	M. Govindarajan and G. Benelli. Facile biosynthesis of silver nanoparticles using <i>Barleria</i>

	<i>cristata</i> : mosquitocidal potential and biotoxicity on three non-target aquatic organisms. <i>Parasitology Research</i> . 115:925-935, 2016.
65	M. Govindarajan , M.Rajeswary, S. L. Hoti and G. Benelli. Larvicidal potential of carvacrol and terpinen-4-ol from the essential oil of <i>Origanum vulgare</i> (Lamiaceae) against <i>Anopheles stephensi</i> , <i>Anopheles subpictus</i> , <i>Culex quinquefasciatus</i> and <i>Culex tritaeniorhynchus</i> (Diptera: Culicidae). <i>Research in Veterinary Science</i> . 104: 77-82, 2016.
66	M. Govindarajan , M.Rajeswary, K.Veerakumar, U. Muthukumaran, S. L. Hoti and G. Benelli. Green synthesis and characterization of silver nanoparticles fabricated using <i>Anisomeles indica</i> : mosquitocidal potential against malaria, dengue and Japanese encephalitis vectors. <i>Experimental Parasitology</i> . 161: 40-47,2016
67	M. Govindarajan , M.Rajeswary, S.Arivoli, S.Tennyson and G. Benelli. Larvicidal and repellent potential of <i>Zingiber nimmonii</i> (J. Graham) Dalzell (Zingiberaceae) essential oil: An eco-friendly tool against malaria, dengue and lymphatic filariasis mosquito vectors? <i>Parasitology Research</i> . 115(5): 1807-1816, 2016.
68	M, Govindarajan , M.Nicoletti and G. Benelli. Bio-physical characterization of poly-dispersed silver nanocrystals fabricated using <i>Carissa spinarum</i> : A potent tool against mosquito vectors. <i>Journal of Cluster Science</i> . 27: 745-761, 2016.
69	M. Govindarajan , M.Rajeswary and G. Benelli. Chemical composition, toxicity and non-target effects of <i>Pinus kesiya</i> essential oil: an eco-friendly and novel larvicide against malaria, dengue and lymphatic filariasis mosquito vectors. <i>Ecotoxicology and Environmental Safety</i> . 129:85-90, 2016.
70	M. Govindarajan and G. Benelli. α -humulene and β -elemene from <i>Syzygium zeylanicum</i> (Myrtaceae) essential oil: highly effective and eco-friendly larvicides against <i>Anopheles subpictus</i> , <i>Aedes albopictus</i> and <i>Culex tritaeniorhynchus</i> (Diptera: Culicidae). <i>Parasitology Research</i> . 115(7): 2771-2778, 2016.
71	M.Govindarajan , S.L.Hoti, M.Rajeswary and G.Benelli. One-step synthesis of poly-dispersed silver nanocrystals using <i>Malva sylvestris</i> : an eco-friendly mosquito larvicide with negligible impact on non-target aquatic organisms. <i>Parasitology Research</i> . 115(7): 2685–2695, 2016.
72	M.Govindarajan , and G.Benelli. One-pot fabrication of silver nanocrystals using <i>Ormocarpum cochinchinense</i> : biophysical characterization of a potent mosquitocidal and toxicity on non-target mosquito predators. <i>Journal of Asia-Pacific Entomology</i> . 19 (2): 377-385, 2016.
73	U.Muthukumaran, M.Govindarajan , M. Rajeswary, K. Veerakumar, A.Amsath and K. Muthukumaravel. Adulticidal activity of synthesized silver nanoparticles using <i>Chomelia asiatica</i> Linn. (Family: Rubiaceae) against <i>Anopheles stephensi</i> , <i>Aedes aegypti</i> and <i>Culex quinquefasciatus</i> (Diptera: Culicidae). <i>International Journal of Zoology and Applied Biosciences</i> . 1(2): 118-129, 2016.
74	K.Veerakumar, M.Govindarajan and K. Murugan. Phyto-synthesized silver nanoparticles: A potent mosquito ovicidal activity. <i>International Journal of Zoology and Applied Biosciences</i> . 1(2): 76-85, 2016.
75	M.Govindarajan , M. Rajeswary, S.L.Hoti, M. Nicoletti and G. Benelli. Facile synthesis of mosquitocidal silver nanoparticles using <i>Mussaenda glabra</i> leaf extract: characterization and impact on non-target aquatic organisms. <i>Natural product research</i> . 30(21):2491-2494,2016.
76	H.Khater, N.Hendawy, M.Govindarajan , K.Murugan and G.Benelli. Photosensitizers in the fight against ticks: safranin as a novel photodynamic fluorescent acaricide to control the camel tick <i>Hyalomma dromedarii</i> (Ixodidae). <i>Parasitology Research</i> . 115(10):3747-3758, 2016.
77	M.Govindarajan , H.F.Khater, C. Panneerselvam and G.Benelli.One-pot fabrication of silver nanocrystals using <i>Nicandra physalodes</i> : A novel route for mosquito vector control with moderate toxicity on non-target water bugs. <i>Research in Veterinary Science</i> . 107: 95-101,2016.
78	M.Govindarajan , S.L. Hoti and G. Benelli. Facile fabrication of eco-friendly nano-mosquitocides: biophysical characterization and effectiveness on neglected tropical mosquito vectors. Enzyme and Microbial Technology . 95:155-163, 2016.
79	M. Govindarajan , M.Rajeswary, U. Muthukumaran, S.L. Hoti, H.F.Khater and G.Benelli. Single-step biosynthesis and characterization of silver nanoparticles using <i>Zornia diphylla</i> leaves: A potent eco-friendly tool against malaria and arbovirus vectors. <i>Journal of Photochemistry & Photobiology, B: Biology</i> . 161: 482-489,2016.
80	M. Govindarajan , M.Rajeswary and G.Benelli. δ -Cadinene, Calarene and δ -4-Carene from <i>Kadsura heteroclita</i> essential oil as novel larvicides against malaria, dengue and filariasis mosquitoes. <i>Combinatorial Chemistry & High Throughput Screening</i> (special issue " <i>Medicinal Chemistry</i>

