

kahikai Comparative Marine Invertebrate Gene Expression Database

_user manual

The screenshot displays the kahikai website interface within a browser window. The browser's address bar shows the URL <http://www.kahikai.com/index.php?content=genes>. The website header includes the logo "kahikai" and a user greeting "Welcome, Mattias Ormestad" with a "Logout" link. Navigation tabs for "home", "tools", and "community" are visible, with "tools" being the active tab. Below the navigation, there are links for "introduction", "gene expression", "species", and "marine stations".

The main content area is divided into several sections:

- SEARCH**: Contains two search forms. The first is "Search by gene name" with an input field for "Enter gene name" and a "Search" button. The second is "Search by stage and expression domain" with a "Select species" dropdown menu set to "All species" and a "Next" button.
- DATABASE INFORMATION**: A sidebar on the right listing statistics: "Number of species" (7), "Number of genes" (50), "Number of experiments" (57), and "Number of images" (343). Below these are "Tools" for "Add new gene" and "Add new species".
- RECENTLY ADDED SPECIES**: A horizontal row of five thumbnail images showing different marine invertebrates, including a flatworm, a sea urchin, a jellyfish, a starfish, and another sea urchin.

At the bottom of the browser window, the status bar shows "Done" and "Drive" on the left, and email addresses "mattias.ormestad@gmail.com" and "wheeler.oukronop@buny.cdu.au" on the right. The entire screenshot is reflected in a dark, glossy surface below it.

January 2009

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kahikai Comparative Marine Invertebrate Gene Expression Database

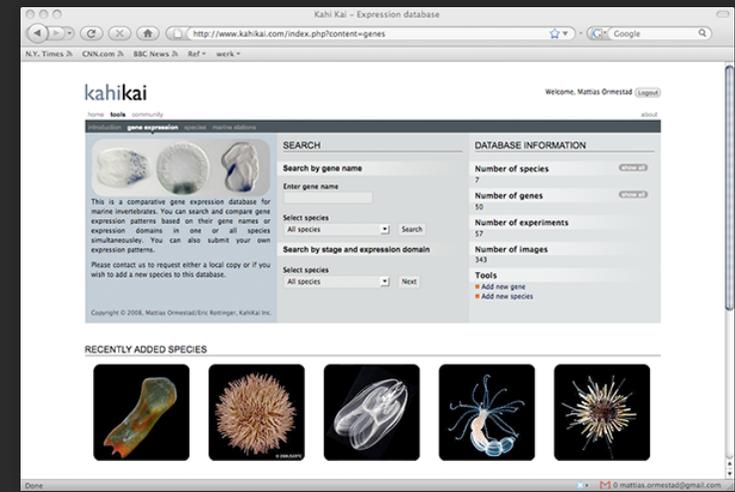
_summary

querying the database

1. search by gene name
2. advanced search
3. query results (species)
4. query result (search by gene name) part I
5. query result (search by gene name) part II

adding/editing information

1. overview
2. general guidelines
3. adding a gene
4. ...
5. ...



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_ search by gene name

enter a gene name and select one/all species of interest for a search by gene name
 OR
 select one/all species for a advanced search

list of recently added species
 click on the thumbnail to view the basic species information

click the gene name.
 to view the gene expression pattern
 click the species name.
 to view the species information
 click the author name.
 to view the authors profile

list of labs that have recently joined and contributed to the database
 (you have to belong to a lab to add genes/experiments)

home tools community images news and articles about

introduction **gene expression** species marine stations

SEARCH

Search by gene name

Enter gene name

Select species
 All species Search

Search by stage and expression domain

Select species
 All species Next

DATABASE INFORMATION

Number of species 10 [show all](#)

Number of genes 81 [show all](#)

Number of experiments 84

Number of images 584

Tools

- Add new gene
- Add new species

RECENTLY ADDED SPECIES

RECENTLY PUBLISHED GENES

All users You

Gene	Species	Added by
<input type="checkbox"/> Tcf	<i>Nematostella vectensis</i>	Patricia Lee on 15 Jan 2009
<input type="checkbox"/> Bmp2/4	<i>Ptychodera flava</i>	Eric Röttinger on 14 Jan 2009
<input type="checkbox"/> elav	<i>Ptychodera flava</i>	Eric Röttinger on 13 Jan 2009
<input type="checkbox"/> Tropomyosin	<i>Mnemiopsis leidyi</i>	Kevin Pang on 9 Jan 2009
<input type="checkbox"/> anthox1	<i>Fungia scutaria</i>	Jorik Loeffler on 7 Jan 2009

