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EDUCATION SUMMARY

Research Assistant Professor Mar 2015 – Present

In the Department of Applied Bioscience, College of Life and Environmental Science, Konkuk University, Seoul 05029, South Korea, Develop new nanomaterials by designing, budgeting and managing experiments to materialize new initiatives. Communicate project milestones and results through technical reports, peer-reviewed articles and international conferences.

SUMMARY OF QUALIFICATIONS

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|---|---------------------------------------|---------------------------|
| • Resourceful & Proactive Assistant Professor | • Research and presentation Expertise | • Leadership Expertise |
| • Complex Problem Solving | • Strategic Planning | • Standard Testing |
| • Creative and Entrepreneurial Mindset | • Friendly and Professional Attitude | • Outstanding Negotiation |
| Skills • Workplace Maintenance | • Proficiency English & Tamil | • Multi-media instruction |
| • Analytical Thinking | • Classroom management | • Excellent Communication |
| • Time Management | • Curriculum Development | • Teamwork Player |

PROFESSIONAL EXPERIENCE

Research Assistant Professor (Mar 2015 – Present)

In the Department of Applied Bioscience, College of Life and Environmental Science, Konkuk University, Seoul 05029, South Korea,

Duties and responsibilities

- Spearheaded efforts to manage and participate in the departmental curriculum review projects, and ensured that the class achieved a 100% passing score.
- Communication skills demonstrated through the design of classroom presentations and lectures, creation of detailed written lesson plans & student evaluations, and the ability to establish and maintain professional relationships
- Taught the core courses of Microbiology, Biotechnology and "Molecular Biology" to the graduate & postgraduate students.

EDUCATION

Ph.D., Microbiology

Apr 2015

- Unit of Nanotechnology, Post Graduate and Research Department of Zoology, C. Abdul Hakeem College, Melvisharam - 632 509, Vellore District, Tamil Nadu, India (Affiliated to Thiruvalluvar University)

M.Sc., Applied Microbiology
Jun2005

- Department of Microbiology - Adhiparasakthi College of Science, G.B. Nagar, Kalavai, Vellore Dist - 632506, (Affiliated to University of Madras)

B.Sc., Microbiology
Apr2002

- Department of Microbiology - Adhiparasakthi College of Science, G.B. Nagar, Kalavai, Vellore Dist – 632506, (Affiliated to University of Madras)

Ph.D Thesis:

- Green synthesis and characterization of metal and metal-oxide nanoparticles using *Eclipta prostrata* extract and its biomedical applications

Ph.D Mentor:

- Dr. A. Abdul Rahuman, Associate Professor, Unit of Nanotechnology, Post Graduate and Research Department of Zoology, Abdul Hakeem College, Melvisharam - 632 509, Vellore District, Tamil Nadu, India.

PROFESSIONAL SKILLS

- Proven ability to develop and implement innovative instructional methods.
- Exceptional ability to develop professional logistics to improvise student performance.
- Strong ability to guide, lead and mentor students in research projects.
- Proactive ability to evaluate, monitor and mentor student academic progress.
- Proven ability to assess, review and evaluate student activities and progress.
- Great knowledge of supervise and support teaching assistants
- In-depth knowledge participate in departmental and college activities
- Ability to serve and support functional activities of departmental committees
- Proven ability to assess, review and evaluate student activities and progress.
- Profound ability to create, innovate and implement career-enhancement programs and activities.

PROFESSIONAL PUBLICATIONS

- Cumulative citations for all the published articles are 72, cited publications is “1919” and “h” index for the citations of all the published articles is “24” [Source: Scopus]

- Review paper : 12
- International : 53
- National : 6
- Total Impact Factor: 112.84
- h-index: 24
- Total citations: 1919

2018 Publication

- Chung I.M., Park S.K., Thiruvengadam M., Lee J.H., Kim S.H., Rajakumar G*. A review of biotechnological applications of rice allelopathy in agricultural production. Weed. Manag. Sci. (Accepted)
- Chung I.M., **Rajakumar G***, Thiruvengadam M. (2018) Effect of silver nanoparticles on phenolic compounds production and biological activities in hairy root cultures of *Cucumis anguria*. Acta Biologica Hungarica. 69(1), pp. 97-109
- Chung I.M., Rekha K, **Rajakumar G**, Thiruvengadam M. (2018) Production of bioactive compounds and gene expression alterations in hairy root cultures of chinese cabbage elicited by copper oxide nanoparticles. Plant Cell, Tissue and Organ Culture (PCTOC) <https://doi.org/10.1007/s11240-018-1402-0>

