

### Mahesh Kondapuram

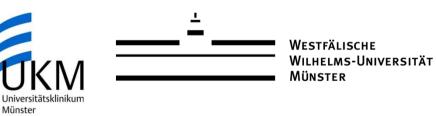
#### ESR-7, EUTRAIN

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.