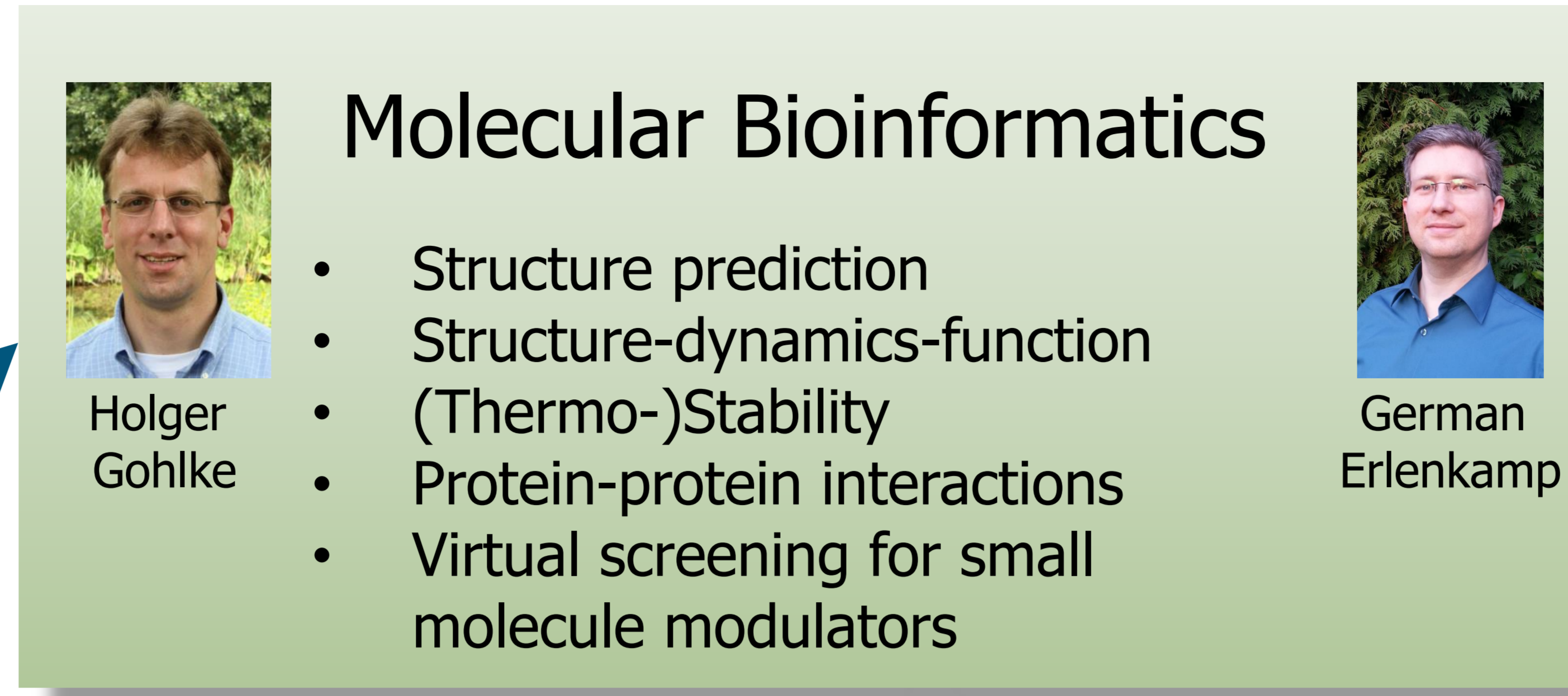


# Cross section: Structural Biology

