EXPERT INSIGHTS

TOSOH

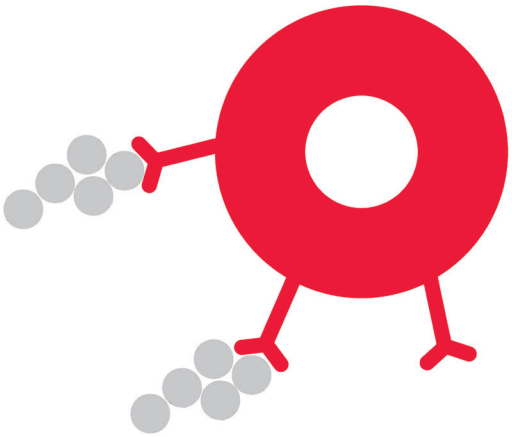
MAX-PLANCK-INSTITUT FOR BIOCHEMISTRY - CORE FACILITY, RECOMBINANT PROTEIN PRODUCTION

Tosoh Bioscience: What is the function of your department?

Leopold Urich: Our Group is working in the Institute's Core Facility, one of many Service Facilities devoted to supporting the scientists during their work. Among the many areas of expertise we are working in the field of "Recombinant Protein Production". Meaning we are developing strategies for protein expression and purification.

Which projects using chromatography are you working on?

Almost all of our projects require some form of chromatography, since we are solely working with proteins.



You mentioned that the two salt-tolerant ion-exchange chromatography media from Tosoh* are a breakthrough for your work. Could you elaborate on this?

Ion-Exchange has been something we've been struggling with for a while now. The biggest issue has always been the binding conditions with other ion-exchange resins, meaning very low salt concentrations. Most of the material we are working with simply can't withstand such low amounts of salt. This problem has since been eliminated and on top of that, we're seeing some great separation results in our testing, even with simple linear gradients especially with the Toyopearl anion exchange columns.

** Toyopearl Sulfate-650F and Toyopearl NH2-750F*

Would you see further application of these resins for other purposes?

It's clear to say, with the testing complete and all of us being really content with the results, the resins, and ion-exchange in general, will play a much bigger role in our regular workflow.

The Max-Planck-Institute of Biochemistry, located in Martinsried near Munich focuses on basic research in Biochemistry, structural Biology and Biophysics, the biggest strength being the great methodological expertise in all of its research areas.

With approximately 850 employees coming from 45 different nations, the MPIB is one of the largest institutes within the Max Planck Society.

Members of the team involved in the project:
From left to right: Sabine Suppmann, Claudia Strasser, Attilio Piroddi, Leopold Urich