- Thiruvengadam M, **Rajakumar G***, Chung I.M. (2018) Nanotechnology: current uses and future applications in the food industry. 3 Biotech. 8:74 <https://doi.org/10.1007/s13205-018-1104-7>
- **Rajakumar G**, Thiruvengadam M, Mydhili G, Gomathi T, Chung IM. (2018) Green approach for synthesis of zinc oxide nanoparticles from *Andrographis paniculata* leaf extract and evaluation of their antioxidant, anti-diabetic, and anti-inflammatory activities. Bioprocess Biosyst Eng. doi: 10.1007/s00449-017-1840-9
- Kamaraj C, Rajiv Gandhi P, Elango G, Karthi S, Chung IM, **Rajakumar G*** (2018) Novel and environmental friendly approach; Impact of Neem (*Azadirachta indica*) gum nano formulation (NGNF) on *Helicoverpa armigera* (Hub.) and *Spodoptera litura* (Fab.) IJBIOMAC. 10.1016/j.ijbiomac.2017.08.145

2017 Publication

- Chung IM, **Rajakumar G**, Gomathi T, Park SK SH, Kim Thiruvengadam M. (2017) Nanotechnology for human food: Advances and Perspective. Frontiers in Life Science, 10:1, 63-72,
- Chung IM, **Rajakumar G**, Lee JH, Kim SH, Thiruvengadam M (2017) Ethnopharmacological uses, phytochemistry, biological activities, and biotechnological applications of *Eclipta prostrata*. App. Microbio Biotech. 101(13), 5247-5257
- **Rajakumar G**, Gomathi T, Thiruvengadam M, Devirajeswari V, Kalpana VN, Chung IM (2017) Evaluation of anti-cholinesterase, antibacterial and cytotoxic activities of green synthesized silver nanoparticles using from *Millettia pinnata* flower extract. Microbial Pathogen. 103: 123-128
- Chung IM, Rahuman AA, Marimuthu S, Vishnu Kirthi A, Anbarasan K, **Rajakumar G*** (2017) Green synthesis of copper nanoparticles using *Eclipta prostrata* leaves extract and their antioxidant and cytotoxic activities. Exp. Ther. Med. 4(1) 18-24.
- Chung, IM, Rekha K, **Rajakumar G**, Thiruvengadam M (2017) Jasmonic and salicylic acids enhanced phytochemical production and biological activities in cell suspension cultures of spine gourd (*Momordica dioica* roxb). Acta Biologica Hungarica. (68), 88-100

2016 Publication

- Chung, IM, Rekha K, **Rajakumar G**, Thiruvengadam M (2016) Production of glucosinolates, phenolic compounds and associated gene expression profiles of hairy root cultures in turnip (*Brassica rapa* ssp. *rapa*) . 3 Biotech. 6, (2,1), 175.
- Chung IM, Thiruvengadam M, Rekha K, **Rajakumar G***. (2016) Elicitation Enhanced the Production of Phenolic Compounds and Biological Activities in Hairy Root Cultures of Bitter melon (*Momordica charantia* L.). Braz. Arch. Biol. Technol. v.59: e160393,
- Thiruvengadam M, Rekha K, **Rajakumar G**, Lee TJ, Kim SH, Chung IM. (2016) Enhanced Production of Anthraquinones and Phenolic Compounds and Biological Activities in the Cell Suspension Cultures of *Polygonum multiflorum*. Int J Mol Sci. Nov 16; 17(11).
- Chung IM, Ketharnathan S, Kim SH, Thiruvengadam M, Rani MK, **Rajakumar G***. (2016) Making Sense of the Tangle: Insights into Chromatin Folding and Gene Regulation. Genes (Basel). 23; 7(10).
- **Rajakumar G**, Gomathi T, Rahuman AA, Thiruvengadam M, Mydhili G, Kim1, Tak-Jun Lee SH, Chung, IM. (2016) Biosynthesis and Biomedical Applications of Gold Nanoparticles using *Eclipta prostrata* Leaf Extract. App.Science. 6(8):222
- Dwivedi SL, Upadhyaya HD, Chung IM, De Vita P, García-Lara S, Guajardo-Flores D, Gutiérrez-Urbe JA, Serna-Saldívar SO, **Rajakumar G**, Sahrawat KL, Kumar J, Ortiz R. (2016) Exploiting Phenylpropanoid Derivatives to Enhance the Nutraceutical Values of Cereals and Legumes. Front Plant Sci. 3; 7:763.
- Chung IM, Ketharnathan S, Thiruvengadam M, **Rajakumar G*** (2016) Rheumatoid Arthritis: The Stride from Research to Clinical Practice. Int J Mol Sci. 8; 17(6).

