Individual Research Projects:

1.	1. Lateral Proton Migration along lipid membranes	Prof. Peter Pohl
2.	2. Proton Uptake from the membrane surface by membrane	Prof. Peter Pohl
	channels and transportes	
3.	3. Second harmonic (SH) Imaging of charge, water and proton	Prof. Sylvie Roke
	mobility on free standing lipid membranes	
4.	4. Ion channels as seen by water	Prof. Sylvie Roke
5.	Biomimetic synthetic self-assembled proton channels	Dr. Mihail Barboiu
6.	Proton transport on the hydrated surfaces of Green Fluorescent	Prof. Noam
	Protein (GFP) and collagen fibrils and mats	Agmon
7.	Mechanism of the proton transport activation in UCPs	Prof. Elena Pohl
8.	Protozoal and human proton-coupled lactate transport:	Prof. Eric Beitz
	molecular mechanisms and drug-like inhibitors	
9.	Proton-gating of the urea channel (Urel) from the human gastric	Dr. Harmut
	pathogen Helicobacter pylori	Luecke
10.	Proton transfer at anionic membrane interfaces	Prof. Ana-
		Nicoleta Bondar
11.	Formate nitrite transporters: proton-coupled transport and	Prof. Jochen Hub
	inhibitor design from MD simulations	
12.	Molecular characterization of the mobility and hydration of the	Prof. Martin Hof
	function-relevant region of the urea channel HpUrel located at	
	the vicinity of the proton sensitive loop	
13.	Proton-sensing mechanism of GPR68	Dr. Herbert Nar
14.	Application of FCCS to analyse reconstituted membrane	Dr. Stefan
	proteins in Giant Unilamellar Vesicles (GUV) and related artificial	Hannus
	membranes, using the example of the proton channel $H_{\rm V}1$	
15.	Mitochondrial Uncoupling Proteins: proton channels or proton-	Dr. Harmut
	fatty acid co-transporters?	Luecke