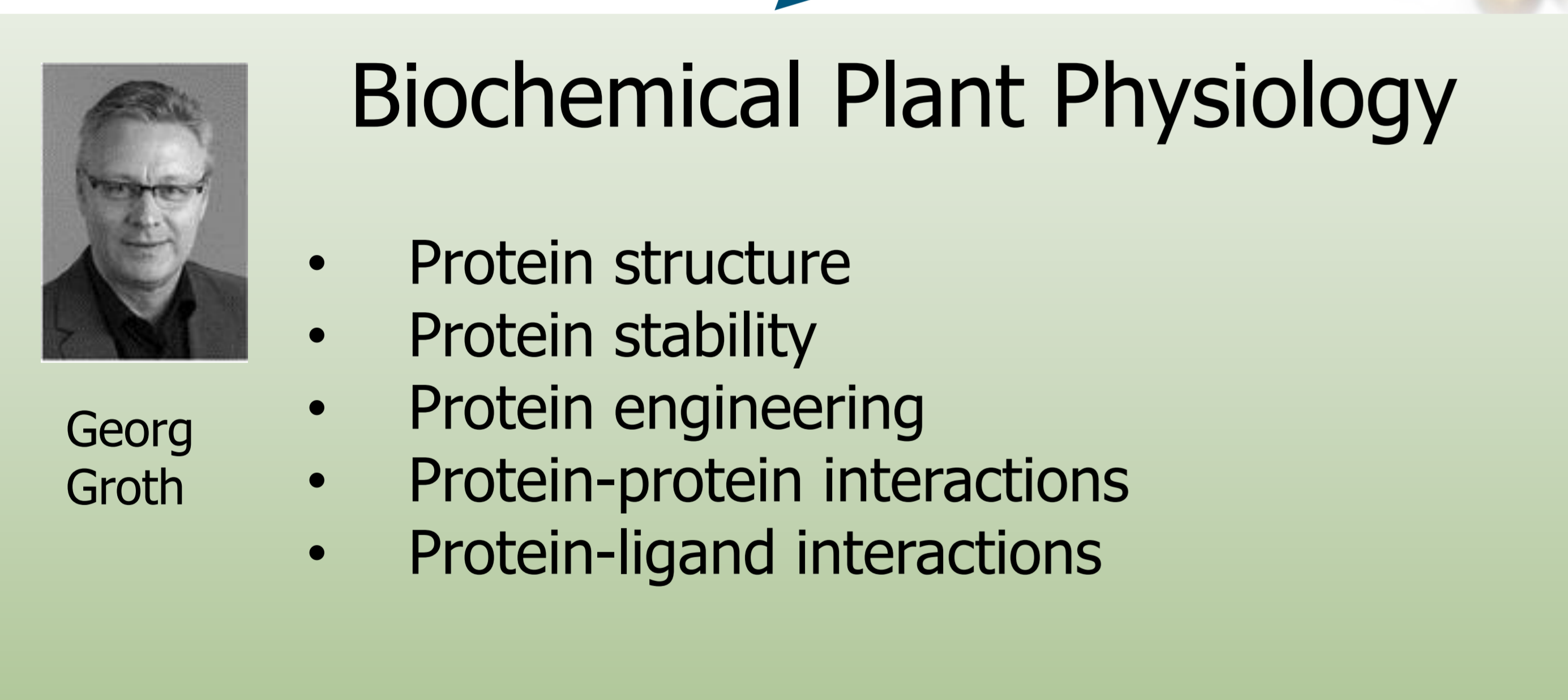
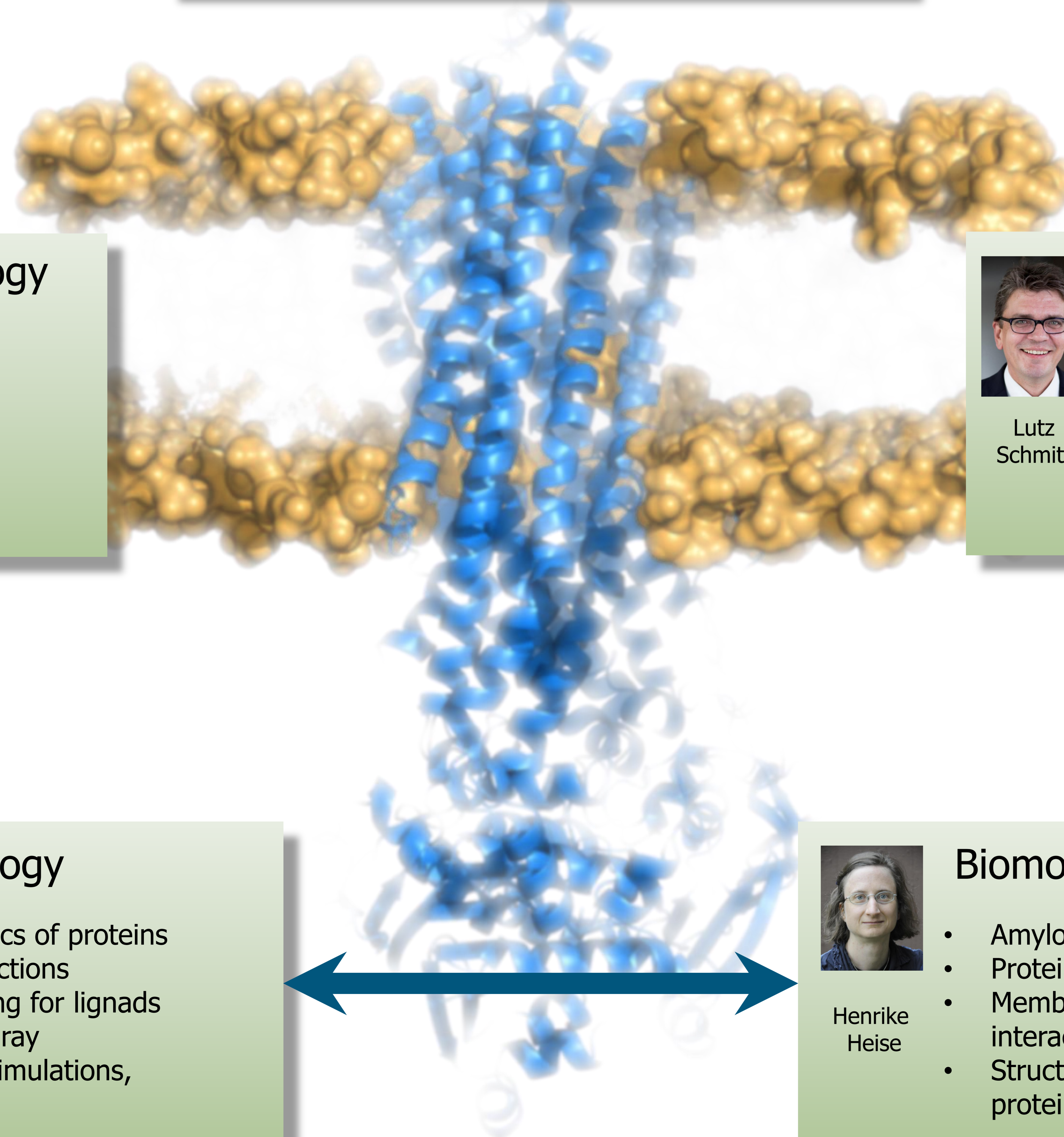


