

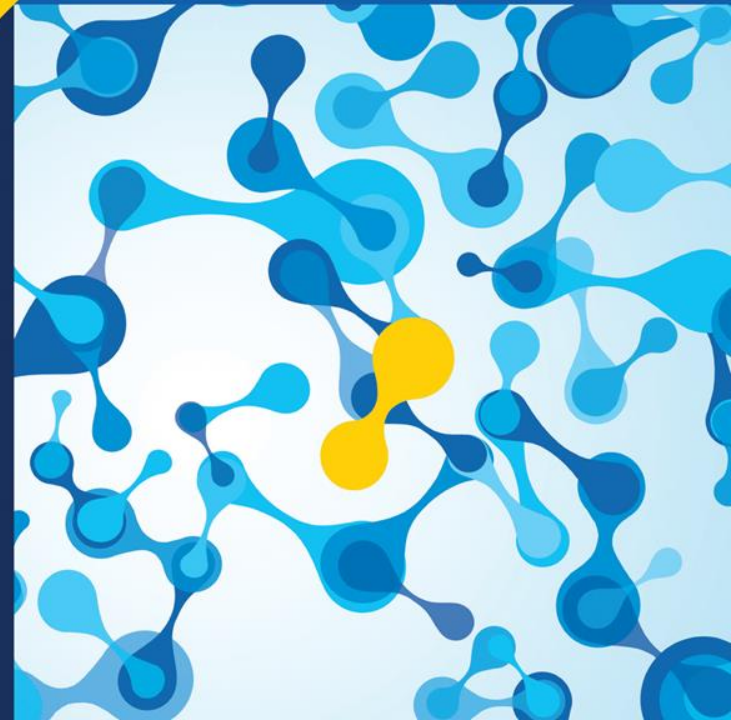
# SALIVATEC

**LABORATÓRIO DE  
INVESTIGAÇÃO  
MULTIDISCIPLINAR  
EM SALIVA**



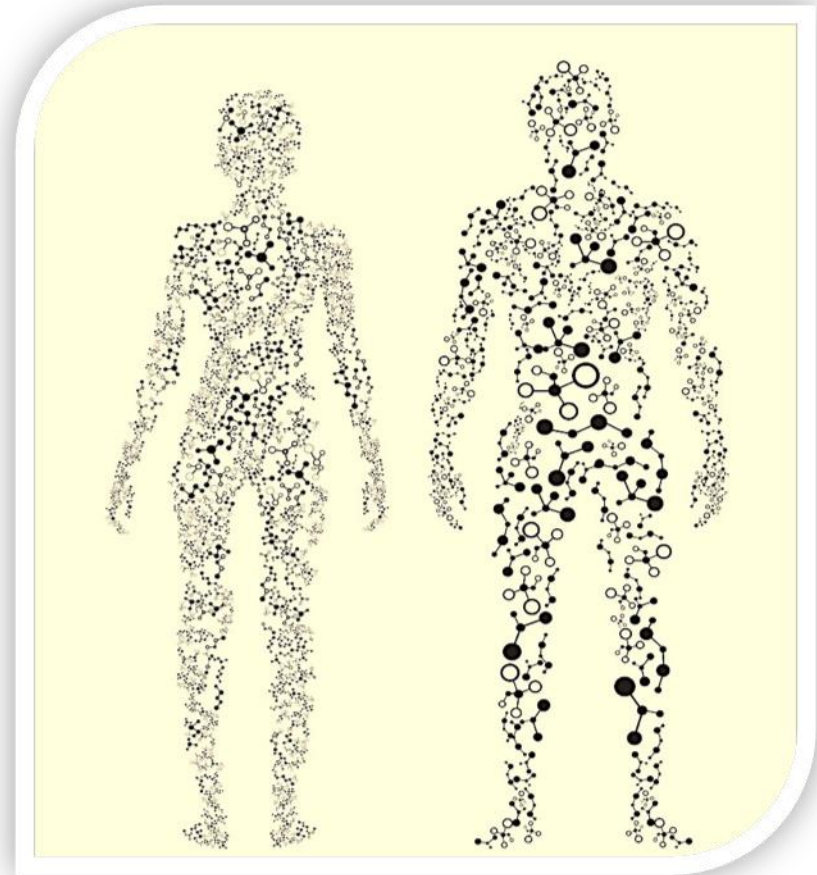
**CATOLICA**  
CIIS - CENTRO DE INVESTIGAÇÃO  
INTERDISCIPLINAR EM SAÚDE

LISBOA · PORTO · VISEU