	<i>applied to Natural Products in Drug Discovery Neglected.</i>). 19(7):565-571, 2016.
81	M. Govindarajan and G.Benelli. One-pot green synthesis of silver nanocrystals using <i>Hymenodictyon orixense</i> : A cheap and effective tool against malaria, chikungunya and Japanese encephalitis mosquito vectors?. <i>RSC Advances</i> . 6: 59021 – 59029, 2016.
82	M. Govindarajan , P. Vijayan, Shine Kadaikunnan, Naiyf S. Alharbi and G.Benelli. One-pot biogenic fabrication of silver nanocrystals using <i>Quisqualis indica</i> : Effectiveness on malaria and Zika virus mosquito vectors, and impact on non-target aquatic organisms. <i>Journal of Photochemistry & Photobiology, B: Biology</i> . 162: 646-655,2016.
83	M. Govindarajan and G.Benelli. Eco-friendly larvicides from Indian plants: Effectiveness of lavandulyl acetate and bicyclogermacrene on malaria, dengue and Japanese encephalitis mosquito vectors. <i>Ecotoxicology and Environmental Safety</i> . 133:395-402,2016.
84	M.Govindarajan , Shine Kadaikunnan, Naiyf S. Alharbi, G. Benelli. Acute toxicity and repellent activity of the <i>Origanum scabrum</i> Boiss. & Heldr. (Lamiaceae) essential oil against four mosquito vectors of public health importance and its biosafety on non-target aquatic organisms. <i>Environmental Science and Pollution Research</i> . 23(22): 23228-23238,2016.
85	M. Govindarajan and G. Benelli. <i>Artemisia absinthium</i> -borne compounds as novel larvicides: effectiveness against six mosquito vectors and acute toxicity on non-target aquatic organisms. <i>Parasitology Research</i> . 115(12):4649-4661, 2016.
86	K.Kovendan, B. Chandramohan, D.Dinesh, D.Abirami, P.Vijayan, M.Govindarajan , S. Vincent, G. Benelli. Green-synthesized silver nanoparticles using <i>Psychotria nilgiriensis</i> : toxicity against the dengue vector <i>Aedes aegypti</i> (Diptera: Culicidae) and impact on the predatory efficiency of the non-target organism <i>Poecilia sphenops</i> (Cyprinodontiformes: Poeciliidae). <i>Journal of Asia-Pacific Entomology</i> 19:1001–1007, 2016.
87	A.Bhattacharyya, Ram Prasad, Abdul A. Buhroo, P.Duraisamy, Insha Yousuf, M. Umadevi, M.R. Bindhu, M. Govindarajan and Abdul L. Khanday. One-Pot Fabrication and Characterization of Silver Nanoparticles using <i>Solanum lycopersicum</i> : An Eco-friendly and Potent Control Tool Against Rose Aphid, <i>Macrosiphum rosae</i> . <i>Journal of nanoscience</i> . Article ID 4679410, 7 pages. http://dx.doi.org/10.1155/2016/4679410 ,2016.
88	R.M. S. T,Azarudeen, M Govindarajan , A. Amsath, K. Shine, Naiyf S. Alharbi, P.Vijayan, U. Muthukumaran and G.Benelli. Size-controlled fabrication of silver nanoparticles using the <i>Hedyotis puberula</i> leaf extract: toxicity on mosquito vectors and impact on biological control agents. <i>RSC Advances</i> . 6: 96573-96583,2016.
89	M.Govindarajana , F.S.AIQahtani, M.M.AIShebly and G. Benelli. One-pot and eco-friendly synthesis of silver nanocrystals using <i>Adiantum raddianum</i> : Toxicity against mosquito vectors of medical and veterinary importance. <i>Journal of Applied Biomedicine</i> . 15: 87-95,2016.
90	K.Gopinath, S.Kumaraguru, K. Bhakyara, S.Mohan, K.Sukumaran Venkatesh, M.Esakkirajan, P.Kaleeswaran, Naiyf S. Alharbi, Shine Kadaikunnan, M. Govindarajan , G.Benelli and A. Arumugam. Green synthesis of silver, gold and silver/gold bimetallic nanoparticles using the <i>Gloriosa superba</i> leaf extract and their antibacterial and antibiofilm activities. <i>Microbial Pathogenesis</i> . 101: 1-11,2016.
91	R.Pavela and M.Govindarajan . The essential oil from <i>Zanthoxylum monophyllum</i> a potential mosquito larvicide with low toxicity to the non-target fish <i>Gambusia affinis</i> . <i>Journal of Pest Science</i> . 90 (1): 369-378, 2017.
92	M. Govindarajan and G. Benelli. A facile one-pot synthesis of eco-friendly nanoparticles using <i>Carissa carandas</i> : ovicidal and larvicidal potential on malaria, dengue and filariasis mosquito vectors. <i>Journal of Cluster Science</i> . 28 (1):15–36,2017.
93	S.Vincent, K.Kovendan, B.Chandramohan, S.Kamalakaran, P.Mahesh Kumar, C.Vasugi, C.Praseeja, J.Subramaniam, M.Govindarajan , K.Murugan and G.Benelli. Swift fabrication of silver nanoparticles using <i>Bougainvillea glabra</i> : Potential against the Japanese encephalitis vector, <i>Culex tritaeniorhynchus</i> Giles (Diptera: Culicidae). <i>Journal of Cluster Science</i> . 28 (1): 37-58,2017.
94	R. M. S. T. Azarudeen, M.Govindarajan , A.Amsath, U.Muthukumaran and G.Benelli. Single-step biofabrication of silver nanocrystals using <i>Naregamia alata</i> : a cost effective and eco-friendly control tool in the fight against malaria, Zika virus and St. Louis encephalitis mosquito vectors. <i>Journal of Cluster Science</i> . 28 (1): 179-203,2017.
95	G.Benelli, B.Chandramohan, K.Murugan, P.Madhiyazhagan, K.Kovendan, C.Panneerselvam, D.Dinesh, M.Govindarajan , A.Higuchi, C.Toniolo, A.Canale and M.Nicoletti. Neem cake as a promising larvicide and adulticide against the rural malaria vector <i>Anopheles culicifacies</i> (Diptera: Culicidae): a HPTLC fingerprinting approach, <i>Natural Product Research</i> . 31(10):1185-1190,2017.

