

# Update on apoptosis project

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Annotation call, 22/11/2011

# Update on ontology terms/structure

- Done since the GOC-UCL meeting:
  - Updated def. of GO:0008219 cell death
  - Updated name and def. of GO:0006915 apoptosis
  - Added GO:0097189 apoptotic body
  - Added synonyms
  - Resolution not to obsolete GO:0070269 pyroptosis

# GO:0070269 pyroptosis

- There were objections to this obsolescence, accompanied by suggestions for papers to be annotated. Here's a summary:
- “[As of 17/11/2011] There are 81 references in Pubmed that refer to this term, including mechanistic studies and the definition of a "pyroptososome" (PMID: 17599095 and 6 other references). ...clearly this is an area of much recent research, with over half the references published in the last 22 months. ... look at the papers ... such as PMID:21804020 or PMID:21687424 or PMID:20417169”.
- Can this be a part of the apoptosis curation effort (once the main apoptosis GO structure is in place)?

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- Next:
  - Add apoptosis top-level terms
  - Add their regulation terms
  - Merge anti-apoptosis and propose to obsolete its children terms
  - Suggest new terms for their re-annotation
  - Etc.

# Latest feedback from the experts

- Latest questions asked:
  - Is activation-induced cell death a true sub-modality of extrinsic apoptosis? (See [https://sourceforge.net/tracker/?func=detail&aid=3386805&group\\_id=36855&atid=440764](https://sourceforge.net/tracker/?func=detail&aid=3386805&group_id=36855&atid=440764))
  - Should we create terms for special types of cell death such as parthanatos, entosis, netosis?
  - GO:0043653 mitochondrial fragmentation involved in apoptosis: does this process have a role in the apoptotic signaling pathway, or is just a side event that cannot induce apoptosis *per se*?
- Responses received
- Plans for following feedback requests

# Apoptosis curation/re-curation effort

- Would have to wait until main GO structure is in
- Will keep you updated by email or at next annotation call
- Then, likely, among terms you could start with are:
  - GO:0043028 caspase regulator activity (now renamed) and its children
  - GO:0045767 regulation of anti-apoptosis and its children
  - GO:0070269 pyroptosis