PROGRAMME

Sunday, 11th of March 2018

13:00 - 15:00	Bus leaves from Nice airport and arrival at Saint Tropez
15:00 - 14:45	Registration opening
15:45 - 16:00	Organisers welcome address
16:00 - 16:50	Opening lecture: title to be communicated
	Patricia Kiley (University of Wisconsin, USA)

Session I: Genetic regulation

16:50 - 17:10	Complexation of sensor kinase DcuS of <i>E. coli</i> by the transporters DctA, DcuB and DauA: physiological role of free and complexed DcuS in sensing
	Gottfried Unden (University of Mainz, Germany)
17:10 - 17:25	The non-coding RNA RyhB controls aminoglycosides resistance by inhibiting respiratory complexes during iron starvation
	Sylvia Chareyre (Institut de Microbiologie de la Méditerranée, CNRS, France)
17:25 - 17:45	Coffee Break

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Session II: Stress Adaptation

17:45 - 17:50	Chair
17:50 - 18:15	Bacterial cytochrome bd, a multifunctional respiratory oxidase
	Alessandro Giuffrè (CNR Institute of Molecular Biology and Pathology, Italy)
18:15 - 18:35	Bacterial peroxidases from pathogenic bacteria
	Sofia Pauleta (UCIBIO, Portugal)
18:35 - 18:50	Hydrogen-dependent carbon dioxide reduction by Escherichia coli
	Magali Roger (University of Dundee, Scotland)
18:50 - 19:05	Lifestyle change of an anaerobic sulfate reducing bacterium by experimental evolution: from sulfate to oxygen respiratory growth
	Marine Schoeffler (Aix Marseille Univ, CNRS, France)
19:05 - 19:20	Flash presentations
20:00 - 21:00	Dinner
21:00	Poster and beer/wine session

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Session III: Structure/function

09:00 - 09:05	Chair
09:05 - 09:30	The multifaceted roles of Fe/S clusters in respiratory complex I
	Friedrich Thorsten (Albert-Ludwigs-Universität, Germany)
09:30 - 09:50	Flavin-based electron bifurcation in anaerobic bacteria and Archaea.
	Wolfgang Buckel (Philipps-Universität, Germany)
09:50 - 10:10	Turning a [NiFeSe] hydrogenase into a standard [NiFe] enzyme
	Ines Pereira Cardoso (Universidade Nova de Lisboa, Portugal)
10:10 - 10:30	Coffee Break
10:30 - 10:45	Electron transfer in the dissimilatory sulfate reduction
	Americo Duarte (Universidade Nova de Lisboa, Portugal)
10:45 - 11:00	Energy conservation by cytoplasmic proton uptake in qNOR from <i>Neisseria meningitidis</i>
	Nathalie Gonska (Stockholm University, Sweden)
11:00 - 11:15	Study of the alternative arsenite oxidase: when thermodynamics clarifies phylogeny
	Barbara Schoepp-Cothenet (CNRS, France)
11:15 - 11:30	Quinone-independent, solely protein-based microbial respiration with halogenated aromatics
	Adrian Lorenz (Helmholtz Centre for Environmental Research, Germany)

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Section	III. Stri	icture	function
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11:30 - 11:45	Deciphiring cupredoxins involvement in the iron respiratory chain of <i>Acidithiobacillus ferrooxidans</i>
	Marianne Ilbert (Institut de Microbiologie de la Méditerranée, CNRS, France)
12:00 - 13:00	Lunch
13:00 - 17:30	Boat excursion Saint Tropez

Session IV: Biotechnological aspects

17:30 - 17:35	Chair
17:35 - 18:00	A new role for an old cofactor: lipoic acid in prokaryotic sulfur oxidation
	Christiane Dahl (Universität Bonn, Germany)
18:00 - 18:25	Plug adapters for proteins: activating iron-sulfur enzymes for biosynthesis and Biotechnology
	Greg Bokinsky (TU Delft, Netherlands)
18:25 - 18:45	Synthesis and anti-oxidant function of bacterial furan-containing fatty acids
	Timothy Donohue (University of Wisconsn-Madison, USA)
18:45 - 19:00	Respiration as key process during the formation of silver nanoparticles catalyzed by <i>Geobacter sulfurreducens</i> Michael Fueg (University of Bern, Switzerland)

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Session IV: Biotechnological aspects

19:00 - 19:15 Unveiling the molecular bases for electron transfer performed by

 $\label{prop:continuous} Gram\text{-}positive \ bacteria \ at \ the \ electrode\text{-}microbe \ interface \ in$

bioelectrochemical systems

Catarina Paquete (Universidade NOVA de Lisboa, Portugal)

Session V: Antimicrobials	
19:15 - 19:20	Chair
19:20 - 19:45	Staphylococcus aureus: survival strategies of a human Pathogen
	Ligia Saraiva (Instituto de Tecnologia Química e Biológica, Portugal)
19:45 - 20:00	What use are co-releasing molecules? Respiratory inhibitors or antimicrobial agents?
	Hannah Southam (The University of Sheffield, UK)
20:00 - 20:15	Flash presentations
20:15 - 21:15	Dinner
21:15	Poster and beer/wine session

