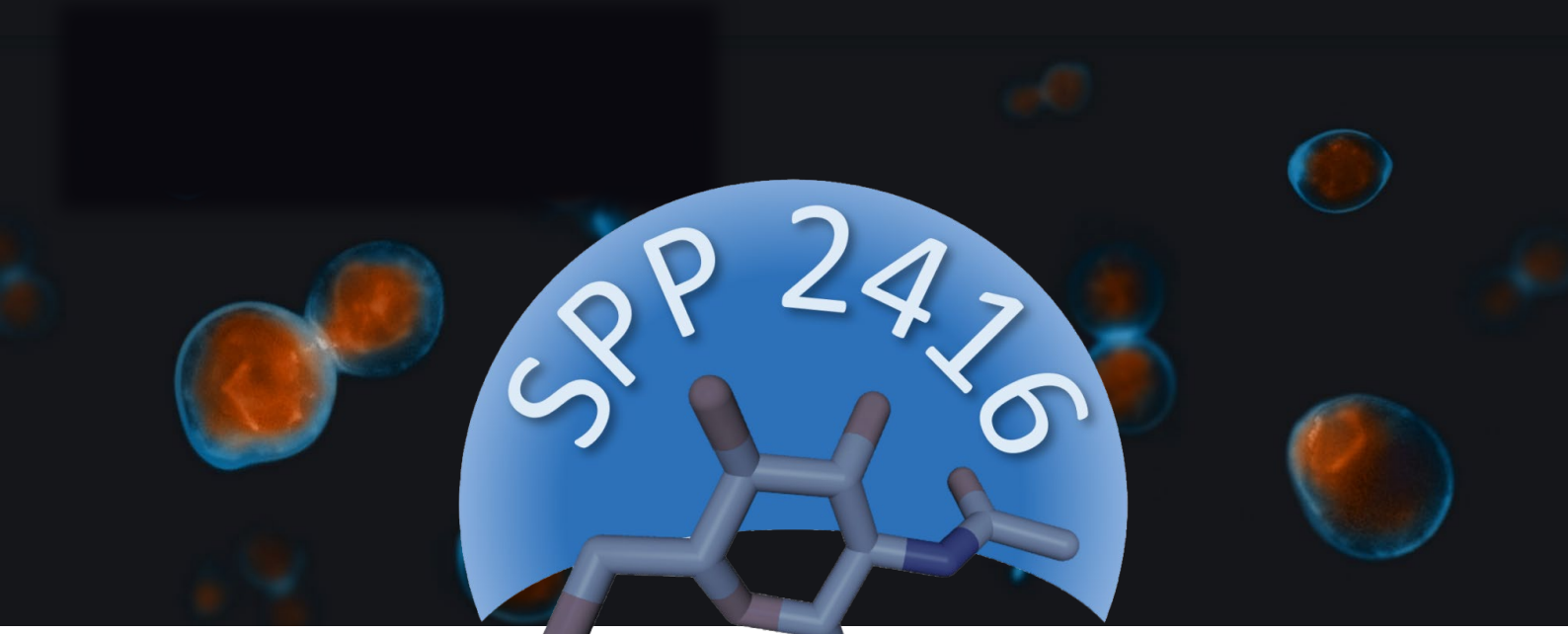

Codeχ

The code of chito-protein interactions

Young Researchers Symposium

Satellite Event of the EUCHIS 2026 Conference

May 14, 2026 – Murcia, Spain

Organizers

Ehab El-Awaad, University of Siegen, Germany
Ivy Ann Razonado, University of Lyon 1, France
Shaghayegh Jahangir, University of Bayreuth, Germany
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Funded by
DFG Deutsche Forschungsgemeinschaft
German Research Foundation

Morning sessions

	09:00	**Welcome by the YRS Organization Team**		
❶ Chair: Ehab El-Awaad	09:05	Ehab El-Awaad Siegen University, Germany	χ	Analysis of chito-protein interactions using grating-coupled interferometry
	09:20	Mathis Joly ICGM, Montpellier, France		Development of chitosan-based matrices for pharmaceutical semi-solid extrusion 3D printing
	09:35	Fuzhu Yang MPI, Potsdam, Germany	χ	Synthesis of chitin oligosaccharides and chitin polymers with defined structure
	09:50	Anastasia Zubareva RAS, St. Petersburg, Russia		DEAE-modified chitosan–liposome hybrids for plasmid DNA delivery in aquaculture vaccination
	10:05	Mario Wegmann Siegen University, Germany	χ	Chitin composition and modification in the peritrophic matrix of *Tribolium castaneum*
	10:20	Vishnu Arumughan Aalto University, Espoo, Finland		Bioinspired nanochitin-based porous constructs for light-driven whole-cell biotransformations
	10:35	**Posters + Coffee**		
❷ Chair: Margareta Hellmann	11:30	Margareta Hellmann Münster University, Germany	χ	Hide and seek: The fungal pathogen *Cryptococcus neoformans* uses chitosans to evade human immunity
	11:45	Timmy Richardo Tübingen University, Germany	χ	Determinants of chitin recognition: From TLR2 modulation to innate immune training
	12:00	Jan Ludwig Stuttgart University, Germany		*In vivo* modulation of high-aspect ratio chitin rods in *Thalassiosira rotula*
	12:15	Rubén Gil-Gonzalo UCM, Madrid, Spain		Lipid nanoparticles coated with chitosan for curcumin encapsulation and their effect on wound healing
	12:30	Alexandra Großdorf UKE, Hamburg, Germany	χ	Chitinase 3 like 1 coordinates chitin sensing by the innate immune system
	12:45	Smruti Bhat MAHE, Manipal, India		Selective by design: A unique GH18 chitinase from *Bacillus aryabhattai* with reduced domain complexity and substrate-length specificity
	13:00	**Lunch**		

