

Mahesh Kondapuram

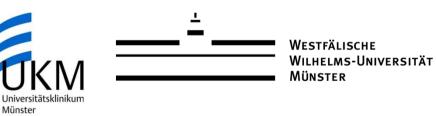
ESR-7, EUTRAIN

Project: In vivo imaging of disease activity in Immune mediated diseases

European Institute for Molecular Imaging, And Institute of Immunology,

University of Münster





Personal Introduction



B. Tech. in Biotechnology from JNT University, India (2004-2008)

Project Assistant at Indian Institute of Chemical Technology (CSIR), India (2009-2010)





M.Sc. in Molecular Biology from Umea University, Sweden (2011-2013)

Research Assistant at Linkoping University, Sweden (2013)





Research fellow at EIMI, University of Münster, Germany (2013)

Scientific objective

To develop novel methods for non invasive *in vivo* quantification of disease activity in immune mediated disease.

Workflow:

- Screening the available optical tracers (MMP, S100 etc.) for visualizing the inflammation *in vivo* in CIA mice models and other acute inflammatory model.
- Compare the disease activity at various stages using imaging and histology methods.
- Optimising the tracer / technique for proper quantification of disease activity at pre-clinical stage.
- Compare the disease activity after using anti inflammatory and other drugs.
- Further optimisation of the method / tracer for use at clinical level.

Plan for this year

- Basic training in molecular imaging modalities available in our institute by attending the mouse imaging academy workshop organised in our lab (training in PET, SPECT, MRI, optical imaging)
- comprehensive training in optical and photo accoustics imaging
- Get familiar with *in vivo* tracer kinetics and learn to synthesize and optimise them
- Attend training programs conducted by our university for improving personal and research development skills
- Present my first findings at an international conference (Mostly in Annual meeting of society for nuclear medcine and molecular imaging, 2014)
- Submit one research publication before next kick off meeting
- Based on the priliminary results of my project, I would like to visit other patner Institute and look for a secondment or a colloboration.