Compare selected All None

RECENTLY ADDED LABS

database information about the number of species, genes, experiments and images added to the database.
 use the buttons in the tool section to
 _add a new gene
 _add a new species

click on the arrows to get a complete list of species from which gene expression data are available

click on the arrows to get a complete list (in alphabetic order) of all genes from which gene expression data are available

click the icons to:
 _add an experiment
 _edit the gene
 _delete the gene

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_advanced search

The screenshot shows the 'All species' search interface. It features a top navigation bar with links for 'home', 'tools', 'community', 'images', 'news and articles', and 'about'. Below this is a sub-navigation bar with 'introduction', 'gene expression', 'species', and 'marine stations'. The main content area is divided into a 'SEARCH' section on the left and a 'TOOLBOX' section on the right. The 'SEARCH' section includes a 'Search by gene name' field with an 'Enter gene name' input and a 'Search' button, and a 'Search by stage and expression domain' section with a 'Select species' dropdown set to 'All species' and an 'Update' button. The 'TOOLBOX' section has 'Genes' and 'Species' sections, each with an 'Add new' button and a 'show all' link. Below the search area, there are two columns of checkboxes for 'Select developmental stages' and 'Select expression domains'. A 'Search' button is located at the bottom left of the form.

All species

list of simplified developmental stages and gene expression domains optimized for inter-species comparison.

check the boxes corresponding to the developmental stages and/or expression domains of interest. click the SEARCH button to view the query results in all species or in one given species.

The screenshot shows the 'Selected species' search interface. It is identical in layout to the 'All species' version but with the 'Select species' dropdown set to 'Nematostella vectensis'. The 'Select developmental stages' and 'Select expression domains' sections are expanded, showing a detailed list of checkboxes for various stages and domains. A 'Search' button is located at the bottom left of the form.

search **ALL** larval stages

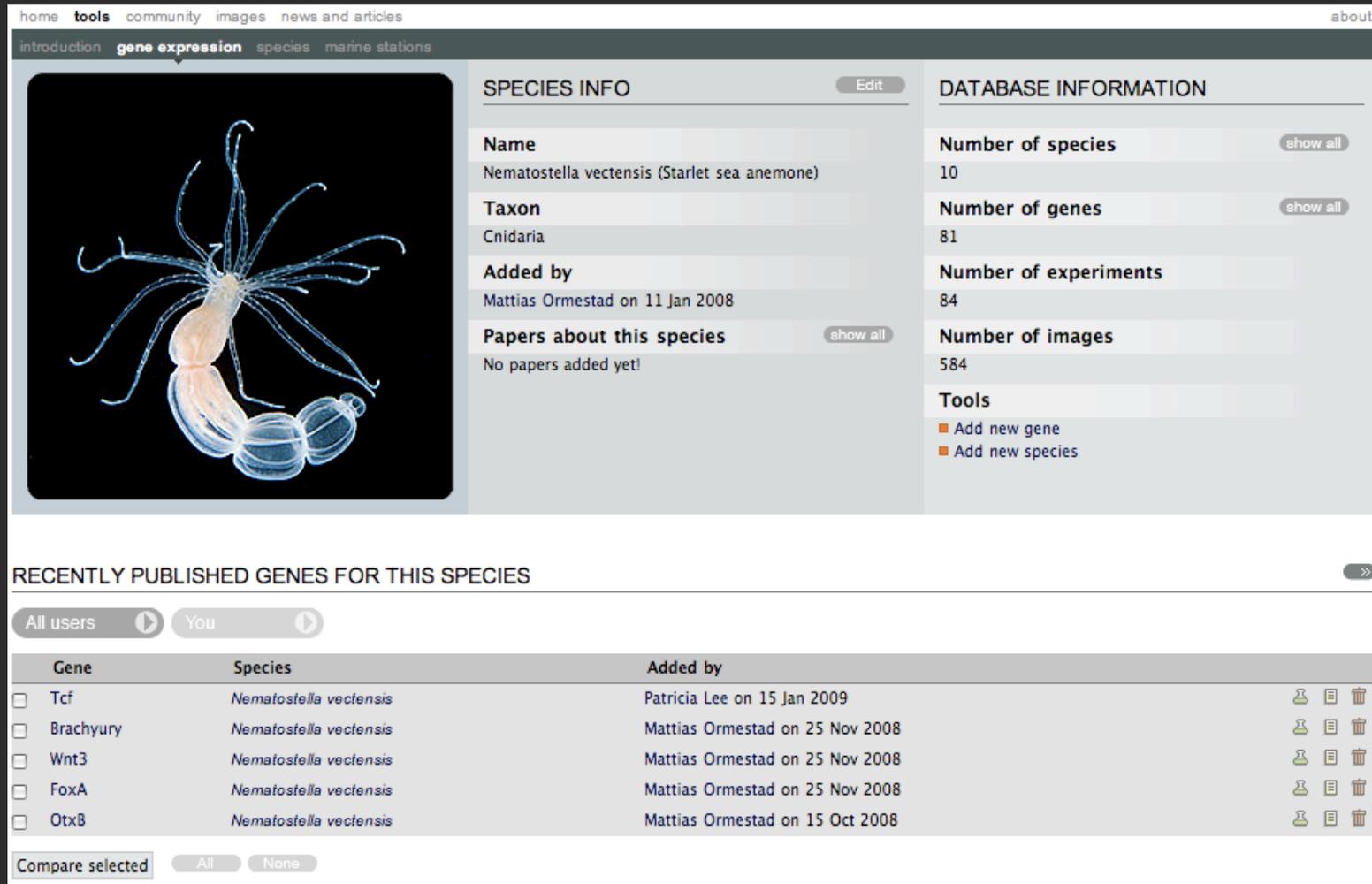
search only **ONE** specific larval stages

