

Programme

Sunday 23 June

14:30-16:30	Registration	Foyer
16:30-17:00	Selected flash talks (5 min)	Ambassadeur
	Chair: Conor Meehan	
	Tiago Beites , <i>Porto, Portugal i3S - Instituto de Investigação e Inovação em Sau Universidade do Porto</i> <u>P001</u> Unrestrained long-chain fatty acid catabolism kills Mycobacterium tubercu	
	Clara Aguilar Pérez, Johnson & Johnson <u>P002</u> Insights into the use of cytochrome Bc inhibitors for future therapeutic stra tuberculosis	tegies for
	Melanie Grobebelaar, Faculty of Medicine and Health Sciences, Stellenbosch (<u>P003</u> X-ray-based 3D histology of the human tongue and its coating using contr microCT imaging	
	Tania Silva, <i>i3S - Instituto de Investigação e Inovação em Saúde da Universida</i> <u>P004</u> The dependence of bacterial growth phase on Mycobacterium-Macrophag	
	Onya Opota , <i>Lausanne University Hospital</i> <u>P005</u> Enhancing tuberculosis diagnosis with a mathematical model integrating n histories and patient-specific factors	nolecular test
17:00-19:00	Opening session	Ambassadeur
	Chairs: Troels Lillebaek, Leen Rigouts	
	Welcome words, ESM and congress Presidents	
	Opening Keynote Wouter Arrazola de Onata, Public health director BELTA - VRGT, Vlaamse Ve Respiratoire Gezondheidszorg en Tuberculosebestrijding <u>GL01</u> TB in Belgium and BELTA-TBNet	reniging voor
	Gertrud Meissner Award presented by S. Niemann Galo Goig, Swiss Tropical and Public Health Institute, Basel <u>GL02</u>	
	Gardner Middlebrook Award presented by BD Lalita Ramakrishnan, <i>MRC Laboratory of Molecular Biology; Cambridge Unive</i> <u>GL03</u> Lessons for Tuberculosis Treatment from the Zebrafish	rsity Hospital
19:00-21:30	Networking drinks and light dinner snacks	Witte Roos

Monday 24 June

08:00-08:30	Registration	
08:30-10:30	Session 2: Non-tuberculous mycobacteria (NTM) disease and treatment	Ambassadeur
	Chairs: Troels Lillebaek, Leen Rigouts	
	Emmanuelle Cambau , <i>University of Paris</i> <u>GL04</u> State-of-the-art lecture on challenges with phenotypic and genotypic tents. NTMs	esting in the field of
	Winston Chiu, <i>KU Leuven</i> OR01 A novel, high-content imaging based approach towards antibiotic drug tuberculous mycobacteria	discovery for non-
	Tim Peto , <i>University of Oxford</i> <u>OR02</u> GPAS: evaluation of mycobacterial species identification of 7798 MGI	T samples
	Round table discussion "Phenotypic and genotypic speciation and DST in ma NTM lung disease" Margo Diricks, <i>Borstel Research Institute</i>	anagement of
	Natalie Lorent, University of Leuven	
	Pere-Joan Cardona Iglesias, Hospital Universitari Germans Trias i Pujol, B Sng Li Hwei, Singapore General Hospital, Singapore	arcelona
	Fanourios Kontos, University of Athens	
	Arjan van Laarhoven, Radboud University Nijmegen	
10:30-11:00	Coffee Break	Witte Roos
11:00-12:20	Session 3: TB treatment: past / current / future	Ambassadeur
	Chair: Bouke De Jong	
	Alberto Piubello, Damien Foundation, Niamey, Niger <u>GL05</u> The pathway to the ideal DR-TB treatment: safe, effective, short and a acquired resistance	able to prevent
	Hanif Esmail, <i>University College London</i> <u>GL06</u> Paradigm4tb project	
	Joanna Evans <i>The Francis Crick Institute, London</i> OR03 Towards restoring antibiotic sensitivity in Mycobacterium tuberculosis bacteriophages	using
	Jihad Snobre , <i>Institute of Tropical Medicine, Antwerp</i> <u>OR04</u> Safety of high-dose amikacin in the first week of all-oral rifampicin-resident for the prevention of acquired resistance	stant tuberculosis
12:20-12:55	Poster pitches - Session 1	Ambassadeur
	Chair: Annelies van Rie	
	1 minute per poster (P06 to P30)	
12:55-13:45	Lunch	Witte Roos



