

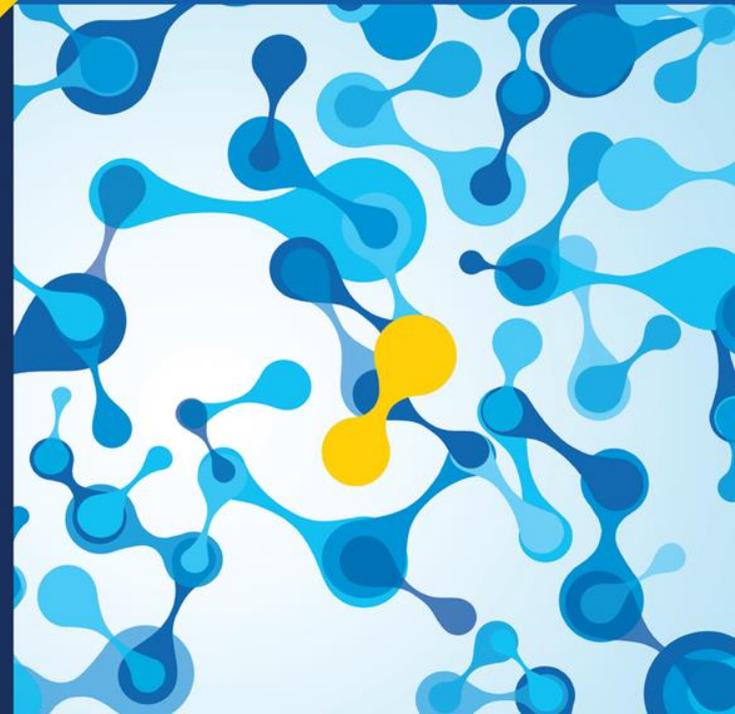
SALIVATEC

**LABORATÓRIO DE
INVESTIGAÇÃO
MULTIDISCIPLINAR
EM SALIVA**



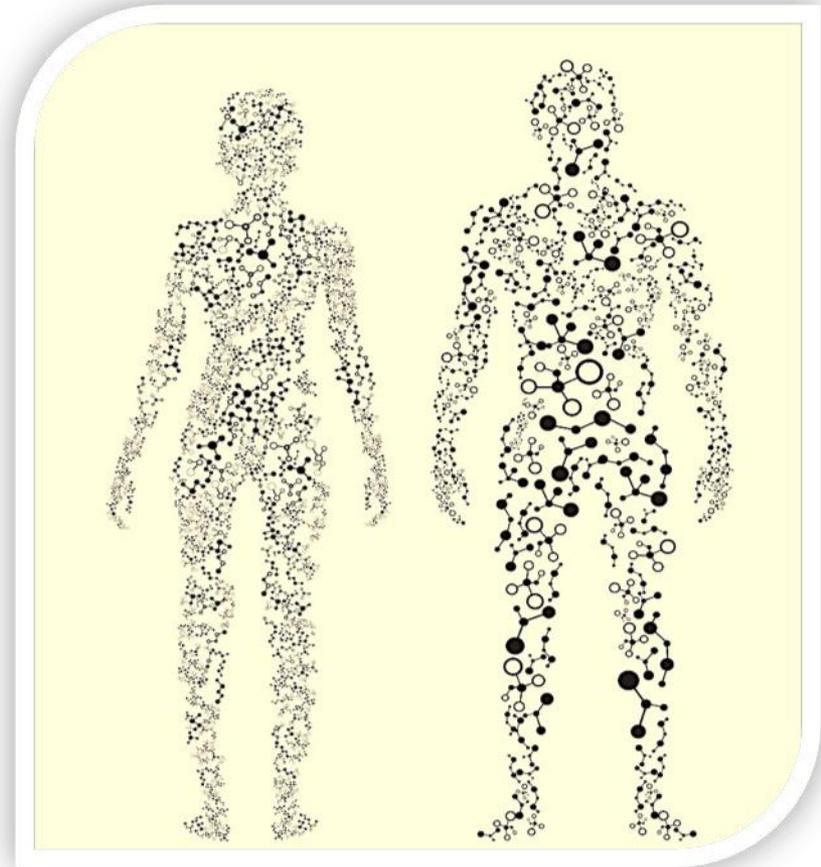