Selected species

list of all developmental stages and gene expression domains optimized for the given species

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_query results (species)



The screenshot displays the kahikai database interface for the species *Nematostella vectensis*. The page is organized into several sections:

- Navigation:** home, tools, community, images, news and articles, about
- Species Selection:** introduction, gene expression, species, marine stations
- Species Info:** Includes a large image of the starlet sea anemone, its name (*Nematostella vectensis*), taxon (Cnidaria), and the user who added it (Mattias Ormestad on 11 Jan 2008). There is an "Edit" button and a "show all" link for papers.
- Database Information:** A summary of data including:
 - Number of species: 10 (with "show all" link)
 - Number of genes: 81 (with "show all" link)
 - Number of experiments: 84
 - Number of images: 584
 - Tools: Add new gene, Add new species
- Recently Published Genes for this Species:** A table with columns for Gene, Species, and Added by. It lists five genes: Tcf, Brachyury, Wnt3, FoxA, and OtxB, all from *Nematostella vectensis*. Each row has a checkbox, a user icon, a document icon, and a trash icon. Navigation arrows for "All users" and "You" are present above the table.
- Comparison:** A "Compare selected" button and radio buttons for "All" and "None".

list of recent added genes for the given species. click the arrows on the right to get a complete list (alphabetic order).
_check the boxes of several or all genes to compare their expression pattern.
_click on the gene name to view the single gene expression pattern.

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_ query result (search by gene name) part I

The screenshot shows the 'kahikai' database interface. On the left, under 'GENE INFORMATION', the gene name is 'Anthox1 (NvAx1 and "posterior hox")' and the species is 'Nematostella vectensis'. The 'EXPERIMENTS' section lists 'Available experiments on Anthox1' with options for 'All wildtype expression patterns' and 'Experiment 1 by Kevin Pang'. The 'TOOLBOX' section includes options to 'Add experiment', 'Edit Anthox1', 'Add new gene', and 'Add new species'. A callout box points to the 'Experiment' bar with the text: 'click to expand and view the whole experiment set'.

list of experiments added for the gene in the given species (the default view is the wild type expression)
click on the "Experiment" bar to view all available experiments

toolbox, to add experiments, edit the given gene, add a new gene, and request the implementation of a new species (depending on required privileges).

The 'IMAGES' section displays a grid of 12 lateral view images of Nematostella vectensis embryos at various developmental stages: Egg, Cleavage, Blastula, Early Gastrula, Mid Gastrula, Late Gastrula, Early Planula, Planula, Late Planula, Tentacle bud, Early juvenile, and Juvenile. Some images are marked 'Not Available'. Blue arrows below the images indicate a sequence of views.

overview of available pictures representing the gene expression pattern (wild-type or treatment). pictures with blue arrows underneath indicate a stack of pictures. click on the arrows to get the next view. click on the image itself to get a bigger view and more details

The 'EXPRESSION SUMMARY' section shows a grid of gene expression data for Anthox1. The rows represent developmental stages (Egg to Juvenile), and the columns represent various tissues and domains (Animal hemisphere, Animal pole, Apical IntJ ectoderm, etc.). A legend indicates the color coding: green for 'Expression', yellow for 'Ambiguous expression', black for 'No expression', and white for 'Not determined'.

	Animal hemisphere	Animal pole	Apical IntJ ectoderm	Apical IntJ endoderm	Base of tentacle ectoderm	Base of tentacle endoderm	Body wall ectoderm	Body wall endoderm	Intertentacular ectoderm	Mesentery (EC) endoderm	Mesentery (Endoderm)	Oral Ectoderm	Pharyngeal ectoderm	Pharyngeal endoderm	Tentacle ectoderm	Tentacle endoderm	Tip of tentacles ectoderm	Tip of tentacles endoderm	Vegetal hemisphere	Vegetal plate (presumptive endoderm)	Vegetal pole
Egg																					
Cleavage																					
Blastula																					
Early Gastrula																					
Mid Gastrula																					
Late Gastrula																					
Early Planula																					
Planula																					
Late Planula																					
Tentacle bud																					
Early juvenile																					
Juvenile																					

grid-view of gene expression for one given gene. the rows (left) represents the developmental stages, the columns (upper part) the defined expression domains. color code as indicated in legend. mouse over the colored box, shows the expression information and clicking on the colored box leads to the corresponding images

