

MYGRID USER DAY EXERCISE -- RE-USING MICROARRAY PIPELINES

Report Summary

[View By Respondent ▶](#)

Please enter some personal info	Go
Please select your position:	Go
Please indicate what field your background is in:	Go
The goal of this exercise is to allow you to study and try to understand some more complex workflow diagrams, while allowing us to understand how similarity between workflows is perceived.	
You will be shown 5 workflows. For each workflow, you will be presented with 5 questions to judge how similar each workflow is to an example workflow.	Go
You should expect to spend about 5 minutes or less per workflow.	
The above is the example workflow. Please use it as the reference workflow for your comparisons.	Go
What do you think this example workflow does?	Go
The above is the example workflow. Please use it as as the reference workflow for your comparisons.	Go
This is Workflow 1.	Go
In your opinion, how similar is the example workflow to this one? If you have no idea about its biological/bioinformatics functionality or task, please leave the bullet blank. In this case, you can only use the overall shape and structure of the workflows to guide your opinion.	Go
Consider the 6 factors below for deciding on the workflows' similarity. How useful are the factors to determine similarity between this particular pair of workflows ? Again, if it is too hard to derive the biology going on underneath, leave the first two bullets blank.	Go
Please enter any other information in the diagram you might be using for deciding similarity here:	Go
How is your confidence in your similarity assessment:	Go
In case you could make a guess at the bioinformatics behind this workflow: how, in your view, does its task differ from the task of the example workflow ?	Go
The above is the example workflow. Please use it as the reference workflow for your comparisons.	Go
This is Workflow 2.	Go
In your opinion, how similar is the example workflow to this one? If you have no idea about its biological/bioinformatics functionality or task, please leave the bullet blank. In this case, you can only use the overall shape and structure of the workflows to guide your opinion.	Go
Consider the 6 factors below for deciding on the workflows' similarity. How useful are the factors to determine similarity between this particular pair of workflows ? Again, if it is too hard to derive the biology going on underneath, leave the first two bullets blank.	Go
Please enter any other information in the diagram you might be using for deciding similarity here:	Go
How is your confidence in your similarity assessment:	Go
In case you could make a guess at the bioinformatics behind this workflow: how, in your view, does its task differ from the task of the example workflow ?	Go
The above is the example workflow. Please use it as the reference workflow for your comparisons.	Go
This is Workflow 3.	Go
In your opinion, how similar is the example workflow to this one? If you have no idea about its biological/bioinformatics functionality or task, please leave the bullet blank. In this case, you can only use the overall shape and structure of the workflows to guide your opinion.	Go
Consider the 6 factors below for deciding on the workflows' similarity. How useful are the factors to determine similarity between this particular pair of workflows ? Again, if it is too hard to derive the biology going on	Go

underneath, leave the first two bullets blank.	
Please enter any other information in the diagram you might be using for deciding similarity here:	Go
How is your confidence in your similarity assessment:	Go
In case you could make a guess at the bioinformatics behind this workflow: how, in your view, does its task differ from the task of the example workflow ?	Go
The above is the example workflow. Please use it as as the reference workflow for your comparisons.	Go
This is Workflow 4.	Go
In your opinion, how similar is the example workflow to this one? If you have no idea about its biological/bioinformatics functionality or task, please leave the bullet blank. In this case, you can only use the overall shape and structure of the workflows to guide your opinion.	Go
Consider the 6 factors below for deciding on the workflows' similarity. How useful are the factors to determine similarity between this particular pair of workflows ? Again, if it is too hard to derive the biology going on underneath, leave the first two bullets blank.	Go
Please enter any other information in the diagram you might be using for deciding similarity here:	Go
How is your confidence in your similarity assessment:	Go
In case you could make a guess at the bioinformatics behind this workflow: how, in your view, does its task differ from the task of the example workflow ?	Go
The above is the example workflow. Please use it as the reference workflow for your comparisons.	Go
This is Workflow 5.	Go
In your opinion, how similar is the example workflow to this one? If you have no idea about its biological/bioinformatics functionality or task, please leave the bullet blank. In this case, you can only use the overall shape and structure of the workflows to guide your opinion.	Go
Consider the 6 factors below for deciding on the workflows' similarity. How useful are the factors to determine similarity between this particular pair of workflows ? Again, if it is too hard to derive the biology going on underneath, leave the first two bullets blank.	Go
Please enter any other information in the diagram you might be using for deciding similarity here:	Go
How is your confidence in your similarity assessment:	Go
In case you could make a guess at the bioinformatics behind this workflow: how, in your view, does its task differ from the task of the example workflow ?	Go
Please indicate how important it is, in your opinion, to have the following information available too in order to make your similarity assessments more accurate:	Go
How did you find this exercise in comparing workflow diagrams?	Go
Please enter any remaining comments & remarks you may have here:	Go