- Chung IM, Park I, Seung-Hyun K, Thiruvengadam M, **Rajakumar G*** (2016) Plant-Mediated Synthesis of Silver Nanoparticles: Their Characteristic Properties and Therapeutic Applications. *Nanoscale Res Lett.* 11(1):40.
- Chung IM, **Rajakumar G*** (2016) Genetics of Congenital Heart Defects: The NKX2-5 Gene, a Key Player. *Genes (Basel).* 2016 23; 7(2)

2015 Publication

- Chung IM, Rahuman AA, Marimuthu S, Vishnu Kirthi A, Anbarasan K, **Rajakumar G*** (2015) An Investigation of the Cytotoxicity and Caspase-Mediated Apoptotic Effect of Green Synthesized Zinc Oxide Nanoparticles Using *Eclipta prostrata* on Human Liver Carcinoma Cells. *Nanomaterials*, 5(3), 1317-1330;
- **Rajakumar G**, Rahuman AA, Chung IM, Kirthi AV, Marimuthu S, Anbarasan K (2015). Antiplasmodial activity of eco-friendly synthesized palladium nanoparticles using *Eclipta prostrata* extract against *Plasmodium berghei* in Swiss albino mice. *Parasitol Res.* 114(4):1397-406.
- **Rajakumar G**, Rahuman AA, Roopan SM, Chung IM, Anbarasan K, Karthikeyan V. (2015) Efficacy of larvicidal activity of green synthesized titanium dioxide nanoparticles using *Mangifera indica* extract against blood-feeding parasites. *Parasitol Res.* 114(2):571-81.
- Kaushik NK, Bagavan A, Rahuman AA, Zahir AA, Kamaraj C, Elango G, Jayaseelan C, Kirthi AV, Santhoshkumar T, Marimuthu S, **Rajakumar G**, Tiwari SK, Sahal D. (2015) Evaluation of antiplasmodial activity of medicinal plants from North Indian Buchpora and South Indian Eastern Ghats. *Malar J.* 7;14:65.

2014 Publication

- **Rajakumar G**, Rahuman AA, Jayaseelan C, Santhoshkumar T, Marimuthu S, Kamaraj C, Bagavan A, Zahir AA, Kirthi AV, Elango G, Arora P, Karthikeyan R, Manikandan S, Jose S (2014) Solanum trilobatum extract mediated synthesis of titanium dioxide nanoparticles to control *Pediculus humanus capitis*, *Hyalomma anatolicum* and *Anopheles subpictus*. *Parasitol Res.* 113:469–479
- Bharathi A, Roopan SM, Rahuman AA, **Rajakumar G**. (2014) Solvatochromic behaviour and larvicidal activity of acridine-3-carboxylates. *J Photochem Photobiol B. Nov;* 140:359-64.
- Jayaseelan C, Abdul Rahuman A, Ramkumar R, Perumal P, **Rajakumar G**, Vishnu Kirthi A, Santhoshkumar T, Marimuthu S. (2014). Effect of sub-acute exposure to nickel nanoparticles on oxidative stress and histopathological changes in Mozambique tilapia, *Oreochromis mossambicus*. *Ecotoxicol Environ Saf.* 107:220-8.
- Kamaraj C, Rahuman AA, Roopan SM, Bagavan A, Elango G, Zahir AA, **Rajakumar G**, Jayaseelan C, Santhoshkumar T, Marimuthu S, Kirthi AV (2014) Bioassay-guided isolation and characterization of active antiplasmodial compounds from *Murraya koenigii* extracts against *Plasmodium falciparum* and *Plasmodium berghei*. *Parasitol Res.* 113(5):1657-1672

