

Mamata Savanagouder

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Education

Ph.D, Molecular Virology Oct 2018 - present

Institute of Animal Reproduction and Food Sciences, Polish Academy of Sciences, Olsztyn, Poland

Master of Science, Medical Microbiology Sep 2011 - Jun 2014

Pondicherry Institute of Medical Sciences (PIMS), Puducherry, India

Bachelor of Science, Microbiology Aug 2007 – Feb 2011

Vellore Institute of Technology, Tamil Nadu, India

Research Experience

Doctoral Fellow Oct 2018 – present

Mentor: Dr. Magdalena Weidner-Glunde, Institute of Animal Reproduction and Food Sciences, Polish Academy of Sciences, Olsztyn, Poland

Project title: Investigating the molecular mechanisms of HCMV latency establishment with a focus on IE1x4

Project Junior Research Fellow Aug 2015 – Aug 2018

Mentor: Dr. Raghunand Tirumalai, Centre for Cellular and Molecular Biology, Hyderabad, India

Projects involved in:

1. Understanding the physiological role of the Rv3738c (PPE66)–Rv3739c (PPE67) gene pair in *Mycobacterium tuberculosis* pathogenesis
2. Investigating the Ca²⁺ dependent role of *Mycobacterium tuberculosis* PE_PGRS61 (Rv3653) in macrophage entry
3. Characterizing the Ca²⁺ binding properties of DesA1, a βγ- crystallin in *Mycobacterium tuberculosis*
4. Functional characterization of the desaturase and βγ- crystallin domains of DesA1 in *Mycobacterium tuberculosis*

M. Sc Project Sep 2012 - Jun 2014

Mentor: Dr. Reba Kanungo, Department of Clinical Microbiology, PIMS, India

Project title: Prevalence of *Haemophilus influenzae* colonizing the upper respiratory tract of healthy school children.

The objective of this study was to determine the prevalence and antibiotic resistance pattern of *Haemophilus influenzae* (*H. influenzae*) among 500 healthy children from 4 local schools in and around Kalapet, Puducherry, India. *H. influenzae* were identified by their requirement for X & V factors; antibiotic susceptibility was assessed using the Kirby Bauer disk diffusion method. The study provided important data on the presence of *H. influenzae* carriage among a test population of unvaccinated healthy children. Monitoring the carriage of this pathogen across ages offers an early warning system for public health professionals interested in resurgence of invasive disease.

Editing Experience

Freelance Scientific Editor, Cactus Communications, March 2018 – July 2018

Extensive editing of academic articles for journal submission in the fields of biochemistry, molecular biology and genetics.

Freelance Editor, Jobs for Editors, Oct 2020 - April 2020

Extensive editing of academic articles written by non-native English speakers for university assignments and journal submissions.

Publications

Weidner-Glunde, M.; Kruminis-Kaszkiel, E.; Savanagouder, M. Herpesviral Latency—Common Themes. *Pathogens* 2020, 9, 125. <https://doi.org/10.3390/pathogens9020125>

V. C. Yeruva, **M. Savanagouder**, R. Khandelwal, A. Kulkarni, Y. Sharma, and T. R. Raghunand (2016) The *Mycobacterium tuberculosis* desaturase DesA1 (Rv0824c) is a Ca²⁺-binding protein. *Biochem Biophysics Res Commun* <http://dx.doi.org/10.1016/j.bbrc.2016.10.014>

Abstract (presenting author underlined)

R. Kanungo, **M. Savanagouder**. Antibiotic resistant non-capsulated *Haemophilus influenzae* among throat colonizers: a possible reservoir for invasive infections. The Interscience Conference on Antimicrobial Agents and Chemotherapy [Internet]. 2014; POC-009

Presentations (Presenting author underlined)

V. C. Yeruva, **M. Savanagouder**, R. Khandelwal, A. Kulkarni, Y. Sharma, and T. R. Raghunand (2016) The *Mycobacterium tuberculosis* desaturase DesA1 (Rv0824c) is a Ca²⁺-binding protein. **Poster Presentation** at the 85th Annual Meeting of the Society of Biological Chemists (India), CSIR - Central Food Technology Research Institute, Mysore, India

Savanagouder M, Joseph NM, Kanungo R. (2013) Prevalence of *Haemophilus influenzae* colonizing the upper respiratory tract of healthy school children. **Platform Presentation** at the *Scientific Society of Pondicherry Institute of Medical Sciences*, Puducherry, India

Savanagouder M, Joseph NM, Kanungo R. (2013) Prevalence of *Haemophilus influenzae* colonizing the upper respiratory tract of healthy school children. **Poster Presentation** at the *XXXVII National Conference of Indian Association of Medical Microbiologists*, Hyderabad, India

Savanagouder M, Paul E, Kanungo R. (2013) A case report: UTI caused by *Aeromonas sobria* bv *sobria*. **Poster Presentation** at the *State level conference on Current updates in Microbiology*, Chennai, India

References

Dr. Magdalena Weidner-Glunde

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