

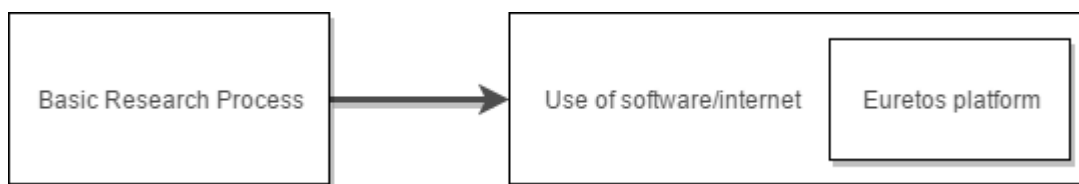
## Appendix A: Interview guides

### Euretos – pharmaceutical research

#### Interview guide Bioinformaticians v1

Hi! My name is Ashwin van Dolder and I am master student Strategic Product Design (SPD) at the University of Technology Delft. Currently I am graduating at Euretos on the development of software aided literature research/discovery platforms. My goal is to improve the usability of the Euretos platform by observing/researching the current method of performing research in the field of pharmacology. By analysing the current working methods and how the Euretos platform is used, I will be able to detect service obstacles and determine the performance factors for a smooth experience.

**RQ: How does the pharmaceutical research process look like and what is the influence of internet (applications) and search engines on this process?**



Subtopics:

- The basic research process
- The use of computers, internet and search engines
- Euretos knowledge platform

#### Start

- Personal introduction
- Estimated 45 minutes
- (Ask permission to record)
- Explain the goal of the interview
- No answers are wrong, feel free to speak freely
- Assure privacy, the information will be kept anonymous

#### Subtopic 1: The basic research process

**Opening question: Can you tell me what the starting point is of a research?**

- How is this starting point determined?
- What do you contribute to the research?
- What is your personal goal of performing research?
- What is the final goal of performing research?
- What are the different phases of performing research?
- What are the most important milestones/key moments during the research process?
- How do you use existing research literature during the research process?
- How long does the average research process take?
- Are there any important influencing factors?
- Do you have any influence on the time it takes?
- What (if any) are the main causes of delays?
- Can you tell me if performing research is a collaborative effort or more of an individual effort?
- How does this affect doing research?
- In general, if you could change something, what would you like to see different?

**Probes:**

- Why? Why do you think that?
- Can you give me an example?
- Why does that stand out in your memory?
- Subtopic 2: The use of computers, internet and search engines
- What role does the use of computers, internet and search engines have on performing research?
- What are your personal experiences with using computers, internet and search engines for performing research?
- What did you use and why?
- Do you have any positive experiences with using computers and internet for performing research? Can you elaborate on that?
- Do you have any negative experiences with using computers and internet for performing research? Can you elaborate on that?
- How do you see the role of these technologies in the future?
- How would you like to see these technologies applied in the future?
- Are there any other technological trends/developments which could have beneficial effect on performing pharmaceutical research?

**Probes:**

- Why? Why do you think that?
- Can you give me an example?
- Why does that stand out in your memory?

**Subtopic 3: Euretos the knowledge platform**

- Euretos is developing software to support performing pharmaceutical research and you have been working with the knowledge platform for a while now. What were you expecting before you started using the platform?
- What were your first impressions?
- What functions did you use?
- Are there any functions you are missing?
- What do you think of the interface?
- When would you use the platform while performing research?
- Will you use the platform more often?
- Do you think that will be used more in the future?
- Are you willing to see new developments of the platform in the future and provide feedback?

**Probes:**

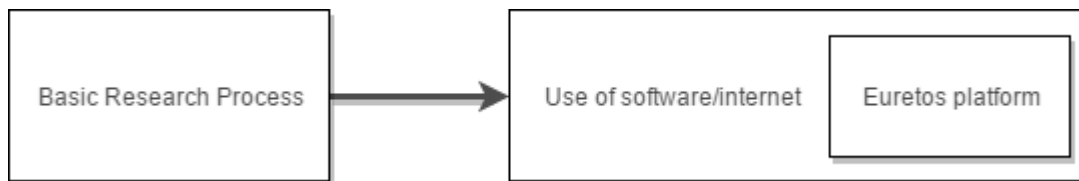
- Why? Why do you think that?
- Can you give me an example?
- Why does that stand out in your memory?

## Euretos – pharmaceutical research

### Interview guide Bioinformaticians v2

Hi! My name is Ashwin van Dolder and I am master student Strategic Product Design (SPD) at the University of Technology Delft. Currently I am graduating at Euretos on the development of software aided literature research/discovery platforms. My goal is to improve the usability of the Euretos platform by observing/researching the current method of performing research in the field of pharmacology. By analysing the current working methods and how the Euretos platform is used, I will be able to detect service obstacles and determine the performance factors for a smooth experience.

**RQ: How does the pharmaceutical research process look like and what is the influence of internet (applications) and search engines on this process?**



Subtopics:

- The basic research process
- The use of computers, internet and search engines
- Euretos knowledge platform

#### Start

- Personal introduction
- Estimated 45 minutes
- (Ask permission to record)
- Explain the goal of the interview
- No answers are wrong, feel free to speak freely
- Assure privacy, the information will be kept anonymous

#### Subtopic 1: The basic research process

- **Opening question: Can you tell me what the starting point is of a research?**
- How is this starting point determined?
- What do you contribute to the research?
- What is your personal goal of performing research?
- What is the final goal of performing research?
- What are the different phases of performing research?
- What are the most important milestones/key moments during the research process?
- How do you use existing research literature during the research process?
- How long does the average research process take?
- Are there any important influencing factors?
- Do you have any influence on the time it takes?
- What (if any) are the main causes of delays?
- Can you tell me if performing research is a collaborative effort or more of an individual effort?
- How does this affect doing research?
- In general, if you could change something, what would you like to see different?

#### Probes:

- Why? Why do you think that?
- Can you give me an example?
- Why does that stand out in your memory?

## **Subtopic 2: The use of computers, internet and search engines**

- What role does the use of computers, internet and search engines have on performing research?
- What are your personal experiences with using computers, internet and search engines for performing research?
- What did you use and why?
- Do you have any positive experiences with using computers and internet for performing research? Can you elaborate on that?
- Do you have any negative experiences with using computers and internet for performing research? Can you elaborate on that?
- How do you see the role of these technologies in the future?
- How would you like to see these technologies applied in the future?
- Are there any other technological trends/developments which could have beneficial effect on performing pharmaceutical research?

### **Probes:**

- Why? Why do you think that?
- Can you give me an example?
- Why does that stand out in your memory?

## **Subtopic 3: Euretos the knowledge platform**

- Euretos is developing software to support performing pharmaceutical research and you have been working with the knowledge platform for a while now. What were you expecting before you started using the platform?
- What were your first impressions?
- What was the main reason to use the platform?
- What functions did you use?
- What are the steps you take when using the platform?
- Are there any functions you are missing?
- What do you think of the interface?
- When would you use the platform while performing research?
- Will you use the platform more often?
- Would you recommend the platform to your colleagues?
- Do you think that will be used more in the future?
- Are you willing to see new developments of the platform in the future and provide feedback?

### **Probes:**

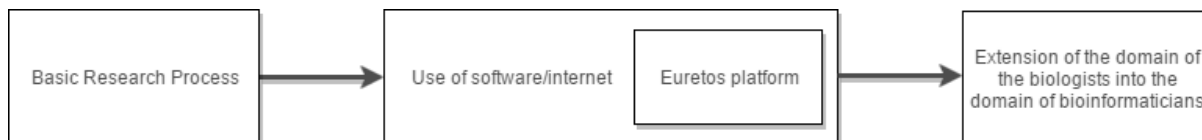
- Why? Why do you think that?
- Can you give me an example?
- Why does that stand out in your memory?

## LUMC – biological research for drug development

### Interview guide

Hi! My name is Ashwin van Dolder and I am master student Strategic Product Design (SPD) at the University of Technology Delft. Currently I am graduating at Euretos on the development of software aided literature research/discovery platforms. My goal is to improve the usability of the Euretos platform by observing/researching the current method of performing research in the field of pharmacology. By analysing the current working methods and how the Euretos platform is used, I aim to identify obstacles to the services offered by the Euretos platform and determine the performance factors for a smooth experience.

**RQ: How does the biological research process for disease discovery and drug development look like and what is the influence of internet (applications) and search engines on this process?**



### Subtopics:

- The basic research process (general process, teamwork)
- The use of computers, internet and search engines
- Euretos knowledge platform
- Extension of the domain of the biologist into the domain of the bioinformaticians

### Start

- Personal introduction
- Estimated 60 - 70 minutes
- (Ask permission to record)
- Explain the goal of the interview
- No answers are wrong, feel free to speak freely
- Assure privacy, the information will be kept anonymous

### Subtopic 1: The basic research process

- **Opening question: Can you tell me what the general starting point is of a research?**
- How is this starting point determined?
- What is your personal contribution to a successful research?
- What is your personal goal in performing research?
- What are the different phases that you pass through during a research process?
- What are different steps that you take?
- What is the outcome of each step?
- What are the most important milestones/key moments during the research process?
- How do you use existing research literature during the research process?
- How long does the average research process take?
- Are there any important influencing factors?
- Do you have any influence on the time it takes?
- What (if any) are the main causes of delays?
- Can you tell me if performing research is a collaborative effort or more of an individual effort?
- How does this affect your work?
- Do you consider bioinformaticians part of the research group? Why?
- In general, if you could change something, what would you like to see different?