CATOLICA
CIIS - CENTRO DE INVESTIGAÇÃO
INTERDISCIPLINAR EM SAÚDE

LISBOA · PORTO · VISEU



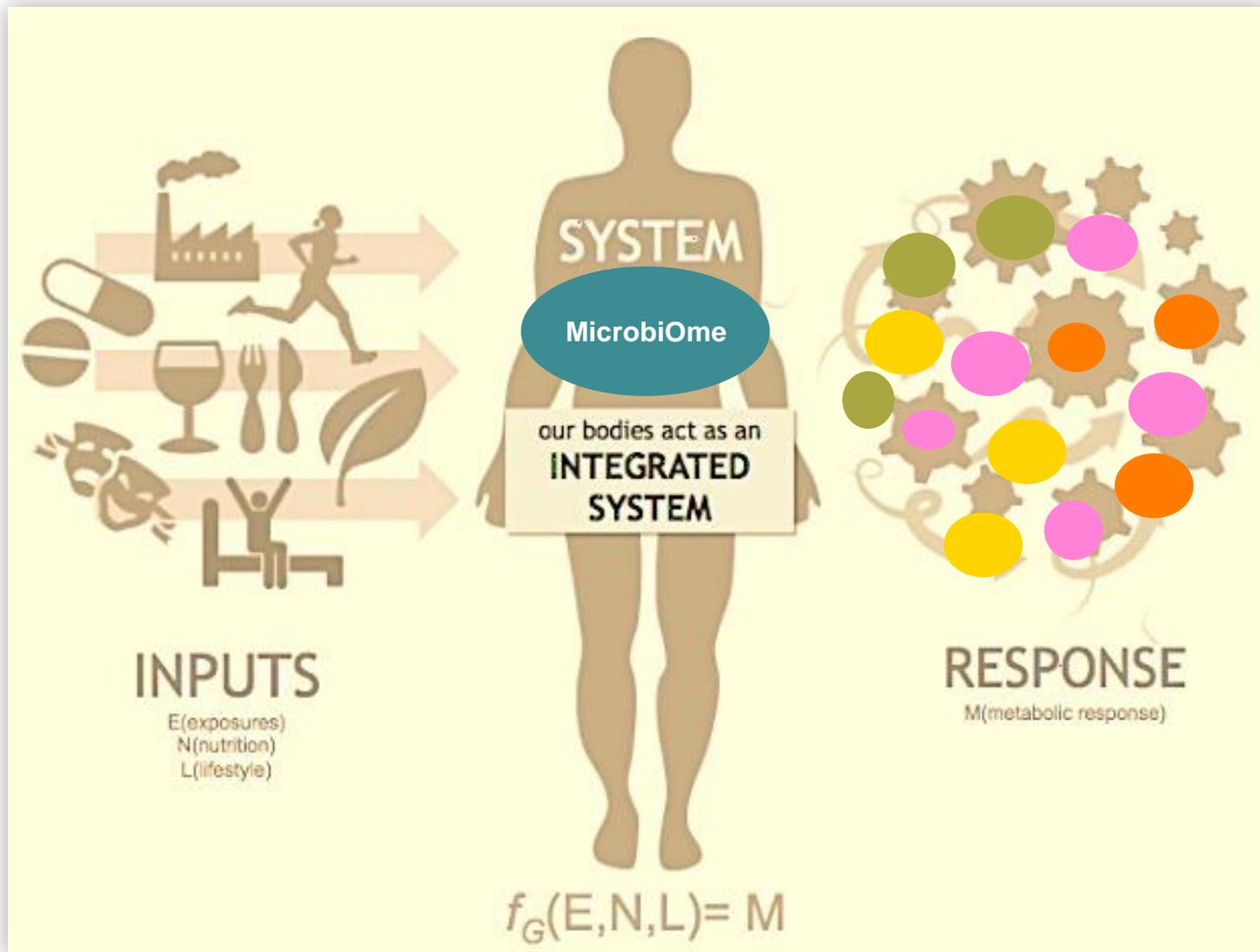
Genes

