

# Ontology changes from version 1.4 to 1.5

## Ontology changes

- [VIVOONT-416](#) identifying primary job appointments
- modeling citation information for publications
  - [VIVOONT-435](#) classes needed for citation counts
  - [VIVOONT-439](#) modeling Faculty of 1000 citation links
- [VIVOONT-446](#) adding new types of publications to better align with PubMed.
- [VIVOONT-442](#) removed class vivo:ResearchLaboratory and added vivo:ServiceProvidingLaboratory, to align better with eagle-i ontology.

## Full details

Ontology changes may be viewed in detail in the [VIVO Ontology issue tracking system](#).