2013 Publication

- **Rajakumar G**, Rahuman AA, Velayutham K, Ramyadevi J, Jeyasubramanian K, Marikani A, Elango G, Kamaraj C, Santhoshkumar T, Marimuthu S, Zahir AA, Bagavan A, Jayaseelan C, Kirthi AV, Iyappan M, Siva C (2013) Novel and simple approach using synthesized nickel nanoparticles to control bloodsucking parasites. *Vet Parasitol* 191: 332– 339
- Saurav K[#], **Rajakumar G**[#], Kannabiran K, Rahuman AA, Velayutham K, Elango G, Kamaraj C, Zahir AA (2013) Larvicidal activity of isolated compound 5-(2,4-dimethylbenzyl) pyrrolidin-2-one from marine *Streptomyces* VITSVK5 sp. against *Rhipicephalus (Boophilus) microplus*, *Anopheles stephensi*, and *Culex tritaeniorhynchus*. *Parasitol Res* 112(1): 215-226
- Marimuthu S, Rahuman AA, Kirthi AV, Santhoshkumar T, Jayaseelan C, **Rajakumar G** (2013) Eco-friendly microbial route to synthesize cobalt nanoparticles using *Bacillus thuringiensis* against malaria and dengue vectors. *Parasitol Res.* 112 (12): 4105–4112
- Bharathi A, Roopan SM, Rahuman AA, **Rajakumar G** (2013) (E)-2-Benzylidene-7-chloro-9-phenyl-3,4-dihydroacridin-1(2H)-ones: synthesis and larvicidal activity. *Res Chem Intermed* doi: 10.1007/s11164-013-1359-x (In press).

- Santhoshkumar T, Rahuman AA, Jayaseelan C, **Rajakumar G**, Marimuthu S, Kirthi AV, Velayutham K, Thomas J, Venkatesan J, Se-Kwon Kim (2013) Green synthesis of titanium dioxide nanoparticles using *Psidium guajava* extract and its antibacterial and antioxidant properties. *Asian Pacific J Trop Med* (accepted)
- Gopal JV, Thenmozhi M, Kannabiran K, **Rajakumar G**, Velayutham K, Rahuman AA (2013) Actinobacteria mediated synthesis of gold nanoparticles using *Streptomyces* sp. VITDDK3 and its antifungal activity. *Mat Lett* 93: 360–362
- Thenmozhi M, Gopal JV, Kannabiran K, **Rajakumar G**, Velayutham K, Rahuman AA (2013) Eco-friendly approach using marine actinobacteria and its compounds to control ticks and mosquitoes. *Parasitol Res* 112(2):719–729
- Velayutham K, Rahuman AA, **Rajakumar G**, Roopan SM, Elango G, Kamaraj C, Marimuthu S, Santhoshkumar T, Iyappan M, Siva C (2013) Larvicidal activity of green synthesized silver nanoparticles using bark aqueous extract of *Ficus racemosa* against *Culex quinquefasciatus* and *Culex gelidus*. *Asian Pacific J Trop Med* 95-101

