

International Conference on  
**Structural Biology and Mass  
Spectrometry 2021**

October 18-19, 2021 Hotel Mercure Roma West, Rome, Italy



## Conference Sessions:

All honorable authors, researchers, scientists and students are encouraged to contribute and help the shape of the Conference through submissions of their posters & research abstracts. Also, high quality research contributions describing Original and unpublished of conceptual, constructive, experimental or theoretical work in all areas of structural biology and mass spectrometry are warmly invited to exhibit their product at the conference.

- Structural Biology
- Mass Spectrometry
- Crystallography
- NMR Methods
- 3D Structure Determination
- Proteomics
- Bioinformatics
- Biophysics
- Cancer Science
- Structural Biology Complexity Arenas
- Structural Biology Databases
- Glycobiology and Glycoconjugates
- Frontiers in Structural Biology
- Crystallography Techniques
- Molecular Modelling and Dynamics
- Structural Enzymology
- Sequencing Analysis
- Molecular Modelling and Dynamics
- Cancer Therapy
- Protein Structure Prediction
- Structural Biology Databases
- Structural Biology in Diseases and Therapeutics

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### Speaker Slots Available

**NOTE:** Program Schedule is subject to change with final allotment of the speaker slots

## Few of our Presentations @ Structural Biology 2021

Title: Effect of temperature on photochemical and thermal changes in calf skin collagen solutions at physiological pH

Julian M Menter, Morehouse School of Medicine, USA

Title: Structures and dynamics of nucleosomes and chromatosomes studied by Cryo-EM and NMR

Yawen Bai, National Cancer Institute, USA

Title: The centers of premeltons signal the beginning and ends of genes

Henry M Sobell, University of Rochester, USA

Title: Cryo-em and X-ray free electron laser enabled structure based drug discovery on challenging membrane protein targets

Michael Hennig, leadXpro AG, Switzerland

Title: Discovering chemical solutions for neurodegeneration with the sweet molecules of life

Amelia P Rauter, University of Lisbon, Portugal

Title: Lateral pressure affects intra-membrane protein hydration: A quest for membrane-mimetic systems

Karim Fahmy, University of Dresden, Germany

Title: Antimicrobial agents from sugars embodying a conjugated carbonyl system: Synthesis and bioactivity studies

Jorge Justino, Polytechnic Institute of Santarem, Portugal

Title: Structural and functional characterization of TgpA, a critical protein for the viability of *Pseudomonas aeruginosa*



Mario Milani, National Research Council, Italy

Title: Advanced regularization and Bayesian methods in biological imaging

Ali Mohammad Djafari, CNRS, France

Title: Structure of A $\beta$ (1-42) tetramers and octamers and their mechanism of membrane disruption

Eduard Puig, Institute for Research in Biomedicine, Spain

Title: Type I and II BIR domains inhibitors in cancer therapy

Eloise Mastrangelo, University of Milan, Italy

Title: Therapeutic ketosis and the broad field of applications for the ketogenic diet: Ketone ester applications and clinical updates

Raffaele Pilla, St. John of God Hospital, Italy

Title: Introducing the sorush cancer treatment protocol (Sctp)

Sorush Niknamian, Liberty University, USA

Title: Analysis of oligosaccharide binding to LysM domains of KEG15107

Azura Mohd Noor, Institute for Medical Research, Malaysia

Title: Specific glycosilation of copper containing glycoproteins

Pavlina Dolashka, Bulgarian Academy of Sciences, Bulgaria

Title: Determination of N-glycans of hemocyanin *Helix lucorum* isolated from garden snail by tandem mass spectrometry

Lyudmila Velkova, Bulgarian Academy of Sciences, Bulgaria



Title: How to structure the debate on Modern Biotechnology?

Niklaus Ammann, Bern University, Switzerland

Title: Proteomic analysis of intracellular extracts of *Saccharomyces cerevisiae* treated with toxins in both Log and stationary phase

Asya Vladimirova Daskalova, Bulgarian Academy of Sciences, Bulgaria

Title: Glycosylation profiling of biotherapeutics using lectin binding by SPR

Wei Wang, Amgen Inc., USA

Title: Hexofuranosides, chemistry and biocatalysis. From UDP-Galf to anti-adhesive surface

Vincent Ferrieres, National School of Chemistry of Rennes, France

Title: Development of a reverse lectin ELISA for detecting fucosylated forms of  $\alpha$ -1-acid glycoprotein associated with hepatocellular carcinoma

Eva Astrom, Linkoping University, Sweden

Title: Development of 2-Deoxy-D-glucose alternatives in cancer therapeutics

Fidelis Ndombera, Wayne State University, USA

Title: Role of galectin-3 in bone and fat cell differentiation: implications for bone and adipose tissue development, metabolism and function

Giuseppe Pugliese, La Sapienza University, Italy

Title: Golgi apparatus dynamics and function in proteoglycan synthesis

Kristian Prydz, University of Oslo, Norway



Title: Ex-vivo evaluation of intestinal permeability-enhancing effects of mono-esterified sugar based surfactants

