



**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**



WESTFÄLISCHE  
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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)



European Institute  
for Molecular Imaging

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 acoustics 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 medicine 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.