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_ query result (search by gene name) part II

GENES WITH A SIMILAR EXPRESSION PATTERN

Gene	Species	Score	Added by	
<input type="checkbox"/> MoxA	<i>Nematostella vectensis</i>	0.13	Kevin Pang on 14 Oct 2008	  
<input type="checkbox"/> Anthox7	<i>Nematostella vectensis</i>	0.13	Kevin Pang on 20 Aug 2008	  
<input type="checkbox"/> NvHD060	<i>Nematostella vectensis</i>	0.13	Kevin Pang on 25 Aug 2008	  
<input type="checkbox"/> Cbx	<i>Nematostella vectensis</i>	0.13	Kevin Pang on 14 Oct 2008	  
<input type="checkbox"/> Wnt16	<i>Nematostella vectensis</i>	0.13	Kevin Pang on 14 Oct 2008	  
<input type="checkbox"/> Anthox8b	<i>Nematostella vectensis</i>	0.12	Kevin Pang on 20 Aug 2008	  
<input type="checkbox"/> Anthox6	<i>Nematostella vectensis</i>	0.12	Kevin Pang on 30 Nov -1	  
<input type="checkbox"/> Rx	<i>Nematostella vectensis</i>	0.11	Kevin Pang on 14 Oct 2008	  
<input type="checkbox"/> Mnx	<i>Nematostella vectensis</i>	0.11	Kevin Pang on 14 Oct 2008	  
<input type="checkbox"/> Otp	<i>Nematostella vectensis</i>	0.1	Kevin Pang on 14 Oct 2008	  
<input type="checkbox"/> Rough	<i>Nematostella vectensis</i>	0.1	Kevin Pang on 14 Oct 2008	  
<input type="checkbox"/> Msx	<i>Nematostella vectensis</i>	0.1	Kevin Pang on 30 Sep 2008	  
<input type="checkbox"/> Msx2	<i>Nematostella vectensis</i>	0.09	Kevin Pang on 30 Sep 2008	  
<input type="checkbox"/> Wnt3	<i>Nematostella vectensis</i>	0.06	Mattias Ormestad on 25 Nov 2008	  
<input type="checkbox"/> Hedgehog	<i>Nematostella vectensis</i>	0.06	Eric Röttinger on 22 Sep 2008	  
<input type="checkbox"/> dopa beta-monoxygenase	<i>Nematostella vectensis</i>		Heather Marlow on 11 Aug 2008	  

Compare with current

All

None

GENE ONTOLOGY, PATHWAYS & ORTHOLOGS

No protein id has been added for this gene so we are unable to check our GO dataset

No protein id has been added for this gene so we are unable to check our KOG (euKaryotic Orthologous Groups) dataset

No protein id has been added for this gene so we are unable to check our EC dataset

COMMENTS

No comments have been added yet!

Add a comment

Title

Comment

Add comment

list of genes with a similar expression pattern, automatically created based on the informations provided by the users while adding gene expression data to the database. the lower the value the lower the similarity!

_check the boxes of several or all genes to compare their expression pattern.

_click on the gene name to view the single gene expression pattern.

if information about gene ontology, pathways and orthologs are available for "your" species and provided by the genome sequencing center, please submit this information in order to allow us to implement this information in the database. if this information and a protein Id have been provided while adding the gene to the database, these data will be automatically retrieved and shown in this section.

field to leave a comment (wouah! what a beautiful expression pattern for example!) visible to all users.

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_ query result (single image view)

The screenshot displays the kahikai database interface. At the top left is the 'kahikai' logo, and at the top right is a user greeting 'Welcome, Eric Röttinger' with a 'Logout' button. Below the logo is a navigation menu with 'home', 'tools', 'community', 'images', 'news and articles', and 'about'. A secondary menu includes 'introduction', 'gene expression', 'species', and 'marine stations'. The main content area is divided into three columns: 'IMAGE INFORMATION', 'GENE INFORMATION', and 'TOOLBOX'. The 'IMAGE INFORMATION' column shows 'Stage: Mid Gastrula', 'View: Lateral', 'Species: Nematostella vectensis', and 'Image added by: Kevin Pang on 20 Aug 2008'. The 'GENE INFORMATION' column shows 'Gene name and synonyms: Anthox1 (NvAx1 and "posterior hox")', 'Species: Nematostella vectensis', 'Gene added by: Kevin Pang on 20 Aug 2008', 'Papers about this gene: No papers added yet!', and 'Comments about this gene: Be the first to comment on this gene!'. The 'TOOLBOX' column has sections for 'Image' (Download hi-res image, Edit image, Delete image), 'Genes' (Add new gene), and 'Species' (Add new species). Below this is the 'IMAGE DATA' section, which includes a thumbnail image of a Nematostella vectensis embryo at the Mid Gastrula stage, labeled 'Anthox1 @ Mid Gastrula stage (Lateral view)'. To the right of the image are fields for 'Expression: Vegetal pole', 'Image description: N/A', and 'Experiment description: N/A'.