Um potencial que pode ser modelado



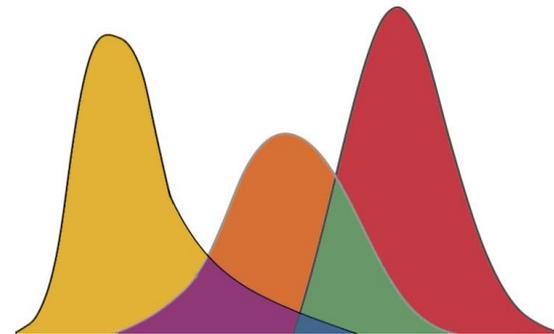
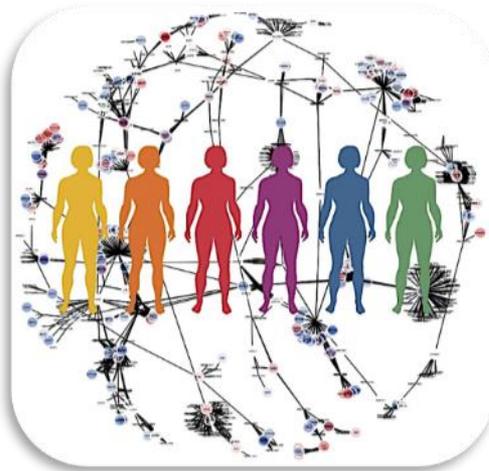
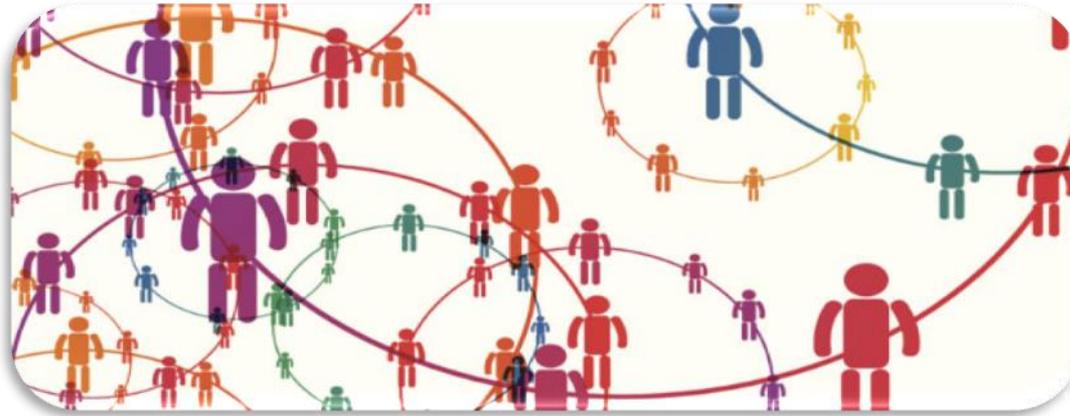
Sistema Humano

