

Biocuration 2018 Workshop Proposal.

Duration: 1 hour 30 min

Title

Clinical and Translational Data Curation and Harmonization

Proposed scope and main objective, and how these relate to biocuration

Substantial amount of resources and investment are put annually on generating clinical and translational research data in both academic and industrial organisations. Yet, despite such significant levels of investment, the actual data reuse remains surprisingly low. A main reason explaining this deficit is datasets usually require significant efforts to harmonise both syntactically and semantically. The perpetual need for added curation effort highlights a lack of interoperability between digital assets.

In the past years many efforts have been made via international consortia to tackle different aspects of this challenge, such as data standards, curation tools and algorithms, training and community building. Partners between academia and industry have gained extensive experiences such as the European Union Innovative Medicine Initiative funded projects IMI-eTRIKS, IMI-EMIF, IMI-AETIONOMY. Yet many questions remain open. This workshop would be a perfect event to discuss critical issues with the Biocuration community for sharing past experiences, come up new ideas and form cross-organizational, cross-cultural collaborations in clinical and translational data curation.

The organisers of this proposed workshop have been organising TransMed COSI of the ISMB meeting by ISCB (<https://www.iscb.org/ismbeccb2017-committee/committeelisting#TransMed>) since 2015. This might also be a good opportunity to link the ISB and the ISMB community regarding data curation in clinical and translational research.

Why the topic is of particular interest at this time

Since the Biocuration 2018 is focus on “Facilitating Precision Medicine”, we believe this is the right time for a workshop on this topic.

Suggested format (i.e. talks, panel, posters, etc.):

-Talks (60 min):

Current landscape of clinical and translational data curation (20 min)

International standards of clinical and research data (20 min)

Challenges and approaches in biotech and pharmaceutical industry (20 min)

-Discussion panel (30 min): Future of data curation in clinical and translational research

Data standards; Curation infrastructures (tools and algorithms); Trainings; Opportunities for innovations.

List all proposed speakers / panellists / participants to be involved in the proposed activities

Prof. Susanna-Assunta Sansone
University of Oxford, UK

Dr. Reinhard Schneider
Head of Bioinformatics Core Facility
Luxembourg Centre for Systems Biomedicine (LCSB)

Dr. Samiul Hasan
Director, Data Analytics Solution Engineer
GlaxoSmithKline plc.

Dr. Martin Romacker
Principal Scientist
Roche Innovation Center Basel, Switzerland

Dr. Paul Houston
European Liaison at CDISC

Confirmed workshop organising committee:

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