

|                             |   |
|-----------------------------|---|
| Personal Details            | GURUSWAMY PRABHAKARAN   |
| Academic Qualifications     | <p><b>BSc</b> ( Zoology), Madras University, India</p> <p><b>MSc</b> (Environmental Biology), Tamil Nadu Agricultural University, India</p> <p><b>MBA</b> (International Business Management) ANNA University, India</p> <p><b>PhD</b> (Biotechnology) AIMST University, Malaysia</p>   |
| Administrative Duties       | Institutional Biosafety Committee, Library Committee and Curriculum Development   |
| Publications (last 5 years) | <ol style="list-style-type: none"> <li>1) Xian, T.H., Sinniah, K., Yean, C.Y. et al. Immunogenicity and protective efficacy of a live, oral cholera vaccine formulation stored outside-the-cold-chain for 140 days. BMC Immunol 21, 29 (2020).</li> <li>2) Xian, T.H., Parasuraman, S., Sinniah, K., Ravichandran, M., Prabhakaran, G., 2019. Repeated dose toxicity evaluation of a cold chain-free, live, attenuated oral cholera vaccine in Sprague Dawley rats. Vaccine 37, 711–720.</li> <li>3) Prabhakaran, G., Bhore S. J., and Ravichandran, M., (2019), Development of a Bait Carrier Material for Apple Snail (<i>Pomacea maculata</i>) Based on Its Feed Preferences Using Snail Attractant Tracking Device, J Nat Sci Biol Med., 10:8-15.</li> <li>4) Prabhakaran, G., Bhore, S.J. and Ravichandran, M., 2017. Development and Evaluation of Poly Herbal Molluscicidal Extracts for Control of Apple Snail (<i>Pomacea maculata</i>). Agriculture, 7(3), p.22.</li> <li>5) Deivanai S., Bindusara A.S., Prabhakaran G. and Bhore S.J., (2014), Culturable bacterial endophytes isolated from Mangrove tree (<i>Rhizophora apiculata</i> Blume) enhance seedling growth in Rice. J Nat Sc Biol Med., 5:437-444.</li> </ol> |
| On-going Research           | <p>As Principal Investigator:</p> <ol style="list-style-type: none"> <li>1) <b>PRGS</b> Grant for the value of RM 479,000 from Minister of Higher Education (MoHE), Malaysia to research on “ICH GLP-Compliant Pre-Clinical Safety Studies to Support the Licensure of Prototype Cholera Vaccine for Clinical Development” in the year 2019.</li> <li>2) <b>FRGS</b> Grant for the value of RM 185200 from (MoHE), Malaysia to research on “Evaluation of Prototype Cold Chain Free Live Attenuated Oral Cholera Vaccine for its Cross-Protective Immunity against Enterotoxigenic Escherichia Coli (ETEC) as a Dual-Use Vaccine for Diarrheal disease” in the year 2018.</li> </ol>  |
| Completed Research          | <p>As Principal Investigator:</p> <ol style="list-style-type: none"> <li>1) <b>PRGS</b> Grant for the value of RM 250,000 from (MoHE), Malaysia to research on “Development of Cold Chain free live attenuated Cholera Vaccine formulation” in the year 2015.</li> </ol>  |

|                         |  |
|-------------------------|--|
|                         | <p>2) <b>FRGS</b> Grant for the value of RM 99,000 from (MoHE), Malaysia to research on “Microbial Butter Flavour production” in the year 2014.</p> <p>As Co-Investigator :</p> <p>3) <b>FRGS</b> Grant for the value of RM 130,000 from Minister of Higher Education, Malaysia to research on “Cinnamaldehyde Production from Hairy Root Culture” in the year 2013.</p>   |
| Consultancy             | Nil  |
| Awards                  | <p><b>National AWARDS :</b></p> <ol style="list-style-type: none"> <li>1) <b>1st Place Winner</b> of Falling Walls Lab AIMST and represented for Malaysia in the Grand Falling Walls Lab Finale at Berlin on 8th Nov'18.</li> <li>2) Won the “<b>Gold Medal</b>” in PECIPTA 2019 for the project entitled “Prototype Thermostable, Live Cholera Vaccine for the Last Mile-The Last Child” on 22- 23, September 2019.</li> <li>3) Secured “<b>Gold Medal</b>” for development cold-chain free, live cholera vaccine at International Invention Competition (ITEX 2019), Malaysia on 4th May'19.</li> <li>4) Recipient of “<b>Silver Medal</b>” for the project on “Biotechnological Process development for Production of Natural Butter Flavours” at 14th International Conference and Exposition on Inventions by Institutions of Higher Learning (PECIPTA 2015).</li> </ol> <p><b>International Award :</b></p> <ol style="list-style-type: none"> <li>5) Won the “<b>Gold Medal</b>” in AsianInvent Singapore (AiSG) 2020, for the project entitled “Prototype Thermostable, Live Cholera Vaccine for the Last Mile- the Last Child” on 14 May 2020.</li> </ol> |
| Professional Membership | Industry Centre of Excellence ( ICoE), Universiti Malaysia Pahang.   |
| Supervision             | <ol style="list-style-type: none"> <li>I. Main Supervisor – 3 (MSc)</li> <li>II. Main Supervisor - 1 PhD ongoing</li> </ol>  |
| Teaching                | <p>6 Courses ( 5 core subjects + 1 elective):</p> <ol style="list-style-type: none"> <li>1. Microbiology</li> <li>2. Bioprocess Technology</li> <li>3. Bioethics, Biosafety and Bioregulations</li> <li>4. Bioinstrumentation</li> <li>5. Business Management</li> <li>6. Metabolomics</li> </ol>  |
| Areas of Expertise      | <ol style="list-style-type: none"> <li>a) Cholera Vaccine, Veterinary Drug Formulations, Industrial Enzymes, Botanical APIs, Nutraceuticals and Plant Tissue Culture.</li> </ol>   |

|                 |  |
|-----------------|--|
|                 | b) Developmental Research and Innovation, New Business and Product Development, Technology Validation and Commercialization, Full Life Cycle Project Management, Technology Readiness Levels (TRLs) and Regulatory Compliance for GLP & GMP. |
| Contact Details | <a href="mailto:prabhakaran@aimst.edu.my">prabhakaran@aimst.edu.my</a> ; <a href="mailto:guruswamy.prabhakaran@gmail.com">guruswamy.prabhakaran@gmail.com</a><br>+604-4298000 Ext: 8164  |