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Session VI: Res	piratory Metabolism <i>(Part I)</i>
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09:00 - 09:05	Chair
09:05 - 09:30	title to be communicated
	John Coates (University of California, USA)
09:30 - 09:55	Exploring bacterial respiratory chains
	Manuela Pereira (Universidade Nova de Lisboa, Portugal)
09:55 - 10:20	Respiratory nitrate reduction in spores of Streptomyces
	coelicolor is dependent on the cytochrome bc1 complex
	Gary Sawers (Martin-Luther University, Germany)
10:20 - 10:45	Coffee Break
10:45 - 11:10	title to be communicated
	Wolfgang Nitschke
11:10 - 11:30	Energy conserving ETF: methylmenaquinone oxidoreductase:
	the missing energetic coupling during syntrophic biogas
	formation from fatty acids
	Matthias Boll (Universität Freiburg, Germany)
11:30 - 11:50	Respiratory processes in haloarchaea
	Rosa Martinez-Espinosa (University of Alicante, Spain)
11:50 - 12:05	New insights in the formate dehydrogenases family: lessons
	from Bacillus subtilis
	Rodrigo Arias-Cartin (Aix Marseille Université, CNRS, France)
12:05 - 12:20	Functional and biochemical characterization of the electron
	bifurcating FeFe Hnd hydrogenase from the sulfate reducing
	bacterium Desulfovibrio fructosovorans
	Myriam Brugna (Laboratoire de Bioénergétique et Ingénierie
	des protéines, CNRS, France)
12-20 - 14:00	Lunch
12-20 - 14.00	LUTICIT

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Session VII: Maturation	
14:00 - 14:05	Chair
14:05 - 15:30	The heme chaperone HemW inserts heme into the respiratory nitrate reductase NarGHI
	Jahn Dieter (University Braunschweig, Germany,)
14:30 - 14:55	Biogenesis of cytochrome <i>c</i> complexes: cofactors, subunits, complexes and supercomplexes
	Fevzi Daldal (University of Pennsylvania, USA)
14:55 - 15:15	The ErpA/NfuA complex builds an oxidative resistant Fe-S cluster delivery pathway
	Béatrice Py (CNRS, Aix Marseille Université, Marseille, France)
15:15 - 15:30	Copper and heme <i>a</i> insertion chaperones involved in the assembly of the cytochrome <i>bc</i> 1- <i>aa</i> 3 supercomplex of Actinobacteria
	Cédric Davoudi (Biotechnology, Institute of Bio- and Geosciences, Germany)
15:30 - 15:45	Evidence of a Fe-S carrier activity for an unknown function protein of the <i>Desulfovibrio</i> ORP complex
	Corinne Aubert (Aix Marseille Univ, CNRS, France)

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Session VIII Hos	t Pathogen Interaction
15:45 - 15:50	Chair
15:50 - 16:15	Function, assembly and regulation of the electron transport chains of the microaerophilic food-borne pathogen Campylobacter jejuni
	David Kelly (The University of Sheffield, UK)
16:15 - 16:40	Respiration-dependent programed cell lysis drives biofilm formation in <i>Staphylococcus aureus</i> .
	Jeff Boyd (Rutgers University, USA)
16:40 - 17:00	Coffee break
17:00 - 17:25	Precision editing of the gut microbiota
	Sebastian Winter (UT Southwestern Medical Center, USA)
17:25 - 17:45	Oxygen depletion induced by Shigella is essential for infection
	Benoit Marteyn (Institut Pasteur, France)
	Deficit Mai Leyii (mstitut Pasteur, France)
Session IX Cell b	siology of respiration
Session IX Cell b 17:45 - 17:50	
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17:45 - 17:50	Chair Localised vs delocalised organisation of bacterial electron
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17:45 - 17:50 17:50 - 18:15	Chair Localised vs delocalised organisation of bacterial electron transport chains Conrad Mullineaux (Queen Mary University of London, U.K.) The how and why of cellular organization of electron transport
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17:45 - 17:50 17:50 - 18:15 18:15 - 18:35	Chair Localised vs delocalised organisation of bacterial electron transport chains Conrad Mullineaux (Queen Mary University of London, U.K.) The how and why of cellular organization of electron transport chains in bacteria Axel Magalon (Aix-Marseille Univ & CNRS)

Wednesday, 14th of March 2018

13:30

Session X: Respiratory Metabolism (Part II)		
09:30 - 09:35	Chair	
09:35 - 10:00	Composition and function of electron transport proteins involved in nitrous oxide respiration	
	Jörg Simon (Technische Universität Darmstadt, Germany)	
10:00 - 10:25	UbiJ chaperones isoprenoid lipids to a soluble multiprotein complex that synthesizes ubiquinone	
	Fabien Pierrel (Univ. Grenoble Alpes-CNRS, France)	
10:25 - 10:40	Two dedicated class C radical SAM methyltransferases	
	synthesize the low-potential redox mediators 8-	
	methylmenaquinone and 7,8-dimethylmenaquinone	
	Sascha Hein (Technische Universität Darmstadt, Germany)	
10:40 - 11:00	Coffee break	
Closing lecture		
11:00 - 11:05	Chair	
11:05 - 11:50	title to be communicated	
	Arthur Grossman (University of Stanford, USA)	
11:50 - 12:15	Closure of the meeting	
12:15 - 13:30	Lunch	

Bus leave to Nice Airport