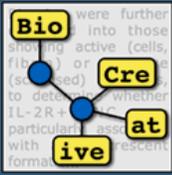


# BioCreative V Interactive Task Supplementary Material

This document shows the pre-defined tasks conducted for each system that participated in the interactive task. These were designed to test:

- log in/install software required for curation
- test general functionalities performed during the curation (e.g. search, upload, sort and/or rank)
- test error messages
- edit a text mining result
- save results
- describe the meaning of some icons/buttons/tabs

System	Page #
Argo	2
BELIEF	16
Egas	30
EXTRACT	43
GenDisFinder	57
MetastasisWay	71
OntoGene	85
Final Survey (all systems)	101



## BioCreative Interactive Task:Argo

### Welcome to the BioCreative Interactive Task

We will ask you to conduct very short tasks navigating and exploring the website and responding to some basic questions.

Note that we are NOT TESTING YOU but rather the usability of the system. We will be very grateful if along with this survey you could submit a file to [biocreativeiat@gmail.com](mailto:biocreativeiat@gmail.com) with some screenshots or further explanation about the tasks. Also do not hesitate to use the comment box and provide additional information. This will help us to understand more about your experience.

The main goal of this activity is to connect text mining system developers and biocurators to facilitate improvement of the tool. The systems are not perfect, so constructive responses are greatly appreciated.

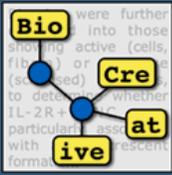
If in some situation you are not able to move forward with a task, please explain in the comment box why you were unable to. It is important that you address all the questions.

Feel free to try additional tasks!

- \* **1. The information in this survey will be kept anonymous but the data will be used for analysis of usability of the website and that analysis may be published. We may contact you if we have further questions. Your personal information will not be distributed to parties not involved in the evaluation.**

**Please indicate if you agree to these terms**

Agree  Disagree



## BioCreative Interactive Task:Argo

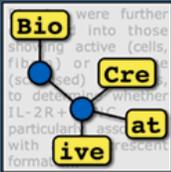
### Information about you

\* 1. Your Name

\* 2. Your email?

\* 3. Institution

\* 4. Argo is compatible with Chrome, Firefox and Safari browsers. Which Browser are you using?



## BioCreative Interactive Task:Argo

Task 1 - Goal:Start Argo, and review documentation.

Let's start with this activity! If you get stuck at any point please just say so in the comment box and continue with the activity

**IMPORTANT!** Open the links in a new tab or browser.

Don't use the browser back button but use the [Prev](#) and [Next](#) buttons in the survey page.

**\* 1. Before starting this activity you need to have an account in Argo. Please register first.**

Open a new browser tab or window and go to Argo homepage:

<http://argo.nactem.ac.uk/>

Select Launch and log in

Were you able to Launch Argo?

Comment (If No please comment on your experience)

**\* 2. Before starting the annotation, review the tutorial on "Curation of COPD Phenotypes: Using Argo". Did you find the tutorial?**

If YES, please paste the URL where you found the information.

**\* 3. Overall, how difficult or easy was to find the tutorial?**

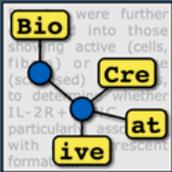
very difficult  difficult  neutral  easy  very easy

If very difficult, please comment.

**\* 4. Overall, how confident are you that you completed the task successfully?**

Not at all confident  not very confident  neutral  confident  extremely confident

If not confident, please comment



## BioCreative Interactive Task:Argo

### TASK 2 - Goal: Manage documents

**IMPORTANT!** Open the links in a new tab or browser.

Don't use the browser back button but use the [Prev](#) and [Next](#) buttons in the survey page.

- \* **1. Once you are logged in, go to Documents and create a folder called "IAT". Were you able to create the new folder?**

If NO, please comment.

- \* **2. Now upload the documents that were sent to you (copd-4-321\_58.txt.xmi; copd-4-351\_45.txt.xmi and copd-6-199\_38.txt.xmi).**

**Were you able to upload the files?**

If NO, please comment

- \* **3. Overall, how difficult or easy was to manage files in Argo?**

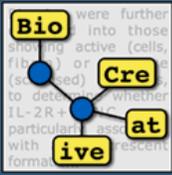
very difficult  difficult  neutral  easy  very easy

Comment (if needed)

**\* 4. Overall, how confident are you that you finished this task successfully?**

Not at all confident  not very confident  neutral  confident  extremely confident

If not confident, please comment



## BioCreative Interactive Task:Argo

### Task 3 - Goal: Explore editing functionality

**IMPORTANT!** Open the links in a new tab or browser.

Don't use the browser back button but use the [Prev](#) and [Next](#) buttons in the survey page.

**1. Select the 3 files on the IAT folder and click on Edit. Open the file copd-4-351\_1.txt.xmi.**

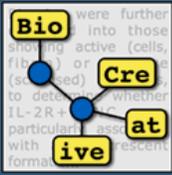
**What do the different color mean?**

**2. Now display only (highlight) MedicalCondition annotations. Were you able to do it?**

If NO, please comment.

**3. Do you find color-coded terms useful?**

If NO, please comment.



## BioCreative Interactive Task: Argo

### Task 4 - Goal: Annotation in Argo

**IMPORTANT!** Open the links in a new tab or browser.

Don't use the browser back button but use the [Prev](#) and [Next](#) buttons in the survey page.

**1. Open the file `copd-4-321_58.txt.xmi`. Now let's try adding a new annotation. Try to annotate "diabetes" in the last sentence as a medical condition. Were you able to do it?**

Please comment (if needed)

**2. Now open the file `copd-6-199_38.txt.xmi`, review the annotation and correct the span of "severe COPD" in the last sentence. Were you able to correct it?**

Please comment if needed.

**3. Overall, how difficult or easy was to edit annotations in Argo?**

Very difficult  Difficult  Neutral  Easy  Very easy

If difficult, please comment.

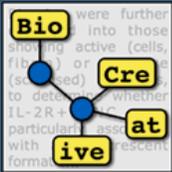
**4. Overall, how confident are you that you finished the task successfully?**

Not at all confident  Not very confident  Neutral  Confident  Extremely confident

Comment if needed.

**5. Overall, how satisfied or dissatisfied are you with Argo annotation results?**

- Very satisfied
- Somewhat satisfied
- Neither satisfied nor dissatisfied
- Somewhat dissatisfied
- Very dissatisfied



## BioCreative Interactive Task:Argo

### Task 5 - Goal: Export annotations

**IMPORTANT!** Open the links in a new tab or browser.

Don't use the browser back button but use the [Prev](#) and [Next](#) buttons in the survey page.

#### 1. Select a file and download the annotation. Were you able to do it?

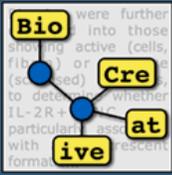
Please comment if needed.

#### 2. Now open the downloaded file in a text editor. What format is the file?

#### \* 3. Overall, how difficult or easy was to download the annotation?

very difficult  difficult  neutral  easy  very easy

If difficult, please comment.



## BioCreative Interactive Task:Argo

### General questions about Argo

Feel free to explore Argo before responding to these questions.

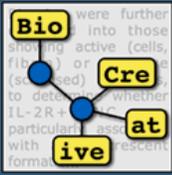
**\* 1. After reviewing Argo, do you think it can help you in the annotation of phenotypes related to disease?**

Not at all  Not much  Neutral  A little  A lot

Please comment as needed.

**\* 2. In what context do you envision using this tool?**

**3. Any suggestions for improvement?**



## BioCreative Interactive Task:Argo

Now to the final questions about your experience with the system

### \* 1. Straightforwardness of use

hard even after help  hard  neutral  easy after help  completely intuitive

Comment (if needed)

### \* 2. Documentation and help

very confusing  confusing  neutral  helpful  very helpful  N/A

Comment (if needed)

### \* 3. Error messages:

very unhelpful  unhelpful  adequate  helpful  very helpful  N/A

Comment (if needed)

### \* 4. Please rate your experience with the system

very negative  negative  neutral  positive  very positive

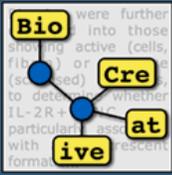
Comment (if needed)

**5. How likely is it that you would recommend Argo to a friend or colleague?**

Not at all likely

Extremely likely

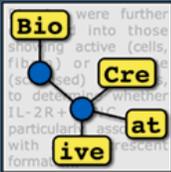
0	1	2	3	4	5	6	7	8	9	10
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## BioCreative Interactive Task:Argo

You are done!

Thank you for participating in the BioCreative Interactive Task!



## BioCreative V Interactive Task: BELIEF

### Welcome to the BioCreative Interactive Task

We will ask you to conduct very short tasks navigating and exploring the website and responding to some basic questions.