### Probes:

- Why? Why do you think that?

- Can you give me an example?
- Why does that stand out in your memory?

### **Subtopic 2: The use of computers, internet and search engines**

- What influence does the use of computers, internet and search engines have on performing research?
- What are your personal experiences with using computers, internet and search engines for performing research?
- What did you use and why?
- Do you have any positive experiences with using computers and internet for performing research?
- Can you describe a situation in which you encountered problems?
- What (might have) helped you in this situation?
- Do you have any negative experiences with using computers and internet for performing research?
- Can you describe a situation in which you encountered problems?
- What (might have) helped you in this situation?
- How do you see the role of these technologies in the future?
- How would you like to see these technologies applied in the future?
- How does these technologies affect the collaboration with other departments, like the bioinformaticians?
- Any suggestions on how software could have a positive effect on the collaboration?
- Are there any other technological trends/developments which could have beneficial effect on performing biological research?

#### **Probes:**

- Why? Why do you think that?
- Can you give me an example?
- Why does that stand out in your memory?

### **Subtopic 3: Euretos the knowledge platform**

- Euretos is developing software to support performing pharmaceutical research aimed a primarily bioinformaticians, but from my understanding you have also used it for a short period of time. What were you expecting before you started using the platform?
- What were your first impressions?
- What was the main reason to use the platform?
- Which functions did you use?
- What are the steps you take when using the platform?
- Are there any functions you are missing?
- What do you think of the interface?
- When would you use the platform while performing research?
- Will you use the platform more often?
- Would you recommend the platform to your colleagues?
- Do you think that will be used more in the future?
- Are you willing to see new developments of the platform in the future and provide feedback?

#### **Probes:**

- Why? Why do you think that?
- Can you give me an example?
- Why does that stand out in your memory?

### **Subtopic 4: Extension of the domain of the biologist into the domain of the bioinformaticians**

- What do you like about being a biologist?
- What do you dislike about being a biologist?
- From your point of view, what does a bioinformatician do?
- I spoke to some bioinformaticians and they think biologists are becoming like bioinformaticians because of user friendly software applications. What is your view on this matter?

- Are there any tasks which think you could or would like to perform instead of a bioinformatician?
- Which tasks do you consider to be too difficult to be performed by a biologist instead of a bioinformatician?
- What would be the effect on the research process if biologists would take over tasks which are now performed by bioinformaticians?
- How would this affect the collaboration with bioinformaticians?
- In an ideal world, how would like to see your profession and the collaboration with bioinformaticians?

**Probes:**

- Why? Why do you think that?
- Can you give me an example?
- Why does that stand out in your memory?

## GUI Designer - Expert interview

### Introduction

Hi! My name is Ashwin van Dolder and I am master student Strategic Product Design (SPD) at the University of Technology Delft. Currently I am graduating at Euretos on the development of software aided literature research/discovery platforms. My goal is to improve the usability of the Euretos platform by observing/researching the current method of performing research in the field of pharmacology. By analysing the current working methods and how the Euretos platform is used, I aim to identify obstacles to the services offered by the Euretos platform and determine the performance factors for a smooth experience. An important part is the GUI design of the platform as it directly influences the usability of the platform and therefore the overall experience with the platform. As the platform has complex analysis tools, an intuitive user experience can lower the learn curve for using the platform.

RQ: What makes a graphical user interface intuitive and why/how to design it?

### Subtopics:

- The basic design process (start, develop, validation, delivery)
- Improving usability, why intuitive?
- Design methods/guidelines
- Validation

### Start

- Personal introduction
- Estimated 60 - 70 minutes
- (Ask permission to record)
- Explain the goal of the interview
- No answers are wrong, feel free to speak freely
- Assure privacy, the information will be kept anonymous
- 

### Subtopic 1: Basic design process

Opening question: Can you tell me what a UX lead designer does?

- What are the most important phases of a UX design project?
- How are the minimal requirements (Programma Van Eisen) determined? Are there any?
- In an ideal scenario, what role do end-users play in the development process?
- How to explain user interaction with an interface to software developer / other team members?
- What if they are not convinced of the design/changes?
- If software engineers are working from a different country, which makes it more difficult to communicate in person, how would this affect the design process?
- How would you handle this situation?

### Probes:

- Why? Why do you think that?
- Can you give me an example?
- Why does that stand out in your memory?

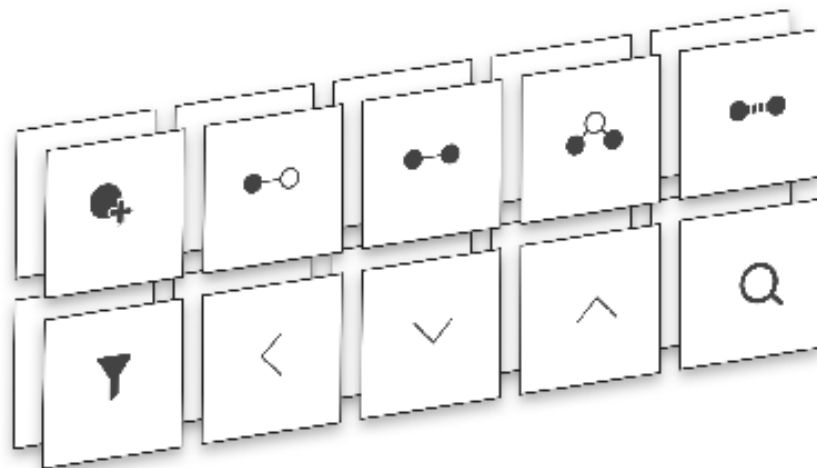
### Subtopic 2: Improving usability (intuitive)

- When can a (G)UI be considered intuitive?
- Why?
- Can you give me an example?
- How to design for intuitive use?
- What are the most important aspects for intuitive use?
- Is intuitive use, the holy grail for (G)UI?
- Are there other ways to improve the usability?
- How to balance between experienced professional users and novices?
- What are the most common mistakes for designing intuitive graphical user interfaces
- What is the worst GUI you ever used? Why?
- What do you consider as the best GUI you ever used/designed?

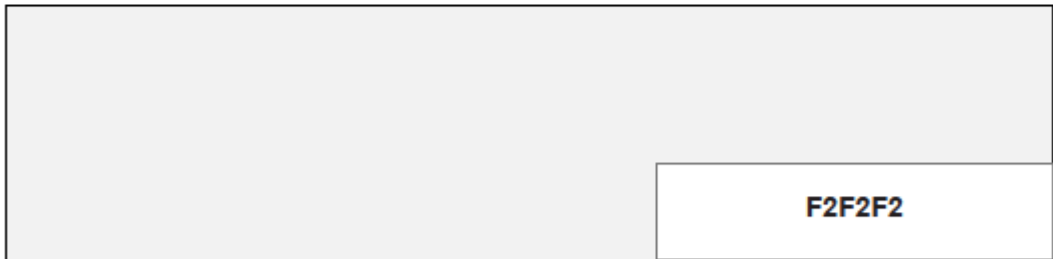
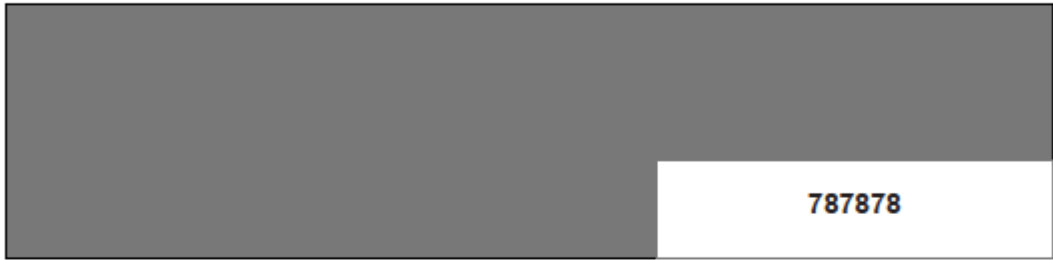
### Probes:

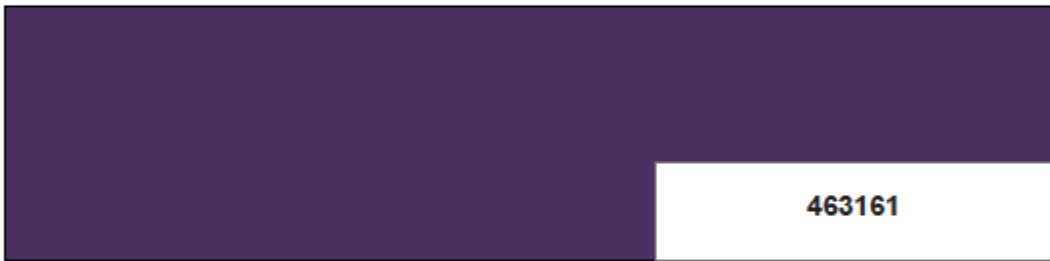
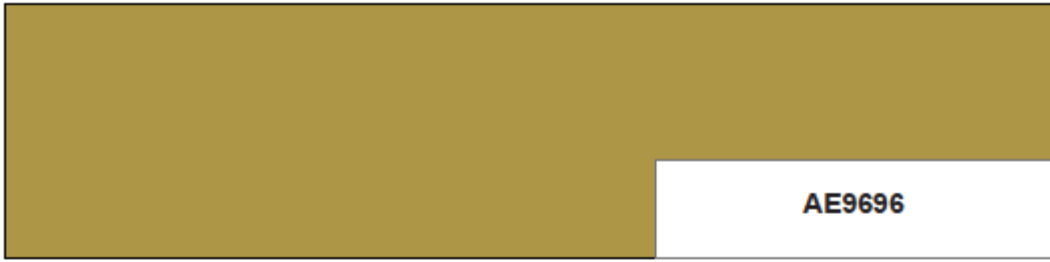
- Why? Why do you think that?
- Can you give me an example?
- Why does that stand out in your memory?