overview of all available information concerning the given gene expression image.

you are able to visualize and even download a high resolution image for your personal use. please contact the person who uploaded the image to the database and credit the person accordingly if you wish to use the image for presentation/publication. these images are not for commercial use in any case!

kahikai Comparative Marine Invertebrate Gene Expression Database

_ how to enter data to the database - overview -

In order to be able to add data to the database/website and for security reason you have to be a registered member!!!

_adding a new species

if you wish to add a new species to the database, please use the “species request form”, follow the instruction by providing as much details as needed, and we will add the new species to the database as soon as possible.

_adding a new gene

to add a new gene to the database, please use the “new gene” feature in the toolbox and follow the instructions. for a good performance of the database, please use the general gene name, no abbreviations and add synonyms if available.

_adding a new experiment

to add a new experiment (wild-type, drug treatment, injection etc...) associated to a given gene please select the “add experiment” feature in the gene specific toolbox and follow the instructions. after adding a new experiment you can decide to “publish” it allowing all KahiKai members to see the experiment or maintaining it unpublished. in the latter case, the experiment will only be visible by the members of your lab. in addition you can create a group, invite people outside your lab to that group and share experiments with them.

_editing genes or experiments

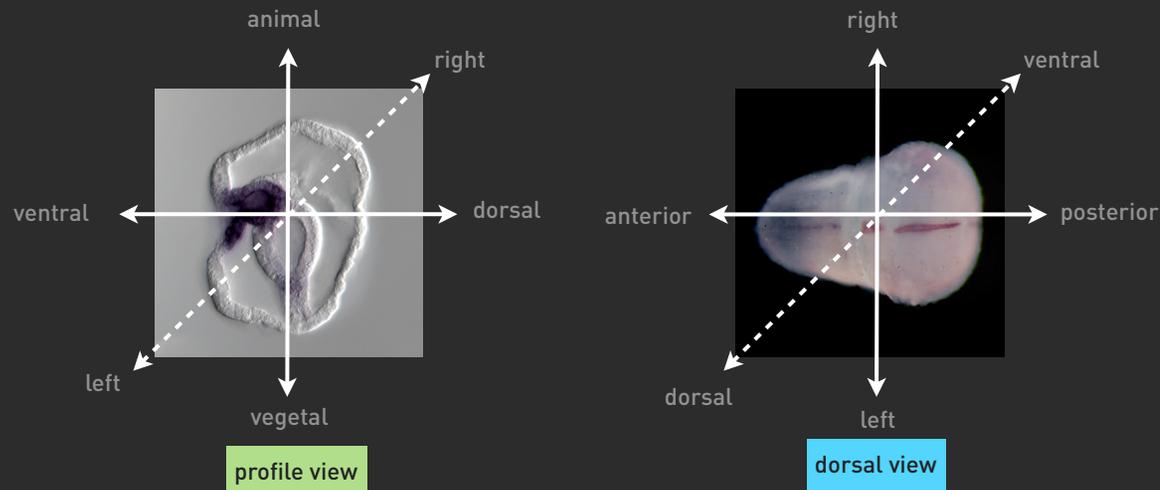
if you are the person who added the gene/experiment to the database, you have the authorization to edit them at any time. if you wish to edit gene/experiment information not added by you, please contact the submitting person. in case there are other problems please contact us and we will try to resolve them as soon as possible.

kahikai Comparative Marine Invertebrate Gene Expression Database

_ general guidelines

In order to get a homogenous and easy to use gene expression database, please use the following guidelines to add new gene expression patterns.

1. for optimal performance of the database and to get most out of it, please provide as much information as possible.
2. please cite correctly the original work and where the uploaded experiments are coming from.
3. if possible, the picture you upload should be square (and cropped to have as little empty space as possible) and be not bigger than 3000x3000px or 4mb. the picture can be in tiff or jpg.
4. please orient the pictures always the same within a species. if possible and depending on the stages the animal pole and the dorsal side should be up, the vegetal pole and the ventral side should be down. the anterior and the oral side to the left and the posterior and aboral side to the right. of course, these guidelines may vary depending on the view provided.



kahikai Comparative Marine Invertebrate Gene Expression Database

_ adding a new species

if you wish to add a new species to the database, please provide as much details as possible using the “add species” form.