View	Please enter some personal info	Response Total
View	Name	13
View	Email	12
Total # of respondents 13 . Statistics based on 13 respondents 0 filtered; 0 skipped.		
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Please select your position:		Response Percent	Response Total
Researcher		15.4%	2
Developer		15.4%	2
PhD/MSc			

View	Identical 1.	2.	Very similar 3.	4.	Similar 5.	6.	Marginally similar 7.	8.	Not similar at all 9.	
Biological functionality	10% (1)	0% (0)	30% (3)	10% (1)	10% (1)	20% (2)	20% (2)	0% (0)	0% (0)	
Overall shape	0% (0)	0% (0)	18.2% (2)	18.2% (2)	36.4% (4)	0% (0)	27.3% (3)	0% (0)	0% (0)	

Total # of respondents **13**. Statistics based on **13** respondents **0** filtered; **0** skipped.

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Consider the 6 factors below for deciding on the workflows' similarity. How useful are the factors to determine similarity between this particular pair of workflows? Again, if it is too hard to derive the biology going on underneath, leave the first two bullets blank.

View	Very useful	Useful	Only a bit useful	Not useful at all	Very useful ■ Useful ■ Only a bit useful ■ Not useful at all ■	Response Total
It makes biological sense to have this workflow as a part of the example workflow	11.1% (1)	55.6% (5)	11.1% (1)	22.2% (2)		9
It makes biological sense to have this workflow superimposing over the example workflow	33.3% (3)	33.3% (3)	33.3% (3)	0% (0)		9

Workflow shape: number of shared inputs and outputs	0% (0)	69.2% (9)	7.7% (1)	23.1% (3)		13
Workflow shape: service type correspondence (same colours)	23.1% (3)	61.5% (8)	7.7% (1)	7.7% (1)		13
Workflow shape: shared service compositions	7.7% (1)	76.9% (10)	15.4% (2)	0% (0)		13
Workflow shape: shared paths between (intermediary) input and output	15.4% (2)	69.2% (9)	15.4% (2)	0% (0)		13

Total # of respondents 13. Statistics based on 13 respondents 0 filtered; 0 skipped.

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Please enter any other information in the diagram you might be using for deciding similarity here:

Response Total






[View](#)

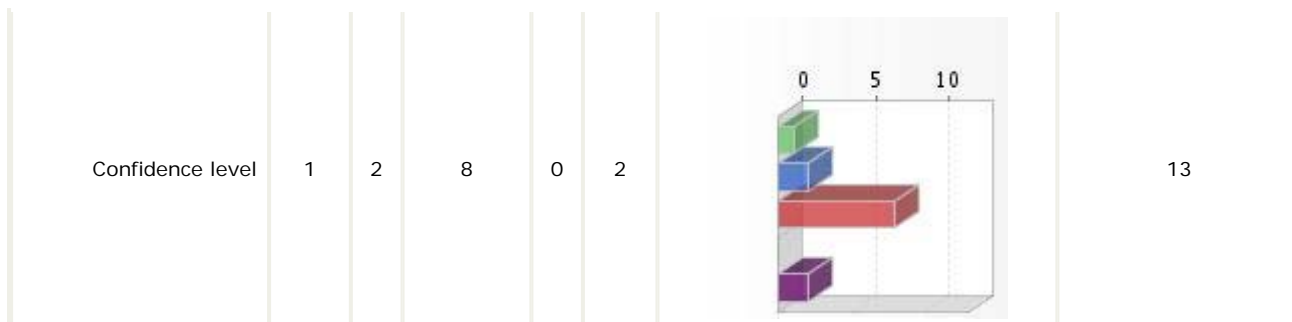
4

Total # of respondents 13. Statistics based on 4 respondents 0 filtered; 9 skipped.

