

# How to search by Anatomy Term

- EMAGE is used to archive and spatially map gene expression patterns from a variety of sources including, large *in situ* hybridisation screens (EurExpress, FaceBase), the GXD and the published literature as well as unpublished direct submissions from developmental biology labs.

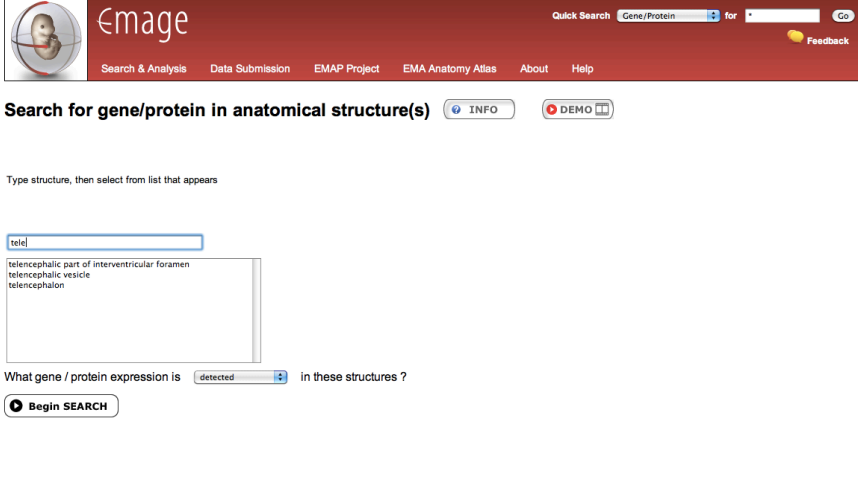
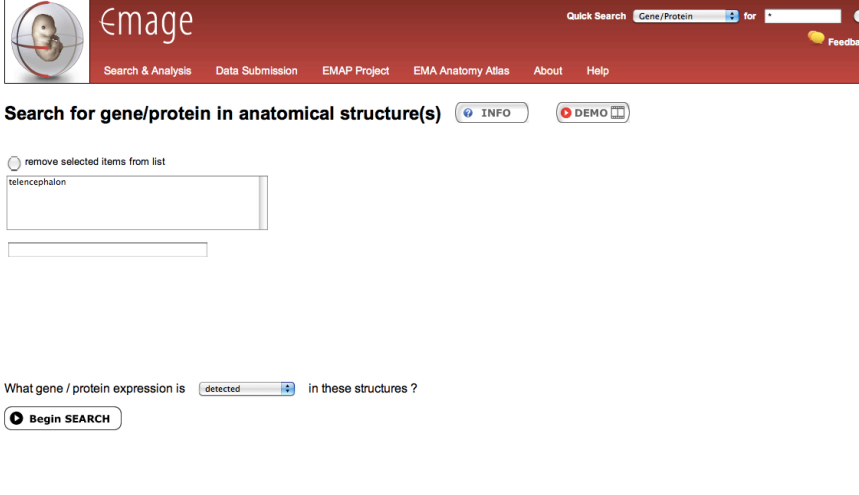
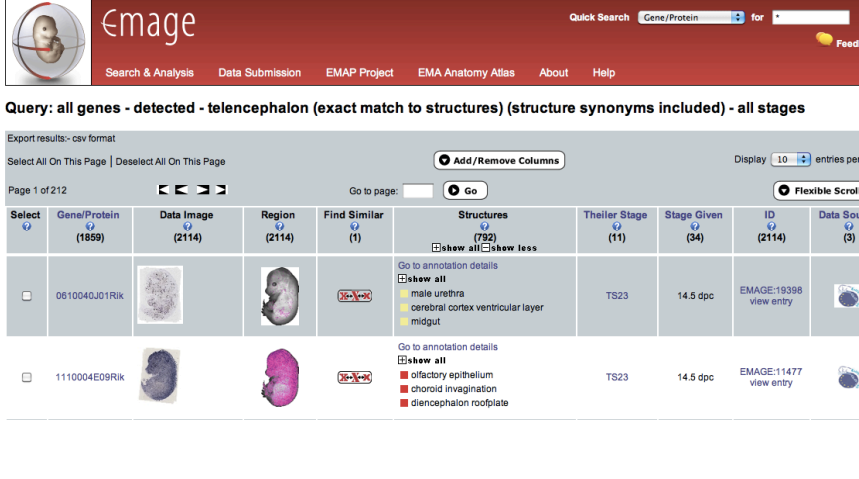
The screenshot displays the EMAGE web interface. At the top, there is a navigation bar with the EMAGE logo, a search bar for 'Gene/Protein', and a 'Feedback' button. Below the navigation bar, the main content area is divided into several sections:

