



SHRI AMM MURUGAPPA CHETTIAR RESEARCH CENTRE

(Established in the year 1977)

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MCRC

Dr. S. Seshadri
Director

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I have great pleasure in writing a few words about M. Sivakumar. Mr. Sivakumar joined MCRC during 2009 after completing his B.Tech from SRM Engineering College, Kattankulathur with distinction. Science was always a great motivator for him and this was apparent in the successful results we achieved in the research project in which he was recruited. He worked in a project entitled "CO₂ Sequestration Using Microalgae – Efficient Use of CO₂ from A Bio-Hydrogen Production Facility" from February 2009 to September 2011 and has contributed enormously to the project to achieve the desired results. He played a significant role in establishing the cultures of *Chlorella* sp., *Spirulina* sp., and *Scenedesmus* sp. and evaluate them for growth under the influence of CO₂. The work carried out at the laboratory scale was later scaled up to 10m³ level in an industrial premises to show case the technology of CO₂ sequestration using microalgae.

Based on his request to pursue higher studies during his tenure at MCRC, he was encouraged enroll himself for M. Tech programme in Biotechnology at Satyabama University, Chennai.

Though he was working and contribution to the microalgal project with us, he was always passionate towards cell and cancer biology and this led him to take up studies on insulin resistance at Madras Diabetes Research Foundation (MDRF) for his M. Tech project. He had to quit the position with us to join Dr. Balasubramanyam, Dean of Research, MDRF to work on insulin resistance. There he demonstrated hepatic ER stress as the underlying mechanism of insulin resistance in rats fed with high fat diets. With interesting observations, he is further interested to continue to work on research areas related to his interests and to the above work.

He is a calm and intelligent worker, good thinker and very neat in his presentations. He prefers to work in groups and exerts better than the peers and was always admired by his seniors and peers. He is very persevering, patient, systematic and innovative while working in the Lab and while discussing the subject. His clarity of thoughts stems from his ability to understand the fundamentals well.

With his abilities to work with people, evidenced by his association with us and other R & D laboratories, I have no hesitation to add that he can very well coexist with any community in any environment. I strongly recommend his candidature to any position he is applying and I assure that both Mr. Sivakumar and the Institution will benefit mutually out of the association.

I would be happy to share any further information to support his application in future too.

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