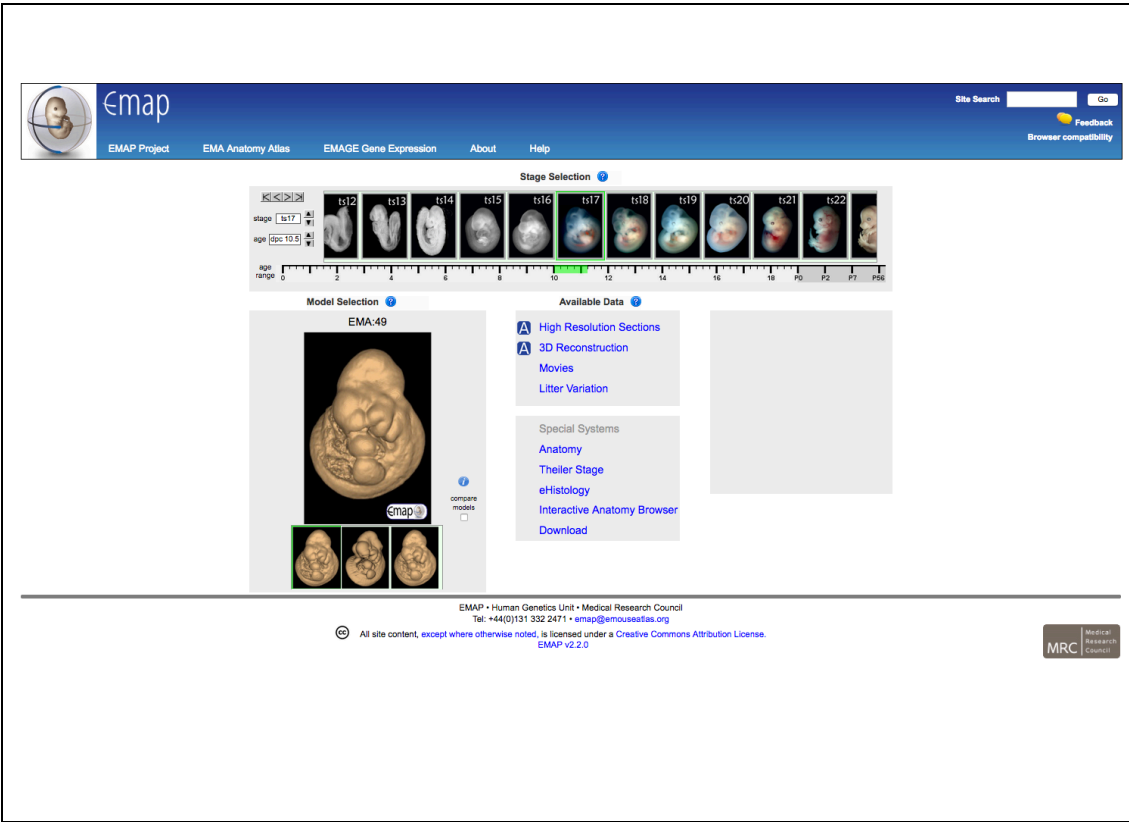


How to Use the Anatomy Tree

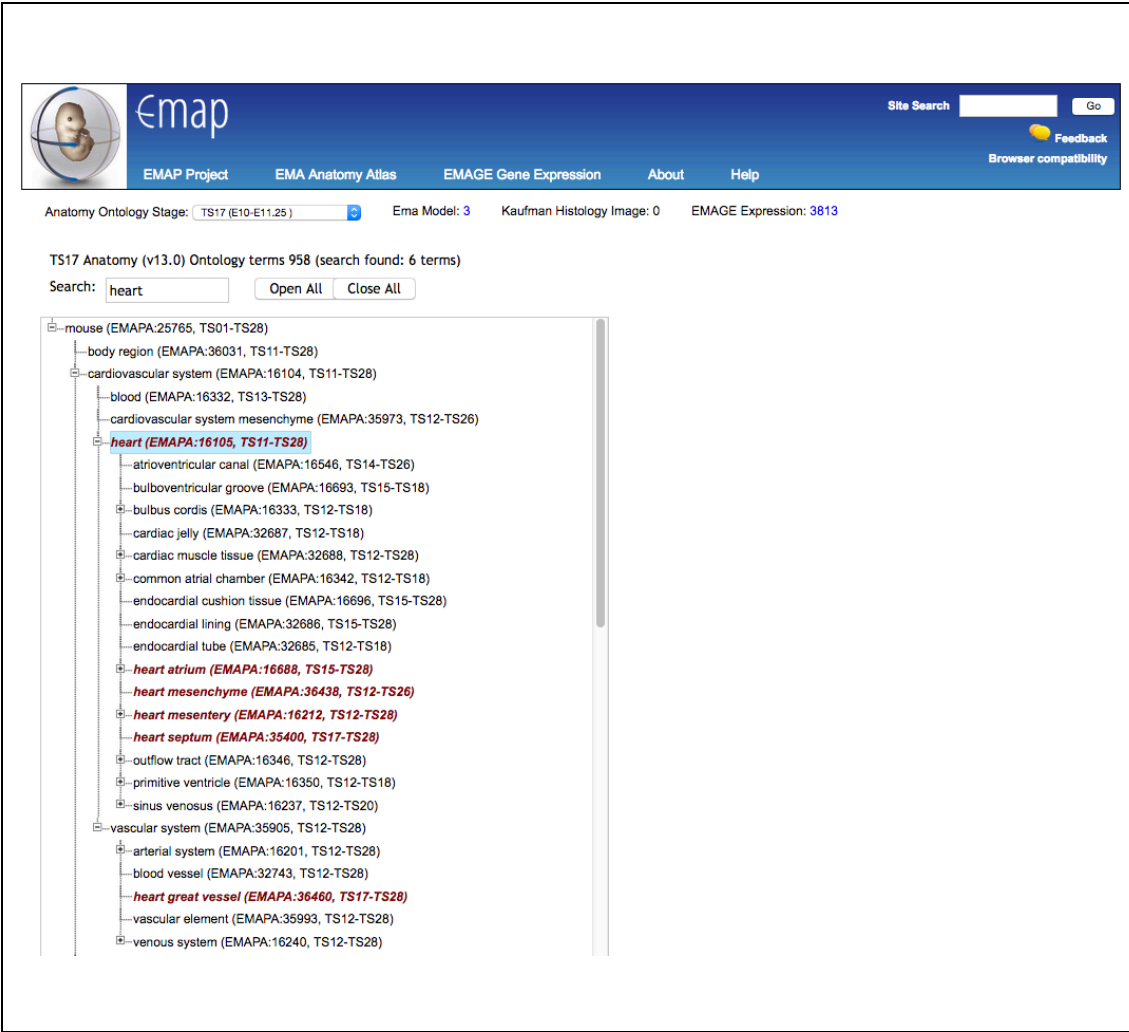
- The atlas website additionally hosts an interactive anatomy browser that allows a user to access staged anatomy in an ontology tree.
- This Anatomy Tree is accessible by clicking on the **Anatomy** link on the Stage Selector Page.



The screenshot displays the eMAP Stage Selector Page. At the top, there is a navigation bar with the eMAP logo and links for 'EMAP Project', 'EMA Anatomy Atlas', 'EMAGE Gene Expression', 'About', and 'Help'. A search bar and 'Feedback' link are also present. The main content area features a 'Stage Selection' section with a timeline of stages from ts12 to ts22, with ts17 selected. Below this is a 'Model Selection' section showing a 3D model of an embryo (EMA-49) and a 'compare models' checkbox. To the right, an 'Available Data' section lists options: 'High Resolution Sections', '3D Reconstruction', 'Movies', 'Litter Variation', 'Special Systems', 'Anatomy', 'Theiler Stage', 'eHistology', 'Interactive Anatomy Browser', and 'Download'. The footer contains contact information for EMAP, a Creative Commons license notice, and the MRC logo.

The eMouseAtlas Stage Selector Page

Using the Anatomy Tree to illustrate Partonomic Ontology Relationships



