



# FLUORESCENCE LIFETIME IMAGING BASED DETERMINATION OF INTRACELLULAR ION CONCENTRATIONS

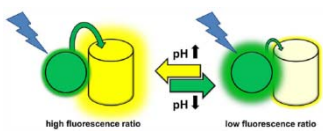
GUEST LECTURE by

**Dr. Thomas Gensch**

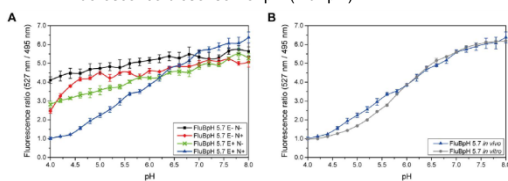
Institute of Complex Systems 4 (ICS-4), Cellular Biophysics, Research Centre Juelich, Germany

Thursday, 19.04.2018  
17:00

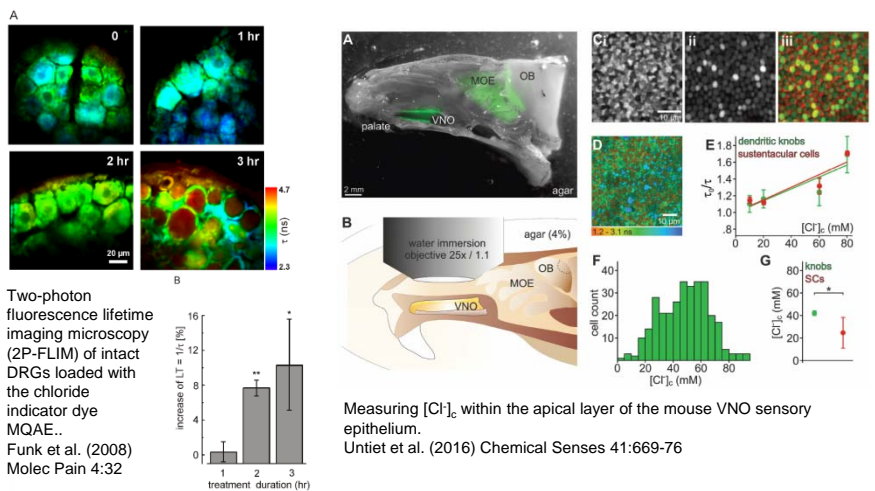
Seminar room MC 1.G.01.005 (Seminarraum 01 - Angewandte Biomedizin), MED Campus, (Neue Stiftingtalstrasse 6, 1<sup>st</sup> floor), MUG



Schematic representation of the FRET-based fluorescence biosensor for pH (FluBpH).

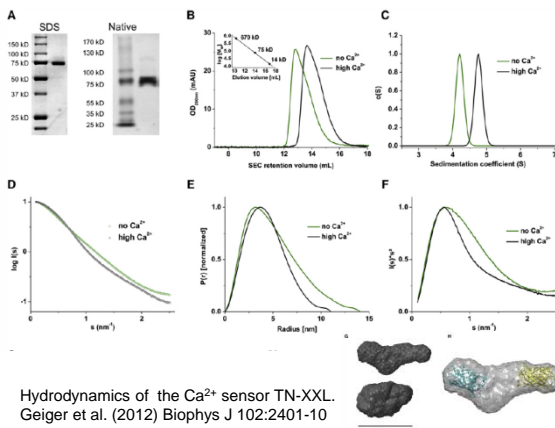


In vivo calibration of FluBpH 5.7 in *E. coli* cells using the K<sup>+</sup>/H<sup>+</sup> ionophore nigericin. Rupprecht et al. (2017) J Biotechnol 258:25-32

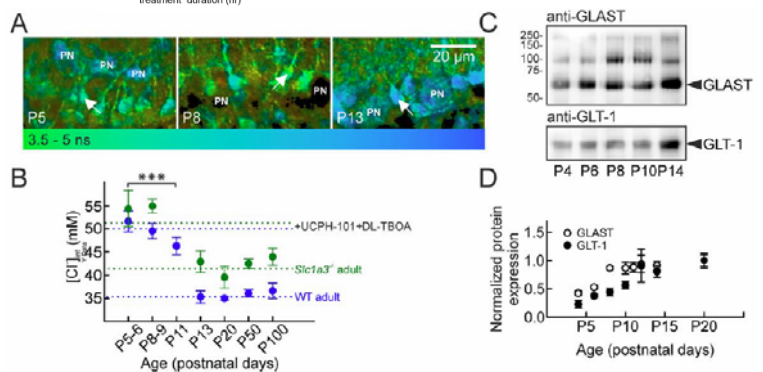


Two-photon fluorescence lifetime imaging microscopy (2P-FLIM) of intact DRGs loaded with the chloride indicator dye MQAE.. Funk et al. (2008) Molec Pain 4:32

Measuring [Cl]<sub>i</sub> within the apical layer of the mouse VNO sensory epithelium. Untiet et al. (2016) Chemical Senses 41:669-76



Hydrodynamics of the Ca<sup>2+</sup> sensor TN-XXL. Geiger et al. (2012) Biophys J 102:2401-10



Age-dependent changes of [Cl]<sub>i</sub> in Bergmann glial cells. Untiet et al. (2017) Glia 65:388-400