



RAGUL. K

Present Address:

NO-8, Nathamedu street,
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Permanent Address:

NO-8, Nathamedu street,
Uruvaiyar,
Mangalam(post),
Pondicherry-605 110.

Personal Profile:

Father's name: Mr. P. KESSAVANE.
Date of birth : 22nd, sep 1987.
Gender : Male.
Nationality : Indian.

CURRICULAM VITAE

Objective:

To explore my research knowledge and to build my career in a progressive research institute that offers opportunities to utilize my analytical skills and creativity to perform research work in the field of biological sciences.

PROFESSIONAL EXPERIENCE:

- **Executive Scientist**, Allianz biosciences PVT Ltd, Puducherry, India. September 2019 – Present (**2year - 04 month**).

Nature of work:

- ❖ Development of probiotic (Spore formers, lactic acid bacteria, Bifidobacterium & yeast) product for Human, Animal & Aquatic consumption.
 - ❖ Primers design and nucleic acid sequence analysis, for identification of bacteria and development of Molecular biological techniques (qPCR) for the detection and quantification of pathogens in probiotic finished products.
 - ❖ Development of Molecular biological techniques (qPCR) for the quantification of probiotic bacteria in dietary supplement, food products.
 - ❖ Development of oral probiotic suspension (bacterial spore) for human consumption from R&D to production.
 - ❖ Solid state fermentation for microbial product and formulation.
 - ❖ Scale up of microbial Fermentation, Cell separation, distribution and isolation process techniques Batch and continues Centrifuge.
- **Production Executive** in Tropical biosciences PVT Ltd Coimbatore November 2018 to September 2019 (**11 months**).

Nature of work:

- ❖ Screening of bacterial isolates for production and formulation of probiotic from lab to commercial level for replacing antibiotics in poultry industry.
- ❖ Scale up of microbial Fermentation, Cell separation, distribution and isolation process techniques Batch and continues Centrifuge, Tangential Flow Filtration system (Microfiltration, ultra filtration & dia-filtration).

Languages known

Tamil and English
(read, write and speak)

Institutional address

Department of Food science & technology,
Pondicherry University,
Pondicherry -605 014,
Pondicherry, India.

Passport Details:

Passport No :S4009096
Passport Issue place :Chennai
Passport Expiry :20/08/2028

Laboratory Skills:

- ❖ **Animal Cell Culture:** Handling and maintenance of animal cell lines, study parameters for optimization of cell growth.
- ❖ **Molecular biology techniques:** DNA & RNA extraction from bacteria as well as cell lines, extraction of Metagenomic DNA, primer designing and amplification of DNA fragments using PCR.
- ❖ **Microbial techniques:** Isolation and characterization of microbes from various environment and food samples.
- ❖ **Biochemical techniques:** Enzyme assays, Protein & Antioxidant assays.
- ❖ **Equipment & instrument's handling:** pH meter, Weighing balance, Elisa reader, Quantitative PCR (qPCR), Electrophoresis, 2D gel electrophoresis, FTIR, Fluorescence Microscope, Pilot & Production scale fermenter, Incubator Shaker, Biosafety cabinet, Homogenizer, Continues centrifuge and CIP – Station.

Publication: Sequence Submission To NCBI Record:

- ❖ Bacterial strains isolated from Fermented Mango Pickle [10 16SrRNA sequences, Ragul, K., Sundar, K. and Shetty, P.H.] **GenBank_Accn. No: KT921419 – KT921426, KU748633, KU748634.**
- ❖ Potential mosquitocidal bacteria isolated from Bird's Excreta [19 16SrRNA sequences, Poopathi,S., Thirugnanasambantham,K., Ragul,K., Ahangar,N.A. and Mani,C.] **GenBank_Accn. No: JN377788 – JN377793, JQ289046 – JQ289052, JQ685224 – JQ685228, JQ685233.**

Publication: Research Article:

- ❖ Shivangi, S., Devi, P. B., **Ragul, K.,** & Shetty, P. H. (2020). Probiotic Potential of Bacillus Strains Isolated from an Acidic Fermented Food Idli. **Probiotics and Antimicrobial Proteins**, 1-12. **Impact Factor = 3.533.**
- ❖ **Ragul, K.,** Sujatha, K., Devi, P.B., & Shetty, P. H. (2020). Evaluation of functional properties of potential probiotic isolates from fermented brine pickle. **Food Chemistry**, **Impact Factor = 6.306.**
- ❖ **Ragul, K.,** Sujatha, K., Devi, P.B., & Shetty, P. H. (2019). Safety and Stability Assessment of Potential Probiotic Strains from Fermented Mango Brine Pickle. **Probiotics and Antimicrobial Proteins**, **Impact Factor = 3.533.**

