Summary of work on CMO musculoskeletal system

In version 1.2 of the OCDM, we have extended content in Craniofacial Mouse Ontology (CHO) to include the taxonomic and spatio-structural representation of the musculoskeletal system of the head (muscles, bones, cartilages, skeletal ligaments and joints). The work entailed the deletion of 809 classes, which represent anatomical entities derived from the CHO that are not found in the mouse (e.g. canine tooth, glabella, uvula)and the addition of over 790 classes which represent anatomical entities that are in the mouse but not in the human (squamosal bone, zygomaticomandibularis, intermolar eminence) and the instantiation of about 2000 relationships between the classes using spatio-structural properties, such as parthood (regional partonomy, constitutional partonomy and membership), connectivity (articulation, attachment, continuity (qualitative coordinate relationships such as anterior to, posterior to, superior to, inferior to, medial to, lateral to, etc., and containment).