2012 Publication

- **Rajakumar G**, Rahuman AA (2012) Histopathological studies and oxidative stress of synthesized silver nanoparticles in Mozambique tilapia (*Oreochromis mossambicus*). *J Environ Sci* 24(6):1091-1098
- **Rajakumar G**, Rahuman AA, Roopan SM, Khanna VG, Elango G, Kamaraj C, Zahir AA, Velayutham K (2012) Fungus-mediated biosynthesis and characterization of TiO₂ nanoparticles and their activity against pathogenic bacteria. *Spectrochim Acta A Mol Biomol Spectrosc* 91: 23-29
- Roopan SM, Bharathi A, Prabhakarn A, Rahuman AA, Velayutham K, **Rajakumar G**, Padmaja RD, Lekshmi M, Madhumitha G (2012). Efficient phyto-synthesis and structural characterization of rutile TiO₂ nanoparticles using *Annona squamosa* peel extract. *Spectrochimica Acta Part A: Mol Biomol Spec* 98:86-90
- Santhoshkumar T, Rahuman AA, Bagavan A, Marimuthu S, Jayaseelan C, Kirthi AV, Kamaraj C, **Rajakumar G**, Zahir AA, Elango G, Velayutham K, Iyappan M, Siva C, Karthik L, Bhaskara Rao KV (2012) Evaluation of stem aqueous extract and synthesized silver nanoparticles using *Cissus quadrangularis* against *Hippobosca maculata* and *Rhipicephalus (Boophilus) microplus*. *Exp Parasitol* 132(2):156-165
- Kamaraj C, Kaushik NK, Rahuman AA, Mohanakrishnan D, Bagavan A, Elango G, Zahir AA, Santhoshkumar T, Marimuthu S, Jayaseelan C, Kirthi AV, **Rajakumar G**, Velayutham K, Sahal D (2012) Antimalarial activities of medicinal plants traditionally used in the villages of Dharmapuri regions of South India. *J Ethnopharmacol* 141: 796- 802
- Subashini R, Bharathi A, Roopan SM, **Rajakumar G**, Rahuman AA, Gullanki PK (2012) Synthesis, spectral characterization and larvicidal activity of acridin-1(2H)-one analogues. *Spectrochimica Acta Part A: Mol Biomol Spec* 95: 442-445
- Arora P, Sindhu A, Dilbaghi N, Chaudhury A, **Rajakumar G**, Rahuman AA (2012) Nano-regenerative medicine towards clinical outcome of stem cell and tissue engineering in humans. *J Cell Mol Med* 16(9):1991-2000
- Ramyadevi J, Jeyasubramanian K, Marikani A, **Rajakumar G**, Rahuman AA (2012) Synthesis and antimicrobial activity of copper nanoparticles. *Mat Lett* 71: 114 - 116
- Elango G, Rahuman AA, Kamaraj C, Bagavan A, Zahir AA, Santhoshkumar T, Marimuthu S, Velayutham V, Jayaseelan C, Kirthi AV, **Rajakumar G** (2012) Efficacy of medicinal plant extracts against Formosan subterranean termite, *Coptotermes formosanus*. *Ind Crops Prod* 36: 524– 530
- Madhumitha G#, **Rajakumar G**#, Roopan SM, Rahuman AA, Priya KM, Saral AM, Khan FR, Khanna VG, Velayutham K, Jayaseelan C, Kamaraj C, Elango G (2012) Acaricidal, insecticidal, and larvicidal efficacy of fruit peel aqueous extract of *Annona squamosa* and its compounds against blood-feeding parasites. *Parasitol Res* 111:2189-2199
- Marimuthu S, Rahuman AA, Santhoshkumar T, Jayaseelan C, Kirthi AV, Bagavan A, Kamaraj C, Elango G, Zahir AA, **Rajakumar G**, Velayutham K (2012) Lousicidal activity of synthesized silver nanoparticles using *Lawsonia inermis* leaf aqueous extract against *Pediculus humanus capitis* and *Bovicola ovis*. *Parasitol Res* 111:2023-2033
- Deepika TL, Kannabiran K, & Khanna VG, **Rajakumar G**, Jayaseelan C, Santhoshkumar T, Rahuman AA (2012) Isolation and characterization of acaricidal and larvicidal novel compound (2S, 5R, 6R)-2-hydroxy- 3,5,6-trimethyloctan-4-one from *Streptomyces* sp. against blood-sucking parasites. *Parasitol Res* 111(3):1151-1163