Afternoon sessions

❸ Chair: Shaghayegh Jahangir	14:00	Shaghayegh Jahangir Bayreuth University, Germany	Biomineralized chitosan scaffolds and 3D bioprinting for applications in 3D cell culture and tissue engineering
	14:15	Łukasz Wujcicki PolSl, Gliwice, Poland	Eco-functional chitosan modified with 2,3-pyrazinedicarboxylic acid for efficient heavy metal removal: Insight into physicochemical properties and adsorption performance
	14:30	Vinolia Dmello TU Dresden, Germany χ	Mechanisms of chitin organisation in *Drosophila melanogaster* larvae
	14:45	Katharina Eickelpasch Münster University, Germany χ	Structure–function relationships of chitosans in plant disease resistance induction
	15:00	**Posters + Coffee**	
❹ Chair: Ivy Ann Razonado	16:00	Stefan Cord-Landwehr Münster University, Germany χ	Analytical tools to detect, quantify and localize chitin and chitosan *in situ*
	16:15	Jordyn Ann Howard IMP, Villeurbanne, France	Characterization of polyampholyte chitosan hydrogels for peptide loading and sustained release
	16:30	Eugeniusz Świstuń AGH Krakow University, Poland	From pests to polymers: Chitosan from forest insects collected during forest protection activities
	16:45	Soofia Khanahmadi Frankfurt University, Germany χ	How the structure of chitooligosaccharides impacts their interactions with plant receptors and bioactivity mechanisms
	17:00	**End of Codeχ Exhibition Events**	

Posters

1	Alexandra Großdorf UKE, Hamburg, Germany	χ	Chitinase 3 like 1 coordinates chitin sensing by the innate immune system
2	Alma Carolina Galvez Iriqui Universidad de Sonora, Hermosillo, Mexico		Chitosan-k-carrageenan-lysozyme nanoparticles (CS-CRG-κ/LZ) induces morphological changes on the *in vitro* growth of *Colletotrichum siamense*
3	Amrutha Shastry NITK, Surathkal, India		Insect waste derived chitinase: A promising agent for chitin degradation and antifungal treatment
4	Ernest Simó Ramírez IATA-CSIC, Paterna, Spain		A green click–unclick strategy to stabilize antifungal volatiles on chitosan particles via reversible imine chemistry
5	Gizem Karabiyik Würzburg University, Germany	χ	Mesostructured composite chitosan membranes for the reconstruction of corneal tissue
6	Griselda Pérez-Ireta INMA CSIC-UNIZAR, Zaragoza, Spain		Chitosan-cinnamaldehyde gels as antimicrobial tools against biodeterioration in cultural heritage
7	Henry Chijcheapaza-Flores Lille University, France		Development and assessment of a chitosan/polymer of β-cyclodextrin hydrogel for viscosupplementation and drug delivery in osteoarthritis
8	Ivy Ann Razonado IMP/Lyon University, Villeurbanne, France		Wet spinning of zirconium phosphate-loaded chitosan fibers
9	Jana Mounzer LAGEPP/Lyon University, Villeurbanne, France		Microfluidic preparation of chitosan nanoparticles with either negative or positive surface charge
10	Karol Kłosińsk Lodz Medical University, Poland		From biopolymers to neuroprotection: Emerging biomaterial platforms for neurodegenerative disease therapy
11	Lia Pérez Rostgaard MPI, Potsdam, Germany		Synthesis of well-defined monofluorinated chitin oligomers
12	Łukasz Wujcicki PolSl, Gliwice, Poland	χ	Eco-functional chitosan modified with 2,3-pyrazinedicarboxylic acid for efficient heavy metal removal: Insight into physicochemical properties and adsorption performance
13	Maria Bender DWI, Aachen, Germany	χ	Synthesis of chitosan-based microgels as tunable carriers for RNA delivery in plants
14	Matthias Behr Leipzig University, Germany	χ	Morphology and 3D ultrastructure of the chitinous matrix of *Drosophila* larvae
15	Neethu Thomas Aalto University, Helsinki, Finland		Moisture-enabled carbon capture: Exploring the role of water in chitin-based CO_2 sorbents
16	Patricia Esteve-Redondo IATA-CSIC, Valencia, Spain		One-step coupling of aldehydes with primary amines in chitosan for the design of acid-stable antifungal pH-responsive sponges
17	Ranjana Thachangade Torun University, Poland		Chemical modification of chitosan with maleic anhydride and glycerin for tunable biomedical applications
18	Shaghayegh Jahangir Bayreuth University, Germany		Biomineralized chitosan scaffolds and 3D bioprinting for applications in 3D cell culture and tissue engineering
19	Sina Nabil UKE, Hamburg, Germany	χ	The role of chitosan in the intracellular survival and escape of *Cryptococcus neoformans* in monocytes
20	Sirikan Pongnan VISTEC, Rayong, Thailand		Crystal structure-based loop engineering of chitin oligosaccharide deacetylase from chitinolytic bacteria *Vibrio harveyi* (VhCOD)
21	Valentina Orlandi AIMPLAS, Paterna, Valencia, Spain		Chitin and chitosan: Trend in ecofriendly packaging solutions from a pilot-scale point of view
22	Vinolia Dmello TU Dresden, Germany	χ	Mechanisms of chitin organisation in *Drosophila melanogaster* larvae
23	Xuanyu Dong LMU Munich, Germany		Exploring chitin sensing in olive