	SUNDAY, 18 September
08:15 - 08:30	Registration desk open all day from 08:15h
18:00 - 18:30	Conference opening (18:00h) Speakers: Alfonso Valencia and Niklas Blomberg
	Conference opening Keynote talk
18:30 - 19:00	César Hidalgo (University of Toulouse, France) How humans judge machines
19:00 - 19:30	Chair: <u>Alfonso Valencia</u>
19:30 - 20:00	
20:00 - 20:30	
20:30 - 21:00	Welcome cocktail
21:00 - 21:30	
21:30 - 22:00	
22:00 - 22:30	

	MONDAY, 19 September		
08:00 - 08:30 08:30 - 09:00	Registration desk open all day Welcome and announcements (08:45h)		
	Keynote talk		
09:00 - 09:30	Raúl Rabadán (Columbia University, USA) Some mysteries about microbes and cancer		
09:30 - 10:00	Chair: <u>Niklas Blomberg</u>		
	Auditorium Anna Tramontano	Room Margaret O. Dayhoff	Room Rosalind Franklin
	ELIXIR (Session #01) Chair: <u>Katharina Heil</u>	GENOMES (Session #02) Chair: <u>Toni Gabaldón</u>	SYSTEMS (Session #03) Chair: <u>Patrick Aloy</u>
10:00 - 11:00	ELIXIR talk   Identifying resources and exploring synergies between the ELIXIR 3D-Bioinfo, proteomics and IDP communities  • Authors: Emmanuel Levy, Christine Orengo, Nathalie Reuter, Sameer Velankar, Shoshana Wodak, Norman Davey, Zsuzsa Dosztanyi, Damiano Piovesan, Silvio Tosatto, Eva Csosz, Julien Marcoux, Lennart Martens, Pathmanaban Ramasamy, Juan Antonio Vizcaino, Massimiliano Bonomi, Wim Vranken	Proceeding talk   SALAI-Net: Species-Agnostic Local Ancestry Inference Network  * Authors: Benet Oriol Sabat, Daniel Mas Montserrat, Xavier Giro-i-Nieto and Alexander Ioannidis	Proceeding talk   MERRIN: MEtabolic Regulation Rule INference from time series data • Authors: Kerian Thuillier, Caroline Baroukh, Alexander Bockmayr, Ludovic Cottret, Loïc Paulevé and Anne Siegel
	ELIXIR talk   Using the IDP-KG to enable IDPcentral information on submission  - Authors: Alasdair Gray, Ivan Mičetić, Alexander Monzon and Damiano Piovesan	Proceeding talk   Improving Bacterial Genome Assembly Using a Test of Strand Orientation  • Authors: Grant Greenberg and Ilan Shomorony	Proceeding talk   Small compound-based direct cell conversion with combinatorial optimization of pathway regulations  • Authors: Toru Nakamura, Michio Iwata, Momoko Hamano, Ryohei Eguchi, Jun-Ichi Takeshita and Yoshihiro Yamanishi
	ELIXIR talk   AHoJ: rapid, tailored search and retrieval of apo and holo protein structures  • Authors: Christos P. Feidakis, Radoslav Krivak, David Hoksza and Marian Novotný	Highlight talk   plotsr: Visualising structural similarities and rearrangements between multiple genomes  • Authors: Manish Goel and Korbinian Schneeberger	Proceeding talk   Design centering enables robustness screening of pattern formation models  • Authors: Anastasia Solomatina, Alice Cezanne, Yannis Kalaidzidis, Marino Zerial and Ivo F. Sbalzarini
11:00 - 11:30	Coffee break and Exhibition		
	Auditorium Anna Tramontano	Room Margaret O. Dayhoff	Room Rosalind Franklin
	ELIXIR (Session #04) Chair: <u>Katharina Heil</u>	<b>DATA</b> (Session #05) Chair: <u>Peter Maccallaum</u>	PROTEINS (Session #06) Chair: <u>Mark Wass</u>
	ELIXIR talk   Open source genome-scale metabolic models: why and how  • Authors: Mihail Anton, Barbara Szomolay and Vitor A P Martins dos Santos	Proceeding talk   Linking cells across single-cell modalities by synergistic matching of neighborhood structure • Authors: Borislav Hristov, Jeffrey Bilmes and William Noble	Highlight talk   TITAN: T-cell receptor specificity prediction with bimodal attention networks - Authors: Anna Weber, Jannis Born and Maria Rodriguez Martinez