- Jayaseelan C, Rahuman AA, **Rajakumar G**, Santhoshkumar T, Kirthi AV, Marimuthu S, Bagavan A, Kamaraj C, Zahir AA, Elango G, Velayutham K, Rao KV, Karthik L, Raveendran S (2012) Efficacy of plant-mediated synthesized silver nanoparticles against hematophagous parasites. *Parasitol Res* 111(2):921-933
- Santhoshkumar T, Rahuman AA, Bagavan A, Kirthi AV, Marimuthu S, Jayaseelan C, Kamaraj C, Zahir AA, Elango G, **Rajakumar G**, Velayutham K (2012) Efficacy of adulticidal and larvicidal properties of botanical extracts against *Haemaphysalis bispinosa*, *Hippobosca maculata*, and *Anopheles subpictus*. *Parasitol Res* 111(4):1833-1840
- Kamaraj C#, **Rajakumar G**#, Rahuman AA, Velayutham K, Bagavan A, Zahir AA, Elango G (2012) Feeding deterrent activity of synthesized silver nanoparticles using Manilkara zapota leaf extract against the house fly, *Musca domestica* (Diptera: Muscidae). *Parasitol Res* 111(6):2439–2448
- Velayutham K, Rahuman AA, **Rajakumar G**, Santhoshkumar T, Marimuthu S, Jayaseelan C, Bagavan A, Kirthi AV, Kamaraj C, Zahir AA, Elango G (2012) Evaluation of *Catharanthus roseus* leaf extract-mediated biosynthesis of titanium dioxide nanoparticles against *Hippobosca maculata* and *Bovicola ovis*. *Parasitol Res* 111(6):2329–2337

2011 Publication

- **Rajakumar G**, Rahuman AA (2011) Acaricidal activity of aqueous extract and synthesized silver nanoparticles from Manilkara zapota against *Rhipicephalus (Boophilus) microplus*. *Res Vet Sci* 93(1):303-309
- **Rajakumar G**, Abdul Rahuman A, Priyamvada B, Gopiesh Khanna V, Kishore Kumar D, Sujin PJ (2011) Eclipta prostrata leaf aqueous extract mediated for the synthesis of titanium dioxide nanoparticles and its larvicidal activity against malaria vector. 2011 IEEE Nanotechnology Materials and Devices Conference, NMDC 2011, art. no. 6155294: 563-566
- **Rajakumar G**, Abdul Rahuman A (2011) Larvicidal activity of synthesized silver nanoparticles using Eclipta prostrata leaf extract against filariasis and malaria vectors. *Acta Tropica*, 118 (3):196-
- Khanna VG, Kannabiran K, **Rajakumar G**, Rahuman AA, Santhoshkumar T (2011) Biolarvicidal compound gymnemagenol isolated from leaf extract of miracle fruit plant, *Gymnema sylvestre* (Retz) Schult against malaria and filariasis vectors. *Parasitol Res* 91:23-29
- Kirthi AV, Rahuman AA, **Rajakumar G**, Marimuthu S, Santhoshkumar T, Jayaseelan C, Elango G, Zahir AA, Kamaraj C, Bagavan A (2011) Biosynthesis of titanium dioxide nanoparticles using bacterium *Bacillus subtilis*. *Mat Lett* 65:2745-2747
- Ramyadevi J, Jeyasubramanian K, Marikani A, **Rajakumar G**, Rahuman AA, Santhoshkumar T, Kirthi AV, Jayaseelan C, Marimuthu S (2011) Copper nanoparticles synthesized by polyol process used to control hematophagous parasites. *Parasitol Res* 109:1403–1415
- Kirthi AV, Rahuman AA, **Rajakumar G**, Marimuthu S, Santhoshkumar T, Jayaseelan C, Velayutham K (2011) Acaricidal, pediculocidal and larvicidal activity of synthesized ZnO nanoparticles using wet chemical route against blood feeding parasites. *Parasitol Res* 109:461–472
- Jayaseelan C, Rahuman AA, **Rajakumar G**, Vishnu Kirthi A, Santhoshkumar T, Marimuthu S, Bagavan A, Kamaraj C, Zahir AA, Elango G (2011) Synthesis of pediculocidal and larvicidal silver nanoparticles by leaf extract from heartleaf moonseed plant, *Tinospora cordifolia* Miers. *Parasitol Res* 109(1):185-94
- Marimuthu S, Rahuman AA, **Rajakumar G**, Santhoshkumar T, Kirthi AV, Jayaseelan C, Bagavan A, Zahir AA, Elango G, Kamaraj C (2011) Evaluation of green synthesized silver nanoparticles against parasites. *Parasitol Res* 108 (6):1541-9
- Karthik L, Gaurav K, Rao KV, **Rajakumar G**, Rahuman AA (2011) Larvicidal, repellent, and ovicidal activity of marine actinobacteria extracts against *Culex tritaeniorhynchus* and *Culex gelidus*. *Parasitol Res* 108(6):1447-55
- Santhoshkumar T, Rahuman AA, **Rajakumar G**, Marimuthu S, Bagavan A, Jayaseelan C, Zahir AA, Elango G, Kamaraj C (2011) Synthesis of silver nanoparticles using *Nelumbo nucifera* leaf extract and its larvicidal activity against malaria and filariasis vectors. *Parasitol Res* 108(3):693-702

