



GREEKC MEETING 12-14 February, 2018 - Ljubljana:

Agenda

The nuts and bolts of an interoperable knowledge commons

Abstract

At this Workshop, producers and users of Gene Regulation Knowledge Commons resources will assess the state of the art in curation, representation, archiving, and sharing of information about gene regulatory processes; as well as its subsequent use in computational biology applications. Discussions will focus on the breadth of information types that need to be annotated with the help of ontologies, and to what extent ontologies, representation formats and data exchange mechanisms are mature enough to establish one interconnected and interoperable information pipeline that satisfies end users.



Day 1 - 12/02/2018:

Main Event: Institute of Biochemistry, Medical Faculty, University of Ljubljana		
08:30 - 09:00	Registration/signature sheet and lunch dues / find Lisbeth Pedersen!	
Morning session		
09:00 - 09:45	Conceptual thinking about gene regulation for biocuration	Ruth Lovering (RL)
09:45 - 10:30	Protein binds DNA makes RNA – Generating knowledge on gene regulation from high-throughput data	Jacques van Helden (JH)
10:30 - 11:00	Coffee break	
11:00 - 11:45	Transcriptional regulation around the clock	Damjana Rozman (DR)
11:45 - 12:30	Commons, Computers and Curators : Responsible Research and Innovation?	Ane Møller Gabrielsen (AMG) Anamika Chatterjee (AC)
12:30 - 13:30	Lunch	
Afternoon session		
13:30 - 14:15	Chromosomal organisation of regulatory regions	Colin Logie (CL)
14:15 - 15:00	Proteins and transcription regulation	Astrid Lægreid (AL)
15:00 - 15:30	Coffee break	
15:30 - 16:15	Transcription factor binding sites and sequence variants	Vsevolod Makeev (VM)
16:15 - 17:00	Measuring and modeling specificity of Protein-DNA Interactions	Gary Stormo (GS)



Day 2 - 13/02/2018:

Main Event: Institute of Biochemistry, Medical Faculty, University of Ljubljana		
Morning session		
8:30 - 9:00	Registration/signature sheet and lunch dues – find Lisbeth Pedersen!	
9:00 - 9:10	Opening	Damjana Rozman (DR) Martin Kuiper (MR)
9:10 - 10:00	Updates from the Action and the working group leaders	Martin Kuiper (MR)
10:00 - 11:00	Modeling specificity: current approaches, limitations and open problems	Gary Stormo (GR)
11:00 - 11:30	30 min break	
11:30 - 12:10	JASPAR: a comprehensive database of transcription factor binding profiles	Oriol Fornés (OF)
12:10 - 12:20	Renovating transcription factor binding consensus statements by merging up-to-date binding profiles	Ivan Kulakovskiy (IK)
12:20 - 13:00	Improving de-novo motif discovery by phylogenetic footprinting and modeling intra-motif dependencies	Ivo Grosse (IG)
Afternoon session		
13:00 - 14:00	Lunch	
14:00 - 17:30	Break-out sessions: <ul style="list-style-type: none"> - Representing and Assessing Transcription Factor Binding Specificity - Data sharing: Representation formats, sharing mechanisms, interoperability issues 	



Day 3 - 14/02/2018:

Main Event: Institute of Biochemistry, Medical Faculty, University of Ljubljana		
Morning session		
9:00 - 11:00	Representing and Assessing Transcription Factor Binding Specificity	
11:00 - 13:00	Data curation: Survey of ontologies and the gene regulation molecular systems that they should cover	
13:00 - 14:00	Lunch	
14:00 - 16:00	Finalising breakout discussions, document writing	
16:00 - 17:00	Plenary meeting, Action points, next steps	