



## RESEARCH CONFERENCES

ESF-EMBO Symposium

### Synthetic Biology of antibiotic production II

30 August – 4 September 2014

Sant Feliu de Guixols, Costa Brava, Spain

## List of Accepted Posters

	Surname	First name	Poster Title
1	Arenas	Nelson Enrique	A model for studying susceptibility to macrolide antibiotics
2	Awan	Ali	Engineering Penicillin production into the yeast SC 2.0 for Cre-Lox based Directed Evolution
3	Buivydas	Andrius	Cycling with lantibiotics
4	Chessher	Ashley	Construction of bacterial microcompartments for the synthesis of monoterpenes
5	Cruz-Morales	Pablo	Discovery of arseno-organic compounds by evolution-inspired genome mining of Streptomyces
6	Cryle	Max	Oxidative Modification during Non-Ribosomal Peptide Synthesis: Cytochrome P450s that Oxidise Carrier Protein Bound Substrates
7	Cummings	Matthew	Harnessing synthetic biology as a powerful tool to awaken cryptic bacterial gene clusters
8	Delépine	Baudoin	FullSense: Expanding the observable space for sensing devices in biosynthesis pathways.
9	Dirnberger	Benedict	Exploration of dimorphic switches from filamentous growth to single Hülle cells as tool for synthetic biology
10	Dodd	Amanda	Using Streptomyces albulus to turn waste into value
11	Dumina	Maria	Metabolic engineering of cephalosporin C producer Acremonium chrysogenum: overexpression MFS transporter CefT changes biosynthesis profile of beta-lactam compounds
12	Farmer	Rohit	A recognition model of ACP-HCS interaction for programmed beta-branching in type I polyketide synthases
13	Fürtges	Leon	Identification of biocatalysts in fungal genomes for the selective synthesis of biaryls
14	Gemperlein	Katja	Synthetic biotechnology for heterologous production of polyunsaturated fatty acids from myxobacteria
15	Gerke	Jennifer	Breaking the silence: protein stabilization uncovers silenced biosynthetic gene clusters in the fungus Aspergillus nidulans
16	Jackson	Victoria	Synthetic Biology for antibiotic discovery and development
17	Jervis	Adrian	Synthetic Biology Approach of Monoterpenoid Bioengineering
18	Kepplinger	Bernhard	Analysis of Multiple Antibiotics from an Amycolatopsis Isolate
19	Kim	Chu-Young	Cyclic ether formation during lasalocid A biosynthesis
20	King	Andrew	The Wright Antibiotic Resistance Platform: Forward Engineering of E. coli for the Identification of Inhibitors of Resistance.
21	Klein	Andreas Sebastian	Chemo-enzymatic production of the antibiotic prodigiosin
22	Law	Brian Jen Cheng	Site-specific alkylation of the clinically important polyketide rapamycin
23	Li	Yanyan	Genome mining of Trojan Horse antibiotics: agrocin-like compounds
24	Limon	Carmen	Mutations of Fusarium fujikuroi that affect bikaverin production
25	Loeschcke	Anita	Accessing microbial antibiotics by heterologous expression of gene clusters using the TRES system

26	Luzhetskyy	Andriy	Biosynthetic potential of actinobacteria: bridging in silico and in vivo
27	Martinez-Fagundo	Danae	Creating active enzyme-oligonucleotide-conjugates with DEBS3
28	Martín-Martín	Seomara	Secondary metabolism in <i>Streptomyces</i> : New profiles of genes regulated by phosphate starvation
29	Masschelein	Joleen	Forging bonds: a unique alliance between bacterial secondary lipid and secondary metabolite biosynthesis gives rise to the zeamine antibiotics
30	Mattern	Derek	Bioprospecting of Secondary Metabolites by Use of a Heterologous Expression System in Eukaryotes
31	Mohammad	Hadi	Characterization of Non-Ribosomal Peptide Synthetase (NRPS) in <i>Pseudoalteromonas SANK</i> , the natural producer of thiomarinol antibiotic.
32	Molloy	Brian	3-amino-4-hydroxybenzoic acid biosynthetic genes as a clue for a novel biosynthetic gene cluster discovery through genome mining in <i>Streptomyces argillaceus</i> .
33	Morinaka	Brandon	Radical SAM Epimerases Regioselectively Introduce Diverse D-Amino Acid Patterns into Peptide Natural Products
34	Motz	Magdalena	EF-P and its post-translational modification as potential new drug targets
35	Mu	Dongdong	Designing and Producing Modified, New-to-Nature Peptides with Antimicrobial Activity by Use of a Combination of Various Lantibiotic Modification Enzymes
36	Ní Cheallaigh	Aisling	
37	Nyerges	Akos	Temporal inactivation of DNA repair by conditional mutants enables highly precise in vivo genome engineering
38	Patrikainen	Pekka	Structure-Based Engineering of Angucyclinone 6-Ketoreductases
39	Pawlik	Krzysztof	A KorSC protein inhibits secondary metabolites production in <i>Streptomyces coelicolor</i> A3(2).
40	Peschke	Madeleine	Structural analysis of the final module of the Teicoplanin producing non-ribosomal peptide synthetase
41	Petkovic	Hrvoje	Identification of a new putative regulatory protein involved in morphological differentiation and erythromycin production in <i>Saccharopolyspora erythraea</i> by omics approaches
42	Präg	Andreas	Cytochrome P450 enzymes - Investigation of the regio- and stereoselective intermolecular oxidative phenol coupling in bacteria
43	Putri	Rindia Maharani	Protein cages as nanoplatfrom for synthetic biology
44	Radchuk	Olga	SYNMOD game: conveying synthetic biology to broad public
45	Rastgou Talemi	Soheil	Systems Biology Analysis of the Yeast Osmo-Stat
46	Schmitt	Steven	High-throughput nL-reactor screening for antimicrobial peptides
47	Sigrist	Renata	Insights into a t1PKS-transAT PKS-NRPS annotated from the genome of endophytic <i>Streptomyces</i> sp.
48	Siitonen	Vilja	Studies on the nogalamycin biosynthesis and constructing new products in vivo
49	Spitzer	Michaela	A systems biology approach to discover new antifungal drug combinations for <i>Cryptococcus</i> infection
50	Sydor	Paulina	Exploiting <i>Burkholderia</i> for Antibiotic Discovery
51	Tscherner	Michael	The <i>Candida albicans</i> Histone Acetyltransferase Hat1 Regulates Stress Resistance via Distinct Histone Deposition Pathways
52	Uytterhoeven	Birgit	Biosynthetic surgery of the kalimantacin gene cluster
53	Van Den Hondel	Cees	Cell wall stress induced genes as new targets for antifungals in <i>Aspergillus fumigatus</i>
54	Weyler	Christian	Synthesis of luminmides using permeabilized cells
55	Wiemann	Philipp	Insights into the Fungal Secondary Metabolome
56	Winkler	Wade	Novel genetic regulatory tools for improved heterologous expression of secondary metabolite pathways
57	Winn	Michael	Discovery and Re-engineering of Novel Natural Product pathways from <i>Streptomyces</i> species.
58	Wuethrich	Irene	A synthetic biology approach for the design of new-to-nature peptide-based antibiotic molecules.
59	Yadav	Mukul	Conservation and divergence between enzymes involved in the biosynthesis of antibiotics mupirocin and thiomarinol
60	Yim	Grace	Expanding the chemical diversity of glycopeptide antibiotics: heterologous expression and derivatization of a minimized A47934 scaffold