OBI/Cells call
Agenda

• 1. Update on CL meeting (for those who weren't present) TM/AD
2. Identification of terms in scope for OBI (CL/PO) PK/RM/LC
3. Presentation relevant OBI structure - BP/HP
4. Propose design pattern for these in OBI BP/HP
5. Create OBI tracker items BP/HP
6. Consider consequences for source ontologies - all
OBI

- Scope is wide
- Experimental processes
- Materials used in/generated by experiments: Kit – instruments, biological materials
- Data transformation
- Imports terms from other ontologies - MIREOT
- Built in OWL, collaboratively
Cells in OBI

Cell – parent for imported cell types from CL and locally defined terms (for experimentally obtained) cell types - may have additional restrictions e.g. Lymph node cell, splenocyte
Cell Cultures in OBI

- 'cell culture supernatant'
- 'cell culture'
  - 'adherent cell culture'
  - 'CD3+ T cell culture'
  - 'CD3- T cell culture'
  - 'CD4- T cell culture'
  - 'CD8- T cell culture'
- 'cell line culture'
  - 'clonal cell culture'
- 'culture of antigen presenting cells'
- 'culture of effector T cells'
- 'PBMC cell culture'
- 'primary cell culture'
- 'cell line cell'

 asserts that is specified output of some 'isolation of PBMCs'
Design Patterns

• Experimental cells are defined in terms of
  – specified_output of some material processing protocol
    • e.g. PBMC isolation for PBMC cell culture
  – Biological attributes
  – E.g. CD8- cell culture 'has grain' some (cell and not (has_part some 'CD8 receptor'))
  – E.g. Splenocyte is_specified_output_of some ('organ harvesting' and (has_specified_input some Spleen)) – where spleen is imported from FMA
Cell Ontology:

Plant Ontology:
CL: Experimentally modified cell = no match in OBI
CL: cell line cell = cell line cell (no children in OBI)
CL: primary cell line cell ~ primary cell culture (is a cell culture)
CL: permanent cell line cell ~ immortalized cell line culture (is a cell culture)
PO cultured cell – syn? cell line cell (no children in OBI)
PO cultured protoplast – no match
PO: cultured leaf cell – no match
PO: cultured root cell – no match
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