96	M. Govindarajan , Shine Kadaikunnan, Naiyf S. Alharbi and G. Benelli. Single-step biological fabrication of colloidal silver nanoparticles using <i>Hugonia mystax</i> : larvicidal potential against Zika virus, dengue, and malaria vector mosquitoes. <i>Artificial Cells, Nanomedicine, and Biotechnology</i> . 45(7):1317-1325, 2017.
97	G.Benelli and M.Govindarajan . Green-Synthesized Mosquito Oviposition Attractants and Ovicides: Towards a Nanoparticle-Based “Lure and Kill” Approach?. <i>Journal of Cluster Science</i> . 28 (1): 287-308, 2017.
98	R.Thameem Azarudeen, M.Govindarajan , M.M.AIShebly, F.S.AIQahtani, A.Amsath, G.Benelli. One pot green synthesis of colloidal silver nanocrystals using the <i>Ventilago maderaspatana</i> leaf extract: acute toxicity on malaria, Zika virus and filariasis mosquito vectors. <i>Journal of Cluster Science</i> . 28 (1): 369-392, 2017.
99	Naiyf S. Alharbi, K.Bhakyaraj, K.Gopinath, M.Govindarajan , S.Kumuraguru, S.Mohan, P.Kaleeswaran, S.Kadaikunnan, M.Jamal M. Khaled, G. Benelli. Gum-Mediated Fabrication of Eco-Friendly Gold Nanoparticles Promoting Cell Division and Pollen Germination in Plant Cells. <i>Journal of Cluster Science</i> .28 (1): 507-517, 2017.
100	M.M.AIShebly, F.S.AIQahtani, M.Govindarajan , K.Gopinath, P. Vijayan and G. Benelli. Toxicity of ar-curcumen and epi- β -bisabolol from <i>Hedychium larsenii</i> (Zingiberaceae) essential oil on malaria, chikungunya and St. Louis encephalitis mosquito vectors. <i>Ecotoxicology and Environmental Safety</i> . 137: 149–157, 2017.
101	K.Gopinath, M.Chinnadurai, N. Parimala Devi, K.Bhakyaraj, S.Kumaraguru, T. Baranisri, A. Sudha, M.Zeeshan, A.Arumugam, M.Govindarajan , Naiyf S. Alharbi, Shine Kadaikunnan and G. Benelli. One-Pot Synthesis of Dysprosium Oxide Nano-Sheets: Antimicrobial Potential and Cytotoxicity on A549 Lung Cancer Cells. <i>Journal of Cluster Science</i> . 28(1): 621-635,2017.
102	F.S.AIQahtani, M.M.AIShebly, M.Govindarajan , S. Senthilmurugan, P. Vijayan and G. Benelli. Green and facile biosynthesis of silver nanocomposites using the aqueous extract of <i>Rubus ellipticus</i> leaves: toxicity and oviposition deterrent activity against Zika virus, malaria and filariasis mosquito vectors. <i>Journal of Asia-Pacific Entomology</i> . 20(1): 157-164, 2017.
103	G.Benelli, M. Govindarajan , Shine Kadaikunnan and Naiyf S. Alharbi. What kind of reducing botanical? High mosquitocidal efficacy of a silver nanocomposite synthesized using a leaf aqueous extract of <i>Fumaria indica</i> . <i>Journal of Cluster Science</i> .28(1): 637-643, 2017.
104	V.Karthika, A.Arumugamb, K.Gopinath, P.Kaleeswaran, M.Govindarajan , Naiyf S. Alharbi, Shine Kadaikunnan, Jamal M. Khaled, G.Benelli. <i>Guazuma ulmifolia</i> bark-synthesized Ag, Au and Ag/Au alloy nanoparticles: Photocatalytic potential, DNA/protein interactions, anticancer activity and toxicity against 14 species of microbial pathogens. <i>Journal of Photochemistry & Photobiology, B: Biology</i> . 167: 189–199,2017.
105	K.Gopinath, N.Parimala Devi, M.Govindarajan , K.Bhakyaraj, S.Kumaraguru, A.Arumugam, Naiyf S. Alharbi, Shine Kadaikunnan and G.Benelli. One-Pot Green Synthesis of Silver Nanoparticles Using the Orchid Leaf Extracts of <i>Anoectochilus elatus</i> : Growth Inhibition Activity on Seven Microbial Pathogens. <i>Journal of Cluster Science</i> . 28(3): 1541-1550,2017.
106	G.Benelli, M.Govindarajan , M.Rajeswary, S.Senthilmurugan, P Vijayan, Naiyf S. Alharbi, Shine Kadaikunnan and Jamal M. Khaled. Larvicidal activity of <i>Blumea eriantha</i> essential oil and its components against six mosquito species, including Zika virus vectors: the promising potential of (4E,6Z)-allo-ocimene, carvotanacetone and dodecyl acetate. <i>Parasitology Research</i> . 116(4):1175-1188,2017.
107	B.Banumathi, B.Vaseeharan, P.Suganya, T.Citarasu, M.Govindarajan , Naiyf S. Alharbi, Shine Kadaikunnan, Jamal M. Khaled and G. Benelli. Toxicity of <i>Camellia sinensis</i> -Fabricated Silver Nanoparticles on Invertebrate and Vertebrate Organisms: Morphological Abnormalities and DNA Damages. <i>Journal of Cluster Science</i> . 18(4): 2027-2040,2017.
108	B.Banumathi, B.Vaseeharan, R.Ishwarya, M.Govindarajan , Naiyf S. Alharbi, Shine Kadaikunnan, Jamal M. Khaled and G. Benelli. Toxicity of herbal extracts used in ethno-veterinary medicine and green-encapsulated ZnO nanoparticles against <i>Aedes aegypti</i> and microbial pathogens. <i>Parasitology Research</i> . 116(6):1637-1651,2017.
109	S. Jayanthi, S.Shanthi, B.Vaseeharan, N.Gopi, M Govindarajan , Naiyf S. Alharbi, Shine Kadaikunnan, Jamal M. Khaled and G.Benelli. Growth inhibition and antibiofilm potential of Ag nanoparticles coated with lectin, an arthropod immune molecule. <i>Journal of Photochemistry & Photobiology, B: Biology</i> . 170: 208–216,2017.
110	R.M.S.T, Azarudeen, M. Govindarajan , M.M.AIShebly, F.S.AIQahtani, A.Amsath, S.Senthilmurugan, P.Vijayan and G.Benelli. Size-controlled biofabrication of silver nanoparticles