The screenshot displays the EMAP Project website interface. At the top, there is a navigation bar with the EMAP logo, a site search box, and links for 'EMAP Project', 'EMA Anatomy Atlas', 'EMAGE Gene Expression', 'About', and 'Help'. Below the navigation bar, the 'Anatomy Ontology Stage' is set to 'TS17 (E10-E11.25)', and the 'EMAGE Expression' is 3813. The main content area shows a search for 'heart' with 6 terms found. The 'Anatomy Tree' is displayed as a hierarchical list of terms, with 'heart (EMAPA:16105, TS11-TS28)' highlighted in blue. The tree includes sub-terms such as 'atrioventricular canal', 'bulboventricular groove', 'bulbus cordis', 'cardiac jelly', 'cardiac muscle tissue', 'common atrial chamber', 'endocardial cushion tissue', 'endocardial lining', 'endocardial tube', 'heart atrium', 'heart mesenchyme', 'heart mesentery', 'heart septum', 'outflow tract', 'primitive ventricle', 'sinus venosus', 'arterial system', 'blood vessel', 'heart great vessel', and 'venous system'.

The Anatomy Tree

- The EMAPA ontology uses a controlled vocabulary and *part-of* relationships to describe anatomical components, with stage-specific partonomic (part-of) hierarchies provided from TS01-TS26.
- The interactive ontology tree illustrates the partonomic relationships between the anatomical terms as a hierarchy where each term may have a number of sub-components.
- You can **find components** in the anatomy tree by typing them in the search box and clicking on return.