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The main goal of this activity is to connect text mining system developers and biocurators to facilitate improvement of the tool. The systems are not perfect, so constructive responses are greatly appreciated.

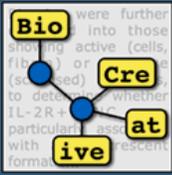
If in some situation you are not able to move forward with a task, please explain in the comment box why you were unable to. It is important that you address all the questions.

Feel free to try additional tasks!

- \* **1. The information in this survey will be kept anonymous but the data will be used for analysis of usability of the website and that analysis may be published. We may contact you if we have further questions. Your personal information will not be distributed to parties not involved in the evaluation.**

**Please indicate if you agree to these terms**

Agree  Disagree



## BioCreative V Interactive Task: BELIEF

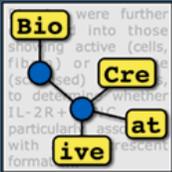
### Information about you

\* 1. Your Name

\* 2. Your email?

\* 3. Institution

\* 4. BELIEF is compatible with Chrome and Firefox browsers. Which Browser are you using?



## BioCreative V Interactive Task: BELIEF

### TASK 1 - Goal: Learn BEL language

Let's start with this activity! If you get stuck at any point please just say so in the comment box and continue with the activity

**IMPORTANT!** Don't use the browser back button, but use the [Prev](#) and [Next](#) buttons in the survey page. Open a [new window or tab](#) for navigating the system's website.

- \* **1. BELIEF provides the user with pre-annotations to speed up the extraction of causal relationships from scientific texts.**

Open a new browser tab or window and go to BELIEF homepage:

<http://belief.scai.fraunhofer.de/BeliefDashboard/>

Your first task is to find a page with information about BEL language.

Given the BEL statement

**p(HGNC:NFK1B1)--p(HGNC:F2R)**

Could you find out what **--** means in the expression?

Write your answer in the box below

- \* **2. Overall, how difficult or easy was to find information about BEL language?**

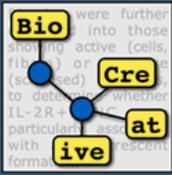
very difficult  difficult  neutral  easy  very easy

If difficult please explain why

**\* 3. Overall, how confident are you that you completed the task successfully?**

not at all confident  not very confident  neutral  confident  extremely confident

if not confident, please explain why



## BioCreative V Interactive Task: BELIEF

TASK 2 - Goal: Access to your project and view documents therein

**IMPORTANT!** Don't use the browser back button, but use the [Prev](#) and [Next](#) buttons in the survey page. Open a [new window or tab](#) for navigating the system's website.

### \* 1. Let's review the BELIEF interface

You can first read the page "Quick Tours -> Curation Workflow for IAT Task to get familiar with the website.

In a separate tab or window, in the BELIEF interface find the webpage that contains the list of projects and open your project (you should have received your project ID via email).

Were you able to find the page with your project and open your project?

How many documents are there in your project?

### \* 2. In the table with the listed documents, for each document there are two views: statement-centric curation view and evidence-centric curation view. What is the difference between these two views?

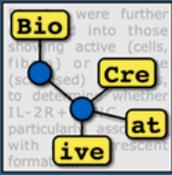
### \* 3. Overall, how difficult or easy did you find the information about the different views?

very difficult  difficult  neutral  easy  very easy

**\* 4. Overall, how confident are you that you completed the task successfully?**

not at all confident  not very confident  neutral  confident  extremely confident

if not confident, please explain why



## BioCreative V Interactive Task: BELIEF

### TASK 3 - Goal: Review and edit BEL statements for a document

**IMPORTANT!** Don't use the browser back button, but use the [Prev](#) and [Next](#) buttons in the survey page. Open a [new window or tab](#) for navigating the system's website.

\* 1. Open the statement-centric view for PMID:11131153. Look for the statement

**p(FIXME) -> p(HGNC:MAPK3,pmod(P))**

with evidence "Another important finding was that, upon IL-2 activation, MAPK/ERK1 was also phosphorylated in PMN."

Your task is to edit the statement to indicate that FIXME is HGNC:IL2

Were you able to edit the BEL statement?

If NO, comment on your experience

\* 2. Now review other proposed statements for PMID:11131153. Decide which ones are correct and select them for export. Were you able to do this task?

If NO please comment on your experience

\* 3. Overall, how difficult or easy was to correct the BEL statements?

very difficult  difficult  neutral  easy  very easy

If difficult please explain why

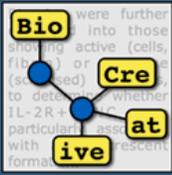
**\* 4. Overall, how confident are you that you completed the task successfully?**

- not at all confident  not very confident  neutral  confident  extremely confident

if not confident, please explain why

**\* 5. Overall, how satisfied are you with BELIEF annotation output?**

- Extremely satisfied
- Very satisfied
- Moderately satisfied
- Slightly satisfied
- Not at all satisfied



## BioCreative V Interactive Task: BELIEF

### TASK 4 - Goal:Export BEL document with curated statements

**IMPORTANT!** Don't use the browser back button, but use the [Prev](#) and [Next](#) buttons in the survey page. Open a [new window or tab](#) for navigating the system's website.

- \* **1. Export BEL document with the curated statements in the previous task. Were you able to export the document?**

Comment (If No please comment on your experience)

- \* **2. Open the saved file in a plain text editor. Is the content what you expected?**

Comment (If No please comment on what you expected)

- \* **3. Overall, how difficult or easy was to export the BEL document with the curated statements?**

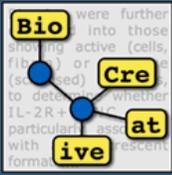
very difficult  difficult  neutral  easy  very easy

If difficult please explain why

- \* **4. Overall, how confident are you that you completed the task successfully?**

not at all confident  not very confident  neutral  confident  extremely confident

if not confident, please explain why



## BioCreative V Interactive Task: BELIEF

Task 5 - Goal: Add a new document to your project

**IMPORTANT!** Don't use the browser back button, but use the [Prev](#) and [Next](#) buttons in the survey page. Open a [new window or tab](#) for navigating the system's website.

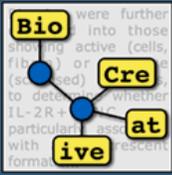
- \* **1. Your task is to add a new document to your project. Try to add a PMID for a document of your choice or, alternatively, you can use 25666058. Make sure to associate the document to your project. Were you able to add the document to your list?**

If NO, please comment what went wrong

- \* **2. Overall, how difficult or easy was to add a document to your project?**

very difficult  difficult  neutral  easy  very easy

If difficult please explain why



## BioCreative V Interactive Task: BELIEF

### General Questions about BELIEF

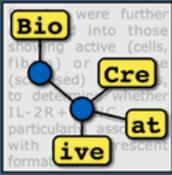
Feel free to explore the system further before responding to these questions.

**\* 1. After reviewing the tool. Do you think BELIEF could speed up the curation of BEL statements?**

not at all  not much  neutral  a little  a lot

**2. In what context do you envision using this tool?**

**3. Any suggestions for improvements?**



## BioCreative V Interactive Task: BELIEF

Now to the final questions about your experience with the system

### \* 1. Straightforwardness of use

hard even after help  hard  neutral  easy after help  completely intuitive

Comment (if needed)

### \* 2. Documentation and help

very confusing  confusing  neutral  helpful  very helpful  N/A

Comment (if needed)

### \* 3. Error messages:

very unhelpful  unhelpful  neutral  helpful  very helpful  N/A

Comment (if needed)

### \* 4. Please rate your experience with the system

very negative  negative  neutral  positive  very positive

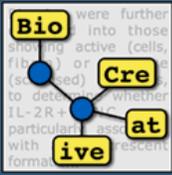
Comment (if needed)

**\* 5. How likely is it that you would recommend BELIEF to a friend or colleague?**

Not at all likely

Extremely likely

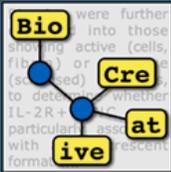
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## BioCreative V Interactive Task: BELIEF

You are done!

Thank you for participating in the BioCreative Interactive Task!



## BioCreative V Interactive Task: egas

### Welcome to the BioCreative Interactive Task

We will ask you to conduct very short tasks navigating and exploring the website and responding to some basic questions.

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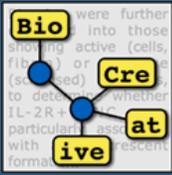
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Feel free to try additional tasks!