# Typography

# ARIAL

**Title**  
24pt Bold

Header 1  
14pt Regular

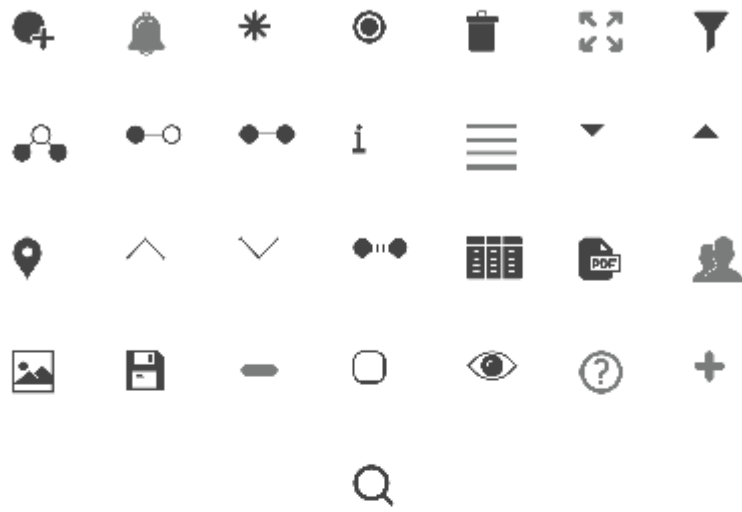
Header 2  
12pt Regular

Text  
12pt Regular

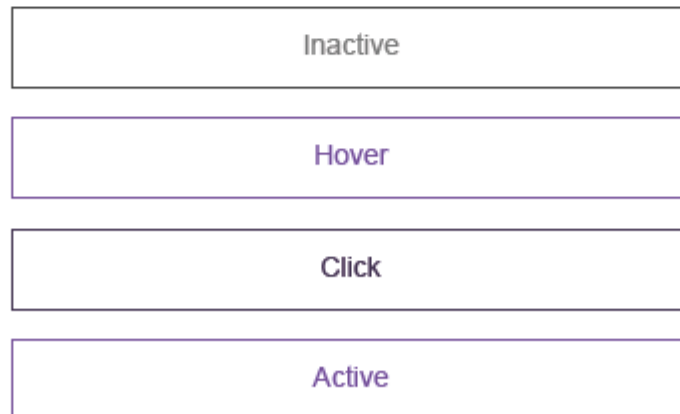
Link 1  
14pt Bold Underlined

Function  
12pt Bold Underlined

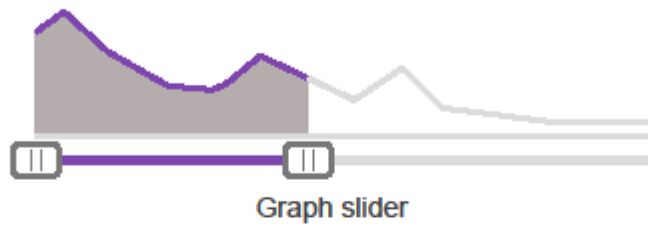
# Icons



# Buttons



# Other elements



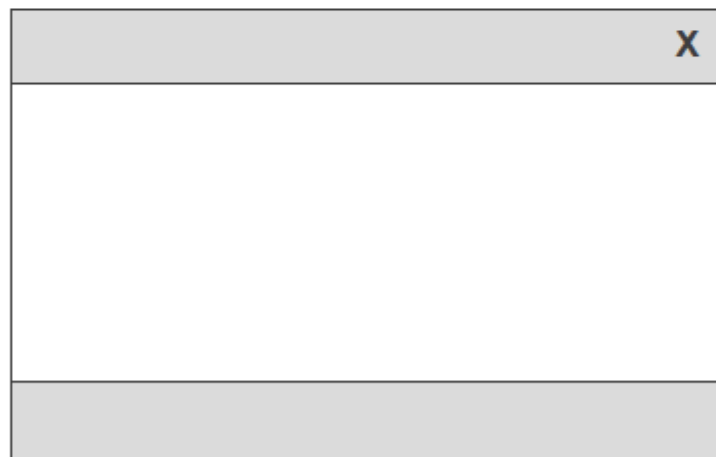
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## Tables



Content box

# Navigation

Good navigation answers the following questions:

**Where** am I now?

**Where** else can I go?

**What** will I find when I get there?



Lay

Top nav

Filter /  
manipulation  
section

Layout

Navigation bar

Content section

## Appendix C: Relation map mock-ups

EURETOS
reSearch   Set analytics   Sets   Relation map
?

**Title X** Share

Tag1 Cancer +Add tag

Filter

Add concept / Sets

Find related concept

Find relation

Find intermediate concept

Add custom relation

Write annotation for selection

Annotation manager

family history of cancer   kidney   cancer   genes   BRCA1 (homo sapiens)   Srka1

disrupts

5   6   9   10   15   16

Selection

Concepts 1/6

Relations 0/8

Cancer

Show selection details

All changes saved

---

EURETOS
reSearch   Set analytics   Sets   Relation map
?

**Title X** Share

Tag1 Cancer +Add tag

Filter

Add concept / Sets

Find related concept

Find relation

Find intermediate concept

Add custom relation

Write annotation for selection

Annotation manager

Start creating a relation map by adding concepts or sets with the left control panel

Selection

Concepts 0/0

Relations 0/0

All changes saved

EURETOS reSearch Set analytics Sets Relation map

Title X [Share](#)

Tag1 Cancer +Add tag

Filter

Locate keywords on map

Categories

- Activities & Behaviours (4)
- Anatomy (3)
- Tissue (2)
- Cells (1)
- Phenomena (2)
- Physiology (1)

Relation type

- Causes (5)
- Affects (5)
- Contains (3)
- Publication date
- Impact factor
- Publications per relation

Annotation manager

Selection

- Concepts 1/6
- Relations 0/8
- Cancer

Show selection details

Srka1

All changes saved

EURETOS reSearch Set analytics Sets Relation map

Title X [Share](#)

Tag1 Cancer +Add tag

Filter

Add concept / Sets

Import a set

Search for a concept

- Concept 1
- Concept 2
- Concept 3
- Concept 4
- Concept 5
- Concept X
- Concept X
- Concept X
- Concept X
- Concept X
- Concept X

- Find related concept
- Find relation
- Find intermediate concept
- Write annotation for selection

Annotation manager

Selection

- Concepts 1/6
- Relations 0/8
- Cancer

Show selection details

Srka1

All changes saved

**Title X** Share

Tag1 **Cancer** +Add tag

- Filter
- Add concept / Sets
- Find related concept
- Find relation
- Find intermediate concept
- Add custom relation
- Write annotation for selection

\* Annotation manager

Find related concepts for: **Cancer**

Category filter	Count	Relation type filter	Count
Activities & Behaviours	(20)	Is location of	(18)
Anatomy	(16)	Is not location of	(16)
Disorders	(15)	Is part of	(12)
Activities & Behaviours	(14)	Is not part of	(10)
Anatomy	(10)	Affects	(8)
Disorders	(8)	Does not affect	(6)

Related concept	Search for a concept	Relations	Publications
<input type="checkbox"/> Liver		5	25
<input type="checkbox"/> Neoplasm		25	24
<input type="checkbox"/> LARP6		14	22
<input type="checkbox"/> SCTR		3	22
<input type="checkbox"/> MIR21		14	20
<input type="checkbox"/> DFGH		65	19
<input type="checkbox"/> ARFGD		44	15
<input type="checkbox"/> CHP		8	12
<input type="checkbox"/> Probes		2	12
<input type="checkbox"/> Inactivation		5	10
<input type="checkbox"/> Stressor		8	8
<input type="checkbox"/> Malaria pathway		12	7

Add selected concepts

**Title X** Share

Tag1 **Cancer** +Add tag

- Filter
- Add concept / Sets
- Find related concept
- Find relation
- Find intermediate concept
- Add custom relation
- Write annotation for selection

\* Annotation manager

Find related concepts for: **Cancer**

Category filter	Count	Relation type filter	Count
Activities & Behaviours	(20)	Is location of	(18)
Anatomy	(16)	Is not location of	(16)
Disorders	(15)	Is part of	(12)
Activities & Behaviours	(14)	Is not part of	(10)
Anatomy	(10)	Affects	(8)
Disorders	(8)	Does not affect	(6)

Related concept	Search for a concept	Relations	Publications
<input type="checkbox"/> Liver		5	25
<input type="checkbox"/> Neoplasm		25	24
<input type="checkbox"/> LARP6		14	22
<input type="checkbox"/> SCTR		3	22
<input checked="" type="checkbox"/> SCTR affects Cancer		1	12
<input checked="" type="checkbox"/> SCTR causes Cancer		1	8
<input checked="" type="checkbox"/> Cancer is manifestation of SCTR		1	2
<input type="checkbox"/> MIR21		14	20
<input type="checkbox"/> DFGH		65	19
<input type="checkbox"/> ARFGD		44	15
<input type="checkbox"/> CHP		8	12
<input type="checkbox"/> Probes		2	12