	using the <i>Merremia emarginata</i> leaf extract: Toxicity on <i>Anopheles stephensi</i> , <i>Aedes aegypti</i> and <i>Culex quinquefasciatus</i> (Diptera: Culicidae) and non-target mosquito predators. <i>Journal of Asia-Pacific Entomology</i> . 20 (2): 359–366, 2017.
111	P.Suganya, B.Vaseeharan, S.Vijayakumar, B.Balan, M. Govindarajan , Naiyf S. Alharbi, Shine Kadaikunnan, Jamal M. Khaled and G. Benelli. Biopolymer zein-coated gold nanoparticles: Synthesis, antibacterial potential, toxicity and histopathological effects against the Zika virus vector <i>Aedes aegypti</i> . <i>Journal of Photochemistry & Photobiology, B: Biology</i> . 173: 404–411,2017.
112	C.Balalakshmi, K.Gopinath, M.Govindarajan , R.Lokesh, A.Arumugam, Naiyf S.Alharbi, Shine Kadaikunnan, Jamal M. Khaled and G. Benelli. Green synthesis of gold nanoparticles using a cheap <i>Sphaeranthus indicus</i> extract: Impact on plant cells and the aquatic crustacean <i>Artemia nauplii</i> . <i>Journal of Photochemistry & Photobiology, B: Biology</i> . 173: 598-605,2017.
113	A.Iswarya, B.Vaseeharan, M.Anjugam, B.Ashokkumar, M.Govindarajan , Naiyf S. Alharbi, Shine Kadaikunnan, Jamal M. Khaled and G. Benelli. Multipurpose efficacy of ZnO nanoparticles coated by the crustacean immune molecule β -1, 3-glucan binding protein: toxicity on HepG2 liver cancer cells and bacterial pathogens. <i>Colloids and Surfaces B: Biointerfaces</i> . 158:257-269, 2017.
114	B.Banumathi, B.Vaseeharan, T.Chinnasamy, S.VijayaKumar, M.Govindarajan , Naiyf S. Alharbi, Shine Kadaikunnan, Jamal M. Khaled and G. Benelli. <i>Euphorbia rothiana</i> -fabricated Ag nanoparticles showed high toxicity on <i>Aedes aegypti</i> larvae and growth inhibition on microbial pathogens: a focus on morphological changes in mosquitoes and antibiofilm potential against bacteria. <i>Journal of Cluster Science</i> . 28(5): 2857-2872,2017.
115	M.Jamal. Khaled, Naiyf S. Alharbi, Shine Kadaikunnan, Ahmed S. Alobaidi, N, Mohammed, Al-Anbr, K.Gopinath, A.Aurmugam, M.Govindarajan and G. Benelli. Green Synthesis of Ag Nanoparticles with Antibacterial Activity Using the Leaf Extract of an African Medicinal Plant, <i>Ipomoea asarifolia</i> (Convolvulaceae). <i>Journal of Cluster Science</i> . 28(5): 3009-3019,2017.
116	R.Ishwarya, B.Vaseeharan, R.Anuradha, R.Rekha, M.Govindarajan , Naiyf S. Alharbi, Shine Kadaikunnan, Jamal M. Khaled and G. Benelli. Eco-friendly fabrication of Ag nanostructures using the seed extract of <i>Petalium murex</i> , an ancient Indian medicinal plant: Histopathological effects on the Zika virus vector <i>Aedes aegypti</i> and inhibition of biofilm-forming pathogenic bacteria. <i>Journal of Photochemistry & Photobiology, B: Biology</i> . 174: 133–143,2017.
117	M.Anjugam, B.Vaseeharan, A.Iswarya, M.Amala, M. Govindarajan , Naiyf S. Alharbi, Shine Kadaikunnan, Jamal M. Khaled and G. Benelli. A study on β -glucan binding protein (β -GBP) and its involvement in phenoloxidase cascade in Indian white shrimp <i>Fenneropenaeus indicus</i> . <i>Molecular Immunology</i> . 92: 1–11,2017.
118	M.Divya, B.Vaseeharan, M.Abinaya, S.Vijayakumar, M.Govindarajan , Naiyf S. Alharbi, Shine Kadaikunnan, Jamal M. Khaled and G. Benelli. Biopolymer gelatin-coated zinc oxide nanoparticles showed high antibacterial, antibiofilm and anti-angiogenic activity. <i>Journal of Photochemistry & Photobiology, B: Biology</i> . 178: 211-218, 2017.
119	R.Thaya, B.Vaseeharan, J.Sivakamavalli, A.Iswarya, M.Govindarajan , Naiyf S. Alharbi, Shine Kadaikunnan, Mohammed N. Al-anbr, Jamal M. Khaled and G. Benelli. Synthesis of chitosan-alginate microspheres with high antimicrobial and antibiofilm activity against multi-drug resistant microbial pathogens. <i>Microbial Pathogenesis</i> . 114, 17-24:2017.
120	R.Ishwarya, B.Vaseeharan, S.Kalyani, B.Banumathi, M.Govindarajan , Naiyf S. Alharbi, Shine Kadaikunnan, Mohammed N. Al-anbr, Jamal M. Khaled, G.Benelli. Facile green synthesis of zinc oxide nanoparticles using <i>Ulva lactuca</i> seaweed extract and evaluation of their photocatalytic, antibiofilm and insecticidal activity. <i>Journal of Photochemistry & Photobiology, B: Biology</i> . 178: 249-258,2017.
121	G.Benelli, M.Rajeswary and M. Govindarajan . Towards green oviposition deterrents? Effectiveness of <i>Syzygium lanceolatum</i> (Myrtaceae) essential oil against six mosquito vectors and impact on four aquatic biological control agents. <i>Environmental Science and Pollution Research</i> . 25(11):10218-10227,2018.
122	M. Govindarajan , M. Rajeswary, S. Senthilmurugan, P. Vijayan, Naiyf S. Alharbi, Shine Kadaikunnan, Jamal M. Khaled and G. Benelli. Larvicidal activity of the essential oil from <i>Amomum subulatum</i> Roxb. (Zingiberaceae) against <i>Anopheles subpictus</i> , <i>Aedes albopictus</i> and <i>Culex tritaeniorhynchus</i> (Diptera: Culicidae), and non-target impact on four mosquito natural enemies. <i>Physiological and Molecular Plant Pathology</i> . 101: 219-224,2018.

123	G. Benelli, Shine Kadaikunnan, Naiyf S. Alharbi and M.Govindarajan . Biophysical characterization of <i>Acacia caesia</i> -fabricated silver nanoparticles: effectiveness on mosquito vectors of public health relevance and impact on non-target aquatic biocontrol agents. <i>Environmental Science and Pollution Research</i> . 25(11):10228-10242,2018.
124	B.Banumathi, B.Vaseeharan, B.Malaikozhundan, P.Ramasamy, M.Govindarajan , Naiyf S. Alharbi, Shine Kadaikunnan, A. Canale, and G.Benelli. Green larvicides against blowflies, <i>Lucilia sericata</i> (Diptera, Calliphoridae): Screening of seven plants used in Indian ethno-veterinary medicine and production of green-coated zinc oxide nanoparticles. <i>Physiological and Molecular Plant Pathology</i> . 101: 214-218,2018.
125	G.Benelli, M.Rajeswary, P.Vijayan, S.Senthilmurugan, Naiyf S. Alharbi, Shine Kadaikunnan, Jamal M. Khaled and M. Govindarajan . <i>Boswellia ovalifoliolata</i> (Burseraceae) essential oil as an eco-friendly larvicide? Toxicity against six mosquito vectors of public health importance, non-target mosquito fishes, backswimmers, and water bugs. <i>Environmental Science and Pollution Research</i> . 25(11):10264-10271,2018.
126	M.Govindarajan , M.Rajeswary, S.Senthilmurugan, P.Vijayan, Naiyf S. Alharbi, Shine Kadaikunnan, Jamal M. Khaled and G.Benelli. Curzerene, trans- β -elemenone, and γ -elemene as effective larvicides against <i>Anopheles subpictus</i> , <i>Aedes albopictus</i> , and <i>Culex tritaeniorhynchus</i> : toxicity on non-target aquatic predators. <i>Environmental Science and Pollution Research</i> . 25(11):10272-10282,2018.
127	G.Benelli, M.Govindarajan , S.Senthilmurugan, P.Vijayan, Shine Kadaikunnan, Naiyf S. Alharbi and Jamal M. Khaled. Fabrication of highly effective mosquito nanolarvicides using an Asian plant of ethno-pharmacological interest, Priyangu (<i>Aglaia elaeagnoidea</i>): toxicity on non-target mosquito natural enemies. <i>Environmental Science and Pollution Research</i> . 25(11):10283-10293, 2018.
128	M.Rajeswary, M.Govindarajan , Naiyf S. Alharbi, Shine Kadaikunnan, Jamal M. Khaled and G. Benelli. <i>Zingiber cernuum</i> (Zingiberaceae) essential oil as effective larvicide and oviposition deterrent potential on six mosquito vectors, with little non-target toxicity on four aquatic mosquito predators. <i>Environmental Science and Pollution Research</i> . 25(11):10307-10316,2018.
129	C.Aarthi, M.Govindarajan , P.Rajaraman, Naiyf S. Alharbi, Shine Kadaikunnan, Jamal M. Khaled, Ramzi A. Mothana, Nasir A. Siddiqui and G. Benelli. Eco-friendly and cost effective Ag nanocrystals fabricated using the leaf extract of <i>Habenaria plantaginea</i> : toxicity on six mosquito vectors and four non-target species. <i>Environmental Science and Pollution Research</i> . 25(11):10317-10327,2018.
130	G.Benelli, M.Govindarajan , Mohamad S. AlSalhi, S.Devanesan and F. Maggi. High toxicity of camphene and γ -elemene from <i>Wedelia prostrata</i> essential oil against larvae of <i>Spodoptera litura</i> (Lepidoptera: Noctuidae). <i>Environmental Science and Pollution Research</i> . 25(11):10383-10391,2018.
131	G. Benelli, F. Maggi, R.Pavela, K.Murugan, M.Govindarajan , B.Vaseeharan, R.Petrelli, L.Cappellacci, S.Kumar, A.Hofer, M.RezaYoussefi, A.A.Alarfaj, J.S.Hwang and A.Higuchi. Mosquito control with green nanopesticides: towards the One Health approach? A review of non-target effects. <i>Environmental Science and Pollution Research</i> . 25(11):10184-10206,2018.
132	Jamal M. Khaled, Fahd A. Al-Mekhlafi, Ramzi A. Mothana, Naiyf S. Alharbi, Khalid E. Alzaharni, Anwar H. Sharafaddin, Shine Kadaikunnan, Ahmed S. Alobaidi, Noofal I. Bayaqoob, M.Govindarajan and G. Benelli. <i>Brevibacillus laterosporus</i> isolated from the digestive tract of honeybees has high antimicrobial activity and promotes growth and productivity of honeybee's colonies. <i>Environmental Science and Pollution Research</i> . 25(11): 10447–10455,2018.
134	M.Abinayaa, B.Vaseeharana, M.Divyaa, A.Sharmilib, M. Govindarajan , Naiyf S. Alharbid, Shine Kadaikunnand, Jamal M. Khaledd and G. Benelli. Bacterial exopolysaccharide (EPS)-coated ZnO nanoparticles showed high antibiofilm activity and larvicidal toxicity against malaria and Zika virus vectors. <i>Journal of Trace Elements in Medicine and Biology</i> . 45: 93-103,2018.
135	G.Benelli, M.Govindarajan , M.Rajeswary, B.Vaseeharan, Sami A. Alyahya, Naiyf S. Alharbi, Shine Kadaikunnan, Jamal M. Khaled and F. Maggi. Insecticidal activity of camphene, zerumbone and α -humulene from <i>Cheilocostus speciosus</i> rhizome essential oil against the Old-World bollworm, <i>Helicoverpa armigera</i> . <i>Ecotoxicology and Environmental Safety</i> . 148: 781–786,2018.
136	M. Govindarajan , B.Vaseeharan, Naiyf S. Alharbi, Shine Kadaikunnan, Jamal M. Khaled, Mohammed N. Al-anbr, Sami A. Alyahya, F. Maggi and G. Benelli. High efficacy of (Z)- γ -bisabolene from the essential oil of <i>Galinsoga parviflora</i> (Asteraceae) as larvicide and oviposition deterrent against six mosquito vectors. <i>Environmental Science and Pollution Research</i> . 25(11):10555-10566,2018.

