



IX Biennial Baltic Meeting on Microbial Carbohydrates (BMMC)
Naples, ITALY; July 27-29, 2022

General Information

9th Biennial Meeting on Microbial Carbohydrates

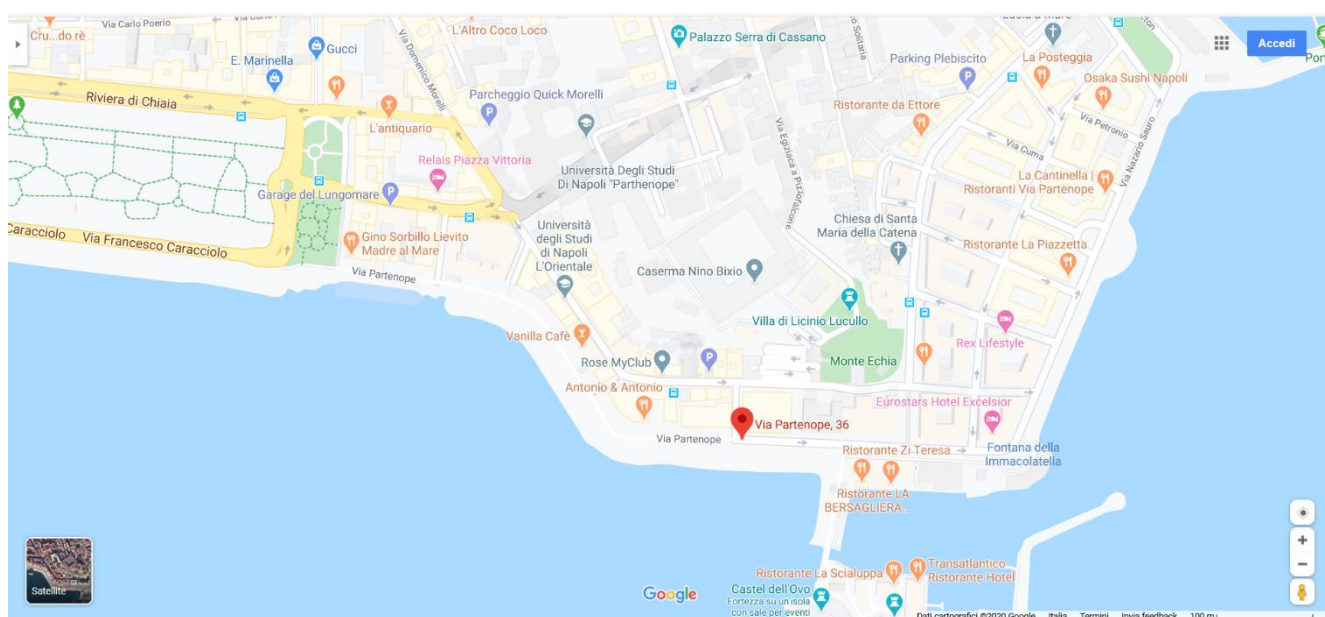
Types of Contributions

Invited Lecture: 50 minutes (including 5-10 minutes for questions)

Oral Communication (OC): 20 minutes (including 5 minutes for questions)

Flash Communications (FC): 4 minutes (questions to be saved for the poster session)

