

Identifiers

Compartment

Identifier type	MetNetX compartment
URI/identification authority	http://identifiers.org/metanetx.compartment/
Example identifier	http://identifiers.org/metanetx.compartment/MNXC15
Identifier pattern	<code>^(MNX[CD]\d+ BOUNDARY)\$</code>
Primary resource	https://www.metanetx.org/comp_info/MNXC15
Info	

Identifier type	UniProt
URI/identification authority	https://registry.identifiers.org:/registry/uniprot
Example identifier	
Identifier pattern	<code>^([A-N,R-Z][0-9]([A-Z][A-Z, 0-9][A-Z, 0-9][0-9]){1,2}) ([O,P,Q][0-9][A-Z, 0-9][A-Z, 0-9][0-9])(\.\d+)?\$</code>
Primary resource	https://www.uniprot.org/
Info	

Identifier type	Gene Ontology
URI/identification authority	https://registry.identifiers.org:/registry/go
Example identifier	
Identifier pattern	<code>^GO:\d{7}\$</code>
Primary resource	https://www.ebi.ac.uk/QuickGO/
Info	

Compound

Identifier type	Wikidata
URI/identification authority	https://registry.identifiers.org/registry/wikidata
Example identifier	
Identifier pattern	<code>^Q\d+\$</code>
Primary resource	https://www.wikidata.org/
Info	

Identifier type	SABIO-RK chemical
URI/identification authority	http://identifiers.org/sabiork.compound/
Example identifier	http://identifiers.org/sabiork.compound/75
Identifier pattern	<code>^((S\d+\$) (Y[A-Z]{2}\d{3}[a-zA-Z](\-[A-Z])?))\$</code>
Primary resource	
Info	information about biochemical reactions, their kinetic equations with their parameters, and the experimental conditions under which these parameters were measured

Identifier type	MetaNetX chemical
URI/identification authority	http://identifiers.org/metanetx.chemical/
Example identifier	http://identifiers.org/metanetx.chemical/MNXM1723
Identifier pattern	<code>^(MNXM\d+ BIOMASS)\$</code>
Primary resource	https://www.metanetx.org/chem_info/MNXM1723
Info	integrates various information from genome-scale metabolic network reconstructions such as information on reactions, metabolites and compartments

Identifier type	KEGG compound
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URI/identification authority	http://identifiers.org/kegg.compound/
Example identifier	http://identifiers.org/kegg.compound/C12345
Identifier pattern	<code>^C\d+\$</code>
Primary resource	https://www.kegg.jp/entry/C12345
Info	

Identifier type	PubChem-compound
URI/identification authority	http://identifiers.org/pubchem.compound/
Example identifier	http://identifiers.org/pubchem.compound/100101
Identifier pattern	<code>^\d+\$</code>
Primary resource	https://pubchem.ncbi.nlm.nih.gov/compound/100101
Info	Unique compound identifier (guaranteed to be unique for a unique structure)

Identifier type	PubChem-substance
URI/identification authority	http://identifiers.org/pubchem.substance/
Example identifier	http://identifiers.org/pubchem.substance/100101
Identifier pattern	<code>^\d+\$</code>
Primary resource	https://pubchem.ncbi.nlm.nih.gov/substance/100101
Info	Compound identifier (identifier for submitted structure records, not unique)

Document

Identifier type	DOI
URI/identification authority	http://identifiers.org/doi/
Example identifier	http://identifiers.org/doi/10.1038/nbt1156
Identifier pattern	<code>^(doi\:)?\d{2}\.\d{4}.*\$</code>
Primary resource	https://doi.org/10.1038/nbt1156

Info	Unique identifier for documents including peer-reviewed publications
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Sequence

Identifier type	NCBI
URI/identification authority	http://identifiers.org/ncbigene/
Example identifier	http://identifiers.org/ncbigene/100010
Identifier pattern	<code>^d+\$</code>
Primary resource	https://www.ncbi.nlm.nih.gov/gene/100010
Info	Gene information from sequenced genomes (to soon to be sequenced genomes)

Kinetic Models

Identifier type	BRENDA
URI/identification authority	https://registry.identifiers.org:/registry/brenda
Example identifier	
Identifier pattern	<code>^((\d+\. - \. -) (\d+ \. \d+ \. -) (\d+ \. \d+ \. \d+ \. -) (\d+ \. \d+ \. \d+ \. \d+))\$</code>
Primary resource	https://www.brenda-enzymes.org/
Info	

Mathematical Models

For the mathematical models we may need to go with SEEK identifiers for models described in IBISBAHub.

Identifier type	BioModels
URI/identification authority	http://identifiers.org/biomodels.db/
Example identifier	http://identifiers.org/biomodels.db/BIOMD0000000048

Identifier pattern	
Primary resource	
Info	The cerevisiae model of our choice is not in the DB!!

Identifier type	BiGG Model
URI/identification authority	https://registry.identifiers.org/registry/bigg.model
Example identifier	
Identifier pattern	<code>^[a-z_A-Z0-9]+\$</code>
Primary resource	http://bigg.ucsd.edu/models
Info	

Patents

Several patent databases are available. WP6 decision

Plasmids

Identifier type	SEVA Plasmids
URI/identification authority	http://beta.labgeni.us/registries/SEVA/
Example identifier	http://beta.labgeni.us/registries/SEVA/pSEVA611/
Identifier pattern	
Primary resource	
Info	Are SEVA plasmids used in IBISBA? Does this URI guarantee to resolve identifiers in future?

Need advice from WP6

Reaction

Identifier type	MetaNetX reaction
URI/identification authority	http://identifiers.org/metanetx.reaction/

Example identifier	http://identifiers.org/metanetx.reaction/MNXR101574
Identifier pattern	<code>^MNXR\d+\$</code>
Primary resource	https://www.metanetx.org/equa_info/MNXR101574
Info	

Identifier type	KEGG reaction
URI/identification authority	http://identifiers.org/kegg.reaction/
Example identifier	http://identifiers.org/kegg.reaction/R00100
Identifier pattern	<code>^R\d+\$</code>
Primary resource	https://www.kegg.jp/entry/R00100
Info	

Identifier type	Rhea
URI/identification authority	https://registry.identifiers.org:/registry/rhea
Example identifier	
Identifier pattern	<code>^\d{5}\$</code>
Primary resource	https://www.rhea-db.org/
Info	

Strains

This seems to be so generic that Strains can only reasonably be referenced by a URL. For information, there is also:

Identifier type	ATCC
URI/identification authority	http://identifiers.org/atcc/
Example identifier	http://identifiers.org/atcc/204508
Identifier pattern	
Primary resource	

Info	Not exhaustive
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Researchers

Identifier type	ORCID
URI/identification authority	http://identifiers.org/orcid/
Example identifier	
Identifier pattern	
Primary resource	
Info	