11:30 - 12:30	ELIXIR talk   Genome-wide metabolic annotation for Methanocaldococcus (Methanococcus) jannaschii, the first member of the Archaea to be sequenced a quarter of a century ago  • Authors:  smini Baltsavia, George Stamoulos, Konstantinos Tziavara, Alexandros Dermaris, Ioannis Iliopoulos, Ron Caspi, Peter D. Karp, Nikos C. Kyrpides, Christos A. Ouzounis	Highlight talk   Marker-based annotation and integration of large scale single-cell transcriptomics data on a laptop • Authors: <u>Sikander Hayat</u> , Yang Xu, Simon Baumgart, Christian Stegmann, Rafael Kramann and Rachel Patton McCord	Highlight talk   Online predictions for protein biophysical features and their conservation  • Authors: Wim Vranken, Luciano Kagami and Adrian Diaz
	ELIXIR talk   Rare disease specific FAIR Maturity Indicators • Authors: Núria Queralt Rosinach, Rajaram Kaliyaperumal, Annika Jacobsen, Mark Wilkinson, Marc Hanauer, Marco Roos	Highlight talk   Polympact: exploring functional relations among common human genetic variants  • Authors: Samuel Valentini, Francesco Gandolfi, Mattia Carolo, Davide Dalfovo, Lara Pozza and Alessandro Romanel	Proceeding talk   Group-walk, a rigorous approach to group-wise false discovery rate analysis by target-decoy competition • Authors: <u>Jack Freestone</u> , Temana Short, William Stafford Noble and Uri Keich
12:30 - 13:00 13:00 - 13:30 13:30 - 14:00		Lunch, Exhibition and Poster viewing	
2.223	Auditorium Anna Tramontano	Room Margaret O. Dayhoff	Room Rosalind Franklin
	SYSTEMS (Session #07) Chair: <u>Patrick Aloy</u>	<b>GENES</b> (Session #08) Chair: <u>Artemis Hatzigeorgiou</u>	APPLICATIONS (Session #09) Chair: <u>Javier De Las Rivas</u>

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14:00 - 15:00	Proceeding talk   PiLSL: pairwise interaction learning-based graph neural network for synthetic lethality prediction in human cancers  • Authors: Xin Liu, Jiale Yu, Siyu Tao, Beiyuan Yang, Shike Wang, Lin Wang, Fang Bai and Jie Zheng	Proceeding talk   NSF4SL: negative-sample-free contrastive learning for ranking synthetic lethal partner genes in human cancers  • Authors: Shike Wang, Yimiao Feng, Xin Liu, Yong Liu, Min Wu and Jie Zheng	Applications talk   A cloud based resource to manage, access and explore omics datasets in multiuser environments  • Authors: Mario Looso, Philipp Goymann, Franz Ziegengeist, Carsten Kuenne, Daniel Spothelfer, Noah Knoppik and Jasmin Walter
	Highlight talk   Interpretable systems biomarkers predict response to immune-checkpoint inhibitors  • Authors: Oscar Lapuente-Santana, Maisa van Genderen, Peter Hilbers, Francesca Finotello and Federica Eduati	Proceeding talk   Efficient Permutation-based Genome-wide Association Studies for Normal and Skewed Phenotypic Distributions • Authors: Maura John, Markus Ankenbrand, Carolin Artmann, Jan Freudenthal, Arthur Korte and Dominik Grimm	Applications talk   Introducing X-Omics, the central multiomics data integration and AI modeling platform for biomarker data at Merck  • Author: Sven-Eric Schelhorn
	Highlight talk   Comprehensive prediction of robust synthetic lethality between paralog pairs in cancer cell lines  • Authors: Barbara De Kegel, Niall Quinn, Nicola Thompson, David Adams and Colm Ryan	Highlight talk   Analysis of eukaryotic lincRNA sequences indicates signatures of hindered translation linked to selection pressure  • Authors: Anneke Bruemmer, Rene Dreos, Ana Claudia Marques and Sven Bergmann	Applications talk   Global biodata resources: challenges to long-term sustainability of a crucial data infrastructure • Authors: Guy Cochrane and Chuck Cook
15:00 - 15:30		Coffee break and Exhibition	
	Auditorium Anna Tramontano	Room Margaret O. Dayhoff	Room Rosalind Franklin
	PROTEINS (Session #10) Chair: <u>Mark Wass</u>	GENOMES (Session #11) Chair: <u>Toni Gabaldón</u>	APPLICATIONS (Session #12) Chair: <u>Javier De Las Rivas</u>
