2019 ASTHMA GENETICS

2019

Test: DELPHi / DIY (circle one)

Universidad de La Laguna (Spain), 26 January 2022

[redacted]

Your initials:

MMP-1

FACULTY

- **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	Acute myeloid leukemia Macrophage differentiation

- **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 & KDM1A PRDM16, UBN1

- **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 Inflammatory bowel diseases Colitis ulcerative

- **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 immune system morphology Leukemia, acute myebid

- **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	Yes, bone marrow Spleen

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

39

39 × 2.5 = 97.5

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.

P X

Name	Task	Date

Mental Demand — How mentally demanding was the task?

P X

Very Low — Very High

Physical Demand — How physically demanding was the task?

P X

Very Low — Very High

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

P X

Very Low — Very High

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

X P

~~Perfect~~ very low — ~~Failure~~ very high

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

P X

Very Low — Very High

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

P X

Very Low — Very High

1/2/2022 Pola

P		X	
Q1	5s	NCBI gene	43"
Q2	1' 15"	NCBI gene	1' 28"
Q3	31"	NCBI gene → Omphalotus	2' 38"
Q4	12"	NCBI gene →	50"
Q5	55"	OMIM	1' 03"
Q6	45"	NCBI gene → Atex portal	2' 13"
Q7	20"	PubMed	35"

tener en cuenta que este ejercicio está en desventaja en → * y las herramientas que

Debriefing

Qué no te gustó?

El display que se a tan ancho, la organización sería mejor vertical la información.

aunque con la impr. vertical empiezas a ignorar lo que está más abajo

(+) le gustó que puedes buscar la información en las ventanitas.

(+) que es simple, xq tiene todo lo que a primera vista tendría que buscar para ver si le interesa es pan en su propio campo.