Release Notes for BAO version 2.7.5

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Release Date: March 8, 2023

### About BAO

The BioAssay Ontology (BAO) has been developed to formally describe biological screening assays and their results including high-throughput screening (HTS) data; specifically in the domain of small molecule drug and probe development. BAO enables categorization of assays and results by based on several concepts that are important to interpret and analyze screening data with the goal to infer the mechanism of action of small molecules based on the known aggregate screening results from many assays.

### Changes in BAO v 2.7.5

* Added 2 new terms: preclinical study, disease model
* <https://github.com/BioAssayOntology/BAO/issues/60>

### Reassigned locations

* 54 BAO terms and 12 NCIT terms from one location to another <https://github.com/BioAssayOntology/BAO/issues/61>
* Deprecated 17 BAO terms <https://github.com/BioAssayOntology/BAO/issues/63>
* Deleted 7 NCIT terms <https://github.com/BioAssayOntology/BAO/issues/63>

### Reassigned locations

|  |  |  |  |
| --- | --- | --- | --- |
| **label** | **iri** | **previous\_parent\_iri** | **currrent\_parent\_iri** |
| portal vein study | BAO\_0010094 | BAO\_0010090 | BAO\_0010278 |
| drug abuse assay | BAO\_0002534 | BAO\_0002533 | BAO\_0002765 |
| drug interaction assay | BAO\_0002188 | BAO\_0002533 | BAO\_0000015 |
| drug interaction assay | BAO\_0002188 | BAO\_0002533 | BAO\_0002533 |
| drug interaction assay | BAO\_0002188 | BAO\_0002533 | BAO\_0000015 |
| drug interaction assay | BAO\_0002188 | BAO\_0002533 | BAO\_0002533 |
| organism behavior assay | BAO\_0002765 | BAO\_0000015 | BAO\_0000008 |
| Annexin V apoptosis assay | BAO\_0010265 | http://purl.obolibrary.org/obo/NCIT\_C79364 | BAO\_0002043 |
| binding assay | BAO\_0002989 | http://purl.obolibrary.org/obo/NCIT\_C79364 | BAO\_0000015 |
| biosensor method | BAO\_0010264 | http://purl.obolibrary.org/obo/NCIT\_C79364 | BAO\_0000035 |
| cell binding assay | BAO\_0010250 | http://purl.obolibrary.org/obo/NCIT\_C79364 | BAO\_0002989 |
| cell proliferation assay | BAO\_0002805 | http://purl.obolibrary.org/obo/NCIT\_C79364 | BAO\_0000015 |
| cell viability assay | BAO\_0003009 | http://purl.obolibrary.org/obo/NCIT\_C79364 | BAO\_0000015 |
| CEREP assay | BAO\_0010263 | http://purl.obolibrary.org/obo/NCIT\_C79364 | BAO\_0002533 |
| chemotaxis assay | BAO\_0010269 | http://purl.obolibrary.org/obo/NCIT\_C79364 | BAO\_0000015 |
| chemotaxis assay | BAO\_0010269 | http://purl.obolibrary.org/obo/NCIT\_C79365 | BAO\_0000015 |
| concentration response assay | BAO\_0010258 | http://purl.obolibrary.org/obo/NCIT\_C79364 | BAO\_0000409 |
| CRISPR/Cas9 method | BAO\_0010249 | http://purl.obolibrary.org/obo/NCIT\_C79364 | BAO\_0002431 |
| Cue Signal Response assay | BAO\_0000042 | http://purl.obolibrary.org/obo/NCIT\_C79364 | BAO\_0003002 |
| Cue Signal Response assay | BAO\_0000042 | BAO\_0003002 | BAO\_0003002 |
| cytokine secretion assay | BAO\_0003003 | http://purl.obolibrary.org/obo/NCIT\_C79364 | BAO\_0000042 |
| cytokine secretion assay | BAO\_0003003 | BAO\_0000042 | BAO\_0000042 |
| cytokine secretion assay | BAO\_0003003 | BAO\_0003002 | BAO\_0000042 |
| cytotoxicity assay | BAO\_0002993 | http://purl.obolibrary.org/obo/NCIT\_C79364 | BAO\_0000015 |
| Dahl salt-sensitive rat model | BAO\_0010257 | http://purl.obolibrary.org/obo/NCIT\_C79364 | BAO\_0010279 |
| delayed-type hypersensitivity model | BAO\_0010260 | http://purl.obolibrary.org/obo/NCIT\_C79364 | BAO\_0010279 |
| enzyme activity assay | BAO\_0002994 | http://purl.obolibrary.org/obo/NCIT\_C79364 | BAO\_0000015 |