137	V.Thamilarasan, V.Sethuraman, K.Gopinath, C.Balakshmi, M. Govindarajan , Ramzi A. Mothana, Nasir A. Siddiqui, Jamal M. Khaled and G. Benelli. Single Step Fabrication of Chitosan Nanocrystals Using <i>Penaeus semisulcatus</i> : Potential as New Insecticides, Antimicrobials and Plant Growth Promoters. <i>Journal of Cluster Science</i> . 29(2): 375-384,2018.
138	Hanem F. Khater, M. Ali, Galal A. Aboulella, Marawan A. Marawan, M. Govindarajan , K.Murugan, Rao Z. Abbas, Nelissa P. Vaz, and G. Benelli. Toxicity and growth inhibition potential of vetiver, cinnamon, and lavender essential oils and their blends against larvae of the sheep blowfly, <i>Lucilia sericata</i> . <i>International Journal of Dermatology</i> . 57(4):449-457, 2018.
139	K.Kovendan, B.Chandramohan, M. Govindarajan , A.Jebanesan, S.Kamalakaran, S. Vincent and G.Benelli. Orchids as Sources of Novel Nano-insecticides? Efficacy of <i>Bacillus sphaericus</i> and <i>Zeuxine gracilis</i> -Fabricated Silver Nanoparticles Against Dengue, Malaria and Filariasis Mosquito Vectors. <i>Journal of Cluster Science</i> . 29(2): 345-357,2018.
140	R.Ishwarya, B.Vaseeharan, R.Jayakumar, V.Ramasubramanian, M.Govindarajan , Naiyf S. Alharbi, Jamal M. Khaled, Mohammed N. Al-anbr and G. Benelli. Bio-mining drugs from the sea: High antibiofilm properties of haemocyanin purified from the haemolymph of flower crab <i>Portunus pelagicus</i> (L.) (Decapoda: Portunidae). <i>Aquaculture</i> . 489: 130-140, 2018.
141	Sami A. Alyahya, M. Govindarajan , Naiyf S. Alharbi, Shine Kadaikunnan, Jamal M. Khaled, Ramzi A. Mothana, Mohammed N. Al-anbr, B.Vaseeharan, R.Ishwarya, M. Yazhiniprabha and G. Benelli. Swift fabrication of Ag nanostructures using a colloidal solution of <i>Holostemma ada-kodien</i> (Apocynaceae) – Antibiofilm potential, insecticidal activity against mosquitoes and non-target impact on water bugs. <i>Journal of Photochemistry & Photobiology, B: Biology</i> . 181: 70-79,2018.
142	S.Jayanthi, B.Vaseeharan, R.Ishwarya, S.Karthikeyan, M. Govindarajan , Naiyf S. Alharbi, Shine Kadaikunnan, Jamal M. Khaled and CsabaVágvölgyi. Identification, characterization and immune response of prophenoloxidase from the blue swimmer crab <i>Portunus pelagicus</i> and its antibiofilm activity. <i>International Journal of Biological Macromolecules</i> . 113:996-1007, 2018.
143	M.Divya, B.Vaseeharan, M.Anjugam, A.Iswarya, S.Karthikeyan, P.Velusamy, M.Govindarajan , Naiyf S.Alharbi, Shine Kadaikunnan, Jamal M.Khaled and CsabaVágvölgyi. Phenoloxidase activation, antimicrobial, and antibiofilm properties of β -glucan binding protein from <i>Scylla serrata</i> crab hemolymph. <i>International Journal of Biological Macromolecules</i> . 114: 864-873,2018.
145	M.Abinaya, B.Vaseeharan, M.Divya, S.Vijayakumar, M.Govindarajan , Naiyf S. Alharbi, Jamal M. Khaled, Mohammed N. Al-anbr and G.Benelli. Structural characterization of <i>Bacillus licheniformis</i> Dabhl exopolysaccharide—antimicrobial potential and larvicidal activity on malaria and Zika virus mosquito vectors. <i>Environmental Science and Pollution Research</i> . 25 (19): 18604-18619,2018.
146	R.Ishwarya, B.Vaseeharan, S.Subbaiah, Abdul Khudus Nazar, M.Govindarajan , Naiyf S. Alharbi, Shine Kadaikunnan, Jamal M. Khaled and Mohammed N. Al-anbr. Sargassum wightii-synthesized ZnO nanoparticles – from antibacterial and insecticidal activity to immunostimulatory effects on the green tiger shrimp <i>Penaeus semisulcatus</i> . <i>Journal of Photochemistry & Photobiology, B: Biology</i> . 183: 318-330,2018.
147	V.Karthika, P.Kaleeswaran, K.Gopinath, A.Arumugam, M.Govindarajan , Naiyf S. Alharbi, Jamal M. Khaled, Mohammed N. Al-anbr and G.Benelli. Biocompatible properties of nano-drug carriers using TiO ₂ -Au embedded on multiwall carbon nanotubes for targeted drug delivery. <i>Materials Science & Engineering C</i> . 90: 589-601, 2018.
148	Naiyf S. Alharbi, M.Govindarajan , Shine Kadaikunnan, Jamal M. Khaled, Taghreed N. Almanaa, Sami A. Alyahya, Mohammed N. Al-anbr, K.Gopinath and A.Sudha. Nanosilver crystals capped with <i>Bauhinia acuminata</i> phytochemicals as new antimicrobials and mosquito larvicides. <i>Journal of Trace Elements in Medicine and Biology</i> . 50: 146-153,2018.
149	R.Rekha, B.Vaseeharan, R.Ishwarya, M.Anjugam, Naiyf S. Alharbi, Shine Kadaikunnan, Jamal M. Khaled, Mohammed N. Al-anbr and M. Govindarajan . Searching for crab-borne antimicrobial peptides: Crustin from <i>Portunus pelagicus</i> triggers biofilm inhibition and immune responses of <i>Artemia salina</i> against GFP tagged <i>Vibrio parahaemolyticus</i> Dabv2. <i>Molecular Immunology</i> . 101: 396–408,2018.
150	Ravichandran Rekha, Baskaralingam Vaseeharan, Sekar Vijayakumar, Muthukumar Abinaya, Marimuthu Govindarajan, Naiyf S. Alharbi, Shine Kadaikunnan, Jamal M. Khaled, Mohammed N. Al-anbr. Crustin-capped selenium nanowires against microbial pathogens and Japanese encephalitis mosquito vectors – Insights on their toxicity and internalization. <i>Journal of Trace Elements in Medicine and Biology</i> . 51, 191-203
151	Muthukumar Abinaya, Baskaralingam Vaseeharan, Ravichandran Rekha, Sivakumar Shanthini,

