

ISSI 2018 PRELIMINARY PROGRAMME

THURSDAY 23 AUGUST 2018

Start	End	Presenter(s)	Title
12:00	13:30		REGISTRATION
13:30	13:30		WELCOME Chairs: Anders Rhod Larsen, Dorte Frees
13:30	13:40	Anders Rhod Larsen & Dorte Frees	Introduction and practical information
13:40	13:50	Henrik Wegener	TBA
13:50	14:00	Joseph John	The history of ISSI
14:00	14:45		KEYNOTE LECTURE Chairs: Anders Rhod Larsen, Dorte Frees
		Michael David	TBA
14:45	15:15		COFFEE BREAK & EXHIBITION
15:15	16:45		MRSA EPIDEMIOLOGY IN THE GENOMIC ERA Chairs: Mathew Holden, Co-Chairs: Mette Damkjær Bartels, Jesper Larsen
15:15	15:45	Matthew Holden	TBA
15:45	16:15	Alexander Mellmann	Evolution of <i>S. aureus</i> ST8
16:15	16:30	Geoffrey Coombs	What happens when CA-MRSA and LA-MRSA Collide
16:30	16:45	Eike Steining	O1: Emergence and global spread of a multidrug-resistant, community-associated MRSA lineage from the Indian subcontinent
16:45	18:00		SCCmec Chair: Yuki Uehara, Co-Chair: Anders Rhod Larsen
16:45	17:15	Yuki Uehara	SCCmec types nomenclature: history and future
17:15	17:35	Hülya Kaya	SCCmec typing using whole genome sequencing - pros and cons
17:35	17:55	Marc Stegger	SCCmec diversity and mobility across Staphylococci
18:00	19:00		POSTERS AND DRINKS
19:00	21:00		WELCOME RECEPTION (MAERSK TOWER)

FRIDAY 24 AUGUST 2018

Start	End	Presenter(s)	Title
09:00	10:15		STAPH IN THE MICROBIOME Chair: Bernhard Krismer, Co-Chair: Paal Skytt Andersen
09:00	09:30	Bernhard Krismer	Bacterial way of life in the human nose - a story about <i>Staphylococcus aureus</i> and its competitors
09:30	10:00	Cindy Liu	Examining nasal microbiome and <i>Staphylococcus aureus</i> nasal colonization using absolute abundance
10:00	10:15	Karen Moreau	O2: Deciphering the interactions between <i>S. aureus</i> and <i>P. aeruginosa</i> in a context of pulmonary co-infection in Cystic Fibrosis patients
10:15	11:00		OUTBREAK INVESTIGATIONS Chair: TBC, Co-Chairs: Mette Damkjær Bartels, Jesper Larsen
10:15	10:30	Xiaomei Yan	O3: Investigation of a staphylococcal food poisoning outbreak caused by ST398 strains
10:30	10:45	Bruno Pichon	O4: SnapperDB: an automated pipeline for whole-genome sequence based micro-epidemiological investigations and national surveillance of <i>Staphylococcus aureus</i>
10:45	11:00	Catherine Bennett	O5: Prevalence and transmission of <i>Staphylococcus aureus</i> and MRSA among Australian mothers and newborn infants in the first 4 weeks postpartum
11:00	11:30		COFFEE BREAK & EXHIBITION
11:30	13:15		PATHOGENESIS Chair: Ruth Massey, Co-Chair: Hanne Ingmer
11:30	12:00	Paul Fey	Function of urease in <i>S. aureus</i> niche colonization
12:00	12:30	Ruth Massey	Using genomics to understand the interplay between pathogenicity, virulence and antibiotic resistance
12:30	12:45	Natalia Bravo-Santano	O6: Hijacking of host cellular functions in <i>Staphylococcus aureus</i> infections
12:45	13:00	Suresh Panthee	O7: In-vivo transcriptomic analysis of <i>Staphylococcus aureus</i> from infected organs
13:00	13:15	Jakub Kwiecinski	O8: Signaling cascade ArlRS-MgrA regulates <i>S. aureus</i> linteraction with the host during skin infection
13:15	14:15		LUNCH BREAK & EXHIBITION