- \* **1. The information in this survey will be kept anonymous but the data will be used for analysis of usability of the website and that analysis may be published. We may contact you if we have further questions. Your personal information will not be distributed to parties not involved in the evaluation.**

**Please indicate if you agree to these terms**

Agree  Disagree



## BioCreative V Interactive Task: egas

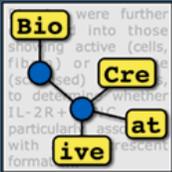
Some information about you

**\* 1. Your Name**

**\* 2. Your email?**

**\* 3. Institution**

**\* 4. egas is compatible with Chrome, Firefox and Safari browsers. Which Browser are you using?**



## BioCreative V Interactive Task: egas

### TASK 1 - Goal:accessing egas

Let's start with this activity! If you get stuck at any point please just say so in the comment box and continue with the activity

**IMPORTANT!** Don't use the browser back button, but use the [Prev](#) and [Next](#) buttons in the survey page.  
**Open a new tab or window for navigating the system's website.**

Egas is a web-based platform for biomedical text mining and collaborative curation, supporting manual and automatic annotation of concepts and relations. In this case we will look at curation of phenotypes.

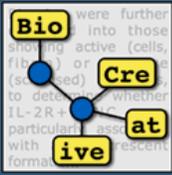
**\* 1. Open a new browser tab or window and go to egas homepage:**

<https://demo.bmd-software.com/egas/>

**Your first task is to log in and access the project called BioCreative V IAT train**

**Were you able to do it?**

Comment (If No please comment on your experience)



## BioCreative V Interactive Task: egas

### TASK 2 - Goal: find information in egas

**IMPORTANT!** Don't use the browser back button, but use the [Prev](#) and [Next](#) buttons in the survey page.  
Open a new tab or window for navigating the system's website.

- \* 1. Once you are signed in, open the project called BioCreative V IAT train. How do you know if the project is public or private? Where did you find the information?

- \* 2. Find and review the information on how to do annotation of concepts and relations. Were you able to find the information?

If YES, paste the URL of the page where you found the information. If NO, please explain what you tried.

- \* 3. Overall, how difficult or easy was to find information about different topics in egas?

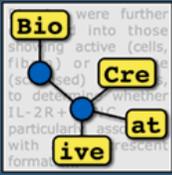
very difficult  difficult  neutral  easy  very easy

If difficult please explain why

- \* 4. Overall, how confident are you that you completed the task successfully?

not at all confident  not very confident  neutral  confident  extremely confident

if not confident, please explain why



## BioCreative V Interactive Task: egas

### TASK 3 - Goal: curate a document

**IMPORTANT!** Don't use the browser back button, but use the [Prev](#) and [Next](#) buttons in the survey page.  
Open a new tab or window for navigating the system's website.

\* 1. Open any document in the BioCreative V IAT train project.

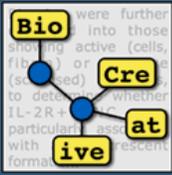
Is there any highlighted entity?

Comment (If No please comment on your experience)

\* 2. What color are disease terms highlighted in?

\* 3. Do you find color-coded text useful?

Comment (If possible provide comment)



## BioCreative V Interactive Task: egas

### TASK 4 - Goal: curation of a document

**IMPORTANT!** Don't use the browser back button, but use the [Prev](#) and [Next](#) buttons in the survey page.  
Open a new tab or window for navigating the system's website.

- \* **1. For a given document, review the highlighted bio-entities and their links to databases/ontologies. Correct as needed (remove, edit or accept). Were you able to do it?**

Comment (If No please comment your experience)

- \* **2. Now lets start with finding relation between the entities. What are the possible options for annotating a relationship between a gene and a disease in egas? Where did you find the information?**

- \* **3. Now, create a relationship between a gene and disease. Were you able to do it?**

If NO, please comment

- \* **4. Overall, how difficult or easy was to annotate in egas?**

very difficult  difficult  neutral  easy  very easy

If difficult please explain why

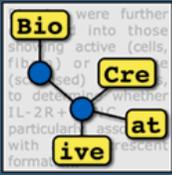
**\* 5. Overall, how confident are you that you completed the task successfully?**

- not at all confident  not very confident  neutral  confident  extremely confident

if not confident, please explain why

**\* 6. Overall, how satisfied are you with egas annotation output?**

- Extremely satisfied
- Very satisfied
- Moderately satisfied
- Slightly satisfied
- Not at all satisfied



## BioCreative V Interactive Task: egas

### TASK 5 - Goal: export annotations

**IMPORTANT!** Don't use the browser back button, but use the [Prev](#) and [Next](#) buttons in the survey page.  
Open a new tab or window for navigating the system's website.

\* **1. You are going to export the annotations in A1 format. Please find out first what A1 format is. Were you able to find the information?**

If No, please comment

\* **2. Now download the annotation in A1 format . Were you able to do it?**

If NO, please comment on your experience

**3. If you were able to download the file, open the annotation file (.ann) in a text editor. Is the content what you expected?**

If NO, please comment

\* **4. Overall, how difficult or easy was to download the information in egas?**

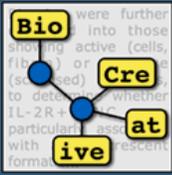
very difficult  difficult  neutral  easy  very easy

If difficult, please explain why

**\* 5. Overall, how confident are you that you completed the task successfully?**

not at all confident  not very confident  neutral  confident  extremely confident

if not confident, please explain why



## BioCreative V Interactive Task: egas

### General questions about egas

Feel free to explore this system further before responding to these questions.

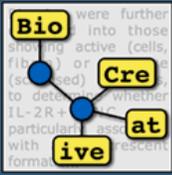
**\* 1. After reviewing egas. Do you think egas could help you in the annotation of phenotypes?**

not at all  not much  neutral  a little  a lot

Please comment if needed

**\* 2. In what context do you envision using this tool?**

**3. Any suggestions for improvements?**



## BioCreative V Interactive Task: egas

Now to the final questions about your experience with the system

### \* 1. Straightforwardness of use

hard even after help  hard  neutral  easy after help  completely intuitive

Comment (if needed)

### \* 2. Documentation and help

very confusing  confusing  neutral  helpful  very helpful  N/A

Comment (if needed)

### \* 3. Error messages:

very unhelpful  unhelpful  adequate  helpful  very helpful  N/A

Comment (if needed)

### \* 4. Please rate your experience with the system

very negative  negative  neutral  positive  very positive

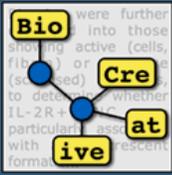
Comment (if needed)

**5. How likely is it that you would recommend egas to a friend or colleague?**

Not at all likely

Extremely likely

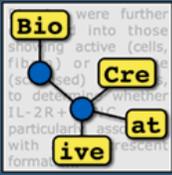
0	1	2	3	4	5	6	7	8	9	10
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## BioCreative V Interactive Task: egas

You are done!

Thank you for participating in the BioCreative Interactive Task!



## BioCreative V Interactive Task: EXTRACT

Welcome to the BioCreative Interactive Task

We will ask you to conduct very short tasks navigating and exploring the website and responding to some basic questions.

Note that we are NOT TESTING YOU but rather the usability of the system. We will be very grateful if along with this survey you could submit a file to [biocreativeiat@gmail.com](mailto:biocreativeiat@gmail.com) with some screenshots or further explanation about the tasks. Also do not hesitate to use the comment box and provide additional information. This will help us to understand more about your experience.

The main goal of this activity is to connect text mining system developers and biocurators to facilitate improvement of the tool. The systems are not perfect, so constructive responses are greatly appreciated.

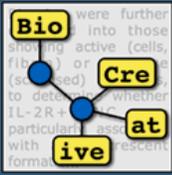
If in some situation you are not able to move forward with a task, please explain in the comment box why you were unable to. It is important that you address all the questions.

Feel free to try additional tasks!

- \* **1. The information in this survey will be kept anonymous but the data will be used for analysis of usability of the website and that analysis may be published. We may contact you if we have further questions. Your personal information will not be distributed to parties not involved in the evaluation.**

**Please indicate if you agree to these terms**

Agree  Disagree



## BioCreative V Interactive Task: EXTRACT

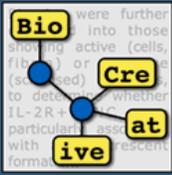
### Information about you

\* 1. Your Name

\* 2. Your email?

\* 3. Institution

\* 4. EXTRACT is compatible with Chrome and Firefox browsers. Which Browser are you using?



## BioCreative V Interactive Task: EXTRACT

### TASK 1 - Installing the bookmarklet

Let's start with this activity! If you get stuck at any point please just say so in the comment box and continue with the activity

**Important!** Don't use the browser back button, but use the [Prev](#) and [Next](#) buttons in the survey page. Use a [new window or tabs](#) for the website navigation

**1. EXTRACT lists the environment type and organism name mentions identified in a given piece of text and maps them to their corresponding ontology/taxonomy entry.**

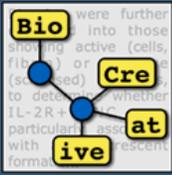
**Open a new browser tab or window and go to EXTRACT page:**

<http://extract.hcmr.gr/>

**Your first task is to install the bookmarklet so you can start using EXTRACT**

**Were you able to install EXTRACT bookmarklet?**

Comment (If No please comment on your experience)



## BioCreative V Interactive Task: EXTRACT

### TASK1 (cont.)

**\* 1. Overall, how difficult or easy did you find this task?**

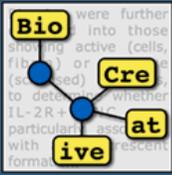
very difficult  difficult  neutral  easy  very easy

Do you want to comment?