	Marimuthu Govindarajan, Naiyf S. Alharbi, Shine Kadaikunnane, Jamal M. Khaled, Mohammed N. Al-Anbr. Microbial exopolymer-capped selenium nanowires—Towards new antibacterial, antibiofilm and arbovirus vector larvicides? <i>Journal of Photochemistry & Photobiology, B: Biology</i> . 192; 55-67, 2019.
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➤ **Book Published :**

Text books published by INTERNATIONAL Publishers with peer reviewed

S. No.	Authors	Title	Publisher	ISBN No.	Year
1	M.Govindarajan	Mosquitocidal properties of <i>Caesalpinia pulcherrima</i> (Family: Fabaceae)	Lap LAMBERT Academic publishing	978-3-659-36039-8	2013
2	A.Amsath M.Govindarajan	Apiculture	Lap LAMBERT Academic publishing	978-3-659-32309-6	2013
3	Hanem Khater M.Govindarajan Giovanni Benelli	Natural remedies in the fight against parasites	In Tech	978-953-51-3289-9	2017
4	M.Govindarajan	Green synthesized silver nanoparticles in the fight against mosquitoes	Lap LAMBERT Academic publishing	978-3-330-03713-7	2018
5	M.Govindarajan	Plant extracts to control the Zika virus mosquito vector	Lap LAMBERT Academic publishing	978-613-9-91126-4	2018

Text books published by NATIONAL Publishers with peer reviewed

S. No.	Authors	Title	Publisher	ISBN No & Year	Year
1	M.Govindarajan	A manual on Techniques in Isolation of Bio-active molecules	Manibharathi Publishers Chidambaram-608001 Tamilnadu	97881925287-1-7	2013
2	M.Govindarajan	A handbook of practical Zoology Vol. 1 - Invertebrates	Nadar Publication, Kumbakonam Tamilnadu	978-93-5321-434-0	2018
3	M.Govindarajan	A handbook of practical Zoology Vol. 2 - Vertebrates	Nadar Publication, Kumbakonam Tamilnadu	978-93-5321-561-3	2018
4	M.Govindarajan	A handbook of practical Zoology Vol. 3 – Allied Zoology	Nadar Publication, Kumbakonam Tamilnadu	978-93-5321-625-2	2018

CHAPTERS PUBLISHED IN BOOKS

S. No.	Chapter Title	Book Title	Author's Name	Publisher	Year
1	Mosquito Larvicidal Potential of Medicinal Plants	Herbal insecticides, repellents and biomedicines: Effectiveness & commercialization	M.Govindarajan	Springer	2017

2	Bio- synthesized silver nanoparticles: A potent novel bio-pesticide for vector mosquitoes	Nanotechnology in Food Industry	M.Govindarajan	Elsevier	2016
3	Green Synthesized Silver Nanoparticles: A Potential New Insecticide For Mosquito Control	Nanotechnology in the fight against Parasitology	M.Govindarajan	Springer	2015
4	Chemical composition and mosquitocidal potential of <i>Mentha spicata</i> (Linn.) Essential oil.	Recent Progress in Medicinal Plants Volume 38 Essential oil III and phytopharmacology,	M. Govindarajan	STUDIUM PRESS LLC. U.S.A. Editor: J.N.GOVIL	2013
5	Adulticidal efficacy of <i>Delonix elata</i> (L.) Gamble against <i>Culex quinquefasciatus</i> .	Biologically Active Molecules.	M.Govindarajan, M.Rajeswary.	Excel India Publishers, New Delhi, India.	2012
6	Mosquito ovicidal property of <i>Eclipta alba</i> (L.) Hassk (Asteraceae) against filarial vector <i>Culex quinquefasciatus</i> .	Biologically Active Molecules.	R. Sivakumar, M. Govindarajan	Excel India Publishers, New Delhi, India. Editor: N.S.Nagarajan	2012
7	Repellent activity of essential oil of <i>Pelargonium graveolens</i> L. Herit against yellow fever mosquito, <i>Aedes aegypti</i> Linnaeus.	Vector-Borne Disease: Epidemiology and Control	T.Pushpanathan, A. Jebanesan, M.Govindarajan, K. Mullai, Samidurai.	Scientific Publisher. India	2008
8	Larvicidal activity of the leaf extract of <i>Citullus colocynthis</i> (L.) schrad against vector mosquitoes.	Vector-Borne Disease: Epidemiology and Control	K. Mullai, A. Jebanesan, M.Govindarajan, T. Pushpanathan	Scientific Publisher (INDIA).	2008

