PG21

AE

Test: DELPHi / DIY (circle one)

Universidad de La Laguna (Spain), 26 January 2022

Your initials:

- **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	Si	Si

- **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	Si AML	AML

- **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	Foxo1 KDM4A

Foxo1

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

Gene	Annotate relevant pathways
HIF1A	
SMAD3	
TRAF2	
CEBPA	AML

AML

- **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	enlarged lymph nodes

basophil count

- **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
lymph node

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

Gene	PMID of paper
HIF1A	
SMAD3	
TRAF2	
CEBPA	23023392

34407972

System Usability Scale

© Digital Equipment Corporation, 1986.

	Strongly disagree				Strongly agree	
1. I think that I would like to use this system frequently				X		3
	1	2	3	4	5	
2. I found the system unnecessarily complex		X				3
	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		X		3
	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		3
	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	

36

3 ×4 = 12

4 ×6 = 24

12 + 24 = 36

36 × 2.5 = 90

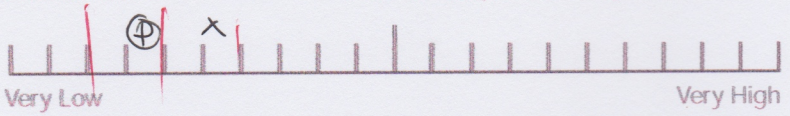
Figure 8.6

NASA Task Load Index

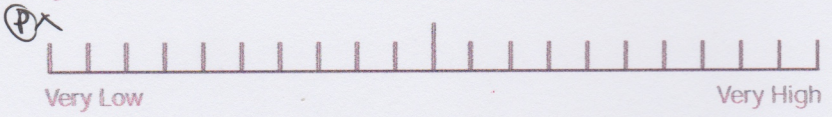
Hart and Staveland's NASA Task Load Index (TLX) method assesses work load on five 7-point scales. Increments of high, medium and low estimates for each point result in 21 gradations on the scales.

Name	Task	Date

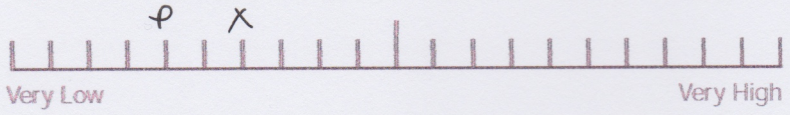
Mental Demand — How mentally demanding was the task?



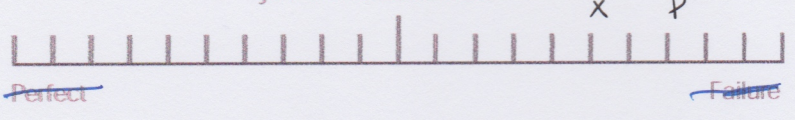
Physical Demand — How physically demanding was the task?



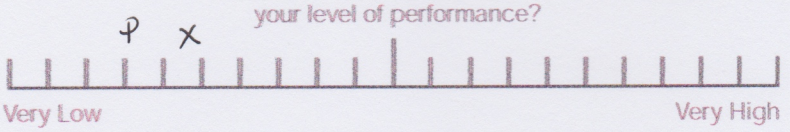
Temporal Demand — How hurried or rushed was the pace of the task?



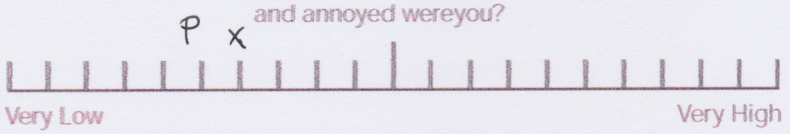
Performance — How successful were you in accomplishing what you were asked to do?



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



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



P021

[redacted]

PhD student

[redacted]

	P	X
Q1	16"	PubMed → NCBI 41"
Q2	4.16"	25"
Q3	41"	STRING-DB 1'02"
Q4	16"	28"
Q5	27"	NCBI gene → GeneCards 2'46"
Q6	29"	GeneCards 45"
Q7	34"	NCBI (all dbs) → PubMed 3'34"

Qué cosas te gustaría más y cuales menos?

(+) – muy sencillo de utilizar y que la información está muy ~~clara~~ clara

Que cambiarías?

(–) que se permita poner una lista de pares en vez de uno solo. = verlo en conjunto

Algo más?

Sería interesante tener una significación estadística ~~[illegible]~~ de los resultados, para no tener que creértelos porque sí, sino por un p-value por ejemplo.

e.g. ¿cómo de abundante es la expresión de exp?

[illegible] – en una población