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How is your confidence in your similarity assessment:

View	High 1.	2.	Medium 3.	4.	Low 5.	High 1.  2.  Medium 3.  4.  Low 5. 	Response Total



Total # of respondents **13**. Statistics based on **13** respondents **0** filtered; **0** skipped.

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In case you could make a guess at the bioinformatics behind this workflow: how, in your view, does its task differ from the task of the example workflow ?

Response Total

[View](#)

8

Total # of respondents **13**. Statistics based on **8** respondents **0** filtered; **5** skipped.

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The above is the example workflow. Please use it as the reference workflow for your comparisons.

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This is Workflow 2.

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In your opinion, how similar is the example workflow to this one? If you have no idea about its biological/bioinformatics functionality or task, please leave the bullet blank. In this case, you can only use the overall shape and structure of the workflows to guide your opinion.

	View	Identical 1.	2.	Very similar 3.	4.	Similar 5.	6.	Marginally similar 7.	8.	Not similar at all 9.	
Biological functionality		0% (0)	0% (0)	10% (1)	10% (1)	40% (4)	0% (0)	20% (2)	10% (1)	10% (1)	Identical 1. 2. Very similar 4. Similar 5. 6. Marginally s 8. Not similar
Overall shape		0% (0)	0% (0)	0% (0)	0% (0)	18.2% (2)	27.3% (3)	36.4% (4)	0% (0)	18.2% (2)	



Total # of respondents 13. Statistics based on 13 respondents 0 filtered; 0 skipped.

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Consider the 6 factors below for deciding on the workflows' similarity. How useful are the factors to determine similarity between this particular pair of workflows ? Again, if it is too hard to derive the biology going on underneath, leave the first two bullets blank.

View	Very useful	Useful	Only a bit useful	Not useful at all	Very useful ■ Useful ■ Only a bit useful ■ Not useful at all ■	Response Total
It makes biological sense to have this workflow as a part of the example workflow	0% (0)	25% (2)	50% (4)	25% (2)		8
It makes biological sense to have this workflow superimposing over the example workflow	12.5% (1)	25% (2)	50% (4)	12.5% (1)		8
Workflow shape: number of shared inputs and outputs	8.3% (1)	33.3% (4)	16.7% (2)	41.7% (5)		12
Workflow shape: service type correspondence (same colours)	25% (3)	50% (6)	16.7% (2)	8.3% (1)		12

Workflow shape: shared service compositions	16.7% (2)	58.3% (7)	16.7% (2)	8.3% (1)			12
Workflow shape: shared paths between (intermediary) input and output	25% (3)	50% (6)	16.7% (2)	8.3% (1)			12

Total # of respondents 13. Statistics based on 12 respondents 0 filtered; 1 skipped.

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Please enter any other information in the diagram you might be using for deciding similarity here:

Response Total

[View](#)

[4](#)

Total # of respondents 13. Statistics based on 4 respondents 0 filtered; 9 skipped.

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How is your confidence in your similarity assessment:

View	High 1.	2.	Medium 3.	4.	Low 5.		Response Total
						<ul style="list-style-type: none"> High 1. ■ 2. ■ Medium 3. ■ 4. ■ Low 5. ■ 	
Confidence level	1	2	8	1	1		13

Total # of respondents 13. Statistics based on 13 respondents 0 filtered; 0 skipped.

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In case you could make a guess at the bioinformatics behind this workflow: how, in your view, does its task differ from the task of the example workflow ?

Response Total

[View](#)

5

Total # of respondents **13**. Statistics based on **5** respondents **0** filtered; **8** skipped.