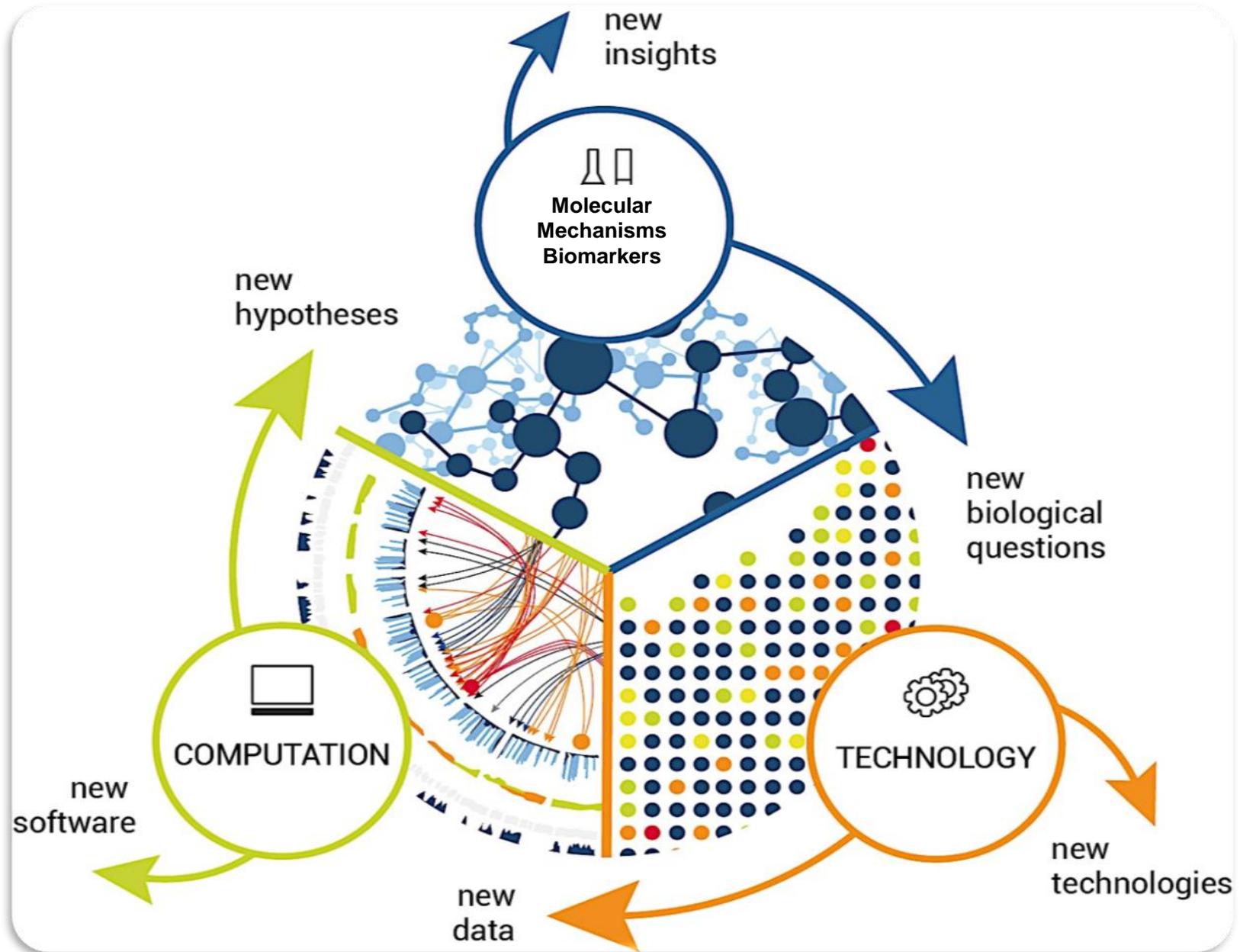
Integra, Processa e Responde



Caracterização da População

