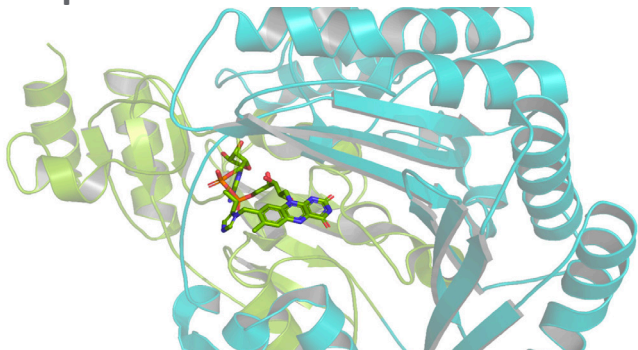
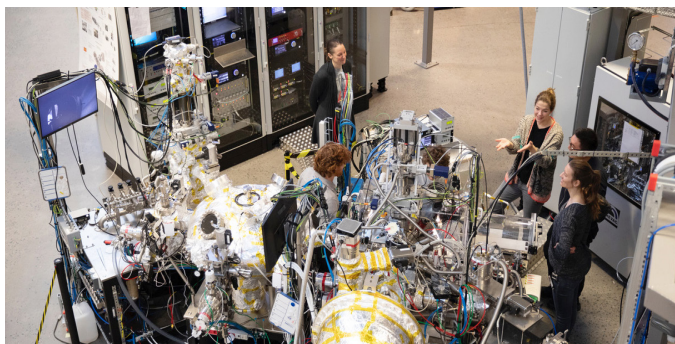


## Mapping the genetic tools of fungi for fuel production



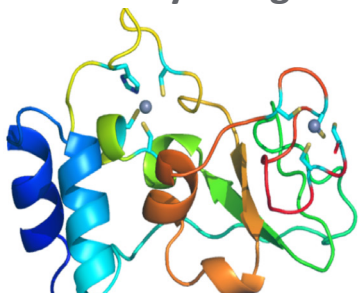
Researchers explored the AA7 enzyme family, characterizing four fungal enzymes and uncovering a novel class of flavo-enzymes. The enzymes contribute to the process of plant degradation. The work offers promise for tuning the breakdown process of biomass for energy production. [Read the full story](#)

## Modelling electrochemical potential for better Li-batteries



To understand the electrochemical potential of lithium-ion batteries, one should decipher the chemical processes at interfaces occurring during device activity. Using HIPPIE beamline, a research group investigated and modelled the influence of electrochemical potential differences in operando in these batteries. [Read the full story](#)

## Tackling SARS CoV-2 viral genome replication machinery using X-rays



An international research team performed biophysical and structural studies of three non-structural proteins from the novel coronavirus, SARS CoV-2, the causative agent of COVID-19. In spring of 2020, they managed to solve and started to analyse one of these proteins, nsp10, using BioMAX beamline. [Read the full story](#)



## Clues to block replication of SARS-CoV-2 found with FragMAX



Scientists identified four fragments that interact with the nsp10 protein of SARS-CoV-2 using the FragMAX platform and BioMAX beamline. The fragments could be used to develop inhibitors that supplant key nsp10 enzymes. The application holds potential to block viral replication. [Read the full story](#)

## Riverine iron survives salty exit to sea



A Lund University study characterizes the role of salinity for iron-loading in estuarine zones, a factor which underpins intensifying seasonal algal blooms in the Baltic Sea. The study ties in with a trend of increased riverine iron concentrations over the last decade in North America, northern Europe and in particular, Swedish and Finnish rivers. [Read the full story](#)

## Latest Events

Open Days, our exciting public visitation event at MAX IV will commence in September 2023! Stay tuned for more information on planned activities in the coming months on [MAX IV's OPEN DAYS site page](#).