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The above is the example workflow. Please use it as the reference workflow for your comparisons.

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This is Workflow 3.

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In your opinion, how similar is the example workflow to this one? If you have no idea about its biological/bioinformatics functionality or task, please leave the bullet blank. In this case, you can only use the overall shape and structure of the workflows to guide your opinion.

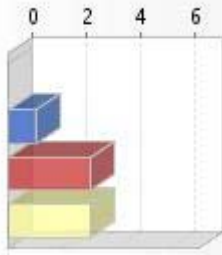
View	Identical 1.	2.	Very similar 3.	4.	Similar 5.	6.	Marginally similar 7.	8.	Not similar at all 9.	
Biological functionality	0% (0)	0% (0)	0% (0)	0% (0)	27.3% (3)	18.2% (2)	9.1% (1)	18.2% (2)	27.3% (3)	
Overall shape	0% (0)	0% (0)	8.3% (1)	0% (0)	25% (3)	8.3% (1)	16.7% (2)	16.7% (2)	25% (3)	

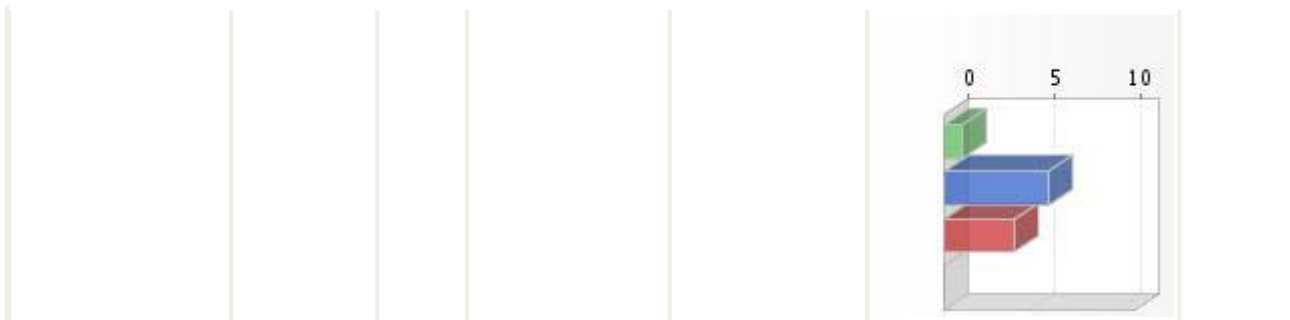
Total # of respondents **13**. Statistics based on **13** respondents **0** filtered; **0** skipped.

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Consider the 6 factors below for deciding on the workflows' similarity. How useful are the factors to determine similarity between this particular pair of workflows ? Again, if it is too hard to derive the biology going on underneath, leave the first two bullets blank.

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	View	Very useful	Useful	Only a bit useful	Not useful at all	Very useful ■ Useful ■ Only a bit useful ■ Not useful at all ■	Response Total
It makes biological sense to have this workflow as a part of the example workflow		0% (0)	28.6% (2)	42.9% (3)	28.6% (2)		7
It makes biological sense to have this workflow superimposing over the example workflow		0% (0)	14.3% (1)	42.9% (3)	42.9% (3)		7
Workflow shape: number of shared inputs and outputs		8.3% (1)	33.3% (4)	50% (6)	8.3% (1)		12
Workflow shape: service type correspondence (same colours)		16.7% (2)	58.3% (7)	16.7% (2)	8.3% (1)		12
Workflow shape: shared service compositions		0% (0)	54.5% (6)	45.5% (5)	0% (0)		11
Workflow shape: shared paths between (intermediary) input and output		9.1% (1)	54.5% (6)	36.4% (4)	0% (0)		11



Total # of respondents **13**. Statistics based on **12** respondents **0** filtered; **1** skipped.

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Please enter any other information in the diagram you might be using for deciding similarity here:

Response Total

[View](#)

0

Total # of respondents **13**. Statistics based on **0** respondents **0** filtered; **13** skipped.