1. enter general and genomic information if available for the given species.

2. provide a high quality picture representing the new species

3. provide a detailed list of developmental stages (modifications need to be done by us!)

4. provide a detailed list of expression domains (modifications need to be done by us!)

5. if available please provide a general reference about the species

kahikai Welcome, Eric Röttinger [Logout](#)

home tools community images news and articles about

introduction **gene expression** species marine stations

ADD SPECIES

Add species text...

- ▶ 1. Species information
- 2. Species thumbnail
- 3. Developmental stages
- 4. Expression domains
- 5. Papers

[Cancel](#)

TOOLBOX

Genes [show all](#)

- Add new gene

Species [show all](#)

- Add new species

SPECIES INFORMATION (1/5)

Requested by (enter user ID)

Latin name

Common name

TaxonID

Taxon

Link to genomic database

Base URL for links to gene ID's

[Save](#)

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_ adding a new gene

if you wish to add a new gene to the database, please provide as much details as possible.

1. please enter a general gene name and its synonyms if available and select the species for which you wish to add the gene.

2. if available please provide the reference (s) in which the gene expression is discussed

The screenshot displays the kahikai web interface. At the top, the logo 'kahikai' is on the left, and 'Welcome, Eric Röttinger (Logout)' is on the right. Below the logo is a navigation bar with links: 'home', 'tools', 'community', 'images', 'news and articles', 'introduction', 'gene expression', 'species', and 'marine stations'. The main content area is divided into three columns: 'ADD GENE', 'GENE INFORMATION', and 'TOOLBOX'. The 'ADD GENE' column contains instructions: 'Adding a new gene to the database is a simple two step process. First you enter information about the gene such as name, synonyms and species in the window below. The second step of the process is to start adding your experiments.' Below this is a form with two steps: '1. Gene information' and '2. Publications'. The 'GENE INFORMATION' column shows a 'Gene name' field with the text 'No gene selected!'. The 'TOOLBOX' column has sections for 'Genes' (with an 'Add new gene' button and a 'show all' link) and 'Species' (with an 'Add new species' button and a 'show all' link). Below the main content area, there is a section titled 'GENE INFORMATION (1/2)' with several input fields: 'Gene name', 'Synonyms (separate by comma)', 'Species' (a dropdown menu currently showing 'Nematostella vectensis'), 'Gene ID (optional)', and 'Protein ID (optional)'. A 'Save' button is located at the bottom of this section.

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_ adding a new experiment I -general information-

if you wish to add a new experiment to the database, please provide as much details as possible.

1. enter general information about the experiment.
2. you have to specify in which lab this experiment was performed. to add your labs to the list below, you first have to check if your lab exists in our community. You can do that by searching on the community page, and if it already exist you can send an application to join (this is a necessary security measure since all lab-members of a lab can see unpublished data). If the lab does not exist you can create a new labgroup in your [settings](#). You can't add your experiment unless a lab is specified!
3. please provide experimental details
4. upload information (pubmed ID) for publications, if available

kahikai Welcome, Eric Röttinger Logout

home tools community images news and articles about

introduction **gene expression** species marine stations

ADD EXPERIMENT

If you want to edit an existing experiment, choose one in the list to the right.

- ▶ 1. Experiment information
- 2. Experiment details
- 3. Publications
- 4. Choose images
- 5. Review images and assign stages
- 6. Add expression information

Cancel

EXPERIMENTS

Available experiments on Brachyury

Experiment
✱ Experiment 1 by Eric Röttinger

GENE INFORMATION

Gene name and synonyms

Brachyury (Bra)

Species

Ptychodera flava

Gene added by

Eric Röttinger on 23 Sep 2008

Papers about this gene

Tagawa K (1998) and Peterson KJ (1999) [show all](#)

Comments about this gene

Be the first to comment on this gene! [show all](#)

EXPERIMENT INFORMATION (1/6)

You will automatically be assigned as author of the experiment. However, if you add an experiment which was done by someone who is not a user of this website you could either invite him and let him add his own data, or you could just add his name in the field below.

Remember that you will still be the contact person if someone have questions about the experiment.

Added by
Eric Röttinger

Author (if other than yourself)

You have to specify in which lab you did this experiment. To add your labs to the list below, you first have to check if your lab exists in our community. You can do that by searching on the community page, and if it already exist you can send an application to join (this is a necessary security measure since all labmembers of a lab can see unpublished data). If the lab does not exist you can create a new labgroup in your settings.

You can't add your experiment unless a lab is specified!

Lab
--- Please choose one of the following labs ---

Please write a short description of your experiment.

Description

Please choose the experiment design. If you have done any kind of perturbation experiment, you should first add a wild type control experiment and then add the treatment as a separate experiment that is linked to the control. If you choose any other design than wild type you will be asked to link that to a control in the next step.