	Highlight talk   PDBe-KB: collaboratively defining the biological context of structural data  • Author: Preeti Choudhary.	Proceeding talk   3CAC: improving the classification of phages and plasmids in metagenomic assemblies using assembly graphs  • Authors: Lianrong Pu and Ron Shamir	Applications talk   Open Targets: A Platform for Biological Data Integration  • Author: Irene Lopez Santiago
15:30 - 16:30	Proceeding talk   APPRIS Principal Isoforms and MANE Select Transcripts Define Reference Splice Variants • Authors: Fernando Pozo Ocampo, Laura Martinez Gomez, Jose Manuel Rodriguez, Jesús Vázquez and Michael Tress	Highlight talk   A global metagenomic map of urban microbiomes and antimicrobial resistance  • Authors: Alina Frolova, David Danko, Daniela Bezdan, Christopher E. Mason and The International Consortium Metasub	Sponsored talk by Vaticle   Building Biomedical Knowledge Graphs for In-Silico Drug Discovery • Authors: Tomás Sabat
	Highlight talk   AlphaFold Protein Structure Database: massively expanding the structural coverage of protein-sequence space with high-accuracy models  • Authors: Mihaly Varadi, Sameer Velankar, Stephen Anyango, Mandar Deshpande, Sreenath Nair, Cindy Natassia, Galabina Yordanova, David Yuan, Oana Stroe, Gemma Wood, Agata Laydon, Augustin Zidek, Tim Green, Kathryn Tunyasuvunakool, Stig Petersen, John Jumper, Ellen Clancy, Richard Green, Ankur Vora, Mira Lutfi, Michael Figurnov, Andrew Cowie, Nicole Hobbs, Pushmeet Kohli, Gerard Kleywegt, Ewan Birney and Demis Hassabis	Highlight talk   Unlocking capacities of genomics for the COVID- 19 response and future pandemics - Authors: Serghei Mangul, <u>Karishma Chhugani</u> , Sergey Knyazev, Varuni Sarwal, Ram Ayyala, Angela Lu and Adam Smith	Applications talk   Scalable In-memory paradigm for genomics data processing  • Authors: Ritesh Krishna, Vadim Elisseev and Laura-Jayne Gardiner
16:30 - 17:00		Keynote talk	
	Ana T. Freitas (INESC-ID/IST Technical University of Lisbon, Portugal)		
17:00 - 17:30	Personalized medicine in the era of artificial intelligence Chair: <u>Fátima Sánchez-Cabo</u>		
17:30 - 18:00			
18:00 - 18:30		Monday Poster session and Exhibition	
18:30 - 19:00			
19:00 - 19:30			

		TUESDAY, 20 September	
08:00 - 08:30	Registration desk open all day		
08:30 - 09:00		Welcome and announcements (08:45h)	
09:00 - 09:30	Keynote talk		
	María Rodríguez-Martínez (IBM Research Europe, Switzerland) Interpretable deep learning for cancer personalized medicine		
09:30 - 10:00	Chair: <u>Fátima Al-Shahrour</u>		
	Auditorium Anna Tramontano	Room Margaret O. Dayhoff	Room Rosalind Franklin
	<b>ELIXIR</b> (Session #13) Chair: <u>Katharina Heil</u>	PROTEINS (2) + GENES (1) (Session #14) Chair: <u>Mark Wass</u>	SYSTEMS (2) + DATA (1) (Session #15) Chair: <u>Anaïs Baudot</u>
10:00 - 11:00	From integrated COVID-19 data to integrated pathogen data analysis  Title: Setting the scene: Beyond COVID-19 - European preparedness for infectious disease outbreaks • Speaker: Katharina Lauer (ELIXIR)  Title: Pathogen Data Sharing and Workflows at the ENA • Speaker: Colman O'Cathail (EBI/COVID19 Data Portal)	Proceeding talk   Genes: Improved NSGA-II algorithms for multiobjective biomarker discovery  • Authors: Luca Cattelani and Vittorio Fortino	Highlight talk   Data: The AlMe registry for artificial intelligence in biomedical research  • Authors: Julian Matschinske, Nicolas Alcaraz, Arriel Benis, Gerda Cristal Villalba Silva, Martin Golebiewski, Dominik G. Grimm, Lukas Heumos, Tim Kacprowski, Olga Lazareva, Markus List, Zakaria Louadi, Josch Pauling, Nico Pfeifer, Richard Röttger, Veit Schwämmle, Kristel Van Steen, Gregor Sturm, Alberto Traverso, Martiela Vaz de Freitas, Leonard Wee, Nina Wenke, Massimiliano Zanin, Olga Zolotareva, Jan Baumbach and David B. Blumenthal