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How is your confidence in your similarity assessment:

View	High 1.	2.	Medium 3.	4.	Low 5.		Response Total
Confidence level	0	1	7	3	1		12

Total # of respondents **13**. Statistics based on **12** respondents **0** filtered; **1** skipped.

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In case you could make a guess at the bioinformatics behind this workflow: how, in your view, does its task differ from the task of the example workflow ?

Response Total

[View](#)

5

Total # of respondents **13**. Statistics based on **5** respondents **0** filtered; **8** skipped.

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The above is the example workflow. Please use it as as the reference workflow for your comparisons.

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This is Workflow 4.

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In your opinion, how similar is the example workflow to this one? If you have no idea about its biological/bioinformatics functionality or task, please leave the bullet blank. In this case, you can only use the overall shape and structure of the workflows to guide your opinion.

	Identical 1.	2.	Very similar 3.	4.	Similar 5.	6.	Marginally similar 7.	8.	Not similar at all 9.	
Biological functionality	0% (0)	0% (0)	18.2% (2)	0% (0)	9.1% (1)	27.3% (3)	18.2% (2)	18.2% (2)	9.1% (1)	
Overall shape	0% (0)	9.1% (1)	36.4% (4)	0% (0)	9.1% (1)	18.2% (2)	9.1% (1)	9.1% (1)	9.1% (1)	

Total # of respondents 13. Statistics based on 13 respondents 0 filtered; 0 skipped.

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Consider the 6 factors below for deciding on the workflows' similarity. How useful are the factors to determine similarity between this particular pair of workflows? Again, if it is too hard to derive the biology going on underneath, leave the first two bullets blank.

	Very useful	Useful	Only a bit useful	Not useful at all		Response Total
It makes biological sense to have this workflow as a part of the example workflow	12.5% (1)	62.5% (5)	12.5% (1)	12.5% (1)		8
It makes biological sense to have this workflow	0%	25%	50%	25%		

superimposing over the example workflow	(0)	(2)	(4)	(2)		8
Workflow shape: number of shared inputs and outputs	16.7% (2)	33.3% (4)	41.7% (5)	8.3% (1)		12
Workflow shape: service type correspondence (same colours)	25% (3)	41.7% (5)	33.3% (4)	0% (0)		12
Workflow shape: shared service compositions	0% (0)	75% (9)	16.7% (2)	8.3% (1)		12
Workflow shape: shared paths between (intermediary) input and output	0% (0)	66.7% (8)	33.3% (4)	0% (0)		12

Total # of respondents 13. Statistics based on 12 respondents 0 filtered; 1 skipped.

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Please enter any other information in the diagram you might be using for deciding similarity here:

Response Total

[View](#)

0

Total # of respondents 13. Statistics based on 0 respondents 0 filtered; 13 skipped.

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How is your confidence in your similarity assessment:

View	High 1.	2.	Medium 3.	4.	Low 5.	High 1. ■ 2. ■ Medium 3. ■ 4. ■ Low 5. ■	Response Total
Confidence level	2	4	3	2	2		13

Total # of respondents **13**. Statistics based on **13** respondents **0** filtered; **0** skipped.

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In case you could make a guess at the bioinformatics behind this workflow: how, in your view, does its task differ from the task of the example workflow ?

Response Total

[View](#)

6

Total # of respondents **13**. Statistics based on **6** respondents **0** filtered; **7** skipped.

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The above is the example workflow. Please use it as the reference workflow for your comparisons.

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This is Workflow 5.

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In your opinion, how similar is the example workflow to this one? If you have no idea about its biological/bioinformatics functionality or task, please leave the bullet blank. In this case, you can only use the overall shape and structure of the workflows to guide your opinion.

View	Identical 1.	2.	Very similar 3.	4.	Similar 5.	6.	Marginally similar 7.	8.	Not similar at all 9.	Identical 1. 2. Very similar 3. 4. Similar 5. 6. Marginally simil 8. Not similar at a
Biological functionality	0% (0)	0% (0)	0% (0)	9.1% (1)	0% (0)	0% (0)	27.3% (3)	0% (0)	63.6% (7)	

Overall shape	0% (0)	0% (0)	0% (0)	0% (0)	7.7% (1)	0% (0)	15.4% (2)	0% (0)	76.9% (10)	

Total # of respondents 13. Statistics based on 13 respondents 0 filtered; 0 skipped.