Add selected concepts

**Title X** [Share](#)

Tag1 **Cancer** +Add tag

- Filter
- Add concept / Sets
- Find related concept
- Find relation
- Find intermediate concept
- Add custom relation
- Write annotation for selection

Find relations for: **Concept A, Concept B, Concept C, Concept D, Concept E**

Evidence filters: Publication date, Impact factor, Publications per relation

Relation type filter: Is location of, Is not location of, Is part of, Is not part of, Affects, Does not affect

0 1 4 5 10

Concept relations	Relations	Publications
<input type="checkbox"/> Concept A - Concept B	65	84
<input type="checkbox"/> Concept A - Concept C	25	31
<input type="checkbox"/> Concept B - Concept C	14	22
<input type="checkbox"/> Concept B - Concept D	3	22
<input checked="" type="checkbox"/> SCTR affects Cancer	1	12
<input checked="" type="checkbox"/> SCTR causes Cancer	1	8
<input checked="" type="checkbox"/> Cancer is manifestation of SCTR	1	2
<input type="checkbox"/> Concept B - Concept E	14	20
<input type="checkbox"/> Concept C - Concept D	4	5

Previous 1 2 3 4 5 6 Next

Show 20 per page

Add selected relations

\* Annotation manager

**Title X** [Share](#)

Tag1 **Cancer** +Add tag

- Filter
- Add concept / Sets
- Find related concept
- Find relation
- Find intermediate concept
- Add custom relation
- Write annotation for selection

Find related intermediate concepts for: **Cancer and SRKA1**

Evidence filters: Publication date, Impact factor, Publications per relation

Relation type filter: Is location of, Is not location of, Is part of, Is not part of, Affects, Does not affect

0 1 4 5 10

Related concept	Co-occurring publications Cancer	Co-occurring publications SRKA1	Total Publications
<input type="checkbox"/> Liver	5	5	10
<input type="checkbox"/> Neoplasm	25	25	50
<input type="checkbox"/> LARP6	14	14	28
<input type="checkbox"/> SCTR	3	3	6
<input type="checkbox"/> MIR21	14	14	28
<input type="checkbox"/> DFGH	65	65	130
<input type="checkbox"/> ARFGD	44	44	88
<input type="checkbox"/> CHP	8	8	16
<input type="checkbox"/> Probes	2	2	4
<input type="checkbox"/> Inactivation	5	5	10
<input type="checkbox"/> Stressor	4	8	8

Add selected concepts

\* Annotation manager

Title X

Share

Tag1 Cancer +Add tag

- Filter
- Add concept / Sets
- Find related concept
- Find relation
- Find intermediate concept
- Add custom relation
- Write annotation for selection

Find related intermediate concepts for: **Cancer** and **SRKA1**

Evidence filters

- Publication date
- Impact factor
- Publications per relation

Relation type filter

- Is location of (18)
- Is not location of (16)
- Is part of (12)
- Is not part of (10)
- Affects (8)
- Does not affect (6)

Related concept

	Co-occurring publications Cancer	Co-occurring publications SRKA1	Total Publications
<input type="checkbox"/> Neoplasm	5	5	2
<input type="checkbox"/> LARP6	25	25	2
<input type="checkbox"/> SCTR	14	14	4
<input checked="" type="checkbox"/> SCTR affects Cancer			3
<input checked="" type="checkbox"/> SCTR causes Cancer			2
<input checked="" type="checkbox"/> Cancer is manifestation of SCTR			1
<input checked="" type="checkbox"/> SCTR affects SRKA1			1
<input checked="" type="checkbox"/> SCTR causes SRKA1			1
<input checked="" type="checkbox"/> SRKA1 is manifestation of SCTR			1
<input type="checkbox"/> CHP	5	5	15
<input type="checkbox"/> Probes	4	8	12

Add selected concepts

\* Annotation manager

Title X

Share

Tag1 Cancer +Add tag

- Filter
- Add concept / Sets
- Find related concept
- Find relation
- Find intermediate concept
- Add custom relation
- Write annotation for selection

Add custom relation to: **Cancer** and **SRKA1**

Cancer  SRKA1 [Reverse direction](#)

+ add another relation

Create custom relation

\* Annotation manager

**Title X** [Share](#)

Tag1 Cancer +Add tag

Filter

Add concept / Sets

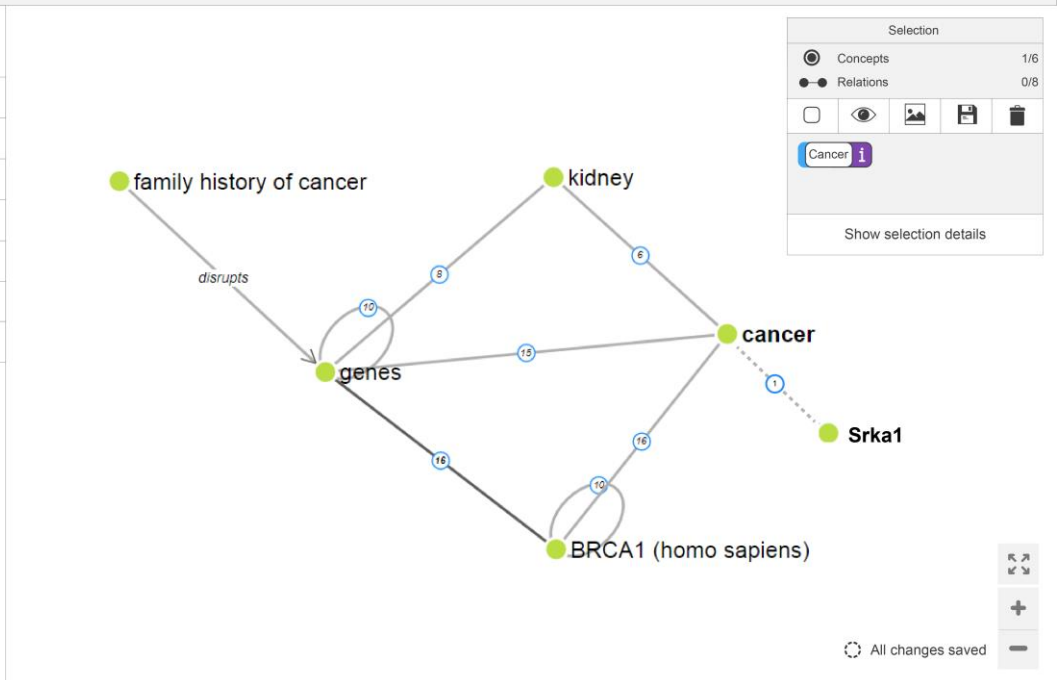
Find related concept

Find relation

Find intermediate concept

Add custom relation

Write annotation for selection



\* Annotation manager

**Title X** [Share](#)

Tag1 Cancer +Add tag

Write your abstract here...

Search results	Publications
<Concept 1>, <Concept 2>, <Concept 3>, <Concept 4>	15
<Concept 1>, <Concept 2>, <Concept 3>	12
<Concept 1>, <Concept 2>	11
<Concept 1>, <Concept 4>	10
<Concept 2>, <Concept 3>, <Concept 4>	7
<Concept 2>, <Concept 3>, <Concept 4>	7
<Concept 3>, <Concept 4>	3

Publication results (23) for: <concept 1>, <concept 2>, <concept 3>

Title 1 <Date> <Author> <Source>	<input type="checkbox"/> + Add to references
Title 2 <Date> <Author> <Source>	<input type="checkbox"/> + Add to references
Title 3 <Date> <Author> <Source>	<input type="checkbox"/> + Add to references
Title 4 <Date> <Author> <Source>	<input type="checkbox"/> + Add to references

<abstract> Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed sollicitudin massa et lectus sollicitudin, non placerat ex lobortis. Vestibulum enim felis, ultrices feugiat efficitur vel, vulputate accumsan nisi. Nunc eu felis in libero consectetur commodo id sit amet nulla. Fusce nec pellentesque neque. Suspendisse at nibh in quam convallis porta. Mauris tempor justo at urna hendrerit aliquet. Sed condimentum, neque sed ullamcorper tempor, enim orci lobortis velit, non laoreet nibh diam id leo. Cras dolor orci, lobortis nec vehicula dapibus, bibendum et sapien. Praesent venenatis molestie odio, in luctus metus mattis id. Nulla orci neque, accumsan tempus justo nec, rhoncus ornare sem. </abstract>

**Selection details**

- Concepts: 5/20
- Relations: 27/56

Write annotation for selection

Export all annotations to PDF

\* Annotation manager

Annotation for: <concept 1>, <concept 2>, <concept 3> Assigned to link: Concept 1 & Please select

Add annotation title... 10-06-2017

Write your annotation...

References:



Title X

Share

Tag1 Cancer +Add tag

Write your abstract here...

