



Codex

*The code of
chito-protein
interactions*

Young Researchers Symposium

Satellite Event of the EUCHIS 2026 Conference

May 14, 2026 – Murcia, Spain

Organizers

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Morning sessions



09:00 Welcome by the YRS Organization Team

Chair: Ehab El-Awaad

09:05	Ehab El-Awaad Siegen University, Germany	X	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	X	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	X	Chitin composition and modification in the peritrophic matrix of <i>Tribolium castaneum</i>
10:20	Vishnu Arumughan Aalto University, Espoo, Finland		Bioinspired nanochitin-based porous constructs for light-driven whole-cell biotransformations



10:35 Posters + Coffee

Chair: Margareta Hellmann

11:30	Margareta Hellmann Münster University, Germany	X	Hide and seek: The fungal pathogen <i>Cryptococcus neoformans</i> uses chitosans to evade human immunity
11:45	Timmy Richardo Tübingen University, Germany	X	Determinants of chitin recognition: From TLR2 modulation to innate immune training
12:00	Jan Ludwig Stuttgart University, Germany		<i>In vivo</i> modulation of high-aspect ratio chitin rods in <i>Thalassiosira rotula</i>
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	X	Chitinase 3 like 1 coordinates chitin sensing by the innate immune system



13:00 Lunch

Afternoon sessions

Chair: Shaghayegh Jahangir

14:00	Shaghayegh Jahangir Bayreuth University, Germany		Biom mineralized chitosan scaffolds and 3D bioprinting for applications in 3D cell culture and tissue engineering
14:15	Łukasz Wujcicki PoISl, 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	x	Mechanisms of chitin organisation in <i>Drosophila melanogaster</i> larvae
14:45	Katharina Eickelpasch Münster University, Germany	x	Structure–function relationships of chitosans in plant disease resistance induction



15:00 Posters + Coffee

Chair: Ivy Ann Razonado

16:00	Stefan Cord-Landwehr Münster University, Germany	x	Analytical tools to detect, quantify and localize chitin and chitosan <i>in situ</i>
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	x	How the structure of chitooligosaccharides impacts their interactions with plant receptors and bioactivity mechanisms



17:00 End of Codex Exhibition Events

Posters (Codex Exhibition / YRS)

1	Alexandra Großdorf UKE, Hamburg, Germany	X	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 <i>in vitro</i> growth of <i>Colletotrichum siamense</i>
3	Ernest Simó Ramírez IATA-CSIC, Paterna, Spain		A green click–unclick strategy to stabilize antifungal volatiles on chitosan particles via reversible imine chemistry
4	Griselda Pérez-Ireta INMA CSIC-UNIZAR, Zaragoza, Spain		Chitosan-cinnamaldehyde gels as antimicrobial tools against biodeterioration in cultural heritage
5	Henry Chijcheapaza-Flores Lille University, France		Development and assessment of a chitosan/polymer of β-cyclodextrin hydrogel for viscosupplementation and drug delivery in osteoarthritis
6	Ivy Ann Razonado IMP/Lyon University, Villeurbanne, France		Wet spinning of zirconium phosphate-loaded chitosan fibers
7	Jana Mounzer LAGEPP/Lyon University, Villeurbanne, France		Microfluidic preparation of chitosan nanoparticles with either negative or positive surface charge
8	Karol Kłosiński Lodz Medical University, Poland		From biopolymers to neuroprotection: Emerging biomaterial platforms for neurodegenerative disease therapy
9	Kathirvel Ganesan DLR, Cologne, Germany		Facile preparation of polyethylene glycol-functionalized chitosan aerogel particles
10	Katja Richter Hepepe Medical Chitosan GmbH, Halle, Germany		Development of chitosan standard for molecular weight measurements
11	Lia Pérez Rostgaard MPI, Potsdam, Germany	X	Synthesis of well-defined monofluorinated chitin oligomers
12	Łukasz Wujcicki PoISl, Gliwice, Poland		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	X	Synthesis of chitosan-based microgels as tunable carriers for RNA delivery in plants
14	Matthias Behr Leipzig University, Germany	X	Morphology and 3D ultrastructure of the chitinous matrix of <i>Drosophila</i> larvae
15	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
16	Ranjana Thachangade Torun University, Poland		Chemical modification of chitosan with maleic anhydride and glycerin for tunable biomedical applications
17	Shaghayegh Jahangir Bayreuth University, Germany		Biomaterialized chitosan scaffolds and 3D bioprinting for applications in 3D cell culture and tissue engineering
18	Sina Nabil UKE, Hamburg, Germany	X	The role of chitosan in the intracellular survival and escape of <i>Cryptococcus neoformans</i> in monocytes
19	Sirikan Pongnan VISTEC, Rayong, Thailand		Crystal structure-based loop engineering of chitin oligosaccharide deacetylase from chitinolytic bacteria <i>Vibrio harveyi</i> (VhCOD)
20	Valentina Orlandi AIMPLAS, Paterna, Valencia, Spain		Chitin and chitosan: Trend in ecofriendly packaging solutions from a pilot-scale point of view
21	Vinolia Dmello TU Dresden, Germany	X	Mechanisms of chitin organisation in <i>Drosophila melanogaster</i> larvae
22	Xuanyu Dong LMU Munich, Germany	X	Exploring chitin sensing in olive