

Research in LST and Chemistry for Health

@ Leiden Institute of Chemistry

Synthesis

Hermen Overkleef

Design and synthesis of glycosidase and protease inhibitors and activity-based probes for application in biotechnology and drug discovery

Jeroen Codée

Design and synthesis of bioactive carbohydrates for glycobiology and carbohydrate-based vaccines

Dima Filippov

Develops novel chemistry for biopolymer synthesis

Marta Artola

Uses organic chemistry, chemical biology, and biochemistry to design protein inhibitors and (de)stabilizers for therapeutic applications

Zach Armstrong

Structural biology of carbohydrate editing enzymes and synthesis of disease relevant inhibitors

Stephan Hacker

Develops covalent inhibitors and chemoproteomic technologies to identify targets for future antibiotics

Sander Wezenberg

Develops stimuli-responsive molecular receptors and self-assembling materials to study and manipulate biological systems

Alexander Kros

Develops novel drug delivery tools and imaging methodologies to study the nano-bio interface in vitro and in vivo

Kim Bonger

Combines organic chemistry with molecular biology and biochemistry to target and answer biological questions related to autoimmune- and protein misfolding diseases.

Roxanne Kieltyka

Designs and prepares supramolecular materials for biomedical applications

Steffen Brünle

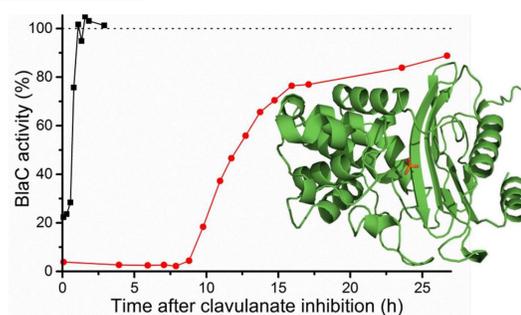
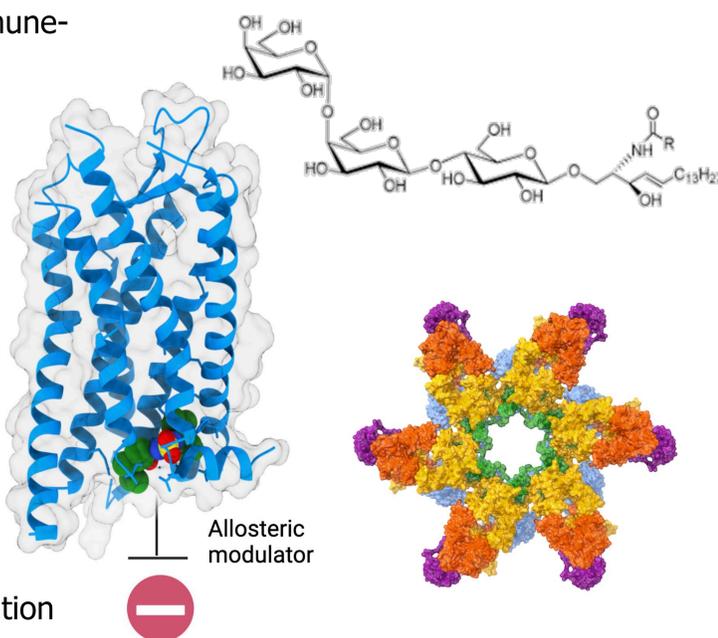
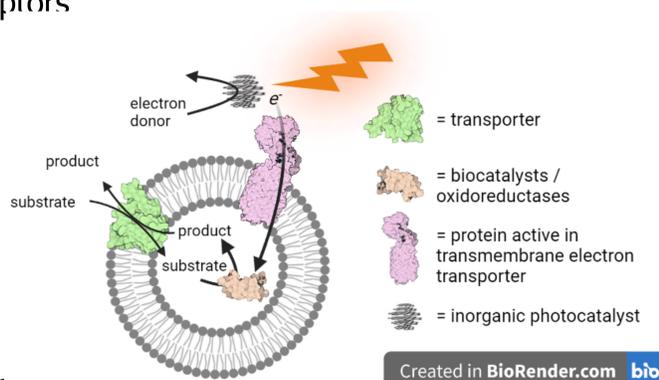
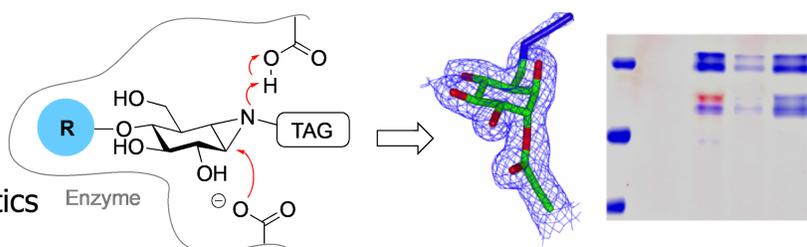
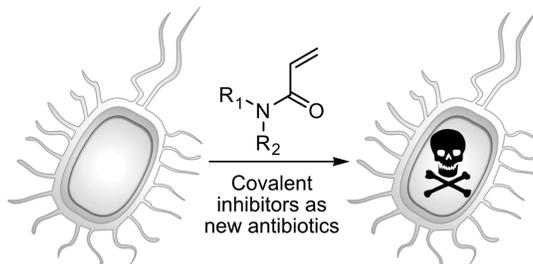
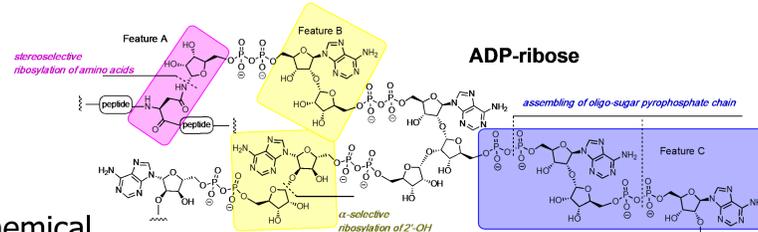
Uses structural biology to study the signaling mechanisms in membrane receptors and develop therapeutic compounds for human diseases

Sebastian Geibel

Aims to understand bacterial virulence mechanisms using a combination of microbiological, biochemical and structural biology methods

Rolf Boot

Investigates enzymes in relation to glycosphingolipid synthesis and degradation



Mario van der Stelt

Designs, synthesizes and applies novel molecules to study various diseases, such as infection, cancer and neurodegenerative diseases, with the aim to discover novel drug candidates

Anthe Janssen

Uses computational protein structure-based techniques and machine learning-based techniques to generate hit compounds for drug development purposes

Bobby Florea

Proteostasis in resistance to chemotherapy

Madeline Kavanagh

Aims to expand the druggability of immune systems and drive forward the development of safer, more effective small molecule probes and drugs

Tom van der Wel

Aims to develop new chemical-genetic techniques to study the enzyme family of phosphodiesterases

Sylvestre Bonnet

Makes new light-activatable metal-based anticancer prodrugs for use as targeted anticancer agents

Grégory Schneider

Synthesis of polyaromatic 2D membranes and edge derivatization of graphene nanosensors

Sander van Kasteren

Uses organic synthesis and chemical biology to study activation of the immune system

Lars Jeuken

Develops and applies biophysical methods to study respiratory enzymes and membrane transport

Anne Wentink

Studies the role of molecular chaperones in neurodegenerative diseases

Remus Dame

Investigates the coupling of genome organization and genome activity

Marcellus Ubbink

Studies structure, dynamics, function and evolution of enzymes with advanced spectroscopies

Biochemistry