Selection details

- Concepts 5/20
- Relations 27/56

Write annotation for selection <

Export all annotations to PDF

\* Annotation manager >

Search results

Publications

<Concept 1>, <Concept 2>, <Concept 3>, <Concept 4>	15
<Concept 1>, <Concept 2>, <Concept 3>	12
<Concept 1>, <Concept 2>	11
<Concept 1>, <Concept 4>	10
<Concept 2>, <Concept 3>, <Concept 4>	7
<Concept 2>, <Concept 3>, <Concept 4>	7
<Concept 3>, <Concept 4>	3

Publication results (23) for: <concept 1>, <concept 2>, <concept 3>

Title 1 <Date> <Author> <Source>	>	+ Add to references
Title 2 <Date> <Author> <Source>	>	+ Add to references
Title 3 <Date> <Author> <Source>	>	+ Add to references
Title 4 <Date> <Author> <Source>	>	+ Add to references

<abstract> Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed sollicitudin massa et lectus sollicitudin, non placerat ex lobortis. Vestibulum enim felis, ultrices feugiat efficitur vel, vulputate accumsan nisi. Nunc eu felis in libero consectetur commodo id sit amet nulla. Fusce nec pellentesque neque. Suspendisse at nibh in quam convallis porta. Mauris tempor justo at urna hendrerit aliquet. Sed condimentum, neque sed ullamcorper tempor, enim orci lobortis velit, non laoreet nibh diam id leo. Cras dolor orci, lobortis nec vehicula dapibus, bibendum et sapien. Praesent venenatis molestie odio, in luctus metus mattis id. Nulla orci neque, accumsan tempus justo nec, rhoncus ornare sem. </abstract>

Annotation for: <concept 1>, <concept 2>, <concept 3>

Assigned to link : Concept 1 & Please select ^

Add annotation title...

Write your annotation...

- Concept 1
- Concept 2
- Concept 3

References:

Title X

Share

Tag1 Cancer +Add tag

Write your abstract here...

Selection details

- Concepts 5/20
- Relations 27/56

Write annotation for selection <

Export all annotations to PDF

\* Annotation manager <

Annotation

Concepts

Last opened

X

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References: <Reference 1>					
<input checked="" type="checkbox"/> <Annotation title 2>	<Concept 1>, <Concept 2>, <Concept 3>	10-06-2017			
<input type="checkbox"/> <Annotation title 3>	<Concept 1>, <Concept 2>	8-06-2017			
<input type="checkbox"/> <Annotation title 4>	<Concept 1>, <Concept 4>	5-06-2017			
<input type="checkbox"/> <Annotation title 5>	<Concept 2>, <Concept 3>, <Concept 4>	31-05-2017			
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<input type="checkbox"/> <Annotation title 7>	<Concept 3>, <Concept 4>	31-05-2017			

Export selected annotations to PDF

EURETOS reSearch Set analytics Sets Relation map ? 🔔 👤

**Title X** Share

Tag1 Cancer +Add tag

- Filter ▼
- Add concept / Sets ▼
- Find related concept ▼
- Find relation ▼
- Find intermediate concept ▼
- Add custom relation ▼
- Write annotation for selection ▼

\* Annotation manager <

Annotation	Concepts	Last opened	X
<p>No annotations have been written yet</p> <p>please make a selection of up to 5 concepts in the relation model and activate the annotation writing panel in the left bottom</p>			

Export selected annotations to PDF

EURETOS reSearch Set analytics Sets Relation map ? 🔔 👤

**Title X** Share

Tag1 Cancer +Add tag

- Filter ▼
- Add concept / Sets ▼
- Find related concept ▼
- Find relation ▼
- Find intermediate concept ▼
- Add custom relation ▼
- Write annotation for selection ▼

\* Annotation manager <

Annotation	Concepts	Last opened		X
<input checked="" type="checkbox"/> <Annotation title 1>	<Concept 1>, <Concept 2>, <Concept 3>, <Concept 4>	10-06-2017	✎ 🗑	^
<Annotation> Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nulla ullamcorper varius libero ut placerat. Phasellus pharetra nisi risus, et pulvinar justo mattis vitae. Curabitur pellentesque ante eget nisi lobortis facilisis. Nam quis nisi massa. Mauris consequat mauris pulvinar dolor euismod, vitae tempor purus inibus. Aenean posuere cursus sapien. Vivamus et enim viverra, consequat nisi a blandit arcu. Pellentesque dapibus, neque sit amet efficitur vulputate, urna massa malesuada mi, in pellentesque erat nisi non risus. Proin sed cursus lacus. Duis id sapien aliquet, luctus eros in, luctus odio. Vivamus suscipit lacus eget lacinia placerat. </Annotation>				
References: <Reference 1>				
<input checked="" type="checkbox"/> <Annotation title 2>	<Concept 1>, <Concept 2>, <Concept 3>	10-06-2017	✎ 🗑	▼
<input type="checkbox"/> <Annotation title 3>	<Concept 1>, <Concept 2>	8-06-2017	✎ 🗑	▼
<input type="checkbox"/> <Annotation title 4>	<Concept 1>, <Concept 4>	5-06-2017	✎ 🗑	▼
<input type="checkbox"/> <Annotation title 5>	<Concept 2>, <Concept 3>, <Concept 4>	31-05-2017	✎ 🗑	▼
<input type="checkbox"/> <Annotation title 6>	<Concept 2>, <Concept 3>, <Concept 4>	31-05-2017	✎ 🗑	▼
<input type="checkbox"/> <Annotation title 7>	<Concept 3>, <Concept 4>	31-05-2017	✎ 🗑	▼

Export selected annotations to PDF



Title X

Share

Tag1 Cancer +Add tag

Write your abstract here...

Selection details

- Concepts 5/20
- Relations 27/56

Write annotation for selection

Export all annotations to PDF

Annotation manager

Search results

Publications

<Concept 1>, <Concept 2>, <Concept 3>, <Concept 4>	15
<Concept 1>, <Concept 2>, <Concept 3>	12
<Concept 1>, <Concept 2>	11
<Concept 1>, <Concept 4>	10
<Concept 2>, <Concept 3>, <Concept 4>	7
<Concept 2>, <Concept 3>, <Concept 4>	7
<Concept 3>, <Concept 4>	3

Publication results (23) for: <concept 1>, <concept 2>, <concept 3>

Title 1 <Date> <Author> <Source>	▼	+ Add to references
Title 2 <Date> <Author> <Source>	▼	+ Add to references
Title 3 <Date> <Author> <Source>	▼	+ Add to references
Title 4 <Date> <Author> <Source>	▲	+ Add to references

<abstract> Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed sollicitudin massa et lectus sollicitudin, non placerat ex lobortis. Vestibulum enim felis, ultrices feugiat efficitur vel, vulputate accumsan nisi. Nunc eu felis in libero consectetur commodo id sit amet nulla. Fusce nec pellentesque neque. Suspendisse at nibh in quam convallis porta. Mauris tempor justo at urna hendrerit aliquet. Sed condimentum, neque sed ullamcorper tempor, enim orci lobortis velit, non laoreet nibh diam id leo. Cras dolor orci, lobortis nec vehicula dapibus, bibendum et sapien. Praesent venenatis molestie odio, in luctus metus mattis id. Nulla orci neque, accumsan tempus justo nec, rhoncus ornare sem. </abstract>

Annotation for: <concept 1>, <concept 2>, <concept 3>

Assigned to link: Concept 1 & Please select

Add annotation title... 10-06-2017

Write your annotation

Tutorial X

The annotation panel is a special section to annotate selected relations.

[Prev](#)

[Next](#)

References:

Title X

Share

Tag1 Cancer +Add tag

Write your abstract here...

Selection details

- Concepts 5/20
- Relations 27/56

Write annotation for selection

Export all annotations to PDF

Annotation manager

Search results

Publications

<Concept 1>, <Concept 2>, <Concept 3>, <Concept 4>	15
<Concept 1>, <Concept 2>, <Concept 3>	12
<Concept 1>, <Concept 2>	11
<Concept 1>, <Concept 4>	10
<Concept 2>, <Concept 3>, <Concept 4>	7
<Concept 2>, <Concept 3>, <Concept 4>	7
<Concept 3>, <Concept 4>	3

Publication results (23) for: <concept 1>, <concept 2>, <concept 3>

Title 1 <Date> <Author> <Source>	▼	+ Add to references
Title 2 <Date> <Author> <Source>	▼	+ Add to references
Title 3 <Date> <Author> <Source>	▼	+ Add to references
Title 4 <Date> <Author> <Source>	▲	+ Add to references

<abstract> Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed sollicitudin massa et lectus sollicitudin, non placerat ex lobortis. Vestibulum enim felis, ultrices feugiat efficitur vel, vulputate accumsan nisi. Nunc eu felis in libero consectetur commodo id sit amet nulla. Fusce nec pellentesque neque. Suspendisse at nibh in quam convallis porta. Mauris tempor justo at urna hendrerit aliquet. Sed condimentum, neque sed ullamcorper tempor, enim orci lobortis velit, non laoreet nibh diam id leo. Cras dolor orci, lobortis nec vehicula dapibus, bibendum et sapien. Praesent venenatis molestie odio, in luctus metus mattis id. Nulla orci neque, accumsan tempus justo nec, rhoncus ornare sem. </abstract>

Annotation for: <concept 1>, <concept 2>, <concept 3>

Assigned to link: Concept 1 & Please select

Add annotation title... 10-06-2017

Write your annotation

Tutorial X

In the search result section, the selected concepts are shown for which these concepts are co-occurrent in publications.

[Prev](#)

[Next](#)

References:

Title X

Share

Tag1 **Cancer** +Add tag

Write your abstract here...