➤ **Details Of Conference / Seminars / Workshop Attended:**

INTERNATIONAL

S. No.	Title of paper presented	Title of conference/ seminar	Organised By
1	“Mosquito larvicidal properties of secondary metabolites of actinomycetes against malarial vector, <i>Anopheles stephensi</i> L. (Diptera: Culicidae)”.	8 th International symposium on vectors and vector born diseases.	Center for research in medical entomology (ICMR) Madurai-625002, Tamil Nadu, India. 13-15 October, 2006
2	Larvicidal activity of the leaf extract of <i>Citrullus colocynthis</i> (L) schrad against vector mosquitoes	8 th International symposium on vectors and vector born diseases.	Center for research in medical entomology (ICMR) Madurai-625002, Tamil Nadu, India. 13-15 October, 2006
3	Repellent activity of essential oil of <i>Pelargonium graveolens</i> L. herit against yellow fever mosquito <i>Aedes aegypti</i> Linn. (Diptera: Culicidae)	8 th International symposium on vectors and vector born diseases.	Center for research in medical entomology (ICMR) Madurai-625002, Tamil Nadu, India. 13-15 October, 2006
4	Larvicidal activity of <i>Vitex negundo</i> Linn. (Verbinaceae) extract against <i>Culex quinquefasciatus</i> say (Diptera: Culicidae)	8 th International symposium on vectors and vector born diseases.	Center for research in medical entomology (ICMR) Madurai-625002, Tamil Nadu, India. 13-15 October, 2006
5	“Larvicidal efficacy of secondary metabolites of soil fungi against <i>Culex quinquefasciatus</i> (Say) and <i>Aedes</i>	International conference on Biodiversity of insects: challenging	Department of Zoology, Bharathiyar University, Coimbatore – 641 046

	<i>aegypti</i> (Linn.) (Diptera: Culicidae)".	issues in management and conservation.	Tamilnadu, India. 30 th February, 2006
6	Larvicidal activity of <i>Eclipta alba</i> (L.) Hassk (Astraceae) leaf extract against filarial vector mosquito, <i>Culex quinquefasciatus</i> (Say.) (Diptera: Culicidae)	International Symposium on Recent Advances in Ecology and Management of Vectors and Vector Borne Diseases	Defence Research and Development Establishment (DRDE), DRDO, Ministry of Defence, Jhansi Road, Gwalior – 474 002 (M.P) India. 1-3 December, 2010.
7	Mosquito larvicidal activity of <i>Cassia fistula</i> against <i>Aedes albopictus</i> (Diptera: Culicidae)	International Conference on Science and Technology for Clean and Green Environment.	Zoology Wing. Annamalai University. 27-28 July 2012.
8	Mosquito larvicidal properties of <i>Asparagus racemosus</i> (Willd.) (Family:Liliaceae) root extracts against malaria vector, <i>Anopheles stephensi</i> (Diptera: Culicidae).	3 rd International congress on Global warming biodiversity of insects: management and conservation strategies (GW-BIMC 2013).	Department of Zoology, School of life sciences, Bharathiar University, Coimbatore- 641 046, Tamilnadu. 26 th to 28 th November, 2013.
9	Mosquito Larvicidal activity of <i>Asparagus racemosus</i> (Willd.) (Family:Asparagaceae) root extracts against filariasis vector, <i>Culex quinquefasciatus</i> (Diptera: Culicidae).	International conference on Vector borne disease- Combat and Control.	Department of Zoology, Justice Basheer Ahmed Sayeed College for Women (Autonomous), Chennai- 18, Tamilnadu. 22 nd and 23 rd January 2014.

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S. No.	Title of paper presented	Title of conference/ seminar	Organised By
1	"Efficacy of fungal secondary metabolite(s) of mangrove soil against larval mosquito <i>Culex quinquefasciatus</i> (Say)".	National conference on conservation of coastal ecosystems with the help of Biotechnological tools.	Loyola Institute of Frontier energy (LIFE), Loyola College, Chennai. 08-10 September, 2003
2	"Efficacy of secondary metabolites of actinomycetes against larval mosquito <i>Culex quinquefasciatus</i> (Say)".	National symposium on Resent in Environment and Biotechnology.	Department of Zoology and Biochemistry, Govt. college (Autonomous) Kumbakonam- 612 001.26-28 July,2004
3	Extracellular secondary metabolites of soil fungi against larval mosquito <i>Culex quinquefasciatus</i> say".	National seminar on Biovision.	Department of Zoology, Annamalai University, Annamalai Nagar-608002, Tamil Nadu, India. 21 – 22 January, 2005
4	Bioactivity of essential oils of <i>Ocimum basilicum</i> Linn. Against the filarial mosquito, <i>Culex quinquefasciatus</i> say	National seminar on Biovision.	Department of Zoology, Annamalai University, Annamalai Nagar-608002, Tamil Nadu, India. 21 – 22 January, 2005
5	"Larvicidal efficacy of secondary metabolites of actinomycetes against the dengue vector <i>Aedes aegypti</i> (Linn.) (Diptera: Culicidae)".	National Seminar on Recent Trends in the Revitalization of indigenous practices for Better Health care of Animals Division of Animal husbandry.	Faculty of Agriculture, Annamalai University Annamalai Nagar-608002, Tamil Nadu, India. 27 – 28 March, 2006
6	Larvicidal efficacy of <i>Pelargonium graveolens</i> essential oil against the filarial mosquito <i>Culex quinquefasciatus</i> say (Diptera: Culicidae)	National Seminar on Recent Trends in the Revitalization of indigenous practices for Better Health care of Animals Division of Animal husbandry.	Faculty of Agriculture, Annamalai University Annamalai Nagar-608002, Tamil Nadu, India. 27 – 28 March, 2006
7	"Larvicidal efficacy of secondary metabolites of soil fungi against	National Conference on Microbial Biotechnology for	Department of Microbiology, Faculty of Agriculture,