Experiment design type
Wildtype

Please choose the type of assay used for detection of the expression.

Assay type
RNA in situ

Save

you can add gene **RNA in situ** or **Immunohistochemistry** experiments

you can add gene expression patterns performed on microinjected, drug treated embryos etc... the only thing you have to specify first is a wild type gene expression pattern!

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_ adding a new experiment II -image upload-

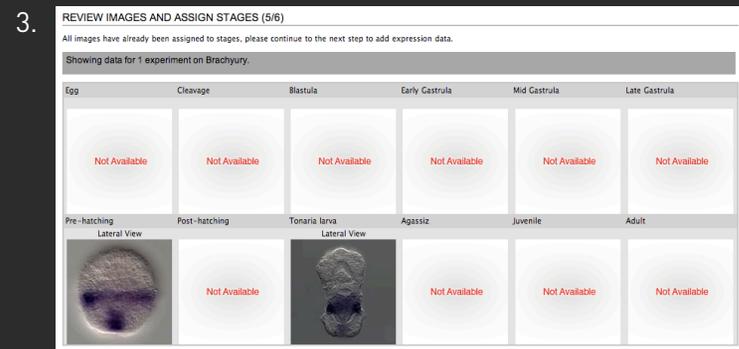
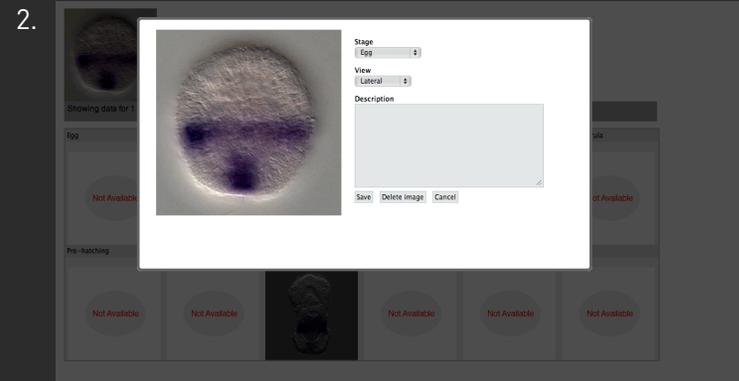
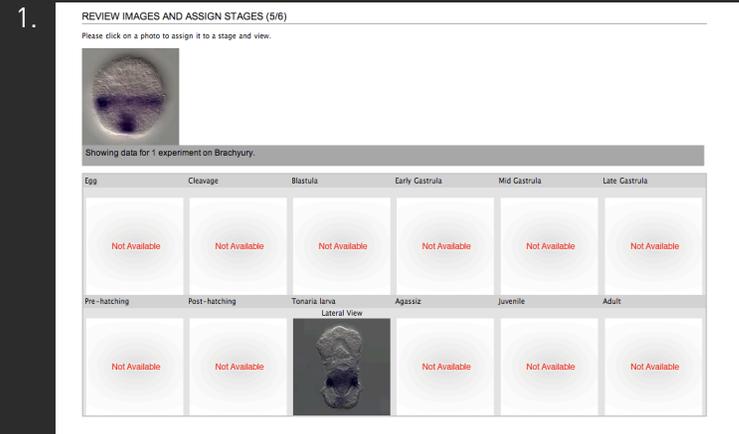
for the image upload please follow the guidelines described above. you can upload several pictures at a time and assign the developmental stage and view in the next step.

1. after the picture upload, all new images will appear above the gene expression pattern ready to be assigned to a given developmental stage.

2. by clicking on the selected picture, a popup window will appear allowing you to enter information about the stage and the view. you can also delete the image

3. after saving you information, the picture will appear in the gene expression pattern at the defined position.

4. to edit please click on the picture and the pop-up window will appear allowing you to modify your entries.



kahikai Comparative Marine Invertebrate Gene Expression Database

_ adding a new experiment III -expression information-

the last step to add a new experiment is to provide accurate gene expression information. this information is highly important for the functioning of various features of the database (eg. query by expression domain, automatic search for synexpression groups etc...)

green squares indicate stage for which expression information is available.

red squares indicates the absence of information.

black squares indicate no expression for that stage.

white squares indicate no data/image for that stage.

1. by clicking on the stage next to the red (new entry) or green square (edit) a detailed list of gene expression domains will appear. please select the corresponding information and save you entry.

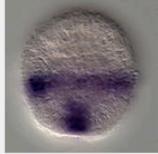
2. now the red square should be turned into green. you're done!

1.