Selection details

- Concepts 5/20
- Relations 27/56

Write annotation for selection

Export all annotations to PDF

Annotation manager

Search results

Publications

<Concept 1>, <Concept 2>, <Concept 3>, <Concept 4>	15
<Concept 1>, <Concept 2>, <Concept 3>	12
<Concept 1>, <Concept 2>	11
<Concept 1>, <Concept 4>	10
<Concept 2>, <Concept 3>, <Concept 4>	7
<Concept 2>, <Concept 3>, <Concept 4>	7
<Concept 3>, <Concept 4>	3

Publication results (23) for: <concept 1>, <concept 2>, <concept 3>

Title 1 <Date> <Author> <Source>	▼	+ Add to references
Title 2 <Date> <Author> <Source>	▼	+ Add to references
Title 3 <Date> <Author> <Source>	▼	+ Add to references
Title 4 <Date> <Author> <Source>	▲	+ Add to references

<abstract> Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed sollicitudin massa et lectus sollicitudin, non placerat ex lobortis. Vestibulum enim felis, ultrices feugiat efficitur vel, vulputate accumsan nisi. Nunc eu felis in libero consectetur commodo id sit amet nulla. Fusce nec pellentesque neque. Suspendisse at nibh in quam convallis porta. Mauris tempor justo at urna hendrerit aliquet. Sed condimentum, neque sed ullamcorper tempor, enim orci lobortis velit, non laoreet nibh diam id leo. Cras dolor orci, lobortis nec vehicula dapibus, bibendum et sapien. Praesent venenatis molestie odio, in luctus metus mattis id. Nulla orci neque, accumsan tempus justo nec, rhoncus ornare sem. </abstract>

Annotation for: <concept 1>, <concept 2>, <concept 3>

Assigned to link: Concept 1 & Please select

Add annotation title... 10-06-2017

Write your annotation

Tutorial X		
Prev	When a search result is activated in the top section, the publication result are shown in the middle section. Unfolding a publication shows the abstract of that publication.	Next

References:

Title X

Share

Tag1 **Cancer** +Add tag

Write your abstract here...

Selection details

- Concepts 5/20
- Relations 27/56

Write annotation for selection

Export all annotations to PDF

Annotation manager

Search results

Publications

<Concept 1>, <Concept 2>, <Concept 3>, <Concept 4>	15
<Concept 1>, <Concept 2>, <Concept 3>	12
<Concept 1>, <Concept 2>	11
<Concept 1>, <Concept 4>	10
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<Concept 2>, <Concept 3>, <Concept 4>	7
<Concept 3>, <Concept 4>	3

Publication results (23) for: <concept 1>, <concept 2>, <concept 3>

Title 1 <Date> <Author> <Source>	▼	+ Add to references
Title 2 <Date> <Author> <Source>	▼	+ Add to references
Title 3 <Date> <Author> <Source>	▼	+ Add to references
Title 4 <Date> <Author> <Source>	▲	+ Add to references

<abstract> Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed sollicitudin massa et lectus sollicitudin, non placerat ex lobortis. Vestibulum enim felis, ultrices feugiat efficitur vel, vulputate accumsan nisi. Nunc eu felis in libero consectetur commodo id sit amet nulla. Fusce nec pellentesque neque. Suspendisse at nibh in quam convallis porta. Mauris tempor justo at urna hendrerit aliquet. Sed condimentum, neque sed ullamcorper tempor, enim orci lobortis velit, non laoreet nibh diam id leo. Cras dolor orci, lobortis nec vehicula dapibus, bibendum et sapien. Praesent venenatis molestie odio, in luctus metus mattis id. Nulla orci neque, accumsan tempus justo nec, rhoncus ornare sem. </abstract>

Annotation for: <concept 1>, <concept 2>, <concept 3>

Assigned to link: Concept 1 & Please select

Add annotation title... 10-06-2017

Write your annotation

Tutorial X		
Prev	The bottom section is to write the actual annotation. References can be added by pressing "Add to references" in the publication results section.	Next

References:

Title X

[Share](#)

Tag1 **Cancer** +Add tag

Write your abstract here...

Selection details

- Concepts 5/20
- Relations 27/56

[Write annotation for selection](#)

[Export all annotations to PDF](#)

[\\* Annotation manager](#)

Search results

Publications

<Concept 1>, <Concept 2>, <Concept 3>, <Concept 4>	15
<Concept 1>, <Concept 2>, <Concept 3>	12
<Concept 1>, <Concept 2>	11
<Concept 1>, <Concept 4>	10
<Concept 2>, <Concept 3>, <Concept 4>	7
<Concept 2>, <Concept 3>, <Concept 4>	7
<Concept 3>, <Concept 4>	3

Publication results (23) for: <concept 1>, <concept 2>, <concept 3>

Title 1 <Date> <Author> <Source>	<a href="#">+ Add to references</a>
Title 2 <Date> <Author> <Source>	<a href="#">+ Add to references</a>
Title 3 <Date> <Author> <Source>	<a href="#">+ Add to references</a>
Title 4 <Date> <Author> <Source>	<a href="#">+ Add to references</a>

<abstract> Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed sollicitudin massa et lectus sollicitudin, non placerat ex lobortis. Vestibulum enim felis, ultrices feugiat efficitur vel, vulputate accumsan nisi. Nunc eu felis in libero consectetur commodo id sit amet nulla. Fusce nec pellentesque neque. Suspendisse at nibh in quam convallis porta. Mauris tempor justo at urna hendrerit aliquet. Sed condimentum, neque sed ullamcorper tempor, enim orci lobortis velit, non laoreet nibh diam id leo. Cras dolor orci, lobortis nec vehicula dapibus, bibendum et sapien. Praesent venenatis molestie odio, in luctus metus mattis id. Nulla orci neque, accumsan tempus justo nec, rhoncus ornare sem. </abstract>

Annotation for: <concept 1>, <concept 2>, <concept 3>

Assigned to link: Concept 1 & Please select

Add annotation title...

Write your annota

Tutorial X

To complete the annotation, the annotation needs to be linked to a specific relation in the relation map. A dropdown menu shows the options to assign the annotation to a specific link.

[Prev](#)

[Next](#)

References:

- Concept 1
- Concept 2
- Concept 3

Title X

[Share](#)

Tag1 **Cancer** +Add tag

Write your abstract here...

Selection details

- Concepts 5/20
- Relations 27/56

[Write annotation for selection](#)

[Export all annotations to PDF](#)

[\\* Annotation manager](#)

Search results

Publications

<Concept 1>, <Concept 2>, <Concept 3>, <Concept 4>	15
<Concept 1>, <Concept 2>, <Concept 3>	12
<Concept 1>, <Concept 2>	11
<Concept 1>, <Concept 4>	10
<Concept 2>, <Concept 3>, <Concept 4>	7
<Concept 2>, <Concept 3>, <Concept 4>	7
<Concept 3>, <Concept 4>	3

Publication results (23) for: <concept 1>, <concept 2>, <concept 3>

Title 1 <Date> <Author> <Source>	<a href="#">+ Add to references</a>
Title 2 <Date> <Author> <Source>	<a href="#">+ Add to references</a>
Title 3 <Date> <Author> <Source>	<a href="#">+ Add to references</a>
Title 4 <Date> <Author> <Source>	<a href="#">+ Add to references</a>

<abstract> Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed sollicitudin massa et lectus sollicitudin, non placerat ex lobortis. Vestibulum enim felis, ultrices feugiat efficitur vel, vulputate accumsan nisi. Nunc eu felis in libero consectetur commodo id sit amet nulla. Fusce nec pellentesque neque. Suspendisse at nibh in quam convallis porta. Mauris tempor justo at urna hendrerit aliquet. Sed condimentum, neque sed ullamcorper tempor, enim orci lobortis velit, non laoreet nibh diam id leo. Cras dolor orci, lobortis nec vehicula dapibus, bibendum et sapien. Praesent venenatis molestie odio, in luctus metus mattis id. Nulla orci neque, accumsan tempus justo nec, rhoncus ornare sem. </abstract>

Annotation for: <concept 1>, <concept 2>, <concept 3>

Assigned to link: Concept 1 & Please select

Add annotation title...

Write your annota

Tutorial X

An abstract can be written, to summarize all your findings, results and annotations.

[Prev](#)

[Next](#)

References:

10-06-2017

Title X

Share

Tag1 Cancer +Add tag

Write your abstract here...

Selection details

- Concepts 5/20
- Relations 27/56

Write annotation for selection

Export all annotations to PDF

Annotation manager

Annotation	Concepts	Last opened	
<input checked="" type="checkbox"/> <Annotation title 1>	<Concept 1>, <Concept 2>, <Concept 3>, <Concept 4>	10-06-2017	✎ 🗑️ ⤴
<input checked="" type="checkbox"/> <Annotation title 2>	<Concept 1>, <Concept 2>, <Concept 3>	10-06-2017	✎ 🗑️ ⤴
<input type="checkbox"/> <Annotation title 3>	<Concept 1>, <Concept 2>	8-06-2017	✎ 🗑️ ⤴
<input type="checkbox"/> <Annotation title 4>	<Concept 1>, <Concept 4>	5-06-2017	✎ 🗑️ ⤴
<input type="checkbox"/> <Annotation title 5>	<Concept 2>, <Concept 3>, <Concept 4>	31-05-2017	✎ 🗑️ ⤴
<input type="checkbox"/> <Annotation title 6>	<Concept 2>, <Concept 3>, <Concept 4>	31-05-2017	✎ 🗑️ ⤴
<input type="checkbox"/> <Annotation title 7>	<Concept 3>, <Concept 4>	31-05-2017	✎ 🗑️ ⤴

<Annotation> Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nulla ullamcorper varius libero ut placerat. Phasellus pharetra nisi risus, et pulvinar justo mattis vitae. Curabitur pellentesque ante eget nisi lobortis facilisis. Nam quis nisi massa. Mauris consequat mauris pulvinar dolor euismod, vitae tempor pulvisinibus. Aenean posuere cursus sapien. Vivamus et enim viverra, consequat nisi a, blandit arcu. Pellentesque dapibus, neque sit amet efficitur vulputate, urna massa malesuada mi, in pellentesque erat nisi non risus. Proin sed cursus lacus. Duis id sapien aliquet, luctus eros in, luctus odio. Vivamus suscipit lacus eget lacinia placerat. </Annotation>

References: <Reference 1>

Tutorial

The annotation manager shows all the existing annotation within the project. From here annotations can be edited or deleted.