Luca Casettari, University of Urbino, Italy

Title: Cross-modulation of protein-protein and protein-glycan interactions is required for galectin functions

Francoise Guerlesquin, CNRS, France

Title: Generation of long acting therapies using glycosylated linkers

Abdulrahman Alshehri, Security Forces Hospital, Saudi Arabia

Title: Galactosylceramide (GalCer) acts as an anti-apoptotic molecule and increases the resistance of breast cancer cells to microenvironmental stressors and anti-cancer drugs

Maciej Ugorski, Wroclaw University of Environmental and Life Sciences, Poland

Title: Integrated Proteomics, genomics and glycomics approaches in prostate pathocarcinogenesis

Leonora V. Autus Geniston, Saint Paul University Quezon City, Philippines

Title: Antitumor effect of hemocyanins from garden snail *Helix lucorum* against tumor cell line 24

Dimitar Ivanov Kaynarov, Bulgarian Academy of Sciences, Bulgaria

Title: Changes in spexin levels are influenced by the presence or absence of gestational diabetes in pregnant subjects

Nasser M. Al-Daghri, King Saud University, Saudi Arabia

Title: Interaction of hyaluronan with its receptors CD44 and RHAMM: Implications on tumor growth



Silvia E Hajos, University of Buenos Aires, Argentina

Title: Self-amplifying replicon RNA delivery to dendritic cells

Thomas Demoulins, University of Bern, Switzerland

Title: Glycoconjugate metabolism: A common player for different brain disorders

Vittorio Maglione, Centre for Neurogenetics and Rare Diseases, Italy

Title: Glycomics-based biomarkers : a sweet alternative for biomarker development in liver transplantation

Xavier Verhelst, Ghent University Hospital, Belgium

Title: Components from inter alpha trypsin inhibitor protein-glycosaminoglycan-protein complexes mediating the binding to the domain III from envelope protein of Dengue Virus

Dayron Martín Prieto, Center for Genetic Engineering and Biotechnology, Cuba

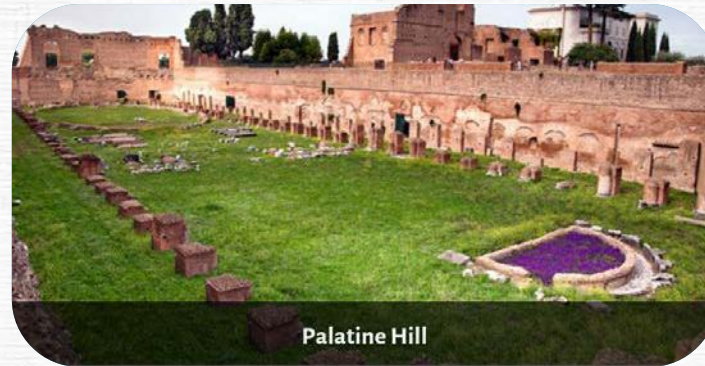
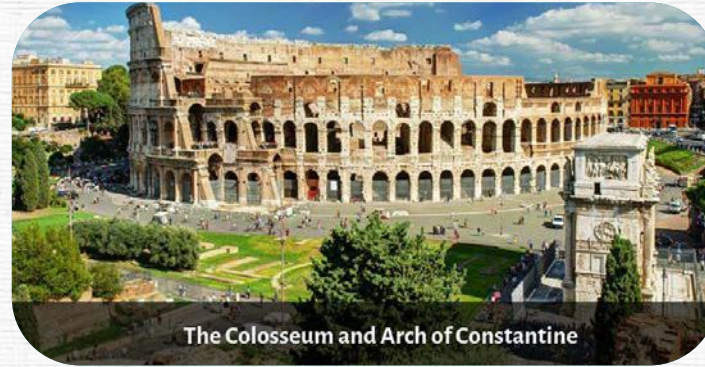
Title: Glycoengineering ECM-proteins: a new tool for driving cell fate in regenerative medicine

Laura Cipolla, University of Milano-Bicocca, Italy

**Speaker/Poster/Delegate slots are available @ Structural Biology 2021**



## City Attractions





## Venue

Hotel Mercure Roma West  
Viale Eroi di Cefalonia  
30100128 Roma RM, Italy

Rome is a city and special commune in Italy. Rome is the capital of Italy and also the homonymous province and of the region of Lazio. With 2.7 million residents in 1,285.3 km<sup>2</sup> (496.3 sq mi), it is also the country's largest and most populated commune and fourth-most populous city in the European Union by population within city limits. The urban area of Rome extends beyond the administrative city limits with a population of around 3.8 million. Between 3.2 and 4.2 million people live in Rome metropolitan area. The city is located in the central-western portion of the Italian Peninsula, on the Tiber within Lazio (Latium). Rome is the only city in the world to contain in its interior a whole state; the enclave of Vatican City.

## Contact us

### Structural Biology Committee

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Vatican City

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