FWF Der Wissenschaftsfonds.

Doctoral College
Metabolic & Cardiovascular Disease

Medical University of Graz

UNI GRAZ TU Graz Graz University of Technology

MOLECULAR TOOLS FOR NEXT GENERATION PATHOLOGY

GUEST LECTURE by

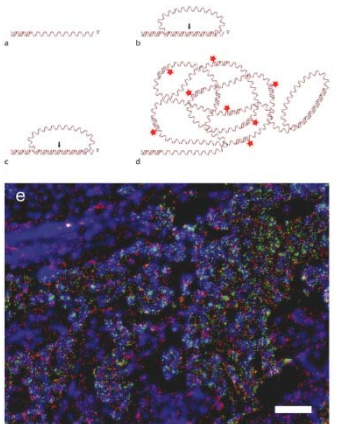
Prof. Dr. Ola Söderberg

Department of Immunology, Genetics & Pathology, Uppsala University, Sweden

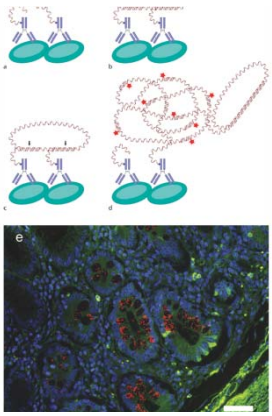
Monday, 12.10.2015

17:00

Lecture Hall, Department of Pathology, MUG (Auenbruggerplatz 15, ground floor)

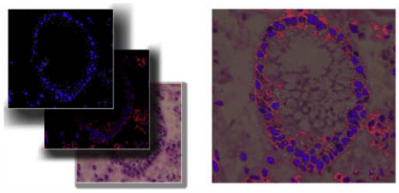


Detection of nucleic acids with padlock probes.

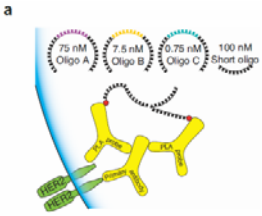


Detection of protein interactions with *in situ* PLA.

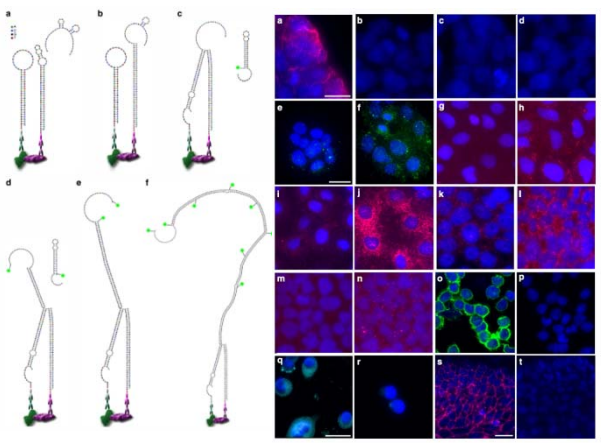
Clausson et al. (2012) EPMA 3:7



Overlay of pictures from hematoxylin/eosin staining and immunofluorescence with *in situ* PLA and padlock probes. Koos et al. (2015) J Mol Biol 427:2013-22



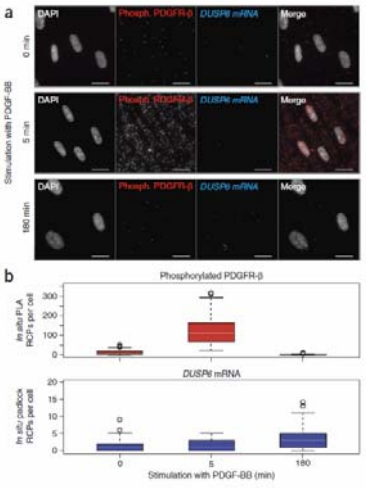
Extension of the dynamic range of *in situ* PLA. Clausson et al. (2014) Nature Methods 8(11): 892-3



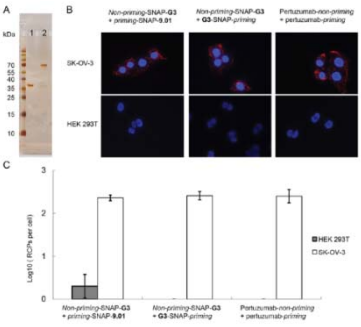
Principle of proxHCR.

In situ proxHCR.

Koos et al. (2015) Nature Commun 6:7294



⬆ Example of combined padlock and *in situ* PLA staining for phosphorylated PDGFR-β and *DUSP6* mRNA. Weibrecht et al. (2013) Nature Protoc 8(2): 355-72



Detection of HER2 in cells using DNA-modified ➡ DARPins and antibodies. Gu et al. (2013) New Biotechnol 30(2): 144-520