	Title: Using COVID-19 data genomics and sharing to set a new future standard  • Speaker: Bas Oude Munnink (Erasmus MC/VEO)  Title: Fully transparent viral genomics data analysis and sharing for everyone using public infrastructure.	Proceeding talk   Proteins: DistilProtBert: A distilled protein language model used to distinguish between real proteins and their randomly shuffled counterparts  - Authors: Yaron Geffen, Yanay Ofran and Ron Unger	Proceeding talk   Systems: DrDimont: Explainable drug response prediction from differential analysis of multi-omics networks  • Authors: Pauline Hiort, Julian Hugo, Justus Zeinert, Nataniel Müller, Spoorthi Kashyap, Jagath C. Rajapakse, Francisco Azuaje, Bernhard Y. Renard and Katharina Baum

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	snaring for everyone using public infrastructure • Speaker: <u>Wolfgang Maier (</u> Universitaet Freiburg/Galaxy) > Discussion	Highlight talk   Proteins: The clinical importance of tandem exon duplication-derived substitutions • Authors: Laura Martinez Gomez, Fernando Pozo Ocampo, Thomas Walsh, Federico Abascal and Michael Tress	Proceeding talk   Systems: GNN-SubNet: disease subnetwork detection with explainable Graph Neural Networks • Authors: <u>Bastian Pfeifer</u> , Anna Saranti and Andreas Holzinger
11:00 - 11:30		Coffee break and Exhibition	
	Auditorium Anna Tramontano  ELIXIR (Session #16)  Chair: <u>Katharina Heil</u>	Room Margaret O. Dayhoff  DATA (Session #17)  Chair: <u>Josep Lluís Gelpí</u>	Room Rosalind Franklin  PROTEINS (Session #18)  Chair: Mark Wass
	ELIXIR talk   The ELIXIR Machine Learning Focus Group: achievements and the road ahead • Speakers: Silvio Tosatto, Fotis Psomopoulos	Proceeding talk   SimBu: Bias-aware simulation of bulk RNA-seq data with variable cell type composition • Authors: Alexander Dietrich, Gregor Sturm, Lorenzo Merotto, Federico Marini, Francesca Finotello and Markus List	Proceeding talk   Insights into performance evaluation of compound-protein interaction prediction methods  • Authors: Adiba Yaseen, Imran Amin, Naeem Akhter, Asa Ben-Hur and Fayyaz Ul Amir Afsar Minhas
	ELIXIR talk   The ELIXIR Biodiversity Community - "Biodiversity data" aims and challenges • Speakers: Toni Gabaldón, Josephine Burgin, Robert Waterhouse	Proceeding talk   Detecting DNA of novel fungal pathogens using ResNets and a curated fungi-hosts data collection • Authors: <u>Jakub M Bartoszewicz</u> , Ferdous Nasri, Melania Nowicka and Bernhard Y Renard	Proceeding talk   Cross-Modality and Self-Supervised Protein Embedding for Compound-Protein Affinity and Contact Prediction  • Authors: Yuning You and Yang Shen
	ELIXIR talk   Federated EGA (title TBC) • Speaker: <u>Jordi Rambla</u>	Highlight talk   Discovering cell types using manifold learning and enhanced visualization of single-cell RNA-Seq data • Authors: Akram Vasighizaker, Saiteja Danda and Luis Rueda	Highlight talk   Missense variants in human ACE2 strongly affect binding to SARS-CoV-2 Spike providing a mechanism for ACE2 mediated genetic risk in Covid-19: A case study in affinity predictions of interface variants  - Authors: Stuart A. MacGowan, Michael I. Barton, Mikhail Kutuzov, Omer Dushek, P. Anton van der Merwe and Geoffrey J. Barton
12:30 - 13:00			
13:00 - 13:30	Lunch, Exhibition and Poster viewing  Birds of a Feather [12:45h - 13:45h, Margaret O. Dayhoff]  Sex and Gender Biases in Technology and Artificial Intelligence  Organised by Bioinfo4Women; Chair: R. Gonzalo Parra		
13:30 - 14:00		•	
