



DR. K. S. RAJKUMAR

Adjunct Faculty

Contact

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Academic Qualifications

| Degree | Institution | Year | Branch | Class |
|--------|---|------|----------------------|-------------|
| Ph. D. | Bharathidasan University | 2021 | Animal Biotechnology | Awarded |
| M. Sc. | Bharathidasan University | 2013 | Animal Biotechnology | First Class |
| B. Sc. | Ayya Nadar Janaki Ammal College, M.K. University | 2011 | Biotechnology | First Class |

Teaching Experience

Total Teaching Experience 1 Years

| Position | Institution | Duration |
|--------------------|---|--------------------------|
| Teaching Assistant | Department of Biomedical Science, Alagappa University. | 18.11.2021 to 20.09.2022 |

PDF/ Visiting Professor: Abroad

| Position | Institution | Duration |
|---------------------|---|-----------------------|
| Postdoctoral Fellow | Department of Microbiology, College of Medicine, Chungnam National University, Daejeon, South Korea | 01.10.2022-30.09.2023 |

Research Experience

Total Research Experience : 1

| Position | Institution / University | Duration |
|---------------------|---|-------------|
| Postdoctoral Fellow | Department of Microbiology, College of Medicine, Chungnam National University, Daejeon, South Korea | 01.10.2022- |

Areas of Research

Nanoparticles Synthesis, Nanotoxicology, Freshwater Aquaculture, Aquatic toxicology

Research Supervision / Guidance

| Program of Study | | Completed | Ongoing |
|------------------|----|-----------|---------|
| Project | PG | 5 | 0 |

Publications

| International | | National | | Others |
|---------------|-------------|----------|-------------|---|
| Journals | Conferences | Journals | Conferences | Books / Chapters / Monographs / Manuals |
| 13 | 4 | 0 | 19 | 0 |

Cumulative Impact Factor (as per JCR) : 4.09

h-index : 10

i10 index : 10

Total Citations : 411

Distinctive Achievements / Awards

| S. No. | Name of Award/ Fellowship | Name of the Organisation | Year/ Duration |
|--------|--|--------------------------|----------------|
| 1. | University 1 st Rank Holder | Bharathidasan University | 2013 |
| 2. | Prof. M. A. Akbarsha Endowment Prize | Bharathidasan University | 2013 |
| 3. | Prof. P. Subramanian Commemoration Award | Bharathidasan University | 2103 |
| 4. | DST-INSPIRE Fellowship Award | DST-SERB India | 2014 |

Events Participated

Conferences / Seminars / Workshops: 22

List of Research Articles / Recent Publications

| S. No | Authors/Title of the paper/Journal | Impact Factor |
|-------------------------------|--|---------------|
| INTERNATIONAL JOURNALS | | |
| 1. | Krishnasamy Sekar Rajkumar , Ramkumar Arunachalam, Murugadas Anbazhagan, Sivagaami Palaniyappan, Srinivasan Veeran, Arun Sridhar, Thirumurugan Ramasamy. 2022. Accumulation, chronicity and induction of oxidative stress regulating genes through <i>Allium cepa</i> L. functionalized silver nanoparticles in freshwater common carp (<i>Cyprinus carpio</i>). Biological Trace Elements Research. https://doi.org/10.1007/s12011-022-03164-z | 3.4 |
| 2. | Arun Sridhar, Francisco A. Guardiola, Rajkumar Krishnasamy Sekar , Sathiya Deepika Murugesan, Sivagaami Palaniyappan, Dinesh Babu Manikandan, Manikandan Arumugam, Thirumurugan Ramasamy. 2022. Comparative assessment of organic solvent extraction on non-specific immune defences of skin mucus from freshwater fish. Aquaculture International. https://doi.org/10.1007/s10499-022-00847-1 | 2.2 |
| 3. | Krishnasamy Sekar Rajkumar , Palaniyappan Sivagaami, Arunachalam Ramkumar, Anbazhagan Murugadas, Veeran Srinivasan, Sridhar Arun, Ponnusamy Senthil Kumar, Ramasamy Thirumurugan. 2022. Bio-functionalized zinc oxide nanoparticles: Potential toxicity impact on freshwater fish <i>Cyprinus carpio</i> . Chemosphere. 290: 133220. https://doi.org/10.1016/j.chemosphere.2021.133220 | 8.1 |
| 4. | Arun Sridhar, Dinesh Babu Manikandan, Sivagaami Palaniyappan, Rajkumar Krishnasamy Sekar , Thirumurugan Ramasamy. 2021. Correlation between three freshwater fish skin mucus antiproliferative effect and its elemental composition role in bacterial growth. Turkish Journal of Fisheries and Aquatic Sciences. 21: 233-244. http://doi.org/10.4194/1303-2712-v21_5_03 | 1.5 |
| 5. | Thirumurugan Ramasamy, Srinivasan Veeran, Arun Sridhar, Rajkumar Krishnasamy Sekar , Dinesh Babu Manikandan, Manikandan Arumugam, Subramanian Periasamy. 2021. Effect of graded levels of mineral mixtures (Aquamin® and Agrimin®) supplemented diets on growth, survival, proximate composition and carcass mineralization of juvenile freshwater prawn, <i>Macrobrachium malcolmsonii</i> (H Milne-Edwards 1844). 53: 119. Tropical Animal Health and Production. https://doi.org/10.1007/s11250-021-02558- | 1.7 |
| 6. | Dinesh Babu Manikandan, Arun Sridhar, Rajkumar Krishnasamy Sekar , Balaji Perumalsamy, Srinivasan Veeran, Manikandan Arumugam, Parthiban Karuppaiah, Thirumurugan Ramasamy. 2021. Green fabrication, characterization of AgNPs using aqueous leaf extract of <i>Ocimum americanum</i> (Hoary Basil) and investigation of its <i>in vitro</i> antibacterial, antioxidant, anticancer and photocatalytic reduction. Journal of | 7.4 |

