

Workshops are offered on both days for two groups of five participants each, reservation lists will be available at the beginning of the conference (first come, first serve); **13:30-15 / 15:30-17**

Tuesday, Aug. 28

8:30 Introductory remarks on the Year of Science and collaborations between South Africa and Germany; possibilities of funding by BMBF and DAAD
Gerd Gäde, University of Cape Town

9:00 Physical basics of mass spectrometry for understanding the process from masses to protein sequences

Stefan Walter, University of Osnabrück

9:30 Proteus Flies: A personal perspective on mass spectrometry: some history, a few tales and a labour of love
Simone König, University of Münster

10:15 Coffee break

10:45 PRIME: The multidimensional path to the proteome
Detlev Suckau, Bruker Daltonics, Bremen

11:15 MALDI-MS of messenger molecules (neuropeptides) in the nervous system
Reinhard Predel, University of Cologne

12:00 MALDI-MS for biodiversity and global change by looking at mosquito species arriving in Northern Europe because of warmer climate
Christian Kaufmann, University of Zurich

12:30 Lunch and workshops

Wednesday, Aug. 29

9:00 Funding opportunities by BMBF, Alexander von Humboldt Foundation, and DAAD
Heather Marco, University of Cape Town

9:30 Mass spectrometry data mining
Simone König, University of Münster

10:00 Modifications and interaction of S100A8 and S100A9 in immune response
Alena Dreiling, University of Münster

10:15 Steroids and drugs in urine profiles
Tanja Verena Maier, University of Münster

10:30 Coffee break

11:00 ESI-MS in food security, midgut and peritrophic matrix proteins as targets for insect control
Hans Merzendorfer, University of Osnabrück

12:00 Biological importance of insect neuropeptides as possible new generation of insecticides including possibility of using peptidomimetics
Lance Anders, University of Cape Town

12:15 ESI-MS in food security, neuropeptide examples with special post-translational modifications
Gerd Gäde, University of Cape Town
Resume and farewell

12.30 Lunch and workshops