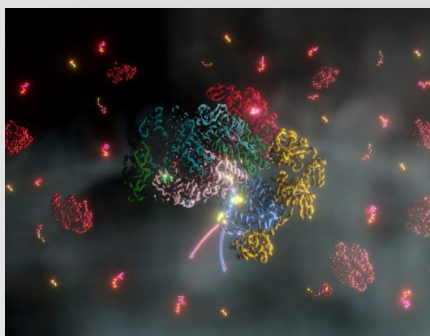




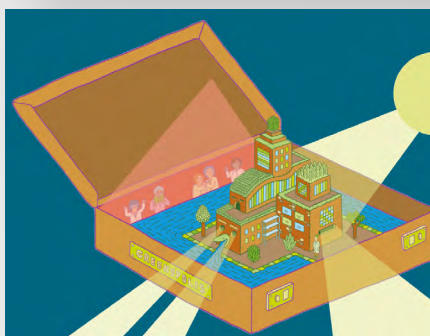
Newsletter

Spring 2025



Research Highlights

[Click here](#) to take a brief look at what researchers at UniSysCat have been working on the past few months.



Current Affairs

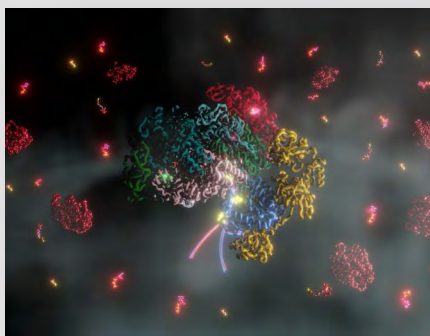
[Click here](#) to view the most recent events, awards and other affairs hosted by UniSysCat.



Upcoming Events

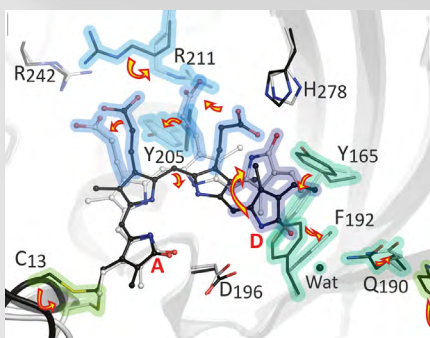
[Click here](#) to take a look at the colloquia and other events coming up.

Research Highlights



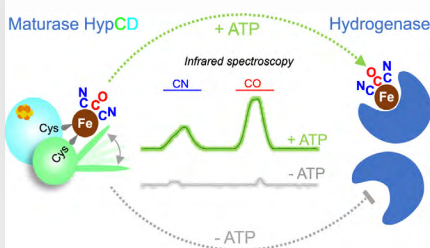
Breakthrough in methane research: Activation mechanism of the methane-producing enzyme deciphered

UniSysCat researcher Christian Lorent uses spectroscopy to provide the missing proof in the activation mechanism: The evolutionary link between two fundamental biological processes. This study is published in Nature.



Snapshots of a moving molecular light sensor

An international team including the UniSysCat researchers Patrick Scheerer, Andrea Schmidt and Peter Hildebrandt is using the powerful method of serial-femtosecond crystallography to visualize precisely how a bacterial light receptor reacts to illumination.



On the construction site: How the living cell assembles a catalytic metal center

A study involving five UniSysCat groups sheds light on the assembly of the $\text{Fe}(\text{CN})_2\text{CO}$ fragment of [NiFe]-hydrogenase using sophisticated experimental and theoretical methods - a masterpiece of interdisciplinary collaboration.

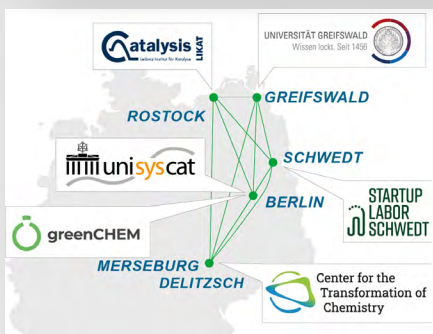


Current Affairs



UniSysCat expires at the end of 2025, but not our research

On May 22, the German Research Foundation (DFG) announced the funding decisions for the Clusters of Excellence. UniSysCat will not be funded beyond 2025. Yet, Berlin's catalysis research remains.