Meeting Venue: Aula Partenope, Via Partenope 36



Congress Web Site: <http://www.bmmc2020.org>

Organizing Secretariat: YES Meet - Phone: +39 081 8770604 - Fax: +39 081 8770258



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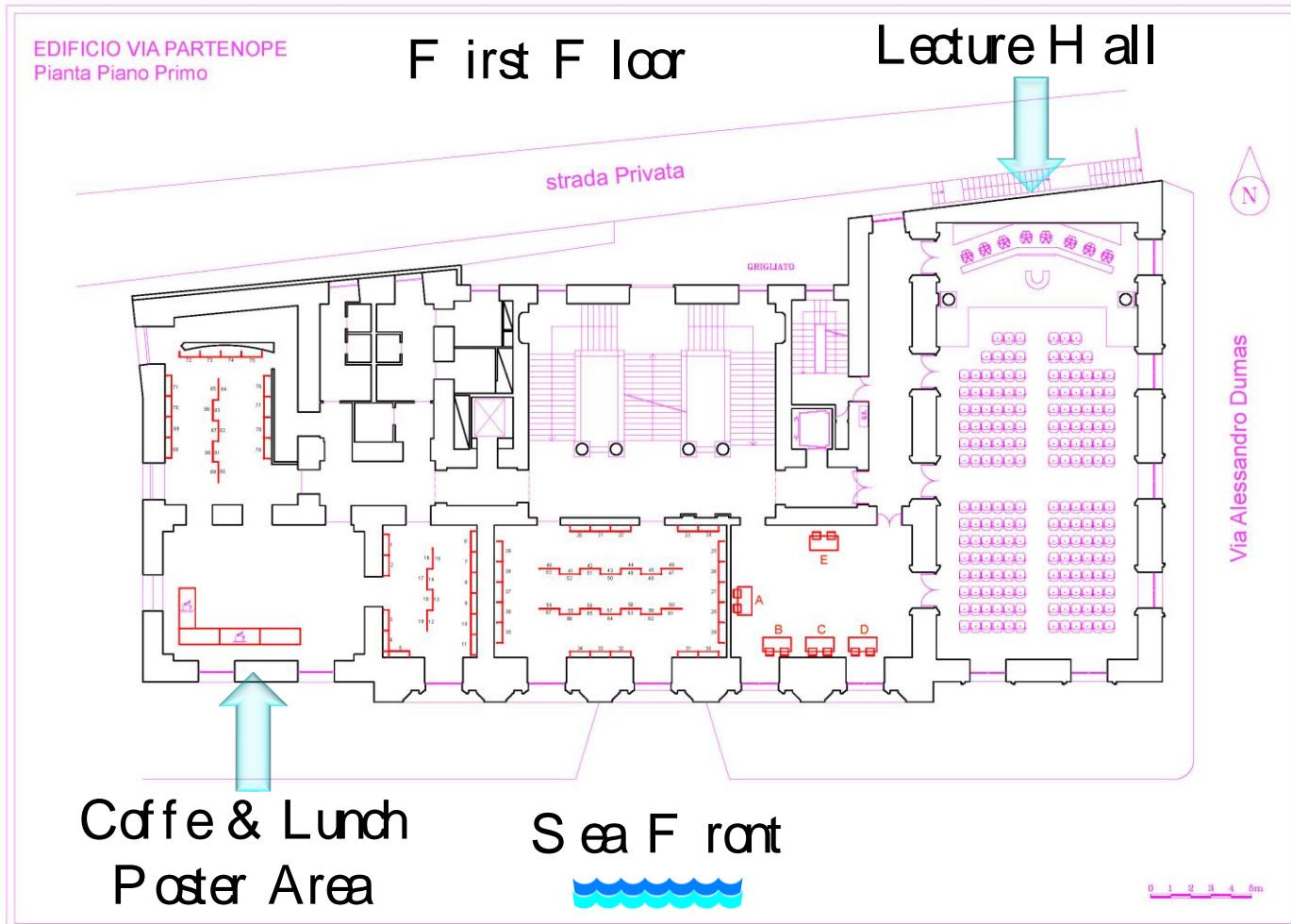
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Social Events

The Welcome Cocktail Party will be held at the **Hotel Royal Continental** on July 27 at 19.00-20.30.

The social dinner will be at the restaurant "**Il Transatlantico**" on July 28, starting at 20.30.