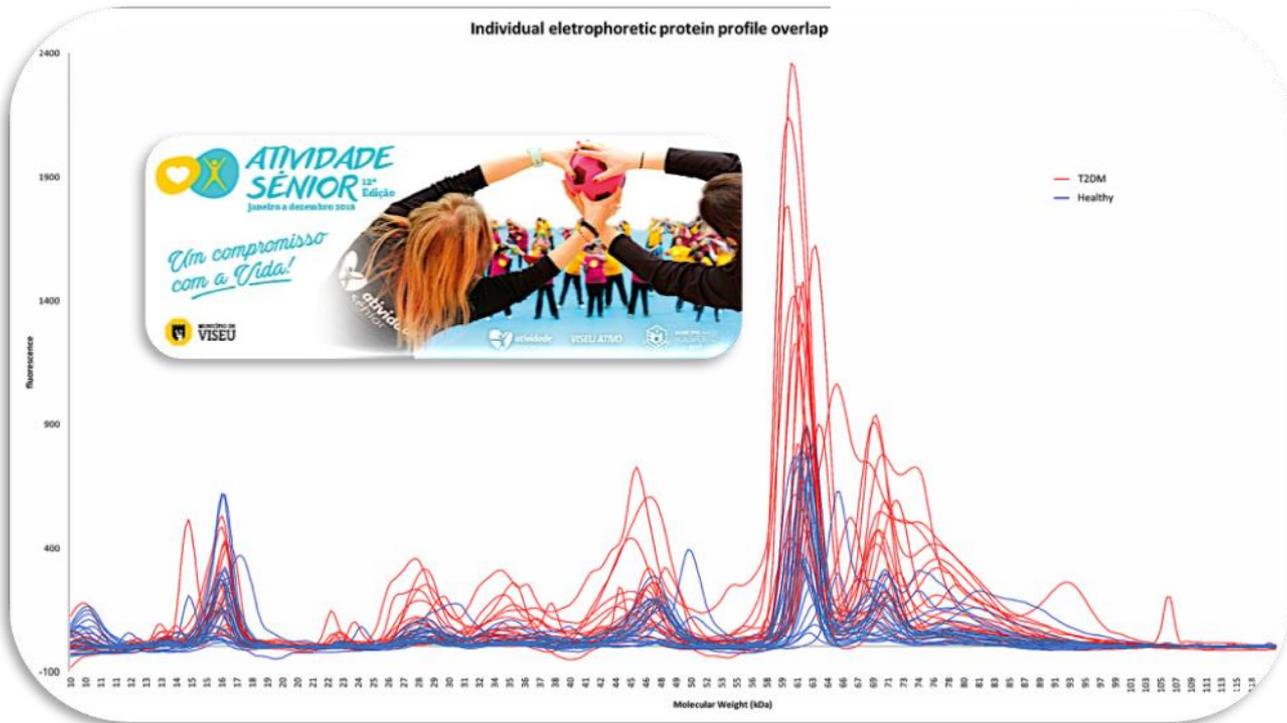
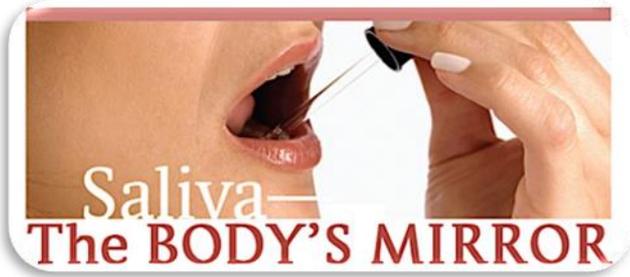
As soluções devem ser personalizadas