	Auditorium Anna Tramontano	Room Margaret O. Dayhoff	Room Rosalind Franklin
	<b>ELIXIR meets Latin America</b> (Session #19) Chair: <u>José María Carazo</u>	GENOMES (Session #20) Chair: <u>Toni Gabaldón</u>	Institutional talks (Session #21) Chair: <u>Salvador Capella-Gutierrez</u>
	Welcome and Introduction • Speakers: José María Carazo and Andrew Smith  ELIXIR Europe: overview and opportunities	Proceeding talk   Discovering Significant Evolutionary Trajectories in Cancer Phylogenies • Authors: Leonardo Pellegrina and Fabio Vandin	Institutional talk   The Spanish Supercomputing Network (RES): HPC and Data Resources for a scientific revolution • Authors: Infrastructure Access Policy Unit - Barcelona Supercomputing Center. Oriol Pineda and Alberto A. Gómez
14:00 - 15:00	Author: Andrew Smith  Development and evolution of Bioinformatics Societies in Latin America: A2B2C (Argentina), AB3C (Brasil), BIOCANET (Costa Rica & Panama), BioNetMX (Mexico), SC2B2 (Colombia), SCB (Chile), SPB2C (Peru) and SOIBIO (Iberoamerica)  - Author: Javier De Las Rivas and Consortium Representatives Of Seven Bioinformatics National Societies From Latin-America And Soibio		Institutional talk   Ersilia, a hub of open-source AI/ML models for drug discovery and global health  • Authors: Gemma Turon and Miquel Duran-Frigola
	18 years after foundation it is time to divide and conquer • Author: Marcelo Brandão  Creating paths for the development and application of bioinformatics in Mexico • Authors: Irma Martínez-Flores, Shirley Alquicira-Hernández and Alejandra Eugenia Medina-Rivera  Bioinformatics in Argentina: The first 10+3 years of A2B2C • Authors: Nicolas Palopoli, Lucia Chemes, Georgina Stegmayer, Elin Teppa, Diego Bustos, Cristina Marino-Buslje, Flavio Spetale and Sebastián Fernández Alberti	Highlight talk   Higher order genetic interactions switch cancer genes from two-hit to one-hit drivers  • Authors: Solip Park, Fran Supek and Ben Lehner	Institutional talk   The Bioinfo4Women Programme: towards gender equity and diversity in science  - Authors: Alba Jene-Sanz, María José Rementería, Eva Alloza and Átia Cortés
15:00 - 15:30	Auditorium Anna Taranantana	Coffee break and Exhibition	Decay Pecalind Foreithin
	Auditorium Anna Tramontano  ELIXIR meets Latin America (Session #22)	Room Margaret O. Dayhoff  DATA (Session #23)	Room Rosalind Franklin  APPLICATIONS (Session #24)
	Chair: José María Carazo	Chair: <u>Josep Lluís Gelpí</u> Proceeding talk   Exploiting Pretrained Biochemical Language	Chair: Fátima Sánchez-Cabo  Applications talk   Bioinformatics methods for the analysis of rare-disease patient data – applications for target discovery and obtaining phenotype associations
	Research data management (RDM) in ELIXIR and insight into the RDM Toolkit  • Authors: Frederik Coppens and Carole Goble	Models for Targeted Drug Design  • Authors: Gökçe Uludoğan, Arzucan Özgür, Elif Özkırımlı, Kutlu Ülgen and Nilgün Karalı	Authors: Elena Rojano, James Perkins, Fernando Moreno Jabato, José Córdoba-Caballero, Elena Diaz-Santiago, Federico García-Criado, Florencio Pazos, Pedro Seoane and Juan Ranea
15:30 - 16:30	ELIXIR Training activities and opportunities for	Highlight talk   Scaling up oligogenic diseases research with OLIDA: the Oligogenic Diseases Database  • Authors: Barbara Gravel, Charlotte Nachtegael, Arnau Dillen,	Applications talk   Al microbiome-based recommendation system for improving soil health with bio-stimulants

