



Workshop

Photoacoustic Imaging

in

Biology and Medicine

Obergurgl 23.-27.02.2013



Programme

Saturday, 23.02.2013

- 16.00-18.00 **Check in**
- 18.00-19.00 **Daniel Razansky:** *Molecular optoacoustic imaging: latest technical developments, applications, and prospects*
- 19.00 **Dinner**

Sunday, 24.02.2013

- 09.00-09.40 **Johannes Bauer-Marschallinger:** *Low-cost parallelization of optical fiber based detectors for photo-acoustic imaging*
- 09.40-10.20 **Armin Hochreiner:** *Photoacoustic imaging with remote non contacting interferometric measurement systems*
- 10.20-10.40 **Coffee break**
- 10.40-11.20 **Sibylle Gratt:** *4-line Array: Planning and Constructing a device for fast image acquisition*
- 11.20-12.00 **Günther Paltauf:** *Iterative reconstruction method for photoacoustic section imaging with integrating cylindrical detectors*
- 12.00-14.00 **Lunch**
- 14.00-14.20 **Thomas Glatz:** *The Inverse Source Problem for the Helmholtz Equation and Photoacoustic Tomography*
- 14.20-15.00 **Peter Elbau:** *Reconstruction Formulas for Variable Speed of Sound*
- 15.00-15.20 **Coffee break**
- 15.20-16.00 **Nicole Schmitner:** *PAI-optimized zebrafish models for regenerative research*
- 18.30 **Dinner + 'socializing'**

Monday, 25.02.2013

- 09.00-09.40 **Mengyang Liu:** *Towards multimodal all optical detection photoacoustic tomography / swept source OCT*
- 09.40-10.20 **Behrooz Zabihian:** *Novel akinetic all-semiconductor light source for swept source OCT and all optical detection photoacoustic tomography interrogation laser*
- 10.20-10.40 **Coffee break**
- 10.40-11.20 **Leonidas Mindrinos:** *Mathematical models for Optical Coherence Tomography (OCT) and connection to Ultrasound Tomography*
- 11.20-16.30 **break**
- 16.30-17.00 **NFN-internal Meeting: Budget, Final Report, Meetings**
- 17.00-18.00 **Strategy 1: Burgholzer**
- 18.30 **Dinner**

Tuesday, 26.02.2013

- 09.00-10.40 Strategy 2: Paltauf/Nuster**
- 10.40-11.00 Coffee break**
- 11.00-12.00 Strategy 3: Scherzer**
- 12.00-16.30 Break**
- 16.30-17.30 Strategy 4: Meyer**
- 17.30-18.30 Strategy 5: Drexler/Hermann**
- 18.30 Dinner**

Wednesday, 27.02.2013

- 09.00-10.40 Concluding remarks**