**\* 2. Overall, how confident are you that you completed the task successfully?**

not at all confident  not very confident  neutral  confident  extremely confident

If not confident, please explain why



## BioCreative V Interactive Task: EXTRACT

### TASK 2 - Goal: EXTRACT on a text piece

**Important!** Don't use the browser back button, but use the [Prev](#) and Next buttons in the survey page. Use a [new window or tabs](#) for the website navigation

- \* **1. Let's see how the bookmarklet works. Your goal is to extract the species and environment information from text and to map them to NCBI taxon and ENVO terms. Although this tool was developed by groups working in metagenomics, it is not limited to this domain.**

**In a separate tab or window, find any webpage with text for which you would like to try EXTRACT; remember that the page should contain species and environment information. If you need a handy example, you could use this Pubmed link**

<http://www.ncbi.nlm.nih.gov/pubmed/?term=metagnomics+and+environment> and display as abstracts.

a- Now EXTRACT on the webpage.

Do you see any highlighted terms?

What do the different highlighted colors mean?

- \* **2. Do you find color-coded text useful?**

Comment (If possible provide comment)

**\* 3. Select some text that contains highlighted text and EXTRACT again.**

**Do you see a pop-up box with the extracted terms?**

Comment (If No please comment on your experience)

**\* 4. How difficult or easy was it to EXTRACT on a piece of text?**

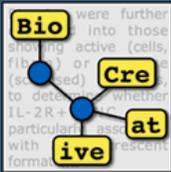
very difficult  difficult  neutral  easy  very easy

If difficult, please let us know what happened

**\* 5. Overall, how confident are you that you completed the task successfully?**

not at all confident  not very confident  neutral  confident  extremely confident

if not confident, please explain why



## BioCreative V Interactive Task: EXTRACT

TASK 3 - Goal: Review the EXTRACT result.

Are the species and environments extracted correctly? Are the ontology terms mapped correctly?

- \* 1. **In a separate tab or window, select any text of your interest that contain species and environmental information and EXTRACT on it.**

Alternatively, you could use <http://www.ncbi.nlm.nih.gov/pubmed/26072397>, select the text and EXTRACT

Review the table with extracted information.

Are the terms extracted correct (e.g., the terms selected as species are species)?

Comment (If No please provide what could have gone wrong)

- \* 2. **Review the example below (which corresponds to EXTRACTing the text on <http://www.ncbi.nlm.nih.gov/pubmed/26072397>)**

Could you tell why "biotope" highlighted in the text is linked to ENVO term habitat?

Comment (If possible provide comment)

Extract result for the text on <http://www.ncbi.nlm.nih.gov/pubmed/26072397>

**EXTRACT**

were to (1) compare higher taxon abundance among biotopes, (2) test to what extent variation in bacterial composition can be explained by the biotope versus environment, (3) identify dominant (>300 sequences) bacterial operational taxonomic units (OTUs) and their closest known relatives and (4) assign putative functions to the sponge bacterial communities using a recently developed predictive metagenomic approach. We observed marked differences in bacterial composition and the relative abundance of the most abundant phyla, classes and orders among sponge species, seawater and sediment. [...]

**Identified terms**

Type	Name	Identifier
Environment	Archipelago	ENVO.00000220
Environment	Coral reef	ENVO.00000150
Environment	Habitat	ENVO.00002036
Environment	Sea water	ENVO.00002149
Environment	Sediment	ENVO.00002007
Organism	Hyrtios erectus	279628
Organism	Otus	56271
Organism	Stylissa carteri	279588
Organism	Stylissa massa	279589

**\* 3. Finding this information was:**

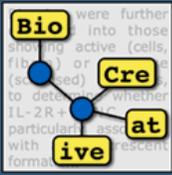
- very hard  hard  neutral  easy  very easy

Do you want to comment?

**\* 4. Overall, how confident are you that you completed the task successfully?**

- not at all confident  not very confident  neutral  confident  extremely confident

if not confident, please explain why



## BioCreative V Interactive Task: EXTRACT

### TASK 4 - Goal: Save the information

**Important!** Don't use the browser back button, but use the [Prev](#) and [Next](#) buttons in the survey page. Use a [new window or tabs](#) for the website navigation

**\* 1. Save the EXTRACT result table in TASK 3 (or one of your choices)**

**Were you able to save the EXTRACT information?**

Comment (If No please comment on your experience)

**2. Open the saved file. Is the content what you expected?**

Comment (If No please comment on what you expected)

**\* 3. Overall, how difficult or easy did you find saving the information?**

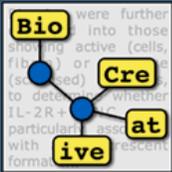
very difficult  difficult  neutral  easy  very easy

Do you want to comment?

**\* 4. Overall, how confident are you that you completed the task successfully?**

not at all confident  not very confident  neutral  confident  extremely confident

if not confident, please explain why



## BioCreative V Interactive Task: EXTRACT

### Task 5 - Goal: Find documentation

**Important!** Don't use the browser back button, but use the [Prev](#) and [Next](#) buttons in the survey page. Use a [new window or tabs](#) for the website navigation

- \* **1. If you were interested to add the EXTRACT popup functionality on your resource website pages. Can you find the information on how to do it?**

- \* **2. Finding this information was:**

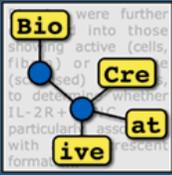
very difficult  difficult  neutral  easy  very easy

Do you want to comment?

- \* **3. Overall, how confident are you that you completed the task successfully?**

not at all confident  not very confident  neutral  confident  extremely confident

if not confident, please explain why



## BioCreative V Interactive Task: EXTRACT

### Some general questions about EXTRACT

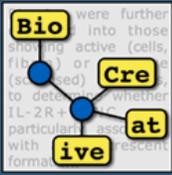
Feel free to further explore the tool before you respond to these questions

**\* 1. After reviewing the tool. Do you think EXTRACT could help you in extracting and mapping species and environment in text to controlled vocabulary terms?**

not at all  not much  neutral  a little  a lot

**2. In what context do you envision using this tool?**

**3. Any suggestions for improvements?**



## BioCreative V Interactive Task: EXTRACT

Now to the final questions about your experience with the system

### 1. Straightforwardness of use

hard even after help  hard  neutral  easy after help  completely intuitive

Comment (if needed)

### 2. Documentation and help

very confusing  confusing  neutral  helpful  very helpful  N/A

Comment (if needed)

### 3. Error messages:

very unhelpful  unhelpful  neutral  helpful  very helpful  N/A

Comment (if needed)

### 4. Please rate your experience with the system

very negative  negative  neutral  positive  very positive

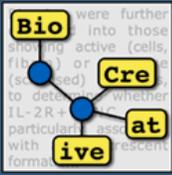
Comment (if needed)

**\* 5. How likely is it that you would recommend EXTRACT to a friend or colleague?**

Not at all likely

Extremely likely

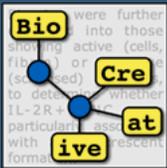
0	1	2	3	4	5	6	7	8	9	10
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## BioCreative V Interactive Task: EXTRACT

You are done!

Thank you for participating in the BioCreative Interactive Task!



## BioCreative V Interactive Task: GenDisFinder

Welcome to the BioCreative Interactive Task

We will ask you to conduct very short tasks navigating and exploring the website and responding to some basic questions.

Note that we are NOT TESTING YOU but rather the usability of the system. We will be very grateful if along with this survey you could submit a file to [biocreativeiat@gmail.com](mailto:biocreativeiat@gmail.com) with some screenshots or further explanation about the tasks. Also do not hesitate to use the comment box and provide additional information. This will help us to understand more about your experience.

The main goal of this activity is to connect text mining system developers and biocurators to facilitate improvement of the tool. The systems are not perfect, so constructive responses are greatly appreciated.

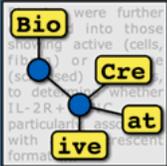
If in some situation you are not able to move forward with a task, please explain in the comment box why you were unable to. It is important that you address all the questions.

Feel free to try additional tasks!

