



Definition

- A nanopublication is a single, machinereadable, citable scientific assertion along with associated provenance.
- Nanopublications come with the idea that their authors/providers may gain credit for the use of these assertions by others

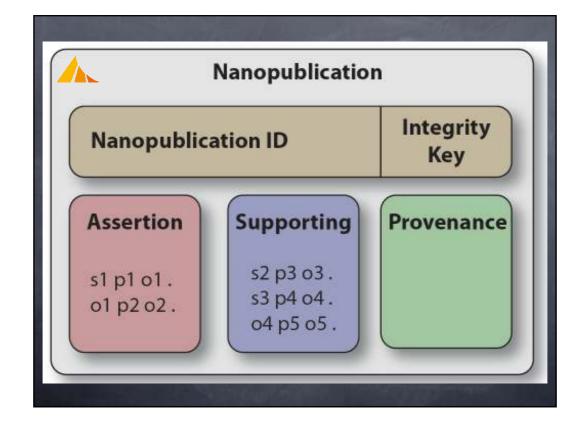


Definition

- 'Nano' refers just to its 'smallness'
- 'Publication' refers to its citeability; a nanopublication is the smallest possible textual publication that may be scientifically meaningful



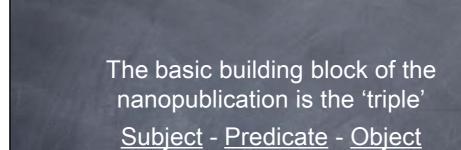
- Each nanopublication has a unique URI
- Each one has a time stamp
- And one or more provenance labels
 (author(s), article, journal, database, patent)





Nanopublication Schema

- A statement part, containing the actual scientific assertion
- A supporting part, containing descriptive properties about the assertion
- A provenance part: the origin of the assertion
- An integrity key, which ensures authenticity and versioning



unambiguous 'entities' or 'concepts' have URIs



- No strict criteria (impossible, and inhibitory to uptake) for the contents of nanopublications
- Some clear minimal guidelines though:
- Single scientific assertion (does not need to be a single triple)
- Supporting evidence can be used to note cell type, assay method, concentration etc.
- [®] "Bags" of entities also allowed. (a humanreadable statement and the lists of entities mentioned without encoding their full causal relationships.



- · The entities have URIs.
- This allows for disambiguation of synonyms & homonyms, so that nanopublications can reflect the conceptual content of an assertion, irrespective of the actual words used.