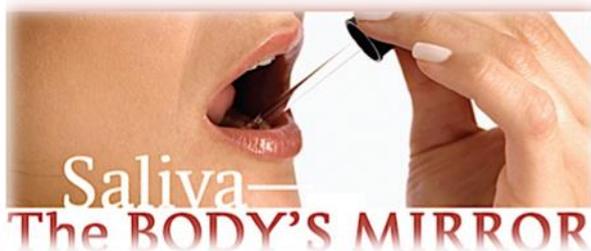


Sistema Humano

A avaliação de todo o sistema é possível?



Existe o SalivaPrint da DMT2?

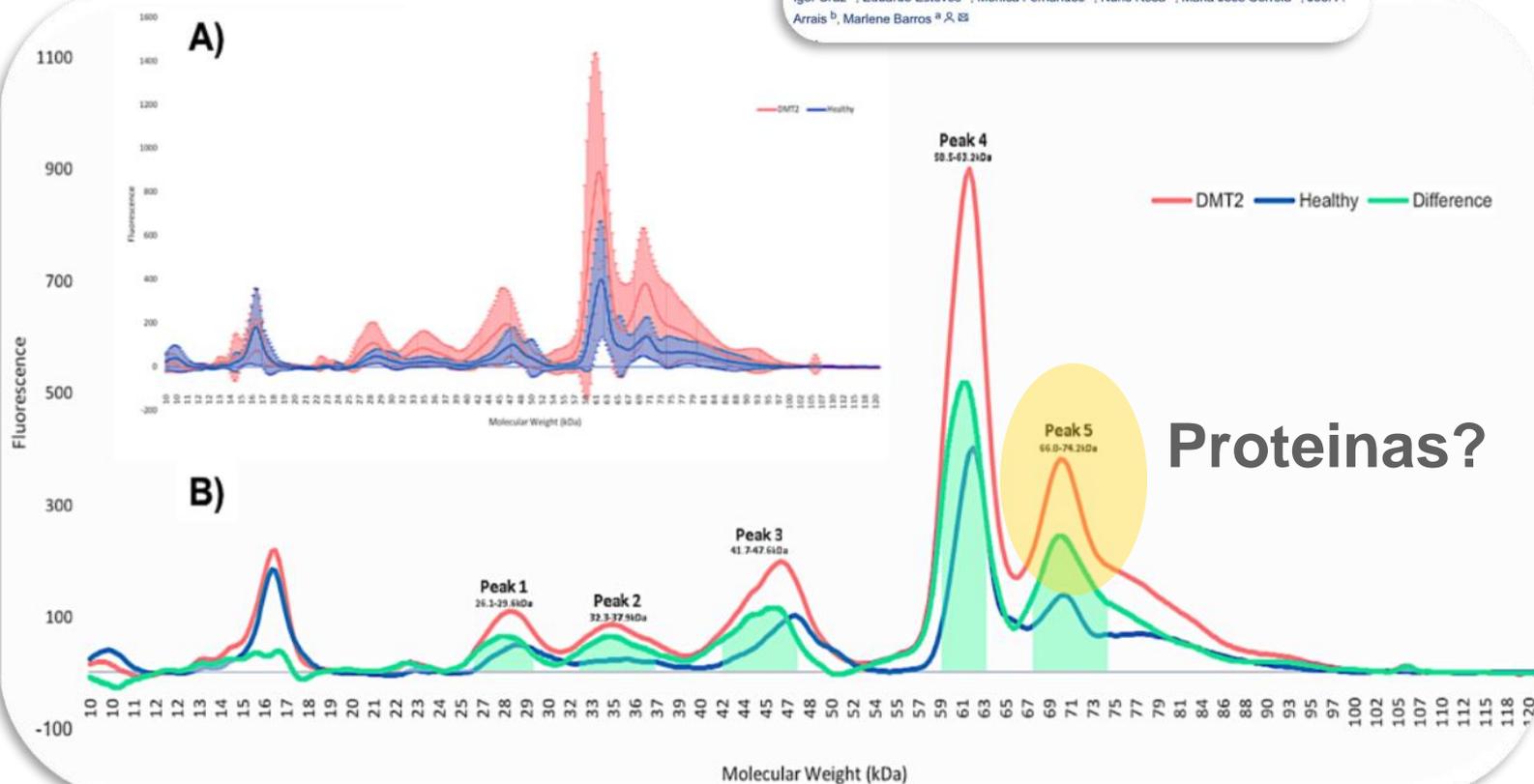


Journal of Proteomics
Volume 171, 16 January 2018, Pages 81-86



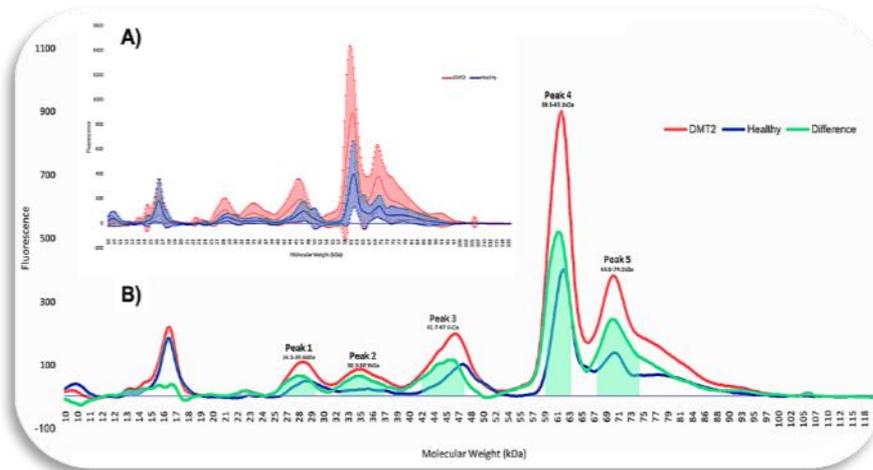
SalivaPRINT Toolkit – Protein profile evaluation and phenotype stratification

Igor Cruz ^a, Eduardo Esteves ^a, Mónica Fernandes ^a, Nuno Rosa ^a, Maria José Correia ^a, Joel P. Arrais ^b, Marlene Barros ^a ✉



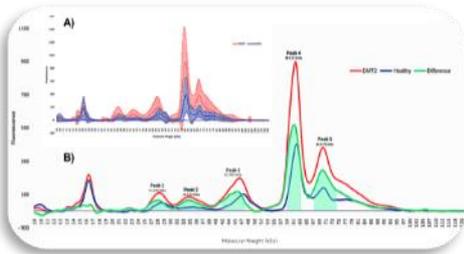
Proteínas?

Um SalivaPrint de cada doença?



SalivaPrint Peaks	Total Proteins	SalivaPrint 10-120 Kda		SalivaPrint 1-5 peak	
		vs Human genome	vs DMT2 (SalivaTec DB)	vs Human genome	vs DMT2 (SalivaTec DB)
Peak 1	170	49	51	24	21
Peak 2	247	83	85	32	19
Peak 3	233	75	75	36	17
Peak 4	120	44	43	20	11
Peak 5	137	43	52	20	6
Total	907	294	306	132	74

Um SalivaPrint de cada doença?



SalivaTec

DB

Search term... (e.g.: interleukin)

Proteins

27225

Mi-RNAs

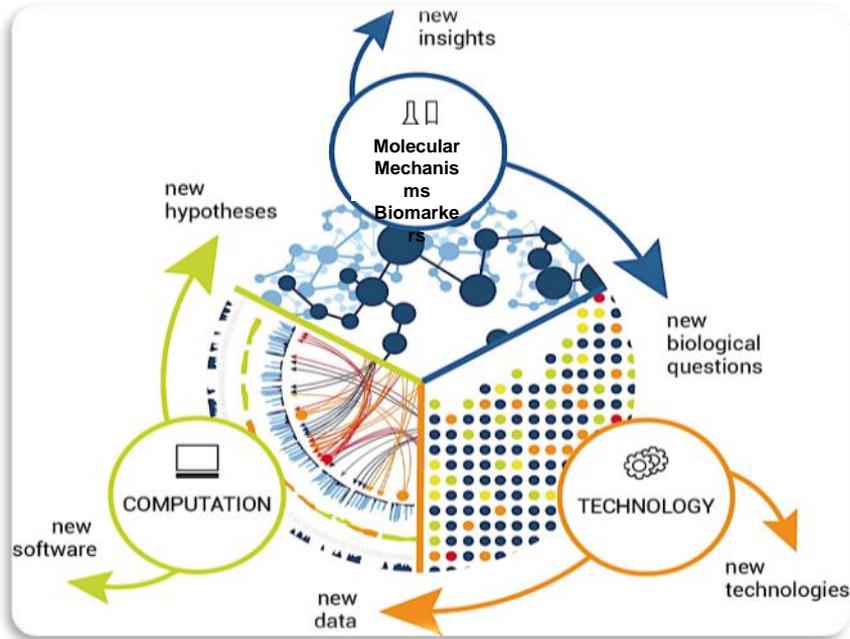
6121

Microorganisms

8181

UniProtKBAC	Gene names (primary)	MW	Proteins	SalivaPrint (10-120kDa) vs DMT2 (SalivaTec DB)	Fold Change
SalivaPrint Peak 2					
P40926	MDH2	35,5	Malate dehydrogenase, mitochondrial (EC 1.1.1.37)	tricarboxylic acid cycle	2,1
P04406	GAPDH	36,1	Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) (EC 1.2.1.12)	monosaccharide metabolic process	
P53597	SUCLG1	36,3	Succinate--CoA ligase [ADP/GDP-forming] subunit alpha, mitochondrial (EC 6.2.1.4)	tricarboxylic acid cycle; nitrogen compound metabolic process; biosynthetic process	
P07864	LDHC	36,3	L-lactate dehydrogenase C chain (LDH-C) (EC 1.1.1.27)	tricarboxylic acid cycle; monosaccharide metabolic process	
P40925	MDH1	36,4	Malate dehydrogenase, cytoplasmic (EC 1.1.1.37)	tricarboxylic acid cycle; nitrogen compound metabolic process; coenzyme metabolic process	
P07195	LDHB	36,6	L-lactate dehydrogenase B chain (LDH-B) (EC 1.1.1.27)	tricarboxylic acid cycle; monosaccharide metabolic process	
P00338	LDHA	36,7	L-lactate dehydrogenase A chain (LDH-A) (EC 1.1.1.27)	tricarboxylic acid cycle; monosaccharide metabolic process	+

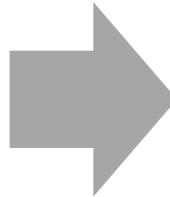
Transferência



Prevenção é a Chave!

O *empowerment* visando a criação de comunidades resilientes e inclusivas

Doenças Crónicas



Informação:

- Indivíduo
- Centro de Saúde
- Médico Assistente

**- Município
(Smart Cities)**