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|-----|---|------|
| | Environmental Chemical Engineering. 9: 104845. https://doi.org/10.1016/j.jece.2020.104845 | |
| 7. | Manikandan, D.B., Arumugam, M., Veeran, S., Sridhar, A., Krishnasamy Sekar, R. , Perumalsamy, B., Ramasamy, T. 2121. Biofabrication of eco-friendly copper oxide nanoparticles using <i>Ocimum americanum</i> aqueous leaf extract: Analysis of <i>in vitro</i> antibacterial, anticancer and photocatalytic activities. Environmental Science and Pollution Research. 28: 33927-33941. https://doi.org/10.1007/s11356-020-12108-w | 5.1 |
| 8. | Arun Sridhar, Rajkumar Krishnasamy Sekar , Dinesh Babu Manikandan, Manikandan Arumugam, Srinivasan Veeran, Thirumurugan Ramasamy. 2021. Activity profile of innate immune-related enzymes and bactericidal of freshwater fish epidermal mucus extract at different pH. Environmental Science and Pollution Research. 28: 33914-33926. https://doi.org/10.1007/s11356-020-11173-5 | 5.1 |
| 9. | Rajkumar Krishnasamy Sekar , Arun Sridhar, Balaji Perumalsamy, Dinesh Babu Manikandan, Thirumurugan Ramasamy. 2020. <i>In vitro</i> antioxidant, antipathogenicity and cytotoxicity effect of silver nanoparticles fabricated by onion (<i>Allium cepa</i> L.) Peel Extract. BioNanoScience. 10: 235–248. https://doi.org/10.1007/s12668-019-00691-3 | 3.0 |
| 10. | Krishnasamy Sekar Rajkumar , Sridhar Arun, Manikandan Dinesh Babu, Perumalsamy Balaji, Srinivasan Sivasubramanian, Venkatasamy Vignesh, Ramasamy Thirumurugan. 2019. Facile biofabrication, characterization, evaluation of photocatalytic, antipathogenic activity and <i>in vitro</i> cytotoxicity of zinc oxide nanoparticles. Biocatalysis and Agricultural Biotechnology. 22: 101436. https://doi.org/10.1016/j.bcab.2019.101436 | 3.4 |
| 11. | R. Thirumurugan, S. Arun, K. S. Rajkumar , M. Sathya Deepika. 2017. Analysis of biochemical and nutritional constituents of different size groups of <i>Macrobrachium malcolmsonii</i> (Milne-Edwards, 1844) (Decapoda: Palaemonidae) for the identification of its nutritional requirements. Brazilian Journal of Biological Sciences. 4: 307-316. https://dx.doi.org/10.21472/bjbs.040809 | 0 |
| 12. | G. Kuppurangan, K. Balaji, N. Kanipandian, K. S. Rajkumar , V. Nilmini, R. Thirumurugan. 2016. Biogenic synthesis and spectroscopic characterization of silver nanoparticles using leaf extract of <i>Indonesiella echioides</i> : <i>In vitro</i> assessment on antioxidant, antimicrobial and cytotoxicity potential. Applied Nanoscience. 6: 973–982. https://doi.org/10.1007/s13204-015-0514-7 | 4.11 |
| 13. | K. S. Rajkumar , N. Kanipandian, R. Thirumurugan. 2016. Toxicity assessment on haematology, biochemical and histopathological alterations of silver nanoparticles-exposed freshwater fish <i>Labeo rohita</i> . Applied Nanoscience. 6: 19–29. https://doi.org/10.1007/s13204-015-0417-7 | 4.11 |