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Consider the 6 factors below for deciding on the workflows' similarity. How useful are the factors to determine similarity between this particular pair of workflows? Again, if it is too hard to derive the biology going on underneath, leave the first two bullets blank.

View	Very useful	Useful	Only a bit useful	Not useful at all	Very useful ■ Useful ■ Only a bit useful ■ Not useful at all ■	Response Total
It makes biological sense to have this workflow as a part of the example workflow	0% (0)	12.5% (1)	12.5% (1)	75% (6)		8
It makes biological sense to have this workflow superimposing over the example workflow	12.5% (1)	12.5% (1)	12.5% (1)	62.5% (5)		8
Workflow shape: number of shared inputs and outputs	23.1% (3)	23.1% (3)	30.8% (4)	23.1% (3)		13

						
Workflow shape: service type correspondence (same colours)	23.1% (3)	30.8% (4)	23.1% (3)	23.1% (3)		13
Workflow shape: shared service compositions	23.1% (3)	23.1% (3)	30.8% (4)	23.1% (3)		13
Workflow shape: shared paths between (intermediary) input and output	23.1% (3)	30.8% (4)	23.1% (3)	23.1% (3)		13

Total # of respondents 13. Statistics based on 13 respondents 0 filtered; 0 skipped.

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Please enter any other information in the diagram you might be using for deciding similarity here:

Response Total






[View](#)

2

Total # of respondents 13. Statistics based on 2 respondents 0 filtered; 11 skipped.

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How is your confidence in your similarity assessment:

View	High 1.	2.	Medium 3.	4.	Low 5.	High 1.  2.  Medium 3.  4.  Low 5. 	Response Total

Confidence level	2	1	6	1	3		13
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Total # of respondents **13**. Statistics based on **13** respondents **0** filtered; **0** skipped.

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In case you could make a guess at the bioinformatics behind this workflow: how, in your view, does its task differ from the task of the example workflow ?

Response Total

[View](#)

5

Total # of respondents **13**. Statistics based on **5** respondents **0** filtered; **8** skipped.

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Please indicate how important it is, in your opinion, to have the following information available too in order to make your similarity assessments more accurate:

View	Very important	Important	Neutral	Not important	Very important ■ Important ■ Neutral ■ Not important ■	Response Total
Textual descriptions of input, output and services	69.2% (9)	30.8% (4)	0% (0)	0% (0)		13
Classification of the services (in terms of their role in the bioinformatics process)	46.2% (6)	30.8% (4)	23.1% (3)	0% (0)		13
Classification of input and output (...)	23.1% (3)	53.8% (7)	23.1% (3)	0% (0)		13

Classification of service combinations into multiple workflows (...)	38.5% (5)	15.4% (2)	46.2% (6)	0% (0)		13
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Total # of respondents 13. Statistics based on 13 respondents 0 filtered; 0 skipped.

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How did you find this exercise in comparing workflow diagrams?

	View	Very difficult	Difficult	Neutral	Rather easy	Simple		Response Total
							Very difficult ■ Difficult ■ Neutral ■ Rather easy ■ Simple ■	
Difficulty of comparing biological functionality		16.7% (2)	50% (6)	33.3% (4)	0% (0)	0% (0)		12
Difficulty of comparing shapes		16.7% (2)	8.3% (1)	33.3% (4)	25% (3)	16.7% (2)		12
Overall difficulty		16.7% (2)	25% (3)	58.3% (7)	0% (0)	0% (0)		12

Total # of respondents 13. Statistics based on 13 respondents 0 filtered; 0 skipped.

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Please enter any remaining comments & remarks you may have here:

Response Total

[View](#)

2

Total # of respondents 13. Statistics based on 2 respondents 0 filtered; 11 skipped.

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