Prev

Next

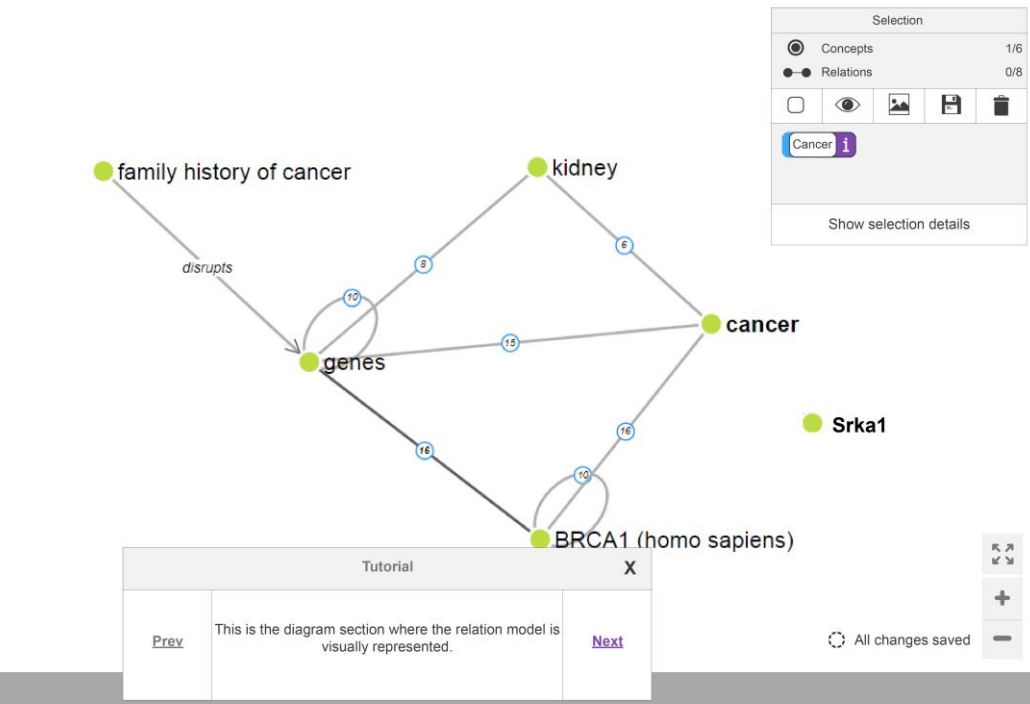
Title X

Share

Tag1 Cancer +Add tag

- Filter
- Add concept / Sets
- Find related concept
- Find relation
- Find intermediate concept
- Add custom relation
- Write annotation for selection

Annotation manager



Tutorial

This is the diagram section where the relation model is visually represented.

Prev

Next

All changes saved

EURETOS reSearch Set analytics Sets Relation map

Title X [Share](#)

Tag1 Cancer +Add tag

- Filter
- Add concept / Sets
- Find related concept
- Find relation
- Find intermediate concept
- Add custom relation
- Write annotation for selection

Annotation manager

Selection

- Concepts 1/6
- Relations 0/8

Cancer [i](#)

Show selection details

All changes saved

Tutorial X

[Prev](#) The concepts and relations can be individually selected. [Next](#)

EURETOS reSearch Set analytics Sets Relation map

Title X [Share](#)

Tag1 Cancer +Add tag

- Filter
- Add concept / Sets
- Find related concept
- Find relation
- Find intermediate concept
- Add custom relation
- Write annotation for selection

Annotation manager

Selection

- Concepts 1/6
- Relations 0/8

Cancer [i](#)

Show selection details

All changes saved

Tutorial X

[Prev](#) The top right panel shows the current selection and offers the option to show extra details of the selection like specific relation types. [Next](#)



EURETOS reSearch Set analytics Sets Relation map

Title X [Share](#)

Tag1 Cancer +Add tag

Filter

Locate keywords on map

Categories

- Activities & Behaviours (4)
- Anatomy (3)
- Tissue (2)
- Cells (1)
- Phenomena (2)
- Physiology (1)

Relation type

- Causes (5)
- Affects (5)
- Contains (3)
- Publication date
- Impact factor
- Publications per relation

0 10 20 25 50

\* Annotation manager

Selection

- Concepts 1/6
- Relations 0/8

Cancer i

Show selection details

Srka1

All changes saved

Tutorial X

The filter section enables to filter the different concepts and relations based category, relation type, publication date, impact factor and the number of publications supporting the relation.

[Prev](#) [Next](#)

EURETOS reSearch Set analytics Sets Relation map

Title X [Share](#)

Tag1 Cancer +Add tag

Filter

Add concept / Sets

Import a set

Search for a concept

- Concept 1
- Concept 2
- Concept 3
- Concept 4
- Concept 5
- Concept X
- Concept X
- Concept X
- Concept X
- Concept X
- Concept X

Find related concept

Find relation

Find intermediate concept

Write annotation for selection

\* Annotation manager

Selection

- Concepts 1/6
- Relations 0/8

Cancer i

Show selection details

Srka1

All changes saved

Tutorial X

Concepts and sets can added to the diagram. The concept search bar enables to find existing concepts in the EuretOS database. If a concept or a set of concepts are added to the relation map, all the existing relations are automatically generated.

[Prev](#) [Next](#)

Title X

Share

Tag1 Cancer +Add tag

- Filter
- Add concept / Sets
- Find related concept
- Find relation
- Find intermediate concept
- Add custom relation
- Write annotation for selection

Find related concepts for: Cancer

Category filter	Relation type filter
<input checked="" type="checkbox"/> Activities & Behaviours (20)	<input checked="" type="checkbox"/> Is location of (18)
<input checked="" type="checkbox"/> Anatomy (16)	<input checked="" type="checkbox"/> Is not location of (16)
<input checked="" type="checkbox"/> Disorders (15)	<input checked="" type="checkbox"/> Is part of (12)
<input checked="" type="checkbox"/> Activities & Behaviours (14)	<input checked="" type="checkbox"/> Is not part of (10)
<input checked="" type="checkbox"/> Anatomy (10)	<input checked="" type="checkbox"/> Affects (8)
<input checked="" type="checkbox"/> Disorders (8)	<input checked="" type="checkbox"/> Does not affect (6)

Related concept	Search for a concept	Relations	Publications	
<input type="checkbox"/> Liver		5	25	
<input type="checkbox"/> Neoplasm		25	24	
<input type="checkbox"/> LARP6		14	22	
<input type="checkbox"/> SCTR		3	22	
<input checked="" type="checkbox"/> SCTR	affects	Cancer	1	12
<input checked="" type="checkbox"/> SCTR	causes	Cancer	1	8
<input checked="" type="checkbox"/> Cancer	is manifestation of	SCTR	1	2
<input type="checkbox"/> MIR21		14	20	
<input type="checkbox"/> DFGH		65	19	
<input type="checkbox"/> ARFGD			15	
<input type="checkbox"/> CHP			12	
<input type="checkbox"/> Probes			12	

**Tutorial** X

[Prev](#) Results can be unfolded to show specific relations and the number of supporting publications. Pressing the number of publications will open another screen which show these publications. [Next](#)

\* Annotation manager

Title X

Share

Tag1 Cancer +Add tag

- Filter
- Add concept / Sets
- Find related concept
- Find relation
- Find intermediate concept
- Add custom relation
- Write annotation for selection

Find related concepts for: Cancer

Category filter	Relation type filter
<input checked="" type="checkbox"/> Activities & Behaviours (20)	<input checked="" type="checkbox"/> Is location of (18)
<input checked="" type="checkbox"/> Anatomy (16)	<input checked="" type="checkbox"/> Is not location of (16)
<input checked="" type="checkbox"/> Disorders (15)	<input checked="" type="checkbox"/> Is part of (12)
<input checked="" type="checkbox"/> Activities & Behaviours (14)	<input checked="" type="checkbox"/> Is not part of (10)
<input checked="" type="checkbox"/> Anatomy (10)	<input checked="" type="checkbox"/> Affects (8)
<input checked="" type="checkbox"/> Disorders (8)	<input checked="" type="checkbox"/> Does not affect (6)

Related concept	Search for a concept	Relations	Publications
<input type="checkbox"/> Liver		5	25
<input type="checkbox"/> Neoplasm		25	24
<input type="checkbox"/> LARP6		14	22
<input type="checkbox"/> SCTR		3	22
<input type="checkbox"/> MIR21		14	20
<input type="checkbox"/> DFGH		65	19
<input type="checkbox"/> ARFGD		44	15
<input type="checkbox"/> CHP		8	12
<input type="checkbox"/> Probes		2	12
<input type="checkbox"/> Inactivation			10
<input type="checkbox"/> Stressor			8
<input type="checkbox"/> Malaria pathw...			7