- \* **1. The information in this survey will be kept anonymous but the data will be used for analysis of usability of the website and that analysis may be published. We may contact you if we have further questions. Your personal information will not be distributed to parties not involved in the evaluation.**

**Please indicate if you agree to these terms**

Agree  Disagree



## BioCreative V Interactive Task: GenDisFinder

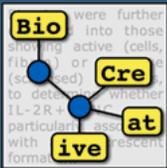
### Information about you

**\* 1. Your Name**

**\* 2. Your email?**

**\* 3. Institution**

**\* 4. GenDisFinder is compatible with Chrome, Explorer, Firefox, Opera and Safari browsers. Which Browser are you using?**



## BioCreative V Interactive Task: GenDisFinder

### Task 1 - Find Documentation

Let's start with this activity! If you get stuck at any point please just say so in the comment box and continue with the activity.

**IMPORTANT!** Don't use the browser back button, but the use [Prev](#) and [Next](#) buttons in the survey page. Open a [new window or tab](#) to navigate the website.

- \* **1. GenDisFinder is designed to help you find gene-disease associations in the literature and, in addition, classify them as either novel, known or unknown events.**

Open a new browser tab or window and go to GenDisFinder page:

[biominingbu.org/GenDisFinder/](http://biominingbu.org/GenDisFinder/)

There are three input formats that can be processed in GenDisFinder. Your first task is to find out what the GenDisFinder Format is.

Were you able to find information about this format?

Comment (If No please comment on your experience)

- \* **2. Overall, how difficult or easy did you find this task?**

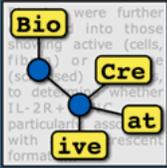
very difficult  difficult  neutral  easy  very easy

If difficult please explain why

**\* 3. Overall, how confident are you that you completed the task successfully?**

not at all confident  not very confident  neutral  confident  extremely confident

if not confident, please explain why



## BioCreative V Interactive Task: GenDisFinder

### TASK 2- Finding genes associated to a disease

**IMPORTANT!** Don't use the browser back button, but the use [Prev](#) and [Next](#) buttons in the survey page. Open a [new window or tab](#) to navigate the website.

- \* 1. The following link takes you to a subset of abstracts from a PubMed search for prostate cancer in MedLine Format: [MedLine sample](#)

Copy the abstracts and paste them in the GenDisFinder input box and submit.

Did GenDisFinder indicate any gene associated to prostate cancer?

If Yes, can you provide an example of a gene that the system suggests to be associated to prostate cancer. If NO, can you tell what happened?

- \* 2. Review the information in the table, each row is labeled as "Unknown", "Known" or "Novel". What do these labels mean?

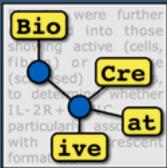
- \* 3. Overall, how easy or difficult was to understand GenDisFinder results?

very difficult  difficult  neutral  easy  very easy

- \* 4. Overall, how confident are you that you completed the task successfully?

not at all confident  not very confident  neutral  confident  extremely confident

if not confident, please explain why



## BioCreative V Interactive Task: GenDisFinder

### TASK 3 - Goal: Review the Association Networks

**IMPORTANT!** Don't use the browser back button, but use [Prev](#) and [Next](#) buttons in the survey page. Open a [new window or tab](#) to navigate the website.

- \* 1. For the novel association described in PMID:26082485 for **Src-1** and **prostate cancer**. According to the association network, what links Src-1 to prostate cancer?

2. Based on the network, list two genes that are directly associated with prostate cancer

- \* 3. Do you understand the evidence or basis for connecting the prostate cancer and Src-1 in the network?

Please explain

- \* 4. Overall, how difficult or easy was to understand the association networks?

very difficult  difficult  neutral  easy  very easy

If difficult please explain why

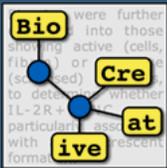
**\* 5. Overall, how confident are you that you completed the task successfully?**

not at all confident  not very confident  neutral  confident  extremely confident

if not confident, please explain why

**\* 6. Do you find the network association representation useful?**

If No please explain



## BioCreative V Interactive Task: GenDisFinder

### TASK 4 - Editing information

**IMPORTANT!** Don't use the browser back button, but the use [Prev](#) and [Next](#) buttons in the survey page. Open a [new window or tab](#) to navigate the website.

- \* 1. Let's try to do some curation. Review the results from the previous task. The figure below shows a sentence describing a method and not a result. We would not consider this as a sentence for gene-disease association. Remove this annotation. Were you able to remove this annotation?

Comment (If No please comment on your experience)

4	Unknown	<p><b>PubMed ID:</b> 26085869</p> <p><b>Sentence:</b> METHODS: This was a single-centre retrospective study assessing serum <b>FSH</b> levels of patients undergoing ADT for advancing <b>prostate cancer</b>.</p> <p><b>Entrez Gene:</b> <b>6046</b> / BRD2 / bromodomain containing 2</p> <p><b>Disease OMIM:</b> <b>176807</b> / PROSTATE CANCER</p> <p><b>Text relation type:</b> levels(ALTERED EXPRESSION)</p> <p><b>Network association type:</b> No Association (<a href="#">Click Visualize Network</a>)</p> <p><b>Curatable:</b> Yes</p>
---	---------	--

- \* 2. Edit other annotations as needed. For example, we could change the **Text relation type** for PMID:26091350 from **Any** to **expression(ALTERED EXPRESSION)**. Were you able to edit the information?

Comment as needed.

- \* 3. Overall, how difficult or easy did you find editing the information in GenDisFinder output?

very difficult
  difficult
  neutral
  easy
  very easy

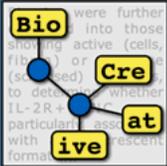
**\* 4. Overall, how confident are you that you completed the task successfully?**

- not at all confident  not very confident  neutral  confident  extremely confident

if not confident, please explain why

**5. Overall, how satisfied are you with GenDisFinder annotation output?**

- Extremely satisfied
- Very satisfied
- Moderately satisfied
- Slightly satisfied
- Not at all satisfied



## BioCreative V Interactive Task: GenDisFinder

### Task 5 - Exporting the annotations

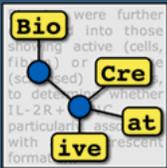
**IMPORTANT!** Don't use the browser back button, but the use [Prev](#) and [Next](#) buttons in the survey page. Open a [new window or tab](#) to navigate the website.

**\* 1. Export the annotations in table format. Were you able to do it?**

If No, please comment

**\* 2. Open the saved file. Is it what you expected?**

If No, please explain what you expected



## BioCreative V Interactive Task: GenDisFinder

### General Questions about GenDisFinder

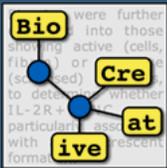
Feel free to explore this system further before responding to these questions

**\* 1. After reviewing the tool, do you think GenDisFinder could help you to find hidden relations between genes and diseases?**

not at all  not much  neutral  a little  a lot

**2. In what context do you envision using this tool?**

**3. Any suggestions for improvements?**



## BioCreative V Interactive Task: GenDisFinder

Now to the final questions about your experience with the system

### \* 1. Straightforwardness of use

hard even after help  hard  neutral  easy after help  completely intuitive

Comment (if needed)

### \* 2. Documentation and help

very confusing  confusing  neutral  helpful  very helpful  N/A

Comment (if needed)

### \* 3. Error messages:

very unhelpful  unhelpful  neutral  helpful  very helpful  N/A

Comment (if needed)

### \* 4. Please rate your experience with the system

very negative  negative  neutral  positive  very positive

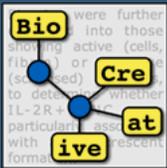
Comment (if needed)

**\* 5. How likely is it that you would recommend GenDisFinder to a friend or colleague?**

Not at all likely

Extremely likely

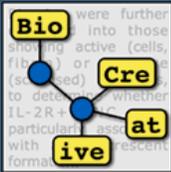
0	1	2	3	4	5	6	7	8	9	10
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## BioCreative V Interactive Task: GenDisFinder

You are done!

Thank you for participating in the BioCreative Interactive Task!



## BioCreative V Interactive Task: MetastasisWay

### Welcome to the BioCreative Interactive Task

We will ask you to conduct very short tasks navigating and exploring the website and responding to some basic questions.

Note that we are NOT TESTING YOU but rather the usability of the system. We will be very grateful if along with this survey you could submit a file to [biocreativeiat@gmail.com](mailto:biocreativeiat@gmail.com) with some screenshots or further explanation about the tasks. Also do not hesitate to use the comment box and provide additional information. This will help us to understand more about your experience.

The main goal of this activity is to connect text mining system developers and biocurators to facilitate improvement of the tool. The systems are not perfect, so constructive responses are greatly appreciated.

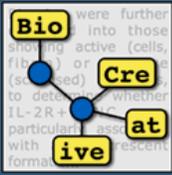
If in some situation you are not able to move forward with a task, please explain in the comment box why you were unable to. It is important that you address all the questions.

Feel free to try additional tasks!