- ❖ **Ragul, K.**, Syiem, I., Sundar, K., & Shetty, P. H. (2017). Characterization of probiotic potential of *Bacillus* species isolated from a traditional brine pickle. **Journal of food science and technology**, 54(13), 4473-4483. **Impact Factor = 1.946.**
- ❖ Hanieh, H., Islam, V. I. H., Saravanan, S., Chellappandian, M., **Ragul, K.**, Durga A, Venugopal K, Senthilkumar V, Senthilkumar P, & Thirugnanasambantham, K. (2017). Pinocembrin, a novel histidine decarboxylase inhibitor with anti-allergic potential in in vitro. **European journal of pharmacology**, 814, 178-186. **Impact Factor = 3.263.**
- ❖ **Ragul, K.**, Sundar, K., & Shetty, P. H. (2016). Isolation of histamine forming bacteria and quantification of histamine from fermented mango pickle. **Journal of Pure and Applied Microbiology**, 10(4), 2843-2849.
- ❖ Poopathi, S., De Britto, R. L. J., Thirugnanasambantham, K., **Ragul, K.**, Mani, C., & Balagangadharan, K. (2015). An investigation on the diversity of mosquitocidal bacteria and its relationship with incidence of vector borne diseases. **Tropical Biomedicine**, 32(1), 84-97. **Impact Factor = 0.393.**
- ❖ Poopathi S., Thiugnanasambantham K, Mani, C., & **Ragul, K.** (2014). Purification and characterization of keratinase from feather degrading bacterium useful for mosquito control-A new report. **Tropical Biomedicine** 31(1): 97–109. **Impact Factor = 0.509.**
- ❖ Poopathi, S., Thirugnanasambantham, K., Mani, C., **Ragul, K.**, & Sundarapandian, S. M. (2014). Isolation of mosquitocidal bacteria (*Bacillus thuringiensis*, *B. sphaericus* and *B. cereus*) from excreta of arid birds. **Indian Journal of Experimental Biology** 52(7): 739-747. **Impact Factor = 1.050.**
- ❖ Jasmine, R., Venkadesan B., & **Ragul, K.** (2012). Identification and characterization of heavy metal-resistant *Pseudomonas aeruginosa* and its potential for bioremediation. **American Journal of Pharmtech Research**. Res. 2012; 2(4) ISSN: 2249-3387.

ACADEMIC QUALIFICATIONS:

- ❖ **Doctor of Philosophy in Biotechnology**, (Food Science and Technology) (2018) Department of Food Science and Technology, Pondicherry University, Puducherry.
- ❖ **Master of Science in Biotechnology** (2011) First class (7.72 (CGPA)) Bishop Heber College, Tiruchirappalli, Affiliated to Bharathidasan University, Tiruchirappalli.

- ❖ **Diploma In Bioinformatics** (2010) First class (8.27 (CGPA)) Bishop Heber College, Tiruchirappalli, Affiliated to Bharathidasan University, Tiruchirappalli.
- ❖ **Bachelor of Science in Biotechnology** (2008) First Class (64.86%) Achariya Arts and Science College, Puducherry, Affiliated to Pondicherry University.
- ❖ **Higher School Certificate (HSC)** (2005) Second Class (57.41%) State Board - **Govt. Higher Sec, school**, Indira nagar, Pondicherry.
- ❖ **Secondary School Leaving Certificate (SSLC)** (2003) First Class with Distinction (86.8%) State Board - **Our Lady of Lourdes Boys High School**, Villianur, Pondicherry.

Referees:

Dr. Prathap Kumar H Shetty Ph.D.,
Professor and Head,
Department of Food science & Technology,
Pondicherry University,
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Dr. S. Poopathi Ph.D.,
Scientist "F"
Deputy Director (Senior Grade),
Division of Microbiology and Immunology,
Vector Control Research Centre,
Indian Council of Medical Research,
Pondicherry-605 006.
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Dr. K. Thirugnanasambantham Ph.D.,
Research Director
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DECLARATION:

I hereby declare that the above-mentioned information is correct up to my knowledge and I bear the responsibility for the correctness of the above-mentioned particulars.

Place : Pondicherry.

Yours Sincerely,

Date : 22/02/2022



RAGUL, K.