- Content:** A sidebar on the left showing statistics: Genes/Proteins: 17554, Assays: 32679, Stages: 22, Images: 429329.
- What's New?:** A sidebar on the left listing recent updates: 06 Sep 2016 Clonal analysis lineage data, TRACER enhancer data, VISTA enhancer data, EMBRYOS gene expression data, and 3D OPT mapping now available.
- Spatial Search:** A central section with a sub-section for 'Embryo Space' showing a 3D embryo model.
- Query Entries:** Three query options: 'Combination' (listing genes like Wnt1, Idet-1, Fgf8, Tbx4), 'Gene' (listing genes like cadherin6b, Wnt1, Idet-1, Fgf8, Aldh1a2, Lhx6, Tbx4, Nkx6-1, T, Mx1, Collagen Type II alpha 1, Sry), and 'Anatomy Name' (listing terms like node, mesenchyme, somite, headfold, eye, branchial arch, vagus X, otocyst, lens, midgut).
- Gene & Pathway Summaries:** A central section with sub-sections for 'Gene Summary' (showing a gene structure diagram), 'Pathway' (showing a metabolic pathway diagram), and 'Gene Association' (showing a network diagram).
- Analysis Tools:** A sidebar on the right with sub-sections for 'Similar Patterns' (showing image thumbnails) and 'Direct Access' (showing a database icon).
- Example Data:** A sidebar on the right showing an example of EMAGE:148 data, including an assay (ISH), gene (Crabp1), stage (TS15), spatial annotation, and source (Mark et al., 1993 [PMID:8287791]).

**The EMAGE Web Interface**

- Gene, Anatomy, and Embryo Space queries allow the user to find gene expression patterns easily.

- For an anatomy query, click on **Anatomy Name** and do the following.

<p>Begin typing the name of an anatomical component, double-click to select the component you wish to query from the list</p>																															
<p>You are given the opportunity to include additional anatomical components in your query</p>																															
<p>View list of entries, click on an EMAGE ID for more details</p>	 <table border="1"> <thead> <tr> <th>Select</th> <th>Gene/Protein (1859)</th> <th>Data Image (2114)</th> <th>Region (2114)</th> <th>Find Similar (1)</th> <th>Structures (792)</th> <th>Theiler Stage (11)</th> <th>Stage Given (34)</th> <th>ID (2114)</th> <th>Data Source (3)</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/></td> <td>061004J01Rik</td> <td></td> <td></td> <td></td> <td>           Go to annotation details  <input type="checkbox"/> show all  <input type="checkbox"/> show less            male urethra            cerebral cortex ventricular layer            midgut         </td> <td>TS23</td> <td>14.5 dpc</td> <td>EMAGE:19398 view entry</td> <td></td> </tr> <tr> <td><input type="checkbox"/></td> <td>1110004E09Rik</td> <td></td> <td></td> <td></td> <td>           Go to annotation details  <input type="checkbox"/> show all  <input type="checkbox"/> show less            olfactory epithelium            choroid invagination            diencephalon roofplate         </td> <td>TS23</td> <td>14.5 dpc</td> <td>EMAGE:11477 view entry</td> <td></td> </tr> </tbody> </table>	Select	Gene/Protein (1859)	Data Image (2114)	Region (2114)	Find Similar (1)	Structures (792)	Theiler Stage (11)	Stage Given (34)	ID (2114)	Data Source (3)	<input type="checkbox"/>	061004J01Rik				Go to annotation details <input type="checkbox"/> show all <input type="checkbox"/> show less male urethra cerebral cortex ventricular layer midgut	TS23	14.5 dpc	EMAGE:19398 view entry		<input type="checkbox"/>	1110004E09Rik				Go to annotation details <input type="checkbox"/> show all <input type="checkbox"/> show less olfactory epithelium choroid invagination diencephalon roofplate	TS23	14.5 dpc	EMAGE:11477 view entry	
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