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	> Open discussion	Highlight talk   PharmacoDB 2.0: improving scalability and transparency of in vitro pharmacogenomics analysis *Authors: Nikta Feizi, Sisira Kadambat Nair, *Petr Smirnov, Gangesh Beri, Christopher Eeles, Parinaz Nasr Esfahani, Minoru Nakano, Denis Tkachuk, Anthony Mammoliti, Evgeniya Goroberts, Arvind Singh Mer, Eva Lin, Yihong Yu, Scott Martin, Marc Hafner and Benjamin Haibe-Kains	Applications talk   Whole-genome sequencing analysis of food enzyme products reveals contaminations with genetically modified microorganism of related origin  • Authors: Jolien D'Aes, Marie-Alice Fraiture, Bert Bogaerts, Sigrid C.J. De Keersmaecker, Nancy H.C. Roosens and Kevin Vanneste
16:30 - 17:00		Keynote talk	
17:00 - 17:30	Graciela Gonzalez-Hernandez (Cedars-Sinai Medical Center (USA) Mining for Digital Epidemiology: Overcoming the Challenges of Real World Data Chair: <u>Salvador Capella-Gutierrez</u>		
17:30 - 18:00	Tuesday Poster session and Exhibition		
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22:00 - 22:30		Conference dinner	
22:30 - 23:00			
23:00 - 23:30			
23:30 - 00:00			

	WEDNESDAY, 21 September		
08:00 - 08:30	Registration desk open all day from 8:00h		
08:30 - 09:00	Welcome and announcements 8:45h		
09:00 - 10:00	Auditorium Anna Tramontano  CLIMATE CRISIS AND HEALTH (Session #25) Chair: Ana Conesa	Room Margaret O. Dayhoff  DATA (Session #26) Chair: Josep Lluís Gelpí	Room Rosalind Franklin  APPLICATIONS (Session #27) Chair: Anaïs Baudot
	Invited talk   Infectious disease decision-support tools to enhance resilience in climate change hotspots  • Speaker: Rachel Lowe	Highlight talk   Flimma: Federated and privacy-aware medical differential gene expression analysis  *Authors: Olga Zolotareva, Reza Nasirigerdeh, Julian  Matschinske, Reihaneh Torkzadehmahani, Mohammad Bakhtiari, Tobias Frisch, Julian Alexander Späth, David B. Blumenthal, Amir  Abbasinejad, Paolo Tieri, Georgios Kaissis, Daniel Rückert, Nina  Wenke, Markus List and Jan Baumbach	Applications talk   METALoci, identification of spatial enhancer hubs • Authors: Marc A. Marti-Renom, Irene Mota Gomez-Argente, Juan Antonio Rodriguez Perez and Dario Lupiañez
	Invited talk   The Catalan Initiative for the Earth Biogenome Project • Speaker: Montserrat Corominas	Proceeding talk   This is GlycoQL  • Authors: Catherine Hayes, Vincenzo Daponte, Julien Mariethoz and Frederique Lisacek  Highlight talk   Orchestrating and sharing large multimodal data for transparent and reproducible research  • Authors: Anthony Mammoliti, Petr Smirnov, Minoru Nakano, Zhaleh Safikhani, Christopher Eeles, Heewon Seo, Sisira Kadambat Nair, Arvind S Mer, Ian Smith, Chantal Ho, Gangesh Beri, Rebecca Kusko, Eva Lin, Yihong Yu, Scott Martin, Marc Hafner and Benjamin Haibe-Kains	Applications talk   Power analysis of cell-type deconvolution across human tissues  • Author: Anna Vathrakokoili Pournara, Zhichao Miao and Irene Papatheodorou  Applications talk   ChiTaH: a fast and accurate tool for identifying known human chimeric sequences from high-throughput sequencing data  • Authors: Milana Frenkel-Morgenstern, Rajesh Detroja and Sumit Mukherjee
	Auditorium Anna Tramontano	Room Margaret O. Dayhoff	Room Rosalind Franklin
	CLIMATE CRISIS AND HEALTH (Session #28) Chair: <u>Ana Conesa</u>	<b>GENOMES</b> (Session #29) Chair: <u>Toni Gabaldón</u>	APPLICATIONS (Session #30) Chair: <u>Anaïs Baudot</u>
	Invited talk   Synergies between climate variation and environmental degradation on malaria in southern Venezuela	Proceeding talk   DeepZF: Improved DNA-binding prediction of	Applications talk   A near-full compression of SARS-CoV-2 peptidome using UNIQmin
	Speaker: Isabel Fletcher	C2H2-zinc-finger proteins by deep transfer learning  • Authors: Sofia Aizenshtein-Gazit and Yaron Orenstein	Authors: Li Chuin Chong and Asif M. Khan