| Epitope Mapping | BAO\_0010266 | http://purl.obolibrary.org/obo/NCIT\_C79364 | BAO\_0000466 |
| equilibrium assay | BAO\_0010267 | http://purl.obolibrary.org/obo/NCIT\_C79364 | BAO\_0000123 |
| gene expression assay | BAO\_0002785 | http://purl.obolibrary.org/obo/NCIT\_C79364 | BAO\_0000015 |
| GPCR Signaling | BAO\_0010077 | http://purl.obolibrary.org/obo/NCIT\_C79364 | BAO\_0003002 |
| gpcrMAX℠ GPCR Assay Panel | BAO\_0010277 | http://purl.obolibrary.org/obo/NCIT\_C79365 | BAO\_0010077 |
| kinase activity assay | BAO\_0002005 | http://purl.obolibrary.org/obo/NCIT\_C79364 | BAO\_0002795 |
| kinase activity assay | BAO\_0002005 | BAO\_0002795 | BAO\_0002795 |
| kinome activity assay | BAO\_0010248 | http://purl.obolibrary.org/obo/NCIT\_C79364 | BAO\_0002989 |
| orthotopic tumor model | BAO\_0010268 | http://purl.obolibrary.org/obo/NCIT\_C79364 | BAO\_0010279 |
| orthotopic tumor model | BAO\_0010268 | http://purl.obolibrary.org/obo/NCIT\_C79367 | BAO\_0010279 |
| PD biomarker assay | BAO\_0010270 | http://purl.obolibrary.org/obo/NCIT\_C79364 | BAO\_0000015 |
| posttranslation modification assay | BAO\_0003004 | http://purl.obolibrary.org/obo/NCIT\_C79364 | BAO\_0003002 |
| posttranslation modification assay | BAO\_0003004 | BAO\_0003002 | BAO\_0003002 |
| protein expression assay | BAO\_0010252 | http://purl.obolibrary.org/obo/NCIT\_C79364 | BAO\_0000015 |
| protein profiling assay | BAO\_0010026 | http://purl.obolibrary.org/obo/NCIT\_C79364 | BAO\_0000015 |
| signal transduction assay | BAO\_0003002 | http://purl.obolibrary.org/obo/NCIT\_C79364 | BAO\_0000015 |
| signaling pathway assay | BAO\_0010251 | http://purl.obolibrary.org/obo/NCIT\_C79364 | BAO\_0003002 |
| syngeneic tumor model | BAO\_0010254 | http://purl.obolibrary.org/obo/NCIT\_C79364 | BAO\_0010279 |
| T-cell activation assay | BAO\_0010253 | http://purl.obolibrary.org/obo/NCIT\_C79364 | BAO\_0002805 |
| T-cell cytotoxicity assay | BAO\_0010262 | http://purl.obolibrary.org/obo/NCIT\_C79364 | BAO\_0002993 |
| T-cell engraftment | BAO\_0010255 | http://purl.obolibrary.org/obo/NCIT\_C79364 | BAO\_0010279 |
| target engagement assay | BAO\_0010259 | http://purl.obolibrary.org/obo/NCIT\_C79364 | BAO\_0000110 |
| targeted transcriptional assay | BAO\_0010044 | http://purl.obolibrary.org/obo/NCIT\_C79364 | BAO\_0000015 |
| thermal shift assay | BAO\_0010261 | http://purl.obolibrary.org/obo/NCIT\_C79364 | BAO\_0002804 |
| transcriptional profiling assay | BAO\_0002995 | http://purl.obolibrary.org/obo/NCIT\_C79364 | BAO\_0002785 |
| transcriptional profiling assay | BAO\_0002995 | BAO\_0002785 | BAO\_0002785 |
| bioavailability assay | BAO\_0002530 | BAO\_0002182 | BAO\_0000015 |
| drug absorption assay | BAO\_0010082 | BAO\_0002182 | BAO\_0000015 |
| drug excretion assay | BAO\_0010139 | BAO\_0002182 | BAO\_0000015 |
| drug metabolism assay | BAO\_0010090 | BAO\_0002182 | BAO\_0000015 |
| method development and validation | BAO\_0010225 | BAO\_0002182 | BAO\_0000015 |
| non-specific protein binding assay | BAO\_0002531 | BAO\_0002182 | BAO\_0000015 |
| other pharmacokinetic studies | BAO\_0010226 | BAO\_0002182 | BAO\_0000015 |
| parallel artificial membrane permeability assay | BAO\_0010072 | BAO\_0002182 | BAO\_0000015 |
| parallel artificial membrane permeability assay | BAO\_0010072 | BAO\_0000026 | BAO\_0000015 |
| pharmacometrics | BAO\_0010223 | BAO\_0002182 | BAO\_0000015 |
| tissue distribution assay | BAO\_0002532 | BAO\_0002182 | BAO\_0000015 |
| PRESTO-TANGO | BAO\_0010079 | BAO\_0000015 | BAO\_0000248 |
| PRESTO-TANGO | BAO\_0010079 | BAO\_0010077 | BAO\_0000248 |
| PRESTO-TANGO | BAO\_0010079 | BAO\_0010078 | BAO\_0000248 |

