

Balachandar Selvakumar

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**Education:**

- **2011-15, PhD (*Magna cum laude*)** in the Faculties of Medicine and Veterinary Medicine of the Justus-Liebig University Giessen, Germany. *Graduated in Molecular Biology and Medicine of Lung (MBML) within the Giessen Graduate School of Life Sciences (GGL)
- **2007–09, M.Sc. Biochemistry** (Distinction), Bharathidasan University, India
- **2004 –07, B.Sc. Biochemistry** (First Class), Thiruvalluvar University, India.

Research Positions

- Jan-2016 to Sept-2020: **Junior scientist** working on the main project entitled “*The role of macrophage and their functional phenotypes in Influenza A virus induced lung injury mouse model*” and the other side projects at Max-Planck Institute for heart and lung research, Bad Nauheim and at Instituto de Investigaciones Biomedicina de Buenos Aires– A partner Institute of the Society of Max Planck (IBioBA-MPSP).
- Aug-2011 to Dec- 2015: **PhD scholar** worked on the project entitled “*Molecular pathways of macrophage polarization in the lung*” at Justus Liebig University Giessen. Thesis titled “*Functional phenotypes of macrophages and their role in influenza*”. Date of the thesis Defence: 11.May 2016.
- March- 2011 to Aug-2011: **Junior research trainee** on the project entitled “*The effect of angiotensin-(1-7) on wound healing after cardiac ischemia under diabetic conditions: the importance of bone marrow progenitor cells*” at Excellence Cluster Cardio-Pulmonary system (ECCPS), Giessen, Germany.
- Oct- 2009 to Oct- 2010: **Junior research fellow** at University Grants Commission (UGC) projects entitled “*Immunopathogenesis of Cerebral Malaria*” at Dr. B. R. Ambedkar Center for Biomedical Research (ACBR) - University of Delhi, India.

Experience:

In the previous positions, I have established successfully a partner lab of Max-Planck heart and lung research laboratory at IBioBA-MPSP. This position helped to gain multi-tasking, administration, lab management, animal breeding management, obtaining animal proposals and other necessary requirements for the establishment and fully functioning of a research laboratory, including

- Experimental animal (mouse) breeding and colony management
- Acute lung injury and IBD model (LPS, Virus and Bacteria)
 - Intra-tracheal administration of cells (Cell Therapy), compounds and rProteins
 - Multicolour Flow cytometry measurements and analysis upto 16-fluorophores
- Cell sorting- including distinct rare cell populations in the murine lung and Intestine
- Alveolar epithelial cell, intestinal lamina propria, spleen and lymphatic organs T cell isolations
- Bronchial Alveolar Lavage (BAL) Collection (Mouse)
- Immunohistological studies- Microscopic investigation (Light & Fluorescence)
- Immunological techniques – ELISA
- Real Time-Polymerase Chain Reaction (RT-PCR)
- Other Microbial culture Techniques
- Electrophoresis techniques-SDSPAGE, agarose gel electrophoresis
- Blotting techniques- Western blot analysis
- Bioinformatics and statistical tools (BLAST, FlowJo, DIVA, GraphPad prism, etc)

Additional Qualifications

Project Management Basic course, IBMI, Berlin, Germany.

Advanced training in Fluorescence-activated cell sorting, BD, Brussels, Belgium.

Training in “Scientific animal procedures” (FELASA), London, U.K.

Advance training course in PATENTS, IPO Lucknow, India.

Diploma in “Medical Lab Technician” (DMLT), Cuddalore, India.

Biostatistics as vocational course, Trichy, India.

References:

Prof.Dr. med. Werner Seeger

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Declaration

Hereby, I declare all the above-mentioned details are to true to the best of my knowledge.

Place: Date:	
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*Peer reviewed international Journal Publications list could be provided, if required.