**Molecular Bioinformatics**

- Structure prediction
- Structure-dynamics-function
- (Thermo-)Stability
- Protein-protein interactions
- Virtual screening for small molecule modulators

Holger Gohlke

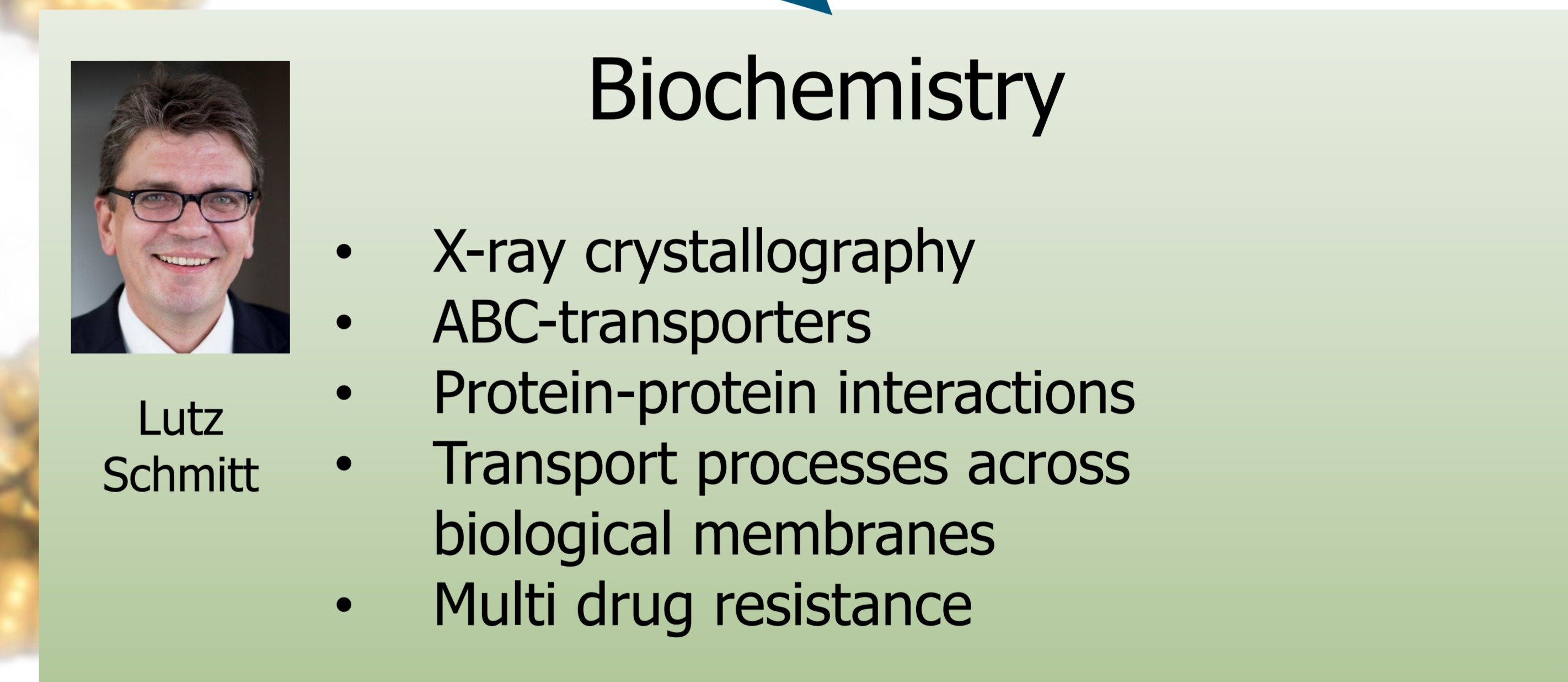
German Erenkamp



**Biochemical Plant Physiology**

- Protein structure
