



Abstract #

Title

Authors

June 2

Abstract #	Title	Authors
SESSION 1 15.00-16.00		
Chair: Ilias Kappas		
15.00-15.15	00	Welcome address
15.15-15.30	01	Causal models for the result of Percutaneous Coronary Intervention in Coronary Chronic Total Occlusions Maria Ganopoulou, Ioannis Kangelidis, Georgios Sianos, Lefteris Angelis
15.30-15.45	02	Substructure based comparisons of microbial profiles Evangelia Intze, Ilias Lagkouvardos
15.45-16.00	03	Towards genomic analysis of Greek dog breeds Tosiou Eleftheria*, Vasileiadis Spyridon*, Louloudis Ioannis, Raptis Vasileios, Dimopoulos Antonios, Poulakakis Nikolaos, Venetsani Semina, Larson Greger, Frantz A.F. Laurent, Triantafyllidis Alexandros, Gkagkavouzis Konstantinos
Bring your own coffee break 16.00-16.15		
SESSION 2 16.15-17.15		
Chair: Maria Ganopoulou		
16.15-16.30	04	Genomic features of a marine-derived fungus Romanos Siaperas, Evangelos Topakas, Georgios Kotoulas, Anastasia Gioti
16.30-16.45	05	A systems biology approach for elucidating the 'bing bang' of cancer metastasis İşıl Takan, Stephan Marquardt, Stella Logotheti, Athanasia Pavlopoulou
16.45-17.00	06	PINAWeb: A web-based tool for the comparison of Protein-Protein Interaction Networks Aligners A. Alcalà, G. Riera, I. García, R. Alberich, M. Llabrés
17.00-17.15	07	VPF-Class: taxonomic assignment and host prediction of uncultivated viruses based on viral protein families Joan Carles Pons, David Paez-Espino, Gabriel Riera, Natalia Ivanova, Nikos C. Kyrpides, Mercè Llabrés
Bring your own coffee break 17.15-17.30		



SESSION 3 17.30-18.15		Chair: Joan Carles Pons	
17.30-17.45	08	DNA methylation analysis of Diffuse Large B Cell Lymphoma using data available in public repositories.	<u>Angelos Galanopoulos</u> , Georgja Orfanoudaki, Alexandros Triantafyllidis, Konstantina Psatha, Michalis Aivaliotis
17.45-18.00	09	A Graph-based cross reference system between variants from exome sequencing and biomedical articles	<u>Ioannis Giannoulakis</u> , Alexandros Kanterakis, George Potamias, Ioannis Iliopoulos
18.00-18.15	10	Recruiting mRNA therapeutics and Protein Transduction Domain technology for a metabolic disorder, caused by SCO2 mutations	<u>Androulla N. Miliotou</u> , Ioannis S. Pappas, George Spyroulias, Asterios S. Tsiftoglou, Ioannis S. Vizirianakis, Lefkothea C. Papadopoulou

SOCIAL EVENT 18.15-19.00		18.15-19.00	
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June 3

SESSION 1 15.00-16.00		Chair: Vasilis Promponas	
15.00-15.15	11	miR-16-5p Promotes Erythroid Maturation of Erythroleukemia Cells by Regulating Ribosome Biogenesis	<u>Christos I. Papagiannopoulos</u> , Konstantinos A. Kyritsis, Nikoleta F. Theodoroula, Maria Kosmidou, Konstantina Tsouderou, Ioannis S. Vizirianakis
15.15-15.30	12	Evaluating the structural impact of mutations in the tertiary structure of genes associated with autosomal dominant familial Alzheimer's disease	<u>Antigoni Avramouli</u> , Eleftheria Polychronidou, Panagiotis Vlamos
15.30-15.45	13	SARS-CoV-2 Molecular Transmission Clusters and Containment Measures in Ten European Regions during the First Pandemic Wave	<u>Maria Bousali</u> , Aristeia Dimadi, Evangelia-Georgia Kostaki, Sotirios Tsiodras, Georgios K Nikolopoulos, Dionyssios N Sgouras, Gkikas Magiorkinis, George Papatheodoridis, Vasiliki Pogka, Giota Lourida, Aikaterini Argyraki, Emmanouil Angelakis, George Sourvinos, Apostolos Beloukas, Dimitrios Paraskevis, Timokratis Karamitros
15.45-16.00	14	CYP2D6 efficiency in drug metabolism - insight from Molecular Dynamics Simulations	<u>Danaï Maria Kotzampasi</u> , Alexandros Kanterakis, Vangelis Daskalakis, George Potamias



Bring your own coffee break		16.00-16.15	
SESSION 2 16.15-17.15		Chair: Antigoni Avramouli	
	16.15-16.30	15	ITHANET: An information and database community portal for haemoglobinopathies Maria Xenophontos, Coralea Stephanou, Anna Minaidou, Stella Tamana, Carsten W Lederer, Petros Kountouris, Marina Kleanthous
	16.30-16.45	16	Drug-Repurposing Pipeline in Lymphoid Neoplasms: Application in mantle cell lymphoma, chronic lymphocytic leukemia and anaplastic large cell lymphoma Georgia Orfanoudaki, Dimitra Mavridou, Konstantina Psatha, Michalis Aivaliotis
	16.45-17.00	17	Analysis of bipartite biological networks: An ecological approach for the analysis of gene expression networks Odysseas Karadimas, Ilias Kappas, Stefanos Sgardelis
	17.00-17.15	18	Changes in the gut microbial communities of hematopoietic stem cell transplant patients identified by high throughput sequencing analysis Elias Asimakis, Panagiota Stathopoulou, Soumaya Kouidhi, George Tsiamis
Bring your own coffee break		17.15-17.30	
SESSION 3 17.30-18.15		Chair: Maria Xenophontos	
	17.30-17.45	19	A bioinformatic Approach for Efficient High Quality Genome Analysis of non-model species Vasileios Papadogiannis, Theodoros Danis, Nelina Angelova, Klara Eleftheriadi, Elisavet Iliopoulou, Constantinos Tsigenopoulos, Tereza Manousaki
	17.45-18.00	20	Genomic insights into newly isolated Mycobacterium strains infecting sea bass and meagre Panagiota Stathopoulou, Elias Asimakis, George Tsiamis
	18.00-18.15	21	Towards implementing translational methodologies into nanomedicine and genomics therapeutics through the development and clinical validation of PBPK models for doxorubicin George A. Mystridis, Georgios C. Batzias, Ioannis S. Vizirianakis
SOCIAL EVENT 18.15-19.00		18.15-19.00	



June 4

SESSION 1 15.00-16.00		Chair: Anastasia Chasapi	
15.00-15.15	22	Developing a novel feature space for sequence data analysis; a use-case on SARS-CoV-2 data	<u>Nikolaos Pechlivanis</u> , Anastasios Togkousidis, Maria-Christina Maniou, Maria Tsagiopoulou, Fotis Psomopoulos
15.15-15.30	23	COVID-19 transmission dynamics features detected by machine learning interpretability models	<u>Christos Karapiperis</u> , Panos Kouklis, Stelios Papastratos, Anastasia Chasapi, Antoine Danchin, Lefteris Angelis, Christos A. Ouzounis
15.30-15.45	24	Visualizing 3D multilayered networks interactively with Arena3Dweb	<u>Evangelos Karatzas</u> , Fotis A. Baltoumas, Reinhard Schneider, Georgios A. Pavlopoulos
15.45-16.00	25	On top of the Archaea iceberg	<u>Antonios Kioukis</u> , Ilias Lagkouvardos
Bring your own coffee break 16.00-16.15			
SESSION 2 16.15-17.00		Chair: Evangelos Karatzas	
16.15-16.30	28	Unravelling unknown cyanobacteria diversity linked with HCN production	<u>Manthos Panou</u> , Spyros Gkelis
16.30-16.45	27	Structural and functional analysis of sense-antisense chimeric transcripts reveals their potential regulatory roles in human cells	<u>Sumit Mukherjee</u> , Rajesh Detroja, Milana Frenkel-Morgenstern
16.45-17.00	26	Genome reduction and secondary metabolism of the marine sponge-associated cyanobacterium <i>Leptothoe</i>	<u>Despoina Konstantinou</u> , Rafael V. Popin, David P. Fewer, Kaarina Sivonen, Spyros Gkelis
17.00-17.15	29	Blood transcriptomes of anti-SARS-CoV2 antibody positive healthy individuals with prior asymptomatic versus clinical infection	Petros P. Sfikakis, <u>Kleio-Maria Verrou*</u> , Ourania Tsitsilonis, Dimitrios Paraskevis, Efsthios Kastritis, Evi Lianidou, Paraskevi Moutsatsou, Evangelos Terpos, Ioannis Trougakos, Vasiliki Chini, Menelaos Manoloukos, Panagiotis Moulos, Georgios A. Pavlopoulos, George Kollias, Giannis Ampatziadis-Michailidis, Pantelis Hatzis, Meletios A Dimopoulos
Bring your own coffee break 17.15-17.30			
SESSION 3 17.30-18.15		Chair: Kleio-Maria Verrou	



17.30-17.45	30	Investigating the cryptic potential of intergenic regions to form transmembrane domains and its link to de novo gene birth in 332 yeast genomes	<u>Emilios Tassios</u> , Nikolaos Vakirlis, Christoforos Nikolaou
17.45-18.00	31	Genome-wide association study of fertility traits in dairy sheep	Tsartsianidou Valentina, <u>Pavlidis Alexandros</u> , Vouraki Sotiria, Arsenos Georgios, Triantafyllidis Alexandros
18.00-18.15	32	Development of databases and tools for selective autophagy	<u>Agathangelos Chatzichristofi</u> , Vasileios Sagris, Ioanna Kalvari, Aristos Pallaris, Ioannis Iliopoulos, Vasilis J Promponas
	33	Computational Analysis of Virus-Host interactions: focus on E7 & POU5F1.	<u>Marios Efychiou</u> , Theophano Panayiotou, Katerina Strati, Vasilis J Promponas
	34	Computational studies of the structure, function and evolution of nuclear pore complex subunits across eukaryotes	<u>Andreas Ioannides</u> , Vasilis J Promponas
SOCIAL EVENT 18.15-19.00	18.15-19.00	Farewell party	