Scientific Programme

Wednesday, July 27			
9.00-9.30	Registration		
9.30 – 9.40	Opening		
9.40-10.30	Oral Session #1: CAZYMES INTO ACTION Chairs: prof. Marcelo Guerin and prof. Alla Zamyatina Invited Lecture: Prof. Chris Whitfield, University of Guelph. THE BIOSYNTHETIC ORIGIN OF RIBOFURANOSE IN BACTERIAL POLYSACCHARIDES.		
10.30-10.50	OC1 T. Fiebig: ENZYMATIC STRATEGIES FOR THE SYNTHESIS OF PHOSPHATE-CONTAINING CAPSULE POLYMERS FROM GRAM-NEGATIVE PATHOGENS		
10.50-11.20	Coffee break		
11.20-11.40	OC2 P. Cescutti: THE BEPA-L GENE CLUSTER IN <i>BURKHOLDERIA CENOCEPACIA</i> H111 ENCODES A WATER-INSOLUBLE POLYSACCHARIDE ESSENTIAL FOR BIOFILM FORMATION		
11.40-12.00	OC3 Z. Su Ziylan: IN VITRO ENZYMATIC LABELLING OF HMW1 ADHESIN USING AZIDO-GLUCOSE MOIETIES		
12.00-12.20	OC4 M. Ferrari: GENERATION OF NOVEL DONORS FOR TRANSGLYCOSYLATION BY GLYCOSIDASES		
12.20-13.00	FC1 S. Ahmadipour	FC2 F. Carboni	FC3 P. Czyszczon
	FC4 F. Esposito	FC5 J. Schulze	FC6 J. E. Lloyd
	FC7 M.C. Forgione	FC8 O. Gamboa	FC9 T. Gerpe Amor
13.00-14.00	Lunch break		
14.00-14.50	Oral Session #2: GLYCANS: THE KEY PLAYERS IN RECOGNITION PROCESSES Chairs: Prof. Chris Whitfield and prof. Alba Silipo Invited Lecture: Prof. Marcelo Guerin, Biocruces Health Research Institute SCULPTING THERAPEUTIC MONOCLONAL ANTIBODY N-GLYCANS USING ENDOGLYCOSIDASES		
14.50-15.10	OC5 R. Woods: THE ROLE OF SPIKE PROTEIN GLYCOSYLATION IN MODULATING SARS-COV-2 ANTIGENICITY AND ADHESION		
15.10-15.30	OC6 C. Di Carluccio: MOLECULAR DETAILS OF N- AND O-GLYCANS RECOGNITION BY SIGLEC-LIKE ADHESINS FROM <i>STREPTOCOCCUS GORDONII</i> AND <i>MITIS</i> .		
15.30-15.50	OC7 R. Marchetti: WALL TEICHOIC ACID IN <i>STAPHYLOCOCCUS AUREUS</i> HOST INTERACTION.		
15.50-16.20	Coffee break		
16.20-16.40	OC8 F. Nieto-Fabregat: GRAM-NEGATIVE BACTERIA LPS RECOGNITION BY HUMAN LECTINS: THE CASE OF DC-SIGN		
16.40-17.00	OC9 S. Martin-Santamaria: IMMUNOMODULATION BY ATYPICAL LIPOPOLYSACCHARIDES AND GLYCOLIPIDS: TLR4 AND TLR2 IN ACTION AND WHAT COMPUTATIONAL CHEMISTRY REVEALS		
17.00-17.20	OC10 A. Matamoros-Recio: DYNAMIC PROPERTIES OF RESISTANT GRAM-NEGATIVE BACTERIAL MEMBRANES. INFECTION FROM THE COMPUTATIONAL SIDE		
17.20-17.50	FC10 C. Giannelli	FC11 K. Zbigniew	FC12 M. Kaszowska
	FC13 S. Koj	FC14 R. Lopez	FC15 A. Marseglia
	FC16 D. Bengtsson		
19.00–20.30	Welcome Cocktail at the HOTEL ROYAL CONTINENTAL		



Scientific Programme

Thursday, July 28	
9.00-9.10	Communications from the Organizers
9.10-10.00	Oral Session #3: GLYCANS DIVERSITY: NEW AVENUES TO EXPLORE & EXPLOIT Chairs: prof. Stefan Oscarson and prof. Flaviana Di Lorenzo Invited Lecture: prof. Roberto Adamo, GSK Vaccines STRUCTURE GUIDED GLYCOCONJUGATE VACCINE DESIGN
10.00-10.20	OC11 F. Chiodo: CARBOHYDRATE-MEDIATED CONSIDERATIONS IN DESIGNING VACCINES AGAINST <i>S. PNEUMONIAE</i> AND SARS-COV-2
10.20-10.40	OC12 F. Micoli: RAPID GENERATION OF <i>SHIGELLA FLEXNERI</i> GMMA DISPLAYING NATURAL OR NEW AND CROSS-REACTIVE O-ANTIGENS
10.40-11.00	OC13 L. Mulard: TOWARDS A BROAD COVERAGE SYNTHETIC GLYCAN-BASED VACCINE CANDIDATE AGAINST <i>SHIGELLA FLEXNERI</i> : CHEMICAL AND ENZYMATIC SYNTHESIS INTO PLAY
11.00-11.30	Coffee break
11.30-11.50	OC14 P. Toukach: 3D STRUCTURES IN CARBOHYDRATE STRUCTURE DATABASE
11.50-12.10	OC15 E. Egorova: CSDB_GT – A DATABASE ON GLYCOSYLTRANSFERASES FROM <i>ARABIDOPSIS THALIANA</i> , <i>ESCHERICHIA COLI</i> AND <i>SACCHAROMYCES CEREVISIAE</i>
12.10-12.30	OC16 J. Lukasiewicz: O-ANTIGEN VARIABILITY AMONG CLINICAL ISOLATES OF <i>KLEBSIELLA PNEUMONIAE</i> – STRUCTURAL AND GENETIC ANALYSES
12.30-12.50	OC17 N. Ravencroft: NMR FINGERPRINTING OF GROUP B <i>STREPTOCOCCUS</i> POLYSACCHARIDE ANTIGENS TO FACILITATE VACCINE DEVELOPMENT.
12.50-13.05	FC17 M. Tiemblo FC18 K. Ucieklak FC19 A. Vanacore
13.05-14.05	Lunch break
14.05-15.40	Coffee break & Poster session
15.40-16.30	Oral Session #4: THE SHADES OF SWEETNESS: FROM FUNGI TO EXTREMOPHILES Chairs: prof. Roberto Adamo and prof. Roberta Marchetti Invited Lecture: Prof. Stefan Oscarson, University College Dublin. IDENTIFICATION OF PROTECTIVE EPITOPES IN <i>CRYPTOCOCCUS NEOFORMANS</i> CAPSULAR POLYSACCHARIDES
16.30-16.50	OC18 A. Notaro: THE HYPERTHERMOPHILIC ARCHAEON <i>THERMOCOCCUS KODAKARENSIS</i> IS COVERED WITH UNIQUE GLYCANS.
16.50-17.10	OC19 A. Casillo: CAPSULAR POLYSACCHARIDE FROM THE EMVs AND THE CELLS OF THE COLD-ADAPTED BACTERIUM <i>SHEWANELLA VESICULOSA</i> HM13
17.10-17.30	OC20 S. Armiento: <i>BACILLUS SUBTILIS</i> POLYSACCHARIDES: FROM STRUCTURAL CHEMICAL CHARACTERIZATION TO BIOLOGICAL ACTIVITY
17.30-17.50	OC21 M. E. Haskoylu: BIOACTIVE EXOPOLYMER OF <i>CHROMOHALOBACTER CANADENSIS</i> 28 FOR SKIN TISSUE ENGINEERING AND COSMECEUTICAL APPLICATIONS
20.30 -	Social Dinner at the restaurant “IL TRANSATLANTICO”



Scientific Programme

Friday, July 29	
9.00-9.10	Communications from the Organizers
Oral session #5: GLYCANS IN IMMUNE PERCEPTION: FRIENDS OR FOES?	
Chairs: prof. Antonio Molinaro and prof. Sonsoles Martin Santamaria	
9.10-10.00	Invited Lecture: prof. Koichi Fukase, Osaka University SYNTHESIS AND BIOFUNCTIONAL STUDIES OF MICROBIAL GLYCANS
10.00-10.20	OC22 A. Zamyatina: SYNTHESIS OF NONREDUCING DISACCHARIDES AS SCAFFOLDS FOR IMMUNOMODULATORS TARGETING LPS-RECOGNIZING RECEPTORS.
10.20-10.40	OC23 D. Artyszuk: MORPHOLOGY AND CARBOHYDRATE SURFACE ANTIGENS OF <i>FLAVONIFRACTOR PLAUTII</i> PCM 3108
10.40-11.00	OC24 B. Bellich: CAPSULAR POLYSACCHARIDE FROM <i>KLEBSIELLA PNEUMONIAE</i> KP8-1: A MORPHOLOGICAL INVESTIGATION
11.00-11.30	Coffee break
11.30-11.50	OC25 F. Di Lorenzo: LIPOPOLYSACCHARIDES FROM GUT MICROBIOTA: IS IT TIME FOR A PARADIGM SHIFT?
11.50-12.10	OC26 G. Bisson: IDENTIFICATION AND BIOACTIVITIES OF A NOVEL EPS PRODUCED BY <i>LEUCONOSTOC MENTEROIDES</i>
12.10-12.30	OC27 A. Kowalczyk: THE CHEMICAL STRUCTURE OF O-POLYSACCHARIDE ISOLATED FROM <i>PECTOBACTERIUM AQUATICUM</i> IFB5637.
12.30-12.50	OC28 M. Pither: ELUCIDATION OF THE CHEMICAL STRUCTURE OF LIPOPOLYSACCHARIDES ISOLATED FROM THE GUT BACTERIA <i>VEILLONELLA PARVULA</i> AND <i>BACTEROIDES THETAHOTAMICRON</i>
12.50-13.00	Closing remarks