- Protein stability
- Protein engineering
- Protein-protein interactions
- Protein-ligand interactions

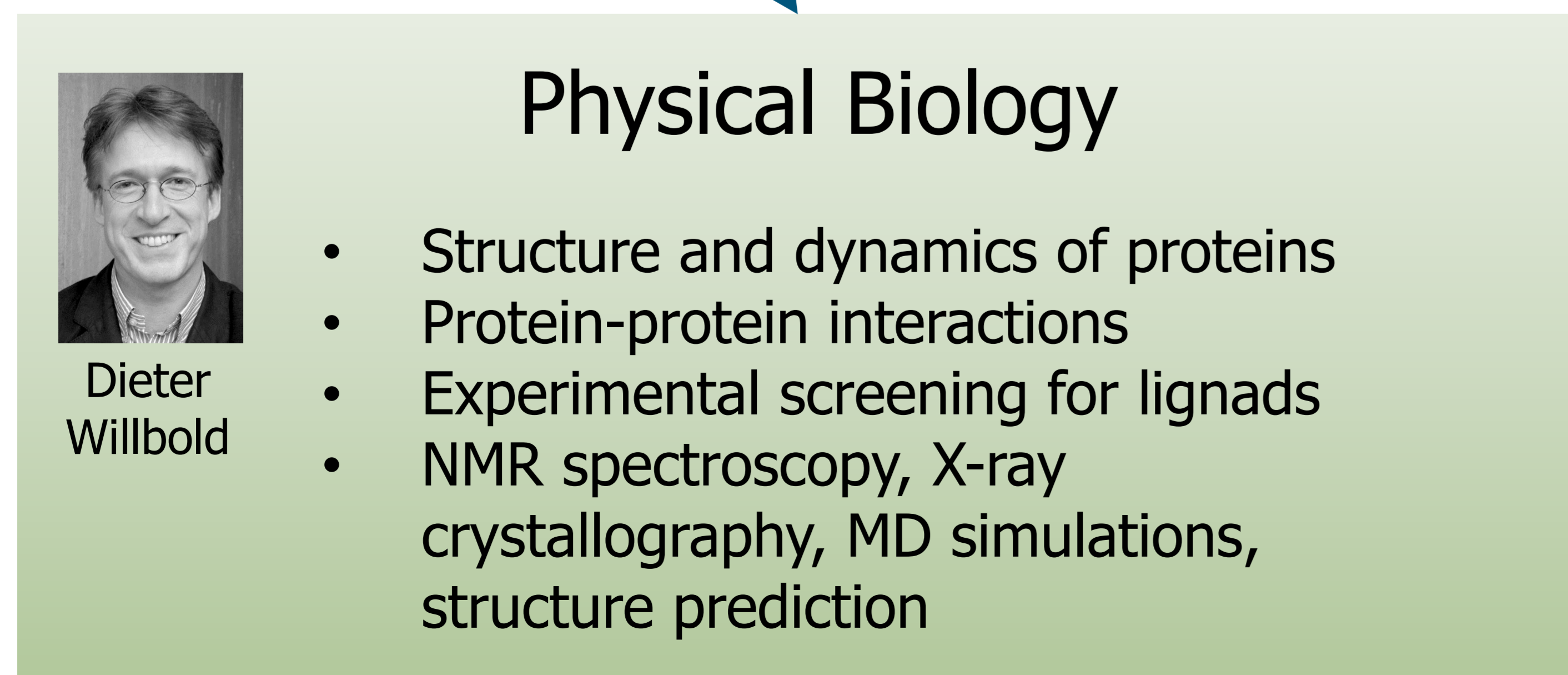
Georg Groth



**Biochemistry**

- X-ray crystallography
- ABC-transporters
- Protein-protein interactions
- Transport processes across biological membranes
- Multi drug resistance