14:45-15:45	Session 4: Innovative new diagnostics Ambassad Chairs: Praha Rupasinghe, Richard Anthony Image: Chairs: Praha Rupasinghe, Richard Anthony Morten Ruhwald, FIND; Geneva Image: Chairs: Chairs: What's hot in the pipeline? Veronique Suttels, Lausanne University Hospital Image: Chairs: Chai	
	Rouxjeanne Venter , <i>Stellenbosch University</i> <u>OR06</u> Use of a modified face mask and liquid-based cough aerosol sampling system to measure the infectiousness of drug-resistant tuberculosis patients	
	C M Crovara Pesce , <i>Universitaria di Bologna</i> <u>OR07</u> Pluslife MTBC Card: a new rapid diagnostic tool for management of pulmonary TB patients	
15:45-16:20	Poster pitches - Session 2AmbassadChair: Annelies van Rie11 minute per poster (P31-P55)	leur
16:20-16:50	Coffee Break Witte R	005
16:50-18:30	Session 5: WGS to guide public health interventions Ambassadeur Chairs: Conor Meehan, Claude Semuto Ngabonziza Etthel Windels, ETH Zürich, Basel GL08 Unlocking the potential of phylodynamic birth-death models: Opportunities and challenges in TB epidemiology Stefan Niemann, Borstel Research Institute GL09 GL09 Whole genome sequencing to inform tuberculosis control in high endemic countries Dario Garcia De Viedma, Instituto de Investigación Gregorio Marañon, Madrid GL10 Whole genome sequencing to guide TB control in a European context: experience from Spain Richard Anthony, National Institute for Public Health and the Environment, Bilthoven OR08 OR08 Routine whole genome sequencing of Mycobacterium tuberculosis when the consensus in not enough Ana Maria García-Marín, Instituto de Biomedicina de Valencia (IBV-CSIC), València OR09 Genomic epidemiology of tuberculosis using long-read sequencing to increase resolution of transmission clusters	
19:00	Guided tour and traditional dinner	



Tuesday 25 June

08:00-08:30	Registration	Foyer
08:30-10:20	Session 6: Host-pathogen interaction and vaccines	Ambassadeur
	Chairs: Tim Walker, Inaki Comas	
	Carlos Martin, Zaragoza University, Spain <u>GL11</u> MTBVAC: A molecular Pasteurian approach to tuberculosis vaccin among the new technology vaccine platforms	nes in clinical trials
	Stefan Schille, <i>BionTech, Germany</i> <u>GL12</u> BNT164: Preclinical development of two mRNA-based tuberculos candidates.	is vaccine
	Klaas Dewaele, Institute of Tropical Medicine, Antwerp OR10 Conservation of M72/AS01E vaccine epitopes in 31,428 Mycobac isolates	cterium tuberculosis
	Marta Arch, <i>Germans Trias i Pujol Research Institute and Hospital, Bact</i> OR11 Deciphering Tuberculosis host-pathogen coevolution using Droso as a model system	
	Daniela Brites , <i>Swiss Tropical and Public Health Institute</i> <u>OR12</u> Host and Pathogen Determinants of TB Disease and Transmissic and Pathogen Determinants of TB Disease and Transmission in Tanzan	
	Pablo Soldevilla, Germans Trias i Pujol Research Institute and Hospita OR13 Sex and progression towards active TB in an experimental mouse stress-induced glucocorticoids and intermittent fasting	
	Marta Caballer-Gual, Universidad de València OR14 Unraveling host-specific in vitro virulence profiles of Mycobacteriu ecotypes.	ım tuberculosis
10:20-10:50	Coffee Break	Witte Roos
10:50-12:10	Session 7: TB treatment: forgiveness	Ambassadeur
	Chair: Bouke De Jong	
	Tom Decroo , <i>Institute of Tropical Medicine, Antwerp</i> <u>GL13</u> Effect of regimen composition on acquired resistance	
	Annelies Van Rie, <i>Antwerp University</i> <u>GL14</u> WGS-guided RR-TB care and prevention to save lives and preser	ve regimens
	Jennefer Wetzel , <i>J&J Innovative Medicine - Global Public Health</i> <u>OR15</u> Inhibition of menaquinone biosynthesis results in re-sensitization resistant Mycobacterium tuberculosis	of Bedaquiline
12:10-12:45	Poster pitches - Session 3	Ambassadeur
	Chair: Annelies van Rie	
	1 minute per poster (P56 - P80)	
12:45-13:45	Lunch	Witte Roos
13:45-14:45	Poster Session 2	Beethoven / Vives