	<i>Culex quinquefasciatus</i> (Linn.)(Diptera: Culicidae)".	Agriculture and Industry.	Annamalai University, Annamalai Nagar-608002, Tamil Nadu, India. 28 – 29 March, 2006
8	Repellent activity of essential oil of <i>Thymus vulgaris</i> Linn. Against yellow fever mosquito <i>Aedes aegypti</i> Linn. (Diptera: Culicidae)	National Conference on Microbial Biotechnology for Agriculture and Industry.	Department of Microbiology, Faculty of Agriculture, Annamalai University, Annamalai Nagar-608002, Tamil Nadu, India. 28 – 29 March, 2006
9	"Oviposition attractancy of fungal secondary metabolites for <i>Culex quinquefasciatus</i> (Say.) (Diptera: Culicidae)"	National seminar on mosquito biodiversity and challenges in the control of mosquito-borne diseases.	P.G.&Research Department of Advanced zoology& Biotechnology, Loyola College, Chennai-600034, Tamil Nadu, India. 19-20 February, 2007
10	Efficacy of natural plant product, <i>Vitex negundo</i> against dengue mosquito vector <i>Aedes aegypti</i>	National seminar on mosquito biodiversity and challenges in the control of mosquito-borne diseases.	P.G.&Research Department of Advanced zoology& Biotechnology, Loyola College, Chennai-600034, Tamil Nadu, India. 19-20 February, 2007
11	Larvicidal and repellent activities of essential oil of <i>Thymus vulgaris</i> Linn. (Labiatae) against malarial vector <i>Anopheles stephensi</i> (Diptera: Culicidae)	National seminar on mosquito biodiversity and challenges in the control of mosquito-borne diseases.	P.G.&Research Department of Advanced zoology& Biotechnology, Loyola College, Chennai-600034, Tamil Nadu, India. 19-20 February, 2007
12	"Extracellular metabolites of actinomycetes against filarial vector mosquito <i>Culex quinquefasciatus</i> (Say) (Diptera: Culicidae)".	94 th Indian Science Congress	Annamalai University, Annamalai Nagar-608002, Tamil Nadu, India. 3-7 January, 2007
13	Repellent activity of <i>Cymbopogon citrates</i> stapt (Graminae) leaf essential oil against the filarial mosquito, <i>Culex quinquefasciatus</i> (Say) (Diptera: Culicidae)".	94 th Indian Science Congress	Annamalai University, Annamalai Nagar-608002, Tamil Nadu, India. 3-7 January, 2007
14	"Oviposition response of the mosquito, <i>Culex quinquefasciatus</i> to the secondary metabolites of the fungus, <i>Fusarium vasinfectum</i> "	National seminar on current trends in environment and biosafety	Department of Zoology, Annamalai University. Annamalainagar-608 002. 8-9 March, 2008
15	Larvicidal and repellent activity of essential oil of <i>Toddalia asiatica</i> Lam. (Rutaceae) against dengue vector, <i>Aedes aegypti</i> Linn (Diptera: Culicidae)	National conference on biodiversity, bioresources and biotechnology for sustainable livelihood of rural community.	Loyola Institute of Frontier energy (LIFE), Loyola College, Chennai. 18-20 January, 2008
16	Mosquito adulticidal properties of <i>Delonix elata</i> (L.) Gamble (Family: Fabaceae) against dengue vector, <i>Aedes aegypti</i> (Linn.) (Diptera: Culicidae)	UGC, ICMR and MoES sponsored National conference on Environment, Biodiversity and Bioethics Current trends and Future Perspectives-2012	Department of Zoology, Annamalai University. Annamalainagar-608 002. 23 rd and 24 th March-2012.
17	Mosquito Larvicidal activity of <i>Eclipta alba</i> (L.) Hassk. (Asteraceae) against Japanese encephalitis vector, <i>Culex tritaeniorhynchus</i> Giles (Diptera: Culicidae)	UGC, ICMR and MoES sponsored National conference on Environment, Biodiversity and Bioethics Current trends and Future Perspectives-2012(NCEBB-2012)	Department of Zoology, Annamalai University. Annamalainagar-608 002. 23 rd and 24 th March-2012.
18	Larvicidal efficacy of <i>Asparagus</i>	UGC, CSIR, MoES sponsored	Department of Zoology,

	<i>racemosus</i> (Willd.) (Family:Asparagaceae) root extracts against Dengue vector mosquito, <i>Aedes aegypti</i> (Diptera: Culicidae).	National Conference on Environmental issues and Challenges -Vision 2020 (EnVISION 2020).	Annamalai University, Annamalainagar-608 002, Tamilnadu. 27 th and 28 th September, 2013.
19	Mosquito ovicidal activity of <i>Cassia alata</i> plant leaf extracts against <i>Culex quinquefasciatus</i> , <i>Aedes aegypti</i> and <i>Anopheles</i> <i>stephensi</i> .	Advances in Toxicology and Serinotechnology (ATS).	Department of Zoology. Annamalai University. Annamalainagar-608 002.23 rd and 24 th July 2015.
20		Statistical Data Analysis using SPSS.	Staff Training and Development Centre. Department of Statistics. Annamalai University. Annamalainagar-608 002. 19 th and 20 th March 2015.
21		UGC sponsored “National workshop on recent trends in bio-virtual labs”	Department of Zoology, Government College for Women (Autonomous) Kumbakonam. 24.01.2018
22		UGC sponsored “National workshop on computational biology and its application”	Department of Zoology, Govt. College for Women (A) Kumbakonam. February 8 th and 9 th , 2018
23		UGC sponsored ‘National Conference on Indian Fisheries: Prospects & Challenges’	Department of Zoology, Government College for Women (Autonomous) Kumbakonam February 15th & 16th, 2018

➤ **FDP/ Orientation / Refreshes Courses Attended:**

Courses & Training	Title	Venue	Duration	Days
Orientation Course	UGC Sponsored -96 th Orientation Course	UGC -ASC, Pondicherry University, Puducherry.	20-05-2009 to 16-06-2009	28
Training Programme	In- Service Training Programme	Faculty of Science, Annamalai University	21.07.2009 to 03.08.2009	14
Refresher course	ICPR Sponsored Refresher Course	Department of Philosophy, Annamalai University,	06.06.2012 to 26.06.2012	21
Refresher course	UGC Sponsored Refresher Course in Life Science & Biotechnology Subject: Zoology	UGC-HRDC Madurai Kamaraj University Madurai-625 021	09.11.2018 to 29.11.2018	21
Short Term Course	MOOCs, E-Content Development and Open Educational Resources	UGC-HRDC Bharathidasan University Tiruchirappalli - 620 023	15.02.2019 to 21.02.2019	07

➤ **Details of Workshop / Conference/ Seminar Organised:**

S. No.	Name of the Events	Title	Duration	Place
1	Workshop	National workshop on trends and techniques in isolation of bio- active compounds.	31.01.2013 to 02.02.2013	Annamalai University, Annamalainagar
2	Training Programme	Writing, Winning and Managing Research Proposal	27.02.2014	Annamalai University, Annamalainagar
3	Workshop	Hands on workshop on handling and maintenance of microscopes	September, 25 th 2018	Govt. College for Women (A), Kumbakonam

➤ **Committee Responsibilities:**

- Discipline committee member
- Coordinator, Rotaract Club

➤ **Invited Talks:**

Invited lectures or presentations in conference /symposia/ Workshop: INTERNATIONAL

S. No	Title of lecture/ academic session	Title of conference/ seminar etc,	Organized by
1	Mosquito borne diseases- An global scenario	2 nd International conference on Bioinformatics and system biology	Department of Zoology (DDE), Annamalai University. Annamalaiagar-608 002. 8-9 March, 2008
2	Secondary metabolites from soil fungi and actinomycetes: A modern Approach to control vector mosquitoes.	International colloquium on Biovision'09.	Department of Biochemistry & Electronics, R.V.S. College of Arts & Science , Karaikal. 1 st & 2 nd April , 2009.
3	Mosquito larvicidal properties of <i>Asparagus racemosus</i> (Willd.) (Family:Liliaceae) root extracts against malaria vector, <i>Anopheles stephensi</i> (Diptera: Culicidae)	3 rd International congress on Global warming biodiversity of insects: management and conservation strategies (GW-BIMC 2013)	Department of Zoology, Bharathiar University, Coimbatore- 641 046, Tamilnadu. 26 th to 28 th November, 2013

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1	Dengue, Zika virus mosquitoes: New challenges for an eco-friendly control	International Colloquium on Biovision-2018	Sir Issac Newton College of Arts & Science Campus, Pappakovil, Nagapattinam. February 28th, 2018,
2	Bioactive compounds from aquatic organisms	UGC sponsored National seminar on Emerging Trends and Challenges in Aquatic Biotechnology.	P.G. and Research Department of Zoology, Khadir Mohideen College, Adirampattinam- 614 701, Tamilnadu. 12 th & 13 th March, 2011.
3	Dengue – A global scenario	National seminar on recent trends and challenges in biosciences	P.G. and Research Department of Zoology, Khadir Mohideen College, Adirampattinam- 614 701, Tamilnadu. 16 th October, 2016