“Netzwerk Grüne Chemie Ost”: Letter of Intent signed

Six leading institutions launched an initiative for sustainable chemistry to create an innovation ecosystem that combines the transformation of the chemical industry with the challenges of structural change in eastern Germany.

TAGESSPIEGEL

Medikamente sollen erst im Tumor wirken
Neue Wirkstoff-Technik für die Chemotherapie



Made possible by UniSysCat: research into new anti-cancer drugs

An article in Tagesspiegel published on April 26 highlights how a team around UniSysCat speaker Juri Rappsilber is developing medical compounds that only become active in the tumor without attacking healthy cells.



Clara Immerwahr Award Ceremony and Symposium 2025

UniSysCat congratulates Bonnie Murphy on receiving the Clara Immerwahr Award 2025. We had the pleasure of celebrating this occasion together at TU Berlin on April 11. The preceding Symposium was also a truly inspiring day.

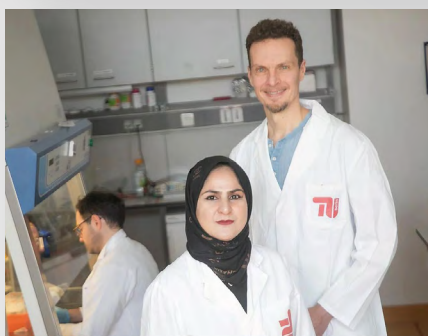


Current Affairs



Big success for Berlin's Green Chemistry: innovate! lab gGmbH for sustainable innovations in chemistry is founded

The "innovate! lab gGmbH", which is funded by the Joachim Herz Foundation with 5 million euros, gives a new boost to the transfer of cutting-edge research into practice.



Almost like a miracle: Najiba can finally do research

Thanks to the DAAD Hilde-Domin program, Najiba Azemi from Afghanistan can do her doctorate in the UniSysCat working group of Juri Rappsilber where she works on anti-cancer medication.



From university to application: Porelio

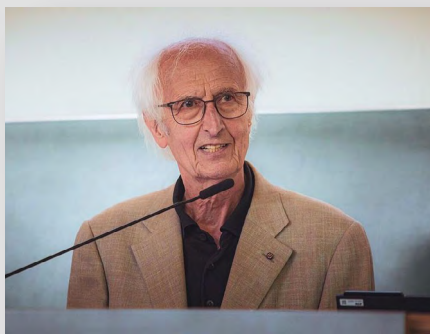
The two scientists Rhea Machado and Javier Silva have had a stellar career at UniSysCat and have now been interviewed by CHEManager magazine about their start-up Porelio.



Driving innovation in university teaching

UniSysCat speaker Juri Rappsilber calls for the renewal of university teaching in a recent blog post. His credo: "University means shaping". Clusters of Excellence could lead the way.

Current Affairs



Prof. Dr. Helmut Schwarz receives the “BBVA Foundation Frontiers of Knowledge Award”

Helmut Schwarz, emeritus professor of TU Berlin and former UniCat member, was honored with the 17th “BBVA Foundation Frontiers of Knowledge Award” in the basic sciences. UniSysCat congratulates very warmly.



“The energy transition requires European cooperation”

UniSysCat group leader Beatriz Roldán Cuenya from FHI Berlin was interviewed by the Spanish newspaper “El País” about her research into new catalysts and her commitment to the energy transition.



The Synthesizer Podcast about the transformation of chemistry

The three UniSysCat group leaders Maria Andrea Mroginski, Peter Seeberger and Matthias Drieß have been interviewed for the “Synthesizer Podcast”. These and more episodes deal with the transformation of chemistry to a green and sustainable industry.



Upcoming Events



Long Night of Sciences: Pub Quiz

Berlin's 7 Clusters of Excellence invite you to their Pub Quiz at the Long Night of Sciences in Berlin. This special edition features thought-provoking questions highlighting each cluster's research. We'll have two engaging quiz rounds at 7 & 8:30 PM.

Date: June 28, registration starts at 6 PM at TU Berlin.



Imprint

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