14:15	15:00		STAPH VS THE IMMUNE SYSTEM Chair: Barbara Böker, Co-Chair: Keira Melican
14:15	14:45	Barbara Bröker	Staphylococcus aureus' multifaceted interactions with the adaptive immune system
14:45	15:15	Bas Surewaard	Visualizing the Role of Alpha Toxin in Real Time During <i>Staphylococcus aureus</i> Sepsis
15:15	15:30	Minh-Thu Nguyen	O9: How commensal staphylococci adapt to our immune system
15:30	15:45	Søren Skov	O10: Selective induction of the programmed death 1 receptor on human t-cells by clinical staphylococcus aureus
15:45	16:00	Yuxi Zhao	O11: Staphylococcal superantigen-like protein 13 activates neutrophils via formyl peptide receptor 2
16:00	16:30		COFFEE BREAK & EXHIBITION
16:30	17:00		INDUSTRY SYMPOSIUM Chair: Robert Leo Skov
16:30	17:00	Alex van Belkum	Diagnosing <i>S. aureus</i> : from culture and API via PCR and MALDI TOF MS to WGS by NGS and metagenomics
17:00	18:00		POSTERS AND DRINKS
19:00	00:00		GALA DINNER (COPENHAGEN OPERA HOUSE)
SATURDAY 25 AUGUST 2018			
Start	End	Presenter(s)	Title
09:00	10:45		CHRONIC INFECTIONS AND BIOFILM Chair: Bettina Löffner, Co-Chair: Thomas Benfield
09:00	09:25	Bettina Löffner	TBA
09:25	09:50	Frederic Laurent	TBA
09:50	10:15	Ho Kwong	TBA
10:15	10:30	Louise Kruse Jensen	A porcine model of <i>S. aureus</i> implant-associated osteomyelitis
10:30	10:45	Logan Bulock	O12: Staphylococcus aureus biofilm development generates distinct metabolic niches
10:45	11:15		COFFEE BREAK & EXHIBITION
11:15	12:20		CoNS Chair: Georg Peters, Co-Chairs: Arshnee Moodley, Henrik Westh
11:15	11:40	Wilma Ziehburs	The advantage of being diverse: Riboregulators and the generation of heterogeneity in <i>Staphylococcus epidermidis</i> populations
11:40	12:05	Maria Miragaia	Insights into <i>Staphylococcus saprophyticus</i> population structure suggests animal origin of human urinary tract infections
12:05	12:20	Jean Lee	O13: Senomics reveals global emergence of near pan-drug resistant s. Epidermidis
12:20	13:00		WORKSHOP ON GENDER RESEARCH Chair: Keira Melican, Co-Chair: Dorte Frees
		Mathias Nielsen	Making gender diversity work for scientific discovery and innovation
13:00	14:00		LUNCH & EXHIBITION
14:00	15:30		RESISTANCE AND HOW TO FIGHT IT Chair: Andrew Edwards, Co-Chair: Robert Leo Skov
14:00	14:30	Andrew Edwards	Staphylococcal evasion of daptomycin and how to stop it
14:30	15:00	Ewan Harrison	TBA
15:00	15:15	Jih-Hang Jiang	O14: Antibiotic resistance and host immune evasion in staphylococcus aureus mediated by a novel metabolic adaptation
15:15	15:30	William Kelley	O15: Synergistic re-sensitization of staphylococcus aureus MRSA to beta-lactam antibiotics following dual disruption of extracellular chaperones
15:30	16:00		COFFEE BREAK & EXHIBITION
16:00	17:20		METABOLIC AND MOLECULAR INSIGHTS Chair: Daniel Lopez, Co-Chair: Dorte Frees
16:00	16:25	Daniel Lopez	Membrane Microdomain Disassembly Inhibits MRSA Antibiotic Resistance
16:25	16:45	Ana R. Pereira	Recruitment of peptidoglycan synthesis to midcell drives cell envelope constriction independent of FtsZ treadmilling
16:45	17:00	Yara Seif	O16: A multi-scale metabolic knowledge base and a derived computational model for s. aureus
17:00	17:15	Eliza Zalis	O17: Antibiotic tolerance mediated by low ATP in staphylococcus aureus
17:15	18:30		POSTERS AND DRINKS
19:30	00:00		FRIENDSHIP PARTY AT JACOBSEN BREW HOUSE - CARLSBERG

SUNDAY 26 AUGUST 2018

Start	End	Presenter(s)	Title
09:00	10:45		MICROBIAL EVOLUTION, ADAPTATION AND FITNESS Chair: Thierry Wirth, Co-Chair: Marc Stegger
09:00	09:30	Thierry Wirth	Niche specialization and spread of a multidrug-resistant <i>Staphylococcus capitis</i> clone involved in neonatal sepsis
09:30	10:00	Francois Vandenesch	TBA
10:00	10:15	Shilpa George	O18: Quorum sensing "cheaters" within <i>staphylococcus aureus</i> populations are selected under aerobic growth
10:15	10:30	Ahmed Moustafa	O19: The impact of acquired copper resistance loci on epidemic methicillin resistant <i>staphylococcus aureus</i> pathogenesis and spread
10:30	10:45	Gonzalo Yebra	O20: Massive gene decay and insertion sequence acquisition has shaped the evolutionary history of the host restricted <i>staphylococcus aureus</i> subsp. <i>Anaerobius</i>
10:45	11:15		COFFEE BREAK
11:15	12:45		NOVEL STRATEGIES TO COMBAT STAPHYLOCOCCI Chair: Heike Brötz-Österheld, Co-Chair: Hanne Ingmer
11:15	11:45	Heike Brötz-Österheld	CLP protease as a target for controlling <i>s. aureus</i>
11:45	12:15	Hao Wang	Dual Targeting Small Molecule inhibitors of the <i>Staphylococcus aureus</i> FMN Riboswitches Disrupt Riboflavin Homeostasis in an Infectious Model
12:15	12:30	Kayan Tam	O21: Fighting toxins with toxins: exploiting the leukocidins as potential targets for anti- <i>staphylococcus aureus</i> vaccine
12:30	12:45	M. Javad Aman	O22: Novel 5 component toxoid-based <i>staphylococcus aureus</i> vaccine ibt-v02 shows protective efficacy in pre-clinical mouse and rabbit studies
			SANDWICH AND FAREWELL