

user
id [INTEGER]
username [VARCHAR(64)]
email [VARCHAR(120)]
password_hash [VARCHAR(128)]
about_me [VARCHAR(140)]
last_seen [DATETIME]

followers
follower_id [INTEGER]
followed_id [INTEGER]

post
id [INTEGER]
body [VARCHAR(140)]
timestamp [DATETIME]
user_id [INTEGER]

gibbs_energy
id [INTEGER]
standard_dg [FLOAT]
standard_dg_std [FLOAT]
ph [FLOAT]
ionic_strength [FLOAT]

author
id [INTEGER]
name [VARCHAR]
orcid [VARCHAR]

reference_gibbs_energy
gibbs_energy_id [INTEGER]
reference_id [INTEGER]

metabolite_compartment
metabolite_id [INTEGER]
compartment_id [INTEGER]

gibbs_energy_reaction_model
id [INTEGER]
gibbs_energy_id [INTEGER]
model_id [INTEGER]
reaction_id [INTEGER]

reference_author
author_id [INTEGER]
reference_id [INTEGER]

compartment
id [INTEGER]
name [VARCHAR]
acronym [VARCHAR]

alembic_version
version_num [VARCHAR(32)]

reaction
id [INTEGER]
name [VARCHAR]
acronym [VARCHAR]
metanetx_id [VARCHAR]
reactome_id [VARCHAR]
bigg_id [VARCHAR]
kegg_id [VARCHAR]
compartment_name [VARCHAR]
timestamp [DATETIME]

reference_type
id [INTEGER]
type [VARCHAR]

reference
id [INTEGER]
pmid [INTEGER]
doi [VARCHAR]
title [VARCHAR]
link [VARCHAR]
type_type [VARCHAR]
timestamp [DATETIME]

reaction_metabolite
reaction_id [INTEGER]
metabolite_id [INTEGER]
met_comp_acronym [VARCHAR]
stoich_coef [INTEGER]

chebi_ids
id [INTEGER]
chebi_id [INTEGER]
inchi [VARCHAR]

metabolite_chebi
metabolite_id [INTEGER]
chebi_id [INTEGER]

metabolite
id [INTEGER]
grasp_id [VARCHAR]
name [VARCHAR]
bigg_id [VARCHAR]
metanetx_id [VARCHAR]
kegg_id [VARCHAR]
timestamp [DATETIME]

enzyme_reaction_inhibition
id [INTEGER]
enz_rxn_org_id [INTEGER]
inhibitor_met_id [INTEGER]
affected_met_id [INTEGER]
inhibition_type [VARCHAR]
inhibition_constant [FLOAT]
evidence_level_id [INTEGER]
comments [TEXT]

reference_inhibition
inhibition_id [INTEGER]
reference_id [INTEGER]

reference_activation
activation_id [INTEGER]
reference_id [INTEGER]

reference_mechanism
mechanism_id [INTEGER]
reference_id [INTEGER]

reference_effector
effector_id [INTEGER]
reference_id [INTEGER]

reference_misc_info
misc_info_id [INTEGER]
reference_id [INTEGER]

reference_model_assumptions
model_assumptions_id [INTEGER]
reference_id [INTEGER]

enzyme_reaction_activation
id [INTEGER]
enz_rxn_org_id [INTEGER]
activator_met_id [INTEGER]
activation_constant [FLOAT]
evidence_level_id [INTEGER]
comments [TEXT]

enzyme_reaction_effector
id [INTEGER]
enz_rxn_org_id [INTEGER]
effector_met_id [INTEGER]
effector_type [VARCHAR]
evidence_level_id [INTEGER]
comments [TEXT]

enzyme_reaction_misc_info
id [INTEGER]
enz_rxn_org_id [INTEGER]
topic [VARCHAR]
description [TEXT]
evidence_level_id [INTEGER]
comments [TEXT]

enzyme_reaction_organism_model
model_id [INTEGER]
enzyme_reaction_organism_id [INTEGER]

model_assumptions
id [INTEGER]
model_id [INTEGER]
assumption [VARCHAR]
description [TEXT]
evidence_level_id [INTEGER]
included_in_model [BOOLEAN]
comments [TEXT]

enzyme_reaction_activation_model
model_id [INTEGER]
activation_id [INTEGER]

enzyme_reaction_effector_model
model_id [INTEGER]
effector_id [INTEGER]

enzyme_reaction_misc_info_model
model_id [INTEGER]
misc_info_id [INTEGER]

mechanism
id [INTEGER]
name [VARCHAR]

evidence_level
id [INTEGER]
name [VARCHAR]
description [TEXT]

enzyme_reaction_organism
id [INTEGER]
enzyme_id [INTEGER]
reaction_id [INTEGER]
organism_id [INTEGER]
mechanism_id [INTEGER]
mech_evidence_level_id [INTEGER]
grasp_id [VARCHAR]
subs_binding_order [VARCHAR]
prod_release_order [VARCHAR]
comments [VARCHAR]

gene
id [INTEGER]
name [VARCHAR]
bigg_id [VARCHAR]
timestamp [DATETIME]

enzyme_structure
id [INTEGER]
enzyme_id [INTEGER]
organism_id [INTEGER]
pdb_id [VARCHAR]
strain [VARCHAR]

enzyme_organism
id [INTEGER]
enzyme_id [INTEGER]
organism_id [INTEGER]
uniprot_id [VARCHAR]
n_active_sites [INTEGER]

enzyme_organism_gene
enzyme_organism_id [INTEGER]
gene_id [INTEGER]

organism
id [INTEGER]
name [VARCHAR]
timestamp [DATETIME]

enzyme
id [INTEGER]
name [VARCHAR]
acronym [VARCHAR]
isoenzyme [VARCHAR]
ec_number [VARCHAR]
timestamp [DATETIME]