ADD EXPRESSION INFORMATION (6/6)

Adding expression data

- Egg (No images)
- Cleavage (No images)
- Blastula (No images)
- Early Gastrula (No images)
- Mid Gastrula (No images)
- Late Gastrula (No images)
- Pre-hatching (1 images and 0 domains)
- Post-hatching (No images)
- Tonaria larva (1 images and 1 domains)
- Agassiz (No images)
- Juvenile (No images)
- Adult (No images)



Expression domains
There is no data added for this stage yet! If there is no expression, please save the form to confirm.

Animal

- Animal hemisphere
- Animal pole

Vegetal

- Vegetal hemisphere
- Vegetal pole

Ectoderm

- Aboral ectoderm
- Anus
- Apical tuft
- Blastopore
- Dorsal ectoderm
- Dorsal nerve cord
- Hydropore
- Neotroch
- Oral ectoderm
- Postoral ciliated band
- Stomodeum
- Telotroch
- Ventral ectoderm
- Ventral nerve cord

2.

ADD EXPRESSION INFORMATION (6/6)

Adding expression data

- Egg (No images)
- Cleavage (No images)
- Blastula (No images)
- Early Gastrula (No images)
- Mid Gastrula (No images)
- Late Gastrula (No images)
- Pre-hatching (1 images and 2 domains)
- Post-hatching (No images)
- Tonaria larva (1 images and 1 domains)
- Agassiz (No images)
- Juvenile (No images)
- Adult (No images)

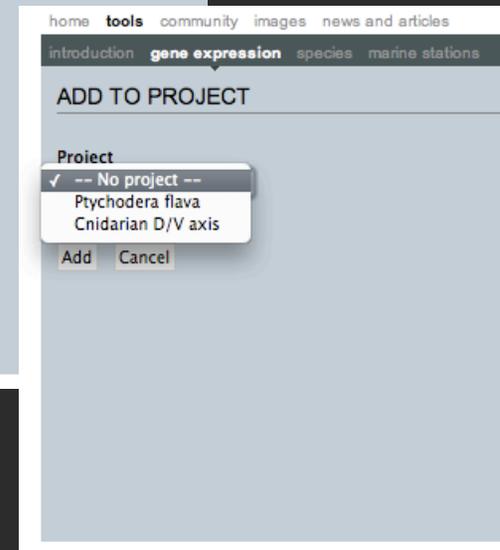
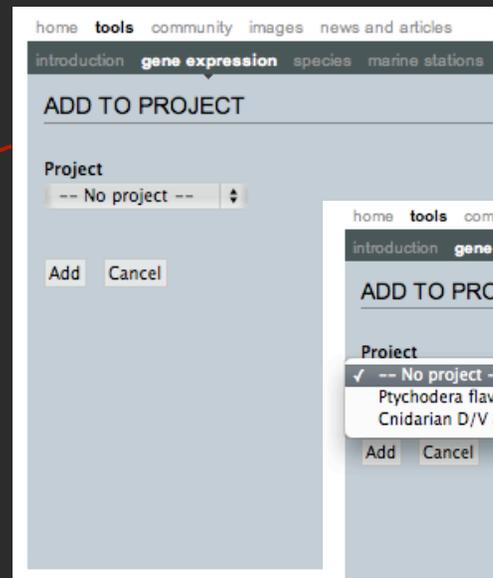
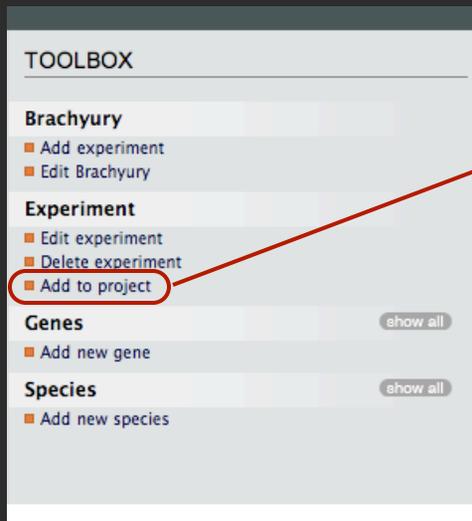
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_ adding a new experiment IV -publishing or sharing the data-

at this point you can decide if you wish to “**publish**” your experiment (to allow all the KahiKai members to appreciate your work) or to keep it “**unpublished**”.

in the latter case only you, the lab members, and the website administrators are able to see your data.

in order to promote interactions and communication we added a feature allowing you to invite members (not belonging to your lab) to share selected expression pattern experiments. to do so you have to create a group (in your settings), define it as a **lab-project** and then invite all the persons you wish to join this group. all **non-published** experiments (and of course **published** patterns) associated to that **lab-project group** will be visible to the group members.



1. select your experiment

2. select the lab-project you wish to add the experiment to.
(you have to create a lab-project in your settings first!)



we hope that you will enjoy using the database!

if you have any suggestions about how we can improve this gene expression database or if you have any concerns regarding this project, please feel free to contact us any time.

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January 2009

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