

KARTHIKEYAN M

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AREAS OF INTEREST

Stem cell therapy, Fermentation Technology, Environmental biotechnology, Transgenics, r-DNA technology, Culturing, Purification, Protocol designing and waste water management

EDUCATIONAL QUALIFICATIONS

- Master of Technology in Biotechnology from VIT University, Vellore (2012)
- Post Graduate Diploma in Stem Cell Therapeutics from Loyola College, Chennai (2010).
- Bachelor of Engineering in Biotechnology from Vinayaka Mission's University (2009).
- 12th from D.A.V. Public Sr. Secondary School, Uttar Pradesh, India with 73.8% (2004).
- 10th from D.A.V. Public Sr. Secondary School, Uttar Pradesh, India with 83.6% (2002).
- GRE Scores : 143 Verbal and 144 Quantitative (Feb 2014)

PROJECTS DONE & HANDS ON

- "Isolation and characterization of microorganisms from ground water samples affected by the Bhopal gas tragedy" at VIT University, Vellore.
- "Optimized production of cellulase by *Bacillus brevis*, using various carbon sources" in 'Sangenomics research labs pvt. Ltd.,' Bangalore.
- "Isolation, culturing and characterization of adipose derived stem cells at different passages." in Lifeline Institute of Regenerative Medicine, Lifeline Hospitals, Chennai.
- "A comparative study of various antibiotics before and after expiry" at VIT University.
- "Protein level study of *E.coli* treated with different concentration of antibiotics." at VIT University.
- 6 months in-plant training on Stem cell cultures in 'Lifeline hospitals', Chennai (2009-10).
- Training in Clinical Laboratory techniques from 'Vijaya Clinical Laboratory and Biopsy Centre' Madurai (2007).

EXPERIENCE

Managing partner at Innovide Inc., (2012-2014)

A firm established to promote Research and Training in corporate and academic institutes in India.

Roles and Responsibilities:

- Recognize key strategic issues and assess the value of strategy options.
- Analyze industry structure and identify sources of competitive advantage
- Modeling uncertain, competitive environments.
- Develop systems and blueprints to coordinate activities across business units and functions.
- Analyze strategies that coordinate the sharing of resources and the transfer of knowledge.
- Integrate creativity into strategy formulation and execution.
- Draw links between strategy formulation and implementation.

CO-CURRICULAR ACHIEVEMENTS

- 1 International publication and 7 conference publications.
- Published a paper titled “Molecular level study to understand the difference in response of Escherichia coli against expired /non-expired drugs.” in The Journal of Pharmacy Research Vol.4. Issue11. November 2011 (4157-4160).
- Presented paper on “Protein level study of E.coli treated with different concentration of antibiotics.” in The 2nd International Conference on Science, Engineering and Technology (2011), VIT University.
- Presented paper on “A comparative study on various antibiotics before and after expiry” in The 1st International Conference on Science, Engineering and Technology (2010), VIT University.
- Presented paper on ‘Fly ash based low cost method of COD reduction from distillery waste water’ in the 8th National Level Biological Congress sponsored by CSIR, NABARD, TNSCST and NCSTC (2009).
- Presented paper on “Optimized production of cellulase by Bacillus brevis using various carbon sources” (2009).
- Presented paper on “Biosorption of copper from contaminated water using Hydrilla” in the National Conference on Biological Treatment and Water Recycling.’ (2008)
- Presented paper on “Drug Membrane Interactions and Pharmacokinetics” (2008).

EXTRA-CURRICULAR ACHIEVEMENTS

- Conducted workshop on Neuro-Linguistic Programming at SRM University, Chennai, India (2013)
- President, LEO club of VMKV (sub. - Lions Club International) (2007-09).
- Participated in coastal cleaning program organized by UNEP, Chennai (2009)
- Organized blood donation camps and free eye check-up camps (2007-09).

PERSONAL PROFILE

First Name : Karthikeyan Last Name: Mani
Father's Name : Mani K
Mother's Name : Malarvizhi M
Date of Birth : 22nd July 1986 Age: 28 years Sex: Male
Nationality : Indian
Language Known : English, Hindi, Tamil, Bengali and German (beginner's level).

REFERENCES

- 1) Dr. T B Sridharan
Professor,
Division of Industrial Biotechnology,
School of Biosciences and Technology,
VIT University, Vellore, India
Email: tbsridharan@vit.ac.in
- 2) Dr. Immanuel Selveraj
Senior Assistant Professor,
Division of Plant Biotechnology,
School of Biosciences and Technology,
VIT University, Vellore, India
Email: immanuelselveraj@vit.ac.in

SUPPORTING STATEMENT

I am Karthikeyan Mani and I hold a Master degree in Biotechnology (M Tech) from VIT University, Vellore, Tamil Nadu, India. As a part of my academic curriculum I have undergone various practical and theoretical training in the field of life sciences. I had successfully designed and executed a project for a period of 9 months entitled “Isolation and characterization of micro-organisms from the ground water samples of the Bhopal Gas tragedy” in which an in-vitro study was done by isolating micro-organisms through culturing methods and conducted electrophoresis and PCR methods to finally analyze by gene identification of the microbial samples. It was a challenging project and was highly appreciated by the scientific community as a viable solution for drinking water problems in Bhopal whose ground water is still contaminated because of one of the greatest chemical disaster in history.

I also specialize in Stem cells as I hold a Post Graduate Diploma in Stem Cell Therapeutics from one of the premier colleges in India, Loyola College, Chennai. Here I had been a part of a collaborative research team from Lifeline Institute of Regenerative Medicine, where I have been trained with Stem cell techniques starting from isolation from various sources (Adipose tissue, Wharton Jelly, Bone marrow), culturing, passages, differentiation and characterization at different passage levels using FACS.

I also have an International journal publication and 7 conference publication. As I strongly believe in sharing the know-how of a subject through seminars and conferences. I have headed a team of 10 members for a period of 1 year on the study of the effects of various drugs before and after expiry. I like to be a team player where, I can learn and also grow equally with others. I strongly believe that research has no negative or positive result, every result is an outcome and a finding of how not to and how to achieve a certain goal. My interest in research could be stated as my curiosity to learn and my thirst for knowledge is never ending. In order to understand a certain aspect, I would also enroll for courses to understand a concept. Similarly, I have acquired a certificate of training on clinical lab technology which has been a value add in my other ventures.