10:00 - 11:00	Speaker: Isabel Fletcher  Invited talk   Real-time Genomics for One Health     Speaker: Lara Urban	C2H2-zinc-finger proteins by deep transfer learning	Authors: Li Chuin Chong and Asif M. Khan  Applications talk   Cancer patient stratification and molecular mechanism identification using patient clinotypes and transcriptomics embeddings     Author: Zongliang Yue, Samuel Bharti, Eric Gong, Radomir Slominski, Thanh Nguyen, Lara Lanov, Christopher Willey and Jake Chen
10:00 - 11:00	Invited talk   Real-time Genomics for One Health	C2H2-zinc-finger proteins by deep transfer learning  • Authors: Sofia Aizenshtein-Gazit and Yaron Orenstein  Proceeding talk   CRISPRtracrRNA: Robust approach for CRISPR tracrRNA detection  • Authors: Alexander Mitrofanov, Marcus Ziemann, Omer	Applications talk   Cancer patient stratification and molecular mechanism identification using patient clinotypes and transcriptomics embeddings  • Author: Zongliang Yue, Samuel Bharti, Eric Gong, Radomir Slominski, Thanh Nguyen, Lara Lanov, Christopher Willey and
10:00 - 11:00 11:00 - 11:30	Invited talk   Real-time Genomics for One Health • Speaker: Lara Urban  Invited talk   Climate-sensitive disease outbreaks in the aftermath of extreme climatic events	C2H2-zinc-finger proteins by deep transfer learning     Authors: Sofia Aizenshtein-Gazit and Yaron Orenstein  Proceeding talk   CRISPRtracrRNA: Robust approach for CRISPR tracrRNA detection     Authors: Alexander Mitrofanov, Marcus Ziemann, Omer Alkhnbashi, Wolfgang Hess and Rolf Backofen  Highlight talk   Revisiting genetic artifacts on DNA methylation microarrays exposes novel biological implications     Authors: Benjamin Planterose Jiménez, Manfred Kayser and	Applications talk   Cancer patient stratification and molecular mechanism identification using patient clinotypes and transcriptomics embeddings  * Author: Zongliang Yue, Samuel Bharti, Eric Gong, Radomir Slominski, Thanh Nguyen, Lara Lanov, Christopher Willey and Jake Chen  Applications talk   Evaluation of machine learning strategies for imaging confirmed prostate cancer recurrence prediction on electronic health records  * Authors: Jacqueline Beinecke, Patrick Anders, Tino Schurrat, Dominik Heider, Markus Luster, Damiano Librizzi and Anne-
	Invited talk   Real-time Genomics for One Health • Speaker: Lara Urban  Invited talk   Climate-sensitive disease outbreaks in the aftermath of extreme climatic events	C2H2-zinc-finger proteins by deep transfer learning  • Authors: Sofia Aizenshtein-Gazit and Yaron Orenstein  Proceeding talk   CRISPRtracrRNA: Robust approach for CRISPR tracrRNA detection • Authors: Alexander Mitrofanov, Marcus Ziemann, Omer Alkhnbashi, Wolfgang Hess and Rolf Backofen  Highlight talk   Revisiting genetic artifacts on DNA methylation microarrays exposes novel biological implications • Authors: Benjamin Planterose Jiménez, Manfred Kayser and Athina Vidaki	Applications talk   Cancer patient stratification and molecular mechanism identification using patient clinotypes and transcriptomics embeddings  * Author: Zongliang Yue, Samuel Bharti, Eric Gong, Radomir Slominski, Thanh Nguyen, Lara Lanov, Christopher Willey and Jake Chen  Applications talk   Evaluation of machine learning strategies for imaging confirmed prostate cancer recurrence prediction on electronic health records  * Authors: Jacqueline Beinecke, Patrick Anders, Tino Schurrat, Dominik Heider, Markus Luster, Damiano Librizzi and Anne-

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12:00 - 12:30	The emerging small proteome Chair: Ana Conesa
12:30 - 13:00	Conference closing ceremony Presentation of ECCB/ISMB2023 Awards Final remarks
13:00 - 13:30 13:30 - 14:00	Lunch and Exhibition

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