**Tutorial** X

[Prev](#) When one concept is selected in the diagram, a search can be conducted to find concepts that are related to that concept. In this example related concepts are shown for: "Cancer" [Next](#)

\* Annotation manager

Title X

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Tag1 Cancer +Add tag

- Filter
- Add concept / Sets
- Find related concept
- Find relation**
- Find intermediate concept
- Add custom relation
- Write annotation for selection

Find relations for: **Concept A, Concept B, Concept C, Concept D, Concept E**

Evidence filters	Relation type filter
<ul style="list-style-type: none"> <li>Publication date</li> <li>Impact factor</li> <li>Publications per relation</li> </ul>	<ul style="list-style-type: none"> <li>Is location of (18)</li> <li>Is not location of (16)</li> <li>Is part of (12)</li> <li>Is not part of (10)</li> <li>Affects (8)</li> <li>Does not affect (6)</li> </ul>

Concept relations	Relations	Publications
<input type="checkbox"/> Concept A - Concept B	65	84
<input type="checkbox"/> Concept A - Concept C	25	31
<input type="checkbox"/> Concept B - Concept C	14	22
<input type="checkbox"/> Concept B - Concept D	3	22
<input checked="" type="checkbox"/> SCTR affects Cancer	1	12
<input checked="" type="checkbox"/> SCTR causes Cancer	1	8
<input checked="" type="checkbox"/> Cancer is manifestation of SCTR	1	2
<input type="checkbox"/> Concept B - Concept E	14	20
<input type="checkbox"/> Concept C - Concept D	4	5

Tutorial

With "Find relation", up to five concept can be selected to search for the possible relations that exist between these concepts.

Prev Next

Annotation manager

Title X

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Tag1 Cancer +Add tag

- Filter
- Add concept / Sets
- Find related concept
- Find relation
- Find intermediate concept**
- Add custom relation
- Write annotation for selection

Find related intermediate concepts for: **Cancer and SRKA1**

Evidence filters	Relation type filter
<ul style="list-style-type: none"> <li>Publication date</li> <li>Impact factor</li> <li>Publications per relation</li> </ul>	<ul style="list-style-type: none"> <li>Is location of (18)</li> <li>Is not location of (16)</li> <li>Is part of (12)</li> <li>Is not part of (10)</li> <li>Affects (8)</li> <li>Does not affect (6)</li> </ul>

Related concept	Co-occurring publications Cancer	Co-occurring publications SRKA1	Total Publications
<input type="checkbox"/> Liver	5	5	10
<input type="checkbox"/> Neoplasm	25	25	50
<input type="checkbox"/> LARP6	14	14	28
<input type="checkbox"/> SCTR	3	3	6
<input type="checkbox"/> MIR21	14	14	28
<input type="checkbox"/> DFGH	65	65	130
<input type="checkbox"/> ARFGD	44	44	88
<input type="checkbox"/> CHP	8	8	16
<input type="checkbox"/> Probes	2	2	4
<input type="checkbox"/> Inactivation	5	5	10
<input type="checkbox"/> Stressor	8	8	16

Tutorial

With "Find intermediate concept", two concept need to be selected to search for a concept which is related to both selected concepts. In this example, the concept "Liver" is related to both "Cancer" & "SRKA1".

Prev Next

Annotation manager

EURETOS reSearch Set analytics Sets Relation map

Title X [Share](#)

Tag1 Cancer +Add tag

- Filter
- Add concept / Sets
- Find related concept
- Find relation
- Find intermediate concept
- Add custom relation
- Write annotation for selection

Selection: Concepts 1/6, Relations 0/8. Cancer selected.

Tutorial: To have full control over the construction of the relation model, custom relations can be added between two concepts. This comes at hand when a newly discovered relation needs to be incorporated in the relation model.

All changes saved

EURETOS reSearch Set analytics Sets Relation map

Title X [Share](#)

Tag1 Cancer +Add tag

- Filter
- Add concept / Sets
- Find related concept
- Find relation
- Find intermediate concept
- Add custom relation
- Write annotation for selection

Selection: Concepts 1/6, Relations 0/8. Cancer selected.

Tutorial: Custom relations are represented in the relation model with a dashed line.

All changes saved



EURETOS reSearch Set analytics Sets Relation map

Title X [Share](#)

Tag1 Cancer +Add tag

- Filter
- Add concept / Sets
- Find related concept
- Find relation
- Find intermediate concept
- Add custom relation
- Write annotation for selection

Annotation manager

Selection: Concepts 1/6, Relations 0/8. Cancer selected.

Tutorial: All the written annotations can be found in the annotation manager. [Prev](#) [Next](#)

All changes saved

EURETOS reSearch Set analytics Sets Relation map

Title X [Share](#)

Tag1 Cancer +Add tag

- Filter
- Add concept / Sets
- Find related concept
- Find relation
- Find intermediate concept
- Add custom relation
- Write annotation for selection

Annotation manager

Selection: Concepts 1/6, Relations 0/8. Cancer selected.

Tutorial: All the relation map projects can be found in the relation map project manager in the top right navigation bar. New projects can be created or existing project reopend by clicking on the "Relation map" button. [Prev](#) [Next](#)

All changes saved

## Appendix D: Relation map beta version screenshots

The screenshot shows the EURETOS 'Relation map' dashboard. At the top, there are navigation tabs for 'reSearch', 'Analytics', 'Sets', and 'Relation map'. Below the navigation, there are four thumbnails for relation maps: a blank map and three recent maps from projects created in August 2017. Below the thumbnails is a table of recent relation maps with search filters for titles, tags, and concepts.

Title	Tags	Concepts	Last opened
Project name			08:57 PM
Project name	test	liver, BRCA2 (homo sapiens), cancer, BRCA1 (homo s...	01:26 PM
Project name		serotonin, tryptophan, melatonin, sleeplessness, seroto...	08:57 PM

The screenshot shows a detailed view of a relation map. The central area displays a network diagram with nodes representing concepts like 'serotonin syndrome', 'methamphetamine', 'sleeplessness', 'melatonin', 'serotonin', 'tryptophan', and 'sleep'. Edges represent relationships such as 'precipitates', 'is manifestation of', and 'indicates'. A sidebar on the left contains a 'Filter' section with various criteria like 'Locate keywords on map', 'Categories', 'Relation type', 'Publication date', 'Impact factor', and 'Evidence level'. A 'Selection' panel on the right shows 'Concepts' (1/7) and 'Relations' (0/14), with 'methamphetamine' selected. A text box at the bottom of the diagram says 'Selecteer het venster waarvan u een knipset wilt maken.' (Select the window from which you want to make a cutset).

Eurotos Knowledge Platform

Project name Share

+ Add tag

Filter

Add concepts/Sets

Import as set

Alcohol

ethanol measurement alcohol (54) Procedures

alcohol (chembl545) alcohol (346) Chemicals & Drugs

ethanol alcohol (19818) Chemicals & Drugs

alcohols alcohol (2418) Chemicals & Drugs

alcohol agency alcohol agency (1) Organizations

alcoholic beverage industry alcohol industry (10) Occupations

aod agency alcohol or other drugs agency (4) Organizations

alcohol or drug treatment program alcohol or drug treatment program (1) Organizations

aod industry alcohol or other drugs industry (4) Occupations

aod (field) alcohol or other drugs (field) (6) Occupations

Find related concept

Find relation

Find intermediate concept

Add custom relation

Annotation manager

Write annotation for selection

Find related concepts for: Cancer

Category filter

Relation type filter

Related concept	Search for a concept	Relations	Publications
<input type="checkbox"/> name		124	1
<input type="checkbox"/> name1		124	1
<input type="checkbox"/> name2		124	1
<input type="checkbox"/> name3		124	1
<input type="checkbox"/> name4		124	1
<input type="checkbox"/> name5		124	1
<input type="checkbox"/> name6		124	1
<input type="checkbox"/> name7		124	1
<input type="checkbox"/> name8		124	1

Add selected concepts

Eurotos Knowledge Platform

Project name Share

+ Add tag

Filter

Add concepts/Sets

Import as set

Alcohol

ethanol measurement alcohol (54) Procedures

alcohol (chembl545) alcohol (346) Chemicals & Drugs

ethanol alcohol (19818) Chemicals & Drugs

alcohols alcohol (2418) Chemicals & Drugs

alcohol agency alcohol agency (1) Organizations

alcoholic beverage industry alcohol industry (10) Occupations

aod agency alcohol or other drugs agency (4) Organizations

alcohol or drug treatment program alcohol or drug treatment program (1) Organizations

aod industry alcohol or other drugs industry (4) Occupations

aod (field) alcohol or other drugs (field) (6) Occupations

Find related concept

Find relation

Find intermediate concept

Add custom relation

Annotation manager

Write annotation for selection

Selection

- Concepts 1/7
- Relations 0/14

methamphetamine

Show selection details

```

graph TD
    serotonin((serotonin)) --- predisposes --> serotonin_syndrome((serotonin syndrome))
    serotonin --- is_manifestation_of --> methamphetamine((methamphetamine))
    methamphetamine --- indicates --> sleeplessness((sleeplessness))
    methamphetamine --- indicates --> melatonin((melatonin))
    melatonin --- indicates --> sleeplessness
    tryptophan((tryptophan)) --- indicates --> sleep((sleep))
    sleeplessness --- indicates --> sleep
  
```