2010 Publication

- Kamaraj C, Rahuman AA, Bagavan A, Zahir AA, Elango G, Kandan P, **Rajakumar G**, Marimuthu S, Santhoshkumar T (2010) Larvicidal efficacy of medicinal plant extracts against *Anopheles stephensi* and *Culex quinquefasciatus* (Diptera: Culicidae) Trop Biomed 27(2): 211–219
- Elango G, Rahuman AA, Bagavan A, Kamaraj C, Zahir AA, **Rajakumar G**, Marimuthu S, Santhoshkumar T (2010) Studies on effects of indigenous plant extracts on malarial vector, *Anopheles subpictus* Grassi (Diptera: Culicidae). Trop Biomed 27(2): 143–154
- Elango G, Rahuman AA, Zahir AA, Kamaraj C, Bagavan A, **Rajakumar G**, Jayaseelan C, Marimuthu S (2010) Evaluation of repellent properties of botanical extracts against *Culex tritaeniorhynchus* Giles (Diptera: Culicidae). Parasitol Res 107:577–584
- Zahir AA, Rahuman AA, Bagavan A, Santhoshkumar T, Rafi Mohamed R, Kamaraj C, **Rajakumar G**, Elango G, Jayaseelan C, Marimuthu S (2010) Evaluation of botanical extracts against *Haemaphysalis bispinosa* Neumann and *Hippobosca maculata* Leach. Parasitol Res 107:585–592
- Kamaraj C, Rahuman AA, Bagavan A, Elango G, **Rajakumar G**, Zahir AA, Marimuthu S, Santhoshkumar T, Jayaseelan C (2010) Evaluation of medicinal plant extracts against blood-sucking parasites. Parasitol Res 106:1403–1412
- Santhoshkumar T, Marimuthu S (2010) Ovicidal and larvicidal activity of crude extracts of *Melia azedarach* against *Haemonchus contortus* (Strongylida). Parasitol Res 106:1071–1077
- Elango G, Rahuman AA, Bagavan A, Kamaraj C, Zahir AA, **Rajakumar G**, Marimuthu S, Santhoshkumar T (2010) Efficacy of botanical extracts against Japanese encephalitis vector, *Culex tritaeniorhynchus*. Parasitol Res 106:481–492
- Kamaraj C, Bagavan A, Elango G, Zahir AA, **Rajakumar G**, Marimuthu S, Santhoshkumar T, Rahuman AA (2010) Larvicidal activity of medicinal plant extracts against *Anopheles subpictus* and *Culex tritaeniorhynchus*. Indian J Med Res 134(1):101-106
- Elango G, Zahir AA, Bagavan A, Kamaraj C, **Rajakumar G**, Marimuthu S, Santhoshkumar T, Rahuman AA (2010) Efficacy of indigenous plant extracts on the malarial vector *Anopheles subpictus* Grassi (Diptera: Culicidae) Indian J Med Res 134(3):375-383
- Dhanasekaran D, Sivamani P., **Rajakumar G**, Panneerselvam A, Thajuddin N (2006) Studies On Free And Immobilised Cells Of *Bacillus* Species On The Production Of Alpha-Amylase . The Internet Journal of Microbiology. 2006 Volume 2 Number 2
- Dhanasekaran D, Dhananjayan S, Sivamani P, **Rajakumar G**, Panneerselvam A, Thajuddin N, Selvamani S (2006) Distribution of soil actinomycetes in northern region of Tamilnadu. GEOBIOS 33: 332 - 333
- Dhanasekaran D, Sivamani P, **Rajakumar G**, Panneerselvam A, Thajuddin (2005) Biological control of tomato seedling damping off with *Streptomyces* spp. Plant Pathology Journal. 4: (2), 91-95.
- Dhanasekaran D, **Rajakumar G**, Sivamani P, Selvamani S, Panneerselvam A, Thajuddin N, (2005) Screening Of Salt Pans Actinomycetes For Antibacterial Agents. The Internet Journal of Microbiology. 1(2)1- 6.