|  |  |  |
| --- | --- | --- |
| **iri** | **previous\_parent\_iri** | **current\_parent\_iri** |
| http://purl.obolibrary.org/obo/NCIT\_C101294 | http://purl.obolibrary.org/obo/NCIT\_C79364 | http://www.bioassayontology.org/bao#BAO\_0002445 |
| http://purl.obolibrary.org/obo/NCIT\_C122936 | http://purl.obolibrary.org/obo/NCIT\_C79364 | http://www.bioassayontology.org/bao#BAO\_0010279 |
| http://purl.obolibrary.org/obo/NCIT\_C127803 | http://purl.obolibrary.org/obo/NCIT\_C79364 | http://www.bioassayontology.org/bao#BAO\_0010278 |
| http://purl.obolibrary.org/obo/NCIT\_C134270 | http://purl.obolibrary.org/obo/NCIT\_C79364 | http://www.bioassayontology.org/bao#BAO\_0000409 |
| http://purl.obolibrary.org/obo/NCIT\_C16681 | http://purl.obolibrary.org/obo/NCIT\_C79364 | http://www.bioassayontology.org/bao#BAO\_0000448 |
| http://purl.obolibrary.org/obo/NCIT\_C18639 | http://www.bioassayontology.org/bao#BAO\_0002532 | http://www.bioassayontology.org/bao#BAO\_0002527 |
| http://purl.obolibrary.org/obo/NCIT\_C18803 | http://purl.obolibrary.org/obo/NCIT\_C79364 | http://www.bioassayontology.org/bao#BAO\_0010279 |
| http://purl.obolibrary.org/obo/NCIT\_C19286 | http://purl.obolibrary.org/obo/NCIT\_C79364 | http://www.bioassayontology.org/bao#BAO\_0002036 |
| http://purl.obolibrary.org/obo/NCIT\_C19425 | http://purl.obolibrary.org/obo/NCIT\_C79364 | http://www.bioassayontology.org/bao#BAO\_0000015 |
| http://purl.obolibrary.org/obo/NCIT\_C19812 | http://purl.obolibrary.org/obo/NCIT\_C79367 | http://www.bioassayontology.org/bao#BAO\_0010279 |
| http://purl.obolibrary.org/obo/NCIT\_C19812 | http://purl.obolibrary.org/obo/NCIT\_C79367 | http://www.bioassayontology.org/bao#BAO\_0010279 |
| http://purl.obolibrary.org/obo/NCIT\_C19812 | http://purl.obolibrary.org/obo/NCIT\_C79364 | http://www.bioassayontology.org/bao#BAO\_0010279 |
| http://purl.obolibrary.org/obo/NCIT\_C19812 | http://purl.obolibrary.org/obo/NCIT\_C79364 | http://www.bioassayontology.org/bao#BAO\_0010279 |
| http://purl.obolibrary.org/obo/NCIT\_C20604 | http://purl.obolibrary.org/obo/NCIT\_C79364 | http://www.bioassayontology.org/bao#BAO\_0002128 |
| http://purl.obolibrary.org/obo/NCIT\_C89775 | http://purl.obolibrary.org/obo/NCIT\_C79364 | http://www.bioassayontology.org/bao#BAO\_0002114 |

### Deprecated BAO classes and removed external classes

|  |  |
| --- | --- |
| **ID** | **Term Label** |
| BAO\_0010238 | rodent oral bioavailability |
| BAO\_0010239 | rodent oral half-life |
| BAO\_0010231 | non-rodent oral bioavailability |
| BAO\_0010232 | non-rodent oral half-life |
| BAO\_0010240 | rodent Vdss |
| BAO\_0010233 | non-rodent Vdss |
| BAO\_0010229 | non-rodent IV clearance |
| BAO\_0010230 | non-rodent IV half-life |
| BAO\_0010236 | rodent IV clearance |
| BAO\_0010237 | rodent IV half-life |
| BAO\_0010228 | non-rodent excretion in urine |
| BAO\_0010235 | rodent excretion in urine |
| BAO\_0010011 | in vivo efficacy assay |
| BAO\_0010256 | in vivo PK/PD assay |
| BAO\_0002183 | pharmacodynamic assay |
| BAO\_0010234 | rodent PK |
| BAO\_0010227 | non-rodent PK |
| NCIT\_C18079 | Cardiovascular Pharmacology |
| NCIT\_C90370 | Central Nervous System Pharmacology |
| NCIT\_C18996 | Renal Pharmacology |
| NCIT\_C90449 | Respiratory Pharmacology |
| NCIT\_C17376 | Mutagenesis |
| NCIT\_C79365 | Pharmacology: Secondary Pharmacodynamics |
| NCIT\_C79367 | Pharmacology: Pharmacodynamic Drug Interactions |
| NCIT\_C79364 | Pharmacology: Primary Pharmacodynamics |

### Public Location:

[http://www.bioassayontology.org/bao](http://www.bioassayontology.org/bao/bao_complete.owl)

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