P025

**Test: DELPHi / DIY (circle one)**

*Universidad de La Laguna (Spain), 26 January 2022*

**Your initials:**

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- **Question 1:** Is the candidate gene a transcription factor or part of a transcription complex?

| Gene | Transcription factor / part of transcription complex? (Y/N) | |
|---|---|---|
| HIF1A | | |
| SMAD3 | | |
| TRAF2 | | |
| CEBPA | Y | Y |

- **Question 2:** Is the candidate gene involved in an immune signalling pathway, i.e. a pathway that is immune cell-specific or a generic pathway known to operate in immune cells (e.g. the JAK-STAT, MAPK, NF-kappa B or TNF signalling pathways) ?

  You can also consider blood cell-specific pathways like leukaemias.

| Gene | Annotate relevant pathways |
|---|---|
| HIF1A | |
| SMAD3 | |
| TRAF2 | |
| CEBPA | Cancer: Acute myeloid leukemia |

IL17

- **Question 3:** Can you write down the known protein binding partners (if any) of each candidate gene ?

| Gene | Annotate relevant pathways |
|---|---|
| HIF1A | |
| SMAD3 | |
| TRAF2 | |
| CEBPA | (~~CEBPA mouse~~)<br>FOXO1 MOUSE<br>KDM1A |

FOXO1

- **Question 4:** Can you write down the diseases each candidate gene is associated with?

| Gene | Annotate relevant pathways |
|---|---|
| HIF1A | |
| SMAD3 | |
| TRAF2 | |
| CEBPA | Acute myeloid Leukemia |

Acute myeloid Leukemia

- **Question 5:** For each candidate gene, can you find a genetic phenotype that produces an abnormal immune phenotype or disease?

| Gene | Annotate relevant pathways |
|---|---|
| HIF1A | |
| SMAD3 | |
| TRAF2 | |
| CEBPA | abnormal B cell proliferation |

abnormal B cell proliferation

- **Question 6:** Are any of the candidate genes expressed in a type of immune cell or in a tissue or organ where immune cells are known to reside (e.g. the bone marrow, thymus, spleen and lymph nodes) ?

| Gene | Annotate relevant pathways |
|---|---|
| HIF1A | |
| SMAD3 | |
| TRAF2 | |
| CEBPA | Bone marrow |

Bone marrow

- **Question 7:** Have any of the candidate genes been studied in the context of macrophages?

| Gene | PMID of paper | |
|---|---|---|
| HIF1A | | |
| SMAD3 | | |
| TRAF2 | | |
| CEBPA | YES | YES |

***System Usability Scale***

© Digital Equipment Corporation, 1986.

| | Strongly disagree | | | | Strongly agree | |
|---|---|---|---|---|---|---|
| 1. I think that I would like to use this system frequently | | | | | X | 4 |
| | 1 | 2 | 3 | 4 | 5 | |
| 2. I found the system unnecessarily complex | X | | | | | 4 |
| | 1 | 2 | 3 | 4 | 5 | |
| 3. I thought the system was easy to use | | | | | X | 4 |
| | 1 | 2 | 3 | 4 | 5 | |
| 4. I think that I would need the support of a technical person to be able to use this system | X | | | | | 4 |
| | 1 | 2 | 3 | 4 | 5 | |
| 5. I found the various functions in this system were well integrated | | | | | X | 4 |
| | 1 | 2 | 3 | 4 | 5 | |
| 6. I thought there was too much inconsistency in this system | X | | | | | 4 |
| | 1 | 2 | 3 | 4 | 5 | |
| 7. I would imagine that most people would learn to use this system very quickly | | | | | X | 4 |
| | 1 | 2 | 3 | 4 | 5 | |
| 8. I found the system very cumbersome to use | X | | | | | 4 |
| | 1 | 2 | 3 | 4 | 5 | |
| 9. I felt very confident using the system | | | | | X | 4 |
| | 1 | 2 | 3 | 4 | 5 | |
| 10. I needed to learn a lot of things before I could get going with this system | X | | | | | 4 |
| | 1 | 2 | 3 | 4 | 5 | |

40

40 x 2.5 = 100

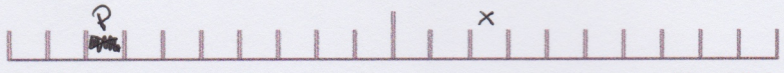
**Figure 8.6**

## *NASA Task Load Index*

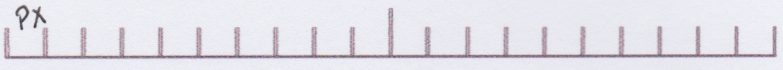
*Hart and Staveland's NASA Task Load Index (TLX) method assesses work load on five 7-point scales. Increments of high, medium and low estimates for each point result in 21 gradations on the scales.*

| Name | Task | Date |
|---|---|---|
| | | |

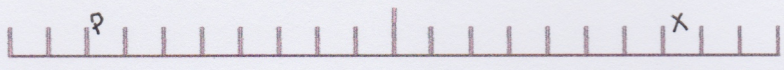
Mental Demand — How mentally demanding was the task?



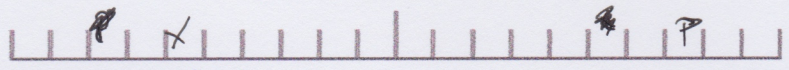

Physical Demand — How physically demanding was the task?



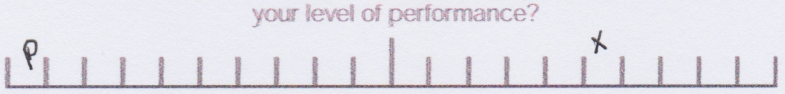

Temporal Demand — How hurried or rushed was the pace of the task?



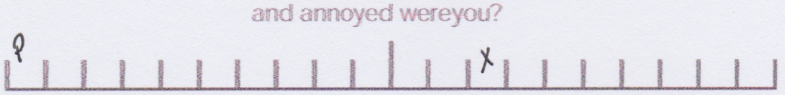

Performance — How successful were you in accomplishing what you were asked to do?




Effort — How hard did you have to work to accomplish your level of performance?




Frustration — How insecure, discouraged, irritated, stressed, and annoyed wereyou?



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[redacted]

| | P | X | 2nd year PhD student w/ Rosa Freyre |
|---|---|---|---|
| Q1 | 8" | Google → ~~Medline~~ Medline Plus. | 24" |
| Q2 | 39" | NCBI gene → Google → Gene.Cards → Simobiological.com | 2'06" |
| Q3 | 31" | Gene Cards → Google → UniProtKB | 1'42" |
| Q4 | 12" | UniProtKB | 18" |
| Q5 | 48" | NCBI gene → NCBI books → → Gene cards | 5'06 |
| Q6 | 44" | | 57" |
| Q7 | 23" | PubMed | 1'42" |

. Qué te gustó ⊕ y qué ⊖?

⊕ Todo la información ordenada en el mismo sitio

⊖ Todo en horizontal, tendría que ser más fácil visualmente. Quizá un índice.

. Qué cambiarías?

. Poner un índice.

. Algo más?