ARTICLE PUBLISHED

- Dhanasekaran D, Sivamani P, Priyadarshini J, **Rajakumar G**, Panneerselvam A, Thajuddin, N. (2005) Potency of seaweed anticoagulant. Agrobios Newsletter IV(3): 22 - 23.
- Dhanasekaran D, Vidhyalakshmi J, **Rajakumar G**, Paneerselvam A, Thajuddin N, (2004) Biodegradation of Plastic and Polymer waste. Econews 10(4) : 25.
- Dhanasekaran D. Indhumathi MA, Sivamani P, **Rajakumar G**, Paneer selvam A, Thajuddin N(2004) Neela paachipasi valarkum murai, Nillavallam. 22-24.
- Dhanasekaran D, Indhumathi, MA, **Rajakumar G**, Karunagaran K, Paneer selvam A, Thajuddin N (2005) Manisathai nilapadhum munduru uyier uram, Nillavallam. 12-13.

- Dhanasekaran D, Indhumathi, MA, Rajakumar G, Paneer selvam A, Thajuddin N (2005) Azolla uyier uram valarpu muraikal. Nillavallam. 24-25.

ADDITIONAL INFORMATION

Paper presented in the national international seminar / conference / symposium

- Participated in “CHIASMA’05’-National level symposium on Recent trends in Biosciences” conducted by Vellore Institute of Technology, Vellore.
- Paper presented in “NCIBCS- National level conference on interplay of biological and chemicals sciences by Thiruvalluvar University, Vellore.
- Participated in “ICBAT-International conference on Biodiversity and aquatic toxicology by Acharaya Nagarjuna Univeristy, Andhrapradesh.
- Participated in “Lecture workshop on – Products from Natural resources prospecting and utilization” conducted by Vellore Institute of Technology, Vellore.
- Participated in “3rd Biopesticides International Conference (BIOCICON 2011)” conducted by St. Xavier’s College (Autonomous), Palayamkottai.
- Participated in “State level seminar on; Recent trends in Chemistry” conducted by C. Abdul Hakeem College, Melvisharam.
- Poster presented in “ICONSAT-2012, International Conference on Nanoscience and Technology” conducted by Nanomission, Hyderabad.
-

Research Assistant (2004 to 2009)

- Worked as an Research Assistant in MICROLABS, Institute of Research and Technology , Arcot, Vellore District, Tamilnadu, India 632 503.
- Coordinated follow-up mailing and telephone calls to ensure retention of study participants
- Collaborated with a research team to evaluate maternal and infant home visiting services
- Conducted survey to get detailed information of students' daily routine

Book Chapter

- **Rajakumar G.**, Rahuman AA (2016) Phytosynthesis of Metal and Metal-Oxide Nanoparticles – Technological Concepts and Their Biomedical Applications. Nanoparticles in the Fight Against Parasites. Volume 8 of the series Parasitology Research Monographs pp 51-80.
- Florence J.A.K., **Rajakumar G.**, Chung I.M., Rajeshkumar B. R. Biomedical Applications of Alginate Biopolymer. In book: Industrial Applications of Marine Biopolymers, pp.453-469 DOI: 10.1201/9781315313535-22
- Rajeshwari T., Saranya M., **Rajakumar G.** , Chung IM (2017) Biological Applications of Marine Biopolymer. In book: Industrial applications of marine carbohydrates Ed. P.N. Sudha, CRC Press

HONORS AND AWARDS

- Attended the BIOVISION.Next Fellowship Programme at BIOVISION 2013 - the World Life Sciences Forum (March 24-26), after a selection based on scientific excellence, mobility, involvement in civil society. Done in Lyon, France
- Got Young Researcher award in International Conference on Nano Science and Technology (ICONSAT) - 2012, held in Hyderabad

TECHNICAL SKILLS

- Microsoft Office (PC Application, Access, Excel, Word, PowerPoint, Publisher, QuickBooks Pro, Social Media, Google Enterprise).

REFERENCES

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