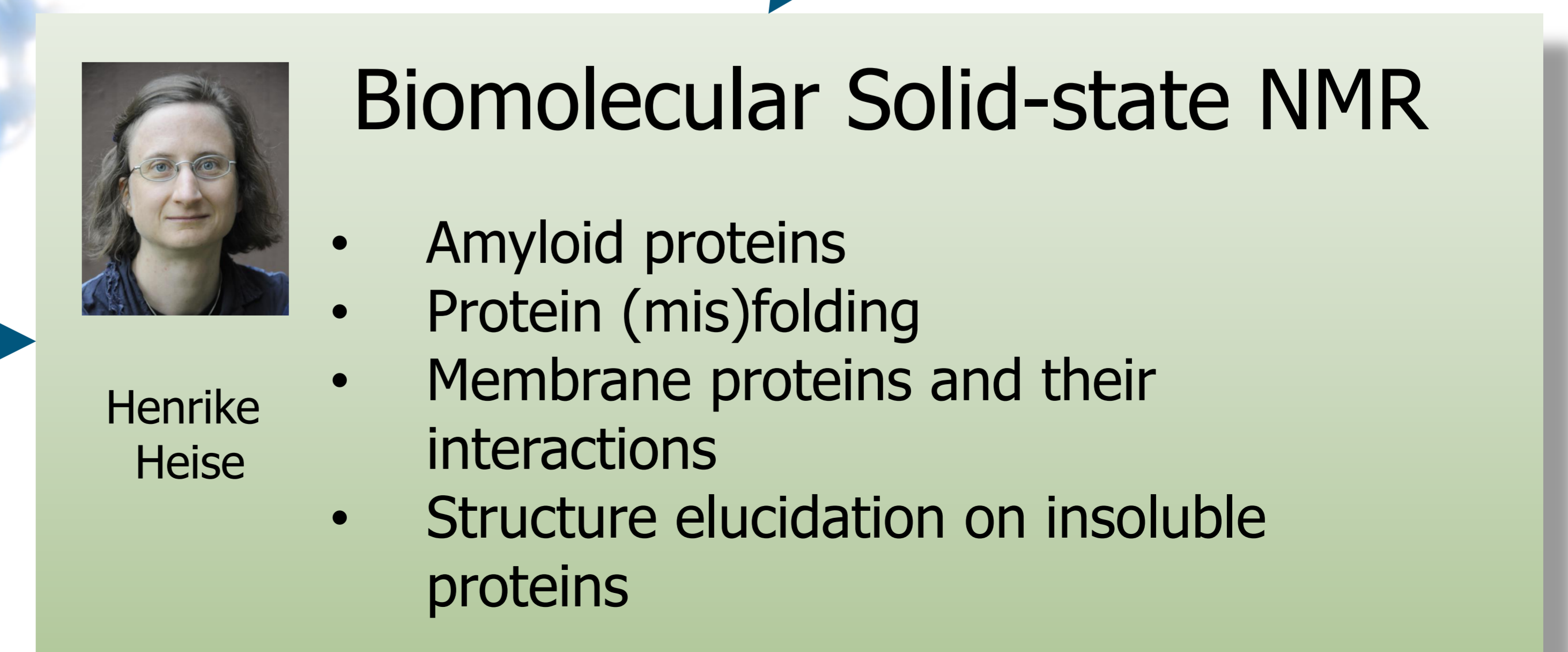
Lutz Schmitt



**Physical Biology**

- Structure and dynamics of proteins
- Protein-protein interactions
- Experimental screening for ligands
- NMR spectroscopy, X-ray crystallography, MD simulations, structure prediction

Dieter Willbold



**Biomolecular Solid-state NMR**

- Amyloid proteins
- Protein (mis) folding
- Membrane proteins and their interactions
- Structure elucidation on insoluble proteins

Henrike Heise