WP8 Status update

Henrik Edgren on behalf of WP8 (EBI, KI, UDUS, TUM-MED, UH)
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PM use case

- The PM project is a collaboration between University of Helsinki / Institute for Molecular Medicine Finland and the HUCS Hematology clinic.
- Concentrates on adult acute myeloid leukemia (AML).
  - Clear need for improved treatments.
  - Ease of sampling.
  - Good clinical collaboration.
- Aims to improve AML treatment, by using drug testing and molecular profiling techniques to guide patient treatment.
  - Plenty of data, which is difficult to interpret.
WP8 roadmap

○ Deliverables
  ○ Completed deliverables: none yet
    ○ deliverables 8.1 and 8.2 due month 30 (June 2014), 8.3 due month 48 (December 2015).
  ○ Future deliverables: concrete development steps, time frame of work to be done and milestones

○ Interactions with other WPs
  ○ Usage scenario development with WP5.
  ○ Comments on tool registry for WP4, WP8 relevant identifiers for WP3.
  ○ Rinus Voorham & Janneke van Denderen (WP2) attended the WP8 meeting in Helsinki in January.

○ Technical resources accessed/used
  ○ Testing of data sources / data portals for inclusion in PM pipeline.
Deliverable 8.1

- Task is to develop a process description for
  - sharing PM data and
  - gaining access to PM data
- In a secure and legal way

- Idea:
  - Legal theory and practice of data access can be quite different
    - Analyze progress by making several cross-border data requests
  - Requesting data with different confidentiality
  - Documentation of the process in detail (for both sides)
    - All documents related to the data request process should be stored
    - All events should be noted down with date and a brief description
      - “best practices” and guidelines for data requests

- Drafts of documentation guidelines and data level definitions written. Will be discussed during the wp8 specific session today.
- Process to identify AML data owners in progress, e.g. via the Swedish AML registry.
Deliverables 8.2 & 8.3

8.2: Definition of PM data types and mappings between them (report).

8.3: Demonstration of interoperability between different types of PM data.
  - In practice, a prototype PM data analysis / annotation pipeline.
• **Build a database to organise and share PM FIMM datasets**
  First and essential step for making the FIMM personalized medicine data available. Actors: Chris Morris (consultant), Morris Swertz (Consultant Molgenis)

• **Build a pipeline for PM FIMM Omics datasets annotation**

• **Build a pipeline for finding human samples with particular parameters**
  Work to define specific parameters and flag useful databases. Design of a pipeline architecture around EBI Biosamples database (BSD) which contains information about biological samples from chosen databases.

• Selected Cancer specific databases:
  • COSMIC-catalogue of somatic mutation in cancer.
  • ICGC
  • TCGA
  • Swedish Cancer registries (Martin Fransson)

• Selected Other databases:
  • BioBanks
  • AML specific clinical trials
D8.2 and 8.3

- BMB WP8 database: sharing PM data in a secure manner
- Links to knowledge based databases – PM data annotation
- Links to Reference databases - pipeline to find relevant patient samples.

NB: Two different user groups for use case: clinicians and researchers.

Nathalie Conte, Stephanie Suhr, Adam Falcounbridge
WP8 products

- New resources, tools or services created or in the process of being created
  - All three deliverables map to resources or tools.

- Plans for user feedback and dissemination
  - User feedback
    - Project started based on the needs of clinical collaborators.
    - Daily interaction with biologists involved in the PM project.
    - Weekly / bi-weekly interaction with clinical partners.
  - Active dissemination of PM project at conferences, both by clinicians and biological researchers.
Data bridges planned under WP8
BioMedBridges has been presented at...

- Active dissemination of PM project at conferences, both by clinicians and biological researchers.
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