14:45-16:05	Session 8: One Health Chairs: Anzaan Dippenaar, Daniela Brites	Ambassadeur
	Michele Miller, <i>NRF South African Research Chair (SARChI) in Animal TB</i> <u>GL15</u> Tackling the Tip of the Iceberg – Using a One Health Approach to Tube	erculosis
	Verena Schuenemann, <i>University of Basel</i> <u>GL16</u> One health approaches to trace M. leprae's zoonotic potential through	time
	Mireia Coscolla, Institute for integrative systems biology OR16 In vitro host gene expression profiles in cross-infections of Mycobacter tuberculosis ecotypes	ium
	Andrei Gabrielian <u>OR17</u> Democratizing education and research for new generation of medical p TB Portals data and resources	professionals:
16:05-16:35	Coffee Break	Witte Roos
16:35-17:45	Session 9: Rapid genotypic and phenotypic drug-susceptibility testing for clinical decision making	Ambassadeur
	Chairs: Elisa Ardizonni, Andrea Cabbibe	
	Shelley E. Haydel, <i>Biodesign Institute, Arizona State University, USA</i> <u>GL17</u> Large volume scattering imaging technology for rapid mycobacterial ph susceptibility testing	enotypic drug
	Dylan Adlard , <i>University of Oxford</i> <u>OR18</u> Reproducible algorithmic generation of resistance catalogues improves prediction for bedaquiline in M. tuberculosis	s resistance
	Morwan Osman , <i>University of York, UK</i> <u>OR19</u> Remission cytochrome spectroscopy reveals the mode of action of bec living mycobacteria	daquiline in
	Isabel Cuella-Martin, <i>Institute of Tropical Medicine, Antwerp</i> <u>OR20</u> Nationwide evaluation of Xpert MTB/RIF Ultra reveals challenges in ac diagnosis of rifampicin-resistant tuberculosis	curate
	Philip Supply , <i>GenoScreen, Lille</i> <u>OR21</u> Closing the diagnostic gap for the BPaLM treatment regimen with tNGS Myc-TB XL.	S: Deeplex
17:45	General Assembly	
19:00	Social activity: Dinner and party	



Wednesday 26 June

08:30-09:00	Registration	Foyer
09:00-10:30	Session 10: History of mycobacterial pathogens Amba	assadeur
	Chairs: Mireia Coscolla, Mattias Merker	
	Rein Houben, <i>London School of Hygiene and Tropical Medicine</i> <u>GL18</u> The (re)discovery of the spectrum of TB	
	Kirsten Bos , <i>Max Planck Institute for Evolutionary Anthropology</i> <u>GL19</u> Genomic studies of tuberculosis in archaeological bone	
	Thierry Wirth, <i>Ecole Pratiques des Hautes Etudes, Paris</i> <u>OR22</u> Unveiling the Drivers of Mycobacterium tuberculosis Lineage 2 success: An Integrative Approach	
	Álvaro Chiner-Oms, <i>FISABIO-Public Health</i> <u>OR23</u> Delving deeper into the evolution of drug resistance	
	Emma Roycroft , Irish Mycobacteria laboratory, Trinity College, Dublin <u>OR24</u> First evidence of pyrazinamide-susceptible Mycobacterium bovis, sub-lineage in Ireland	La1.1,
10:30-11:00	Coffee Break Wi	tte Roos
11:00-12:20	Session 11: Mycobacterium tuberculosis machinery Amba	ssadeur
	Chairs: Mattias Merker, Christophe Sola	
	Edith Houben, <i>Vrije Universiteit Amsterdam</i> <u>GL20</u> Type VII secretion systems: structure, functioning and roles in pathogenic mycobacteria	
	Jorge Alberto Cardenas-Pestana, Universidad de Zaragoza OR25 Mycobacterium tuberculosis (Mtb) transcriptional adaptations to growth arrests unveiling the role of iron and carbon sources	
	Annemarie Hintz-Rüter, Research Center Borstel Leibniz Lung Centre OR26 Rifampicin tolerance in Mycobacterium tuberculosis complex strains	
	Federico Di Marco , <i>San Raffaele Scientific Institute, Milan</i> <u>OR27</u> Spatial dual host-bacterial gene expression to study pathogenesis and the reg of virulence factors in tissue during NTM respiratory infections	ulation
	Ori Solomon , <i>McGill University</i> <u>OR28</u> Drivers of levofloxacin resistance in a high MDR-TB incidence country.	
	Lindsay Sonnenkalb, <i>Research Center Borstel Leibniz Lung Centre</i> <u>OR29</u> Using long term evolution models to define drug resistance mechanisms to DE a novel tuberculosis drug candidate	DU209,
12:20-13:30	Lunch	itte Roos
13:30-15:00	Session 12: Advancements in modelling and data integration Amba	ssadeur
	Chair: Annelies Van Rie, Viola Dreyer	
	Oren Tzfadia , <i>Institute of Tropical Medicine, Antwerp</i> <u>GL21</u> Integration of SNPs and 3D protein structures to highlight conserved regions in virulence mechanism of Mtb, which could serve as potential new vaccine target	n the
	Joaquín Sanz Remón, Zaragoza University GL22 Data drive assessment of MTB transmission in evolving demographic structure	es

	Guislaine Regrégier, Université Paris - Saclay OR30 Improving the benchmark of Mycobacterium tuberculosis variant calling protocols with in silico evolved genomes Rima Zein Eddine, Laboratory for Optics and Biosciences, École Polytechnique OR31 Mutator genotypes drive resistance to antibiotics in natural isolates of Mycobacterium tuberculosis
15:00-15:30	Poster Awards and Closing CeremonyAmbassadeurChairs: Troels Lillebaek, Leen RigoutsAmbassadeur
17:00	Social activity: Reception in the City Hall of Bruges offered by the City of Bruges



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