

# SolBio International Conference 2016 on "Bioinformatics & Computational Biology for Innovative Genomics"

	Timetable	Session		Speaker	
Sunday - 24 April	<b>24.April.2016</b> 18:30 - 19:30	<b>SolBio Annual Meeting</b>		—	
	20:00 - 20:10	<b>SolBio IC&amp;W Opening</b>	<b>SolBio International Conference - Welcome Opening</b>	—	
	20:10 - 21:00	<b>KEYNOTE SPEAKER</b>	Building a catalog of gene X medical phenome	Nancy J. Cox	
Monday - 25 April	<b>25.April.2016</b> 9:00 - 9:50	<b>KEYNOTE SPEAKER</b>	Using networks to link genotype to phenotype	John Quackenbush	
	SESSION 1	(20+5 min talks)	<i>Bioinformatics and medical genomics (Chairperson: Julio Collado-Vides)</i>		
	9:55 - 10:20	SESSION_1 Medical Genomics	<b>1</b>	Establishing the precise evolutionary history of a gene improves prediction of disease-causing missense mutations	Igor Zhulin
	10:20 - 10:45	SESSION_1 Medical Genomics	<b>2</b>	Evolutionary hallmarks of the human proteome: chasing the age and coregulation of protein-coding genes	Javier De Las Rivas
	10:45 - 11:10	SESSION_1 Medical Genomics	<b>3</b>	Dissecting the properties of spatially-coordinated combinatorial transcription factor binding using ChIP-exo and evolutionary conservation	Minggao Liang
	11:30 - 11:55	SESSION_1 Medical Genomics	<b>4</b>	Removal of unwanted variation reveals novel patterns of gene expression linked to sleep homeostasis in murine cortex	Lucia Peixoto
	11:55 - 12:20	SESSION_1 Medical Genomics	<b>5</b>	Dysregulated expression of mitotic machinery genes precedes genome instability during spontaneous pre-malignant transformation of mouse ovarian surface epithelial cells.	Ulises Urzúa
12:20 - 12:45	SESSION_1 Medical Genomics	<b>6</b>	Gene and signaling pathways reveal key processes in the pathogenesis of idiopathic pulmonary fibrosis	Yalbi Balderas-Martinez	
Monday - 25 April	SESSION 2	(20+5 min talks)	<i>Genomics of non-model organisms (Chairperson: Danilo Gonzalez-Nilo)</i>		
	<b>25.April.2016</b> 14:00 - 14:25	SESSION_2 Genomics non-model org.	<b>1</b>	Intracolon genome stability of the metallo-beta-lactamase SPM-1-producing <i>Pseudomonas aeruginosa</i> ST 277, an endemic clone disseminated in Brazilian Hospitals	Ana Tereza R. Vasconcelos
	14:25 - 14:50	SESSION_2 Genomics non-model org.	<b>2</b>	Unearthing new genomic markers of in vitro drug response by improved measurement of discriminative power	Pedro Ballester
	14:50 - 15:15	SESSION_2 Genomics non-model org.	<b>3</b>	Transcriptomic analysis reveals that metabolic switch and surface remodeling are key processes for stage transition in <i>Trypanosoma cruzi</i>	Luisa Berná
	15:45 - 16:10	SESSION_2 Genomics non-model org.	<b>4</b>	Whole-Genome sequencing and molecular dynamics provide insights into climatic adaptation in South American and Antarctic penguin species	Danilo Gonzalez-Nilo
	16:10 - 16:35	SESSION_2 Genomics non-model org.	<b>5</b>	Transcriptional activation of related small heat shock proteins (sHsps) during ripening in <i>Solanum lycopersicum</i> (cv. Heinz 1706)	Débora Arce
	16:35 - 17:00	SESSION_2 Genomics non-model org.	<b>6</b>	BIOPROSPECTUS: Biodiversity data integration and search to support bioprospecting of the industrial uses of plants	Samier Barguil
	19:30 - 21:00	<b>POSTER Session</b>		POSTERS view and discussion (Authors should be around their poster. Drinks will be served. Posters should be on the stands for the 2 days)	—
	21:00	<b>GALA Dinner</b>		GALA Dinner (Captain Morgan Beach)	—
Tuesday - 26 April	<b>26.April.2016</b> 9:00 - 9:50	<b>KEYNOTE SPEAKER</b>	Genome variation in regulatory regions: Insights into primary open angle Glaucoma	Terry Gaasterland	
	SESSION 3	(20+5 min talks)	<i>Algorithms and big data for genomics (Chairperson: Elizabeth Tapia)</i>		
	9:55 - 10:20	SESSION_3 Algorithms & BigData	<b>1</b>	SENSOR Units: from anatomy to physiology of transcriptional regulation in <i>Escherichia coli</i>	Daniela Ledezma Tejeida
	10:20 - 10:45	SESSION_3 Algorithms & BigData	<b>2</b>	LoTo: A method for the comparison of Local Topology between gene regulatory networks	Alberto Martin
	10:45 - 11:10	SESSION_3 Algorithms & BigData	<b>3</b>	Refining borders of genome rearrangements using repetitions	Jose A. Arjona-Medina
	11:30 - 11:55	SESSION_3 Algorithms & BigData	<b>4</b>	Computational infrastructure to share and analyze clinical and genomic data jointly	José Alquicira Hernández
	11:55 - 12:20	SESSION_3 Algorithms & BigData	<b>5</b>	Computational workflow for the fine-grained analysis of metagenomic samples	Oswaldo Trelles
12:20 - 12:45	SESSION_3 Algorithms & BigData	<b>6</b>	Automated GO annotation based on graphical models	Elizabeth Tapia	
Tuesday - 26 April	SESSION 4	(20+5 min talks)	<i>Microbial Computational Genomics (Chairperson: David Holmes)</i>		
	<b>26.April.2016</b> 14:00 - 14:25	SESSION_4 Microbial Genomics	<b>1</b>	<i>Mycoplasma</i> non-coding RNA: Identification of small RNAs and targets.	Ana Tereza R. Vasconcelos
	14:25 - 14:50	SESSION_4 Microbial Genomics	<b>2</b>	Comparative genomics sheds light on the evolutionary dynamics and sympatric speciation of life in extremely acidic environments (<pH 3)	Carolina González-Rosales
	14:50 - 15:15	SESSION_4 Microbial Genomics	<b>3</b>	Unexplored microbial communities from the Yucatan aquifer as a potential source of novel natural products : a computationally simplistic poly-phasic approach	Alejandra Prieto Davó
	15:45 - 16:10	SESSION_4 Microbial Genomics	<b>4</b>	Effect of genomic vicinity on coexpression of coregulated genes in <i>Escherichia coli</i>	Lucia Pannier
	16:10 - 16:35	SESSION_4 Microbial Genomics	<b>5</b>	Tracing the phylogenetic history of the Crl regulon through the Bacteria and Archaea domains.	Alberto Santos-Zavaleta
	16:35 - 17:00	SESSION_4 Microbial Genomics	<b>6</b>	The dimerization interface of paramyxovirus matrix proteins is structurally and evolutionary conserved	Andreas Schüller