- \* **1. The information in this survey will be kept anonymous but the data will be used for analysis of usability of the website and that analysis may be published. We may contact you if we have further questions. Your personal information will not be distributed to parties not involved in the evaluation.**

**Please indicate if you agree to these terms**

Agree  Disagree



## BioCreative V Interactive Task: MetastasisWay

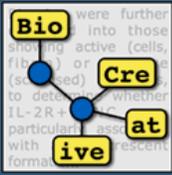
### Information about you

\* 1. Your Name

\* 2. Your email?

\* 3. Institution

\* 4. MetastasisWay is compatible with Chrome. Are you using Chrome?



## BioCreative V Interactive Task: MetastasisWay

### Task 1 - Goal: Registration and installation of application

Let's start with this activity! If you get stuck at any point please just say so in the comment box and continue with the activity

**IMPORTANT!** Don't use the browser back button, but use the [Prev](#) and [Next](#) buttons in the survey page. Open a [new tab or window](#) when navigating the system's website.

\* 1.

**MetastasisWay Annotation Tool (MAT) assists in finding biomedical concepts and relations associated with metastasis in PubMed environment.**

Open a new [Chrome](#) browser tab or window and go to MetastasisWay page:

<http://btm.tmu.edu.tw/metastasisWay/>

To use the annotation tool in PubMed you need to

1-Register as a user

2-Install the MAT (MetastasisWay Annotation Tool).

Follow the instructions in the MetastasisWay website to do this.

Were you able to register and install the Chrome extension MAT?

Comment (If No please comment on your experience)

\* 2. Overall, how difficult or easy was to register to MetastasisWay and install the MAT extension?

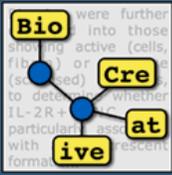
very difficult  difficult  neutral  easy  very easy

If difficult please explain why

**\* 3. Overall, how confident are you that you completed the task successfully?**

not at all confident  not very confident  neutral  confident  extremely confident

if not confident, please explain why



## BioCreative V Interactive Task: MetastasisWay

Task 2 - Goal: Find information about bioconcepts relevant to MetastasisWay

**IMPORTANT!** Don't use the browser back button, but use the [Prev](#) and [Next](#) buttons in the survey page. Open a [new tab](#) or [window](#) when navigating the system's website.

\* **1. Find information about the vocabulary/database used to link the different concepts/bioentities in MetastasisWay (e.g. genes, disease). Were you able to find it?**

\* **2. Overall, how difficult or easy did you find this task?**

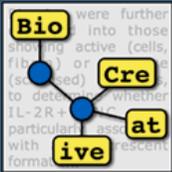
very difficult  difficult  neutral  easy  very easy

If difficult please explain why

\* **3. Overall, how confident are you that you completed the task successfully?**

not at all confident  not very confident  neutral  confident  extremely confident

if not confident, please explain why



## BioCreative V Interactive Task: MetastasisWay

### TASK 3 - Goal: Use MAT on PubMed search

**IMPORTANT!** Don't use the browser back button, but use the [Prev](#) and [Next](#) buttons in the survey page. Open a [new tab or window](#) when navigating the system's website.

**\* 1. Let's see how MAT works.**

Run following PubMed search which will retrieve articles about prostate cancer and metastasis

<http://www.ncbi.nlm.nih.gov/pubmed/?term=metastasis+and+gene+and+prostate+cancer>

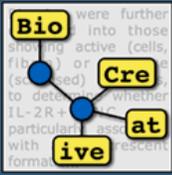
Do you see any highlighted terms?

What do the different highlighted colors mean?

**2. Do you find color-coded text useful?**

Comment (If possible provide comment)

**\* 3. Based on a quick review of the first page, list at least one gene that promotes prostate cancer metastasis**



## BioCreative V Interactive Task: MetastasisWay

### TASK 4 - Goal: Review of MAT output

**IMPORTANT!** Don't use the browser back button, but use the [Prev](#) and [Next](#) buttons in the survey page. Open a [new tab or window](#) when navigating the system's website.

- \* 1. Review the result for <http://www.ncbi.nlm.nih.gov/pubmed/26059417>

In this abstract [MicroRNA-205](#) is listed both as enhancing and inhibiting cancer. Review the information and remove the incorrect information. Were you able to do it?

Comment (If No please provide what could have gone wrong)

- \* 2. The term [prostate cancer](#) is linked to an ID of the type [D011471](#). What is the database or ontology source for such ID?

- \* 3. Now review the result on PMID:26050620 or click here

<http://www.ncbi.nlm.nih.gov/pubmed/26050620>

According to your understanding, what genes are linked to metastasis?

- \* 4. Overall, how difficult or easy was the review and editing of the abstract?

very difficult  difficult  neutral  easy  very easy

If difficult, explain why

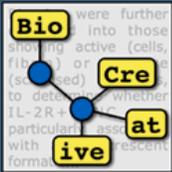
**\* 5. Overall, how confident are you that you completed the task successfully?**

- not at all confident  not very confident  neutral  confident  extremely confident

if not confident, please explain why

**\* 6. Overall, how satisfied are you with MAT annotation output?**

- Extremely satisfied
- Very satisfied
- Moderately satisfied
- Slightly satisfied
- Not at all satisfied



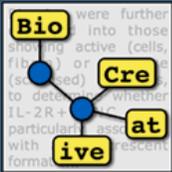
## BioCreative V Interactive Task: MetastasisWay

### TASK 5 - Goal: Review the MAT visualization

**IMPORTANT!** Don't use the browser back button, but use the [Prev](#) and [Next](#) buttons in the survey page. Open a [new tab or window](#) when navigating the system's website.

**1. Review the graphical representation of the MAT annotation for any abstract (you could try <http://www.ncbi.nlm.nih.gov/pubmed/26050620> as an example). Do you find this visualization useful?**

Comment (If No please comment on your experience)



## BioCreative V Interactive Task: MetastasisWay

### TASK 6 - Goal: Export the annotations

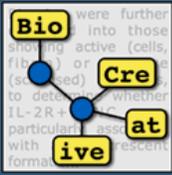
**IMPORTANT!** Don't use the browser back button, but use the [Prev](#) and [Next](#) buttons in the survey page. Open a [new tab or window](#) when navigating the system's website.

- \* **1. Now export the annotation table for <http://www.ncbi.nlm.nih.gov/pubmed/26050620>. Were you able to export the file?**

If NO, please comment

- \* **2. Open the saved file in a plain text editor or Excel. Is the content what you expected?**

Comment (If No please comment on what you expected)



## BioCreative V Interactive Task: MetastasisWay

### General questions about MetastasisWay

Feel free to explore this system further before responding to these questions.

**\* 1. After reviewing the system. Do you think MAT could help you in finding biomedical concepts and relations associated with metastasis?**

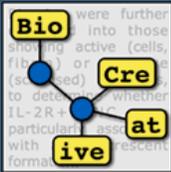
not at all  not much  neutral  a little  a lot

**2. In what context do you envision using this tool?**

**3. Do you find the curation process on PubMed environment a good strategy, or does it disrupt the usage of PubMed?**

**4. If you know of other tool that helps you to curate literature for pathways in cancer and metastasis. What tool is it? How does it compare to MetastasisWay?**

**5. Any suggestions for improvements?**



## BioCreative V Interactive Task: MetastasisWay

Now to the final questions about your experience with the system

### \* 1. Straightforwardness of use

hard even after help  hard  neutral  easy after help  completely intuitive

Comment (if needed)

### \* 2. Documentation and help

very confusing  confusing  neutral  helpful  very helpful  N/A

Comment (if needed)

### \* 3. Error messages:

very unhelpful  unhelpful  neutral  helpful  very helpful  N/A

Comment (if needed)

### \* 4. Please rate your experience with the system

very negative  negative  neutral  positive  very positive

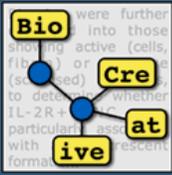
Comment (if needed)

**\* 5. How likely is it that you would recommend MetastasisWay to a friend or colleague?**

Not at all likely

Extremely likely

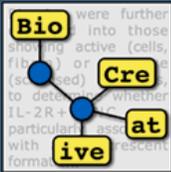
0	1	2	3	4	5	6	7	8	9	10
---	---	---	---	---	---	---	---	---	---	----



## BioCreative V Interactive Task: MetastasisWay

You are done!

Thank you for participating in the BioCreative Interactive Task!



## BioCreative V interactive task: Ontogene --- genes / diseases / chemicals

### Welcome to the BioCreative Interactive Task

We will ask you to conduct very short tasks navigating and exploring the website and responding to some basic questions.

Note that we are NOT TESTING YOU but rather the usability of the system. We will be very grateful if along with this survey you could submit a file to [biocreativeiat@gmail.com](mailto:biocreativeiat@gmail.com) with some screenshots or further explanation about the tasks. Also do not hesitate to use the comment box and provide additional information. This will help us to understand more about your experience.

The main goal of this activity is to connect text mining system developers and biocurators to facilitate improvement of the tool. The systems are not perfect, so constructive responses are greatly appreciated.

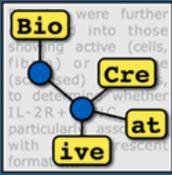
If in some situation you are not able to move forward with a task, please explain in the comment box why you were unable to. It is important that you address all the questions.

Feel free to try additional tasks!

- \* **1. The information in this survey will be kept anonymous but the data will be used for analysis of usability of the website and that analysis may be published. We may contact you if we have further questions. Your personal information will not be distributed to parties not involved in the evaluation.**

**Please indicate if you agree to these terms**

Agree  Disagree



## BioCreative V interactive task: Ontogene --- genes / diseases / chemicals

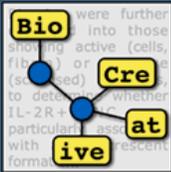
### Information about you

\* 1. Your Name

\* 2. Your email?

\* 3. Institution

\* 4. Ontogene is compatible with Chrome, Firefox and Safari browsers. What Browser are you using?



## BioCreative V interactive task: Ontogene --- genes / diseases / chemicals

### TASK 1 - Goal: Ontogene access

Let's start with this activity! If you get stuck at any point please just say so in the comment box and continue with the activity

**IMPORTANT!** Don't use the browser back button but the [Prev](#) and [Next](#) buttons in the survey page.  
**Open a new tab or window to navigate the system's website.**

**Before you start**, please notice that you can find information about using OntoGene/ODIN from the screencasts at this URL:  
<http://kitt.cl.uzh.ch/kitt/ODIN/videos/>

You might want to inspect them before you start, or check them as needed while you perform the assigned tasks.

Feel free at any time to contact the system developer ([fabio@ontogene.org](mailto:fabio@ontogene.org)) if you need clarifications.

\* 1.

OntoGene is a framework for literature curation of bioconcepts, such as miRNA, gene, disease and chemicals, and their relations.

Open a new browser tab or window and select the Ontogene page of interest:

(Pick the version that you consider most relevant for you)

**1-chemical-gene-disease:** <http://kitt.ifi.uzh.ch/kitt/ODIN/bc2015/>

- *Allows inspection of arbitrary PubMed abstracts*
- *Bioconcepts: gene / disease / chemicals*
- *Standards: CTD ([Comparative Toxicogenomics Database](#))*
- *Information Extraction: gene / disease / chemicals, and their interactions*
- *Text: abstracts*

**2-RegulonDB:** <http://kukulcan.ccg.unam.mx/~ontogene/ODIN/bc2015-ccg/>

- *Constrained to a predefined set of articles*
- *Bioconcepts: genes, transcription factors, methods, conditions, effects, and other RegulonDB concepts*
- *Standards: [RegulonDB](#)*
- *Information Extraction: bionconcepts mentioned before,*
- *Text: full text*

**3-miRNA-gene:** <http://kukulcan.ccg.unam.mx/~ontogene/ODIN/bc2015-miRNA/>

- *Constrained to a predefined set of articles*
- *Bioconcepts: miRNA, gene, transcription factor, and sample characteristics in respiratory diseases.*
- *Standards: [mirTarBase](#), [Jaspar](#)*
- *Information Extraction: bionconcepts mentioned before*
- *Text: full text*

If prompted to add a user ID, please enter your email.

Take a few minutes to read the general information presented in "Document" panel about the tool.

Your first task is to open a document. Select a PMID from the sample list (note that in some cases it might take a while for the list to appear, keep the mouse pointing at the menu for a few seconds).

Were you able to open a document?

Comment (If No please comment on your experience)

**\* 2. Overall, how difficult or easy was to open a document in Ontogene?**

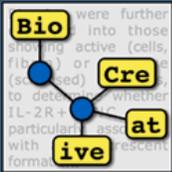
very difficult  difficult  neutral  easy  very easy

If difficult, please explain why

**\* 3. Overall, how confident are you that you completed the task successfully?**

not at all confident  not very confident  neutral  confident  extremely confident

if not confident, please explain why



## BioCreative V interactive task: Ontogene --- genes / diseases / chemicals

### TASK 2 - Goal: Find information

**IMPORTANT!** Don't use the browser back button but the [Prev](#) and [Next](#) buttons in the survey page.  
Open a new tab or window to navigate the system's website

- \* **1. Ontogene presents information in various panels: Document, annotation and inspector panels. Your task is to find information about what these panels are, and briefly describe them below**

- \* **2. Overall, how difficult or easy was finding the information for the panels?**

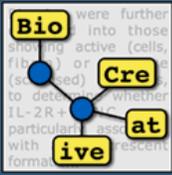
very difficult  difficult  neutral  easy  very easy

If difficult, please comment on your experience

- \* **3. Overall, how confident are you that you completed the task successfully?**

not at all confident  not very confident  neutral  confident  extremely confident

if not confident, please explain why



## BioCreative V interactive task: Ontogene --- genes / diseases / chemicals

### TASK 3 - Goal: Understand the "Concepts" panel

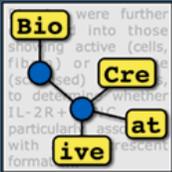
**IMPORTANT!** Don't use the browser back button but the [Prev](#) and [Next](#) buttons in the survey page.  
Open a new tab or window to navigate the system's website

- \* 1. Now that you know about the panels, in the document you opened in TASK1 or any document View the "Concepts" panel, try selecting some concept  
What happens when you select a concept?

- \* 2. Can you sort the table by "Concept"?

Comment (If No please comment your experience)

- 3. Under the "Concepts" panel, what do the numbers shown in the first column represent?



## BioCreative V interactive task: Ontogene --- genes / diseases / chemicals

### TASK 4 - Goal: Use sentence filters

**IMPORTANT!** Don't use the browser back button but the [Prev](#) and [Next](#) buttons in the survey page.  
Open a new tab or window to navigate the system's website

- \* 1. In the document you opened in TASK1 or any document (ideally with a rich set of annotations), view the "Concepts" panel, and select a small number of concepts from the "Concepts" panel.

Select "Focus" Were you able to do it?

Comment (If No please comment your experience)

- \* 2. What happens when you select "Focus"?

- \* 3. Deselect "Focus" to bring back the full document into view.  
Were you able to do it?

Comment (If No please comment your experience)

- \* 4. Use a sentence filter (View → "AND filters"): pick a concept type  
Were you able to do it?

What is the filter option doing?

**\* 5. Try to make the filtering more selective by adding a second concept type filter (you might end up with no sentences).**

**Were you able to do it?**

Comment (If No please comment your experience)

**\* 6. Remove filters (use “AND filters”).**

**Were you able to do it?**

Comment (If No please comment your experience)

**\* 7. Overall, how difficult or easy was this task?**

very difficult  difficult  neutral  easy  very easy

If difficult, please comment on your experience

**\* 8. Overall, how confident are you that you completed the task successfully?**

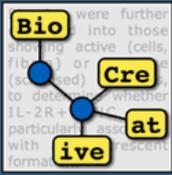
not at all confident  not very confident  neutral  confident  extremely confident

if not confident, please explain why

**\* 9. Do you find the filter/focus functionality helpful to locate specific information in the article?**

very unhelpful  unhelpful  adequate  helpful  very helpful  N/A

Comment (if needed)



## BioCreative V interactive task: Ontogene --- genes / diseases / chemicals

### TASK 5 - Goal: Review Ontogene output

**IMPORTANT!** Don't use the browser back button but the [Prev](#) and [Next](#) buttons in the survey page.  
Open a new tab or window to navigate the system's website

- \* **1. Open a document, and review the output from Ontogene. With the help of the Annotation and Document Inspector panels, validate some of the bioconcepts (miRNA, gene, disease, etc) by assigning a concept type ID (e.g. CTD ID for chemical) when possible. Were you able to do this?**

Comment (If No please comment your experience)

- \* **2. Now if you found any erroneous bioconcept, try to remove it. Were you able to do it?**

Comment (If No please comment your experience)

- 3. If you selected the gene-chemical-disease task, then open the "Interactions" table in the annotation panel.**

**Validate (as correct or incorrect) some of the interaction(s) suggested.**

**Were you able to do it?**

Comment (If No please comment your experience)

**\* 4. Overall, how difficult or easy was to validate the annotation in Ontogene?**

- very difficult  difficult  neutral  easy  very easy

If difficult, please explain

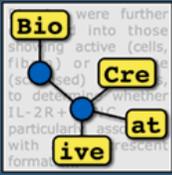
**\* 5. Overall, how confident are you that you completed the task successfully?**

- not at all confident  not very confident  neutral  confident  extremely confident

if not confident, please explain why

**\* 6. Overall, how satisfied are you with Ontogene annotation output?**

- Extremely satisfied
- Very satisfied
- Moderately satisfied
- Slightly satisfied
- Not at all satisfied



## BioCreative V interactive task: Ontogene --- genes / diseases / chemicals

### TASK 6 - Goal: Export annotation

**IMPORTANT!** Don't use the browser back button but the [Prev](#) and [Next](#) buttons in the survey page.  
Open a new tab or window to navigate the system's website

#### 1. Now, export the annotation you validated.

Were you able to do it?

Comment (If No please comment your experience)

#### \* 2. Overall, how difficult or easy was to export the annotation in Ontogene?

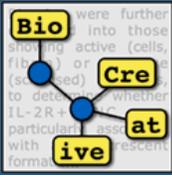
very difficult  difficult  neutral  easy  very easy

If difficult, please explain why

#### \* 3. Overall, how confident are you that you completed the task successfully?

not at all confident  not very confident  neutral  confident  extremely confident

if not confident, please explain why



## BioCreative V interactive task: Ontogene --- genes / diseases / chemicals

### General questions about Ontogene

Feel free to explore this system further before responding to these questions.

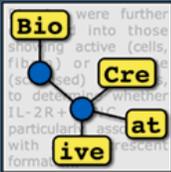
**\* 1. After reviewing Ontogene. Do you think Ontogene could help you in the annotation of bioconcepts?**

not at all  not much  neutral  a little  a lot

Please comment if needed

**\* 2. In what context do you envision using this tool?**

**3. Any suggestions for improvements?**



## BioCreative V interactive task: Ontogene --- genes / diseases / chemicals

Now to the final questions about your experience with the system

### \* 1. Straightforwardness of use

hard even after help  hard  neutral  easy after help  completely intuitive

Comment (if needed)

### \* 2. Documentation and help

very confusing  confusing  neutral  helpful  very helpful  N/A

Comment (if needed)

### \* 3. Error messages:

very unhelpful  unhelpful  adequate  helpful  very helpful  N/A

Comment (if needed)

### \* 4. Please rate your experience with the system

very negative  negative  neutral  positive  very positive

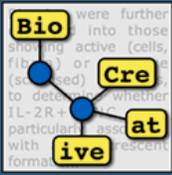
Comment (if needed)

**5. How likely is it that you would recommend Ontogene to a friend or colleague?**

Not at all likely

Extremely likely

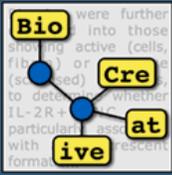
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## BioCreative V interactive task: Ontogene --- genes / diseases / chemicals

You are done!

Thank you for participating in the BioCreative Interactive Task!



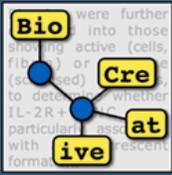
## Final Survey

### Welcome to Final Survey

The information in this survey will be kept anonymous but the data will be used for analysis of usability of the website and that analysis may be published. We may contact you if we have further questions. Your personal information will not be distributed to parties not involved in the evaluation. Please indicate if you agree to these terms by clicking OK:

**\* 1. Please choose:**

Disagree with the above terms  OK



## Final Survey

### Information about you

#### \* 2. General information

Your name:

Your email:

System you tested:

#### \* 3. How would you rate your experience level for the biocuration task proposed by the system?

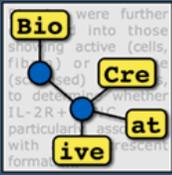
- novice to the task (less than one year)
- sufficient experience (1-3 years)
- expert (more than 3 years)

#### \* 4. Are you currently using any text mining tool in your work?

IF yes, please mention which one

#### \* 5. Would you like to be included as a co-author of the Conference Proceedings Overview piece?

If YES, please add your affiliation including institution, address and phone number.



## Final Survey

### Usability Questionnaire about the system evaluated

Please respond to the questions to the best extend.

**\* 6. I think that I would like to use this system frequently**

1 Strongly disagree

2

3

4

5 Strongly agree

Please comment if needed.

**\* 7. I found the system unnecessarily complex**

1 Strongly disagree

2

3

4

5 Strongly agree

Please comment if needed.

**\* 8. I thought the system was easy to use**

1 Strongly disagree

2

3

4

5 Strongly agree

Please comment if needed.

**\* 9. I think that I would need the support of the developer to be able to use this system.**

1 Strongly disagree

2

3

4

5 Strongly agree

Please comment if needed.

**\* 10. I found the various functions in this system were well integrated**

1 Strongly disagree

2

3

4

5 Strongly agree

Please comment if needed.

**\* 11. I thought there was too much inconsistency in this system**

1 Strongly disagree

2

3

4

5 Strongly agree

Please comment if needed.

**\* 12. I would imagine that most people would learn to use this system very quickly**

1 Strongly disagree

2

3

4

5 Strongly agree

Please comment if needed

**\* 13. I found the system very cumbersome to use**

1 Strongly disagree

2

3

4

5 Strongly agree

Please comment if needed

**\* 14. I felt very confident using the system**

1 Strongly disagree

2

3

4

5 Strongly agree

Please comment if needed

**\* 15. I needed to learn a lot of things before I could get going with this system**

1 Strongly disagree

2

3

4

5 Strongly agree

Please comment if needed

**16. The system has met my expectations**

1 Strongly disagree

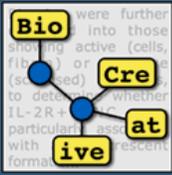
2

3

4

5 Strongly agree

Please comment if needed

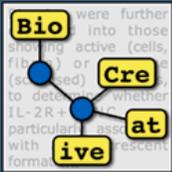


## Final Survey

Overall comparison to similar systems

**\* 17. Do you know any similar system?**

If Yes, please mention which one(s)



## Final Survey

### Overall comparison to similar systems

#### 18. System ease of use (compared to similar systems)

much harder  harder  about the same  easier  much easier

Comments?

#### 19. Satisfaction with use (compared to similar systems)

very frustrating  frustrating  neutral  satisfying  very satisfying

Comments?

#### 20. Power to help complete the task (compared to similar systems)

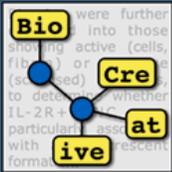
completely inadequate  less powerful  about the same  more powerful  sufficient

Comments?

#### 21. Flexibility in modes of use (compared to similar systems)

completely inflexible  less flexible  about the same  more flexible  highly flexible

Comments?



## Final Survey

System's ability to help complete tasks

**\* 22. Speed: the system decreases the time it takes to reach my curation goal:**

strongly disagree  disagree  neutral  agree  strongly agree  NA

Comments?

**\* 23. Effectiveness: the system helps me get closer to my curation goal:**

strongly disagree  disagree  neutral  agree  strongly agree  NA

Comments?

**\* 24. Efficiency: with this system I can be both fast and effective**

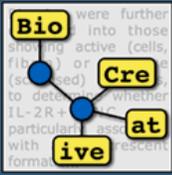
strongly disagree  disagree  neutral  agree  strongly agree  NA

Comments?

**\* 25. Overall, I find this system useful for my curation work**

strongly disagree  disagree  neutral  agree  strongly agree  NA

Comments?



## Final Survey

### Design of application

**\* 26. Ease of reading text?**

very hard  hard  neutral  easy  very easy  NA

Comments?

**\* 27. Use of highlighting:**

unhelpful and distracting  unhelpful  not distracting  helpful sometimes  very helpful  NA

Comments?

**\* 28. Organization of information:**

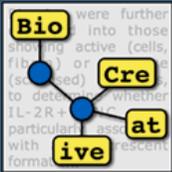
very confusing  confusing  intuitive  helpful  very helpful  NA

Comments?

**\* 29. Sequence of screens:**

very confusing  confusing  intuitive  helpful  very helpful  NA

Comments?



## Final Survey

### Usability

**\* 30. Speed:**

very slow  slow  acceptable  fast  very fast  NA

Comments?

**\* 31. Reliability:**

very unreliable  unreliable  adequate  reliable  completely reliable  NA

Comments?

**\* 32. Consistency:**

very inconsistent  some inconsistencies  adequate  mostly consistent  completely consistent  NA

Comments?

**\* 33. Ease of correcting mistakes:**

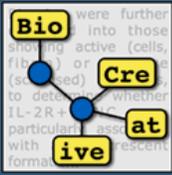
very hard  hard  neutral  easy  very easy  NA

Comments?

**\* 34. Error messages:**

very unhelpful  unhelpful  adequate  helpful  very helpful  NA

Comments?



## Final Survey

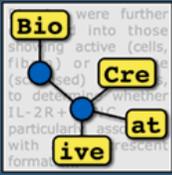
### Questions about BioCreative IAT

\* 35. I find participation in the interactive task a positive experience

1 Strongly disagree  2  3  4  5 Strongly agree

Please comment if needed.

36. Suggestions for improvements of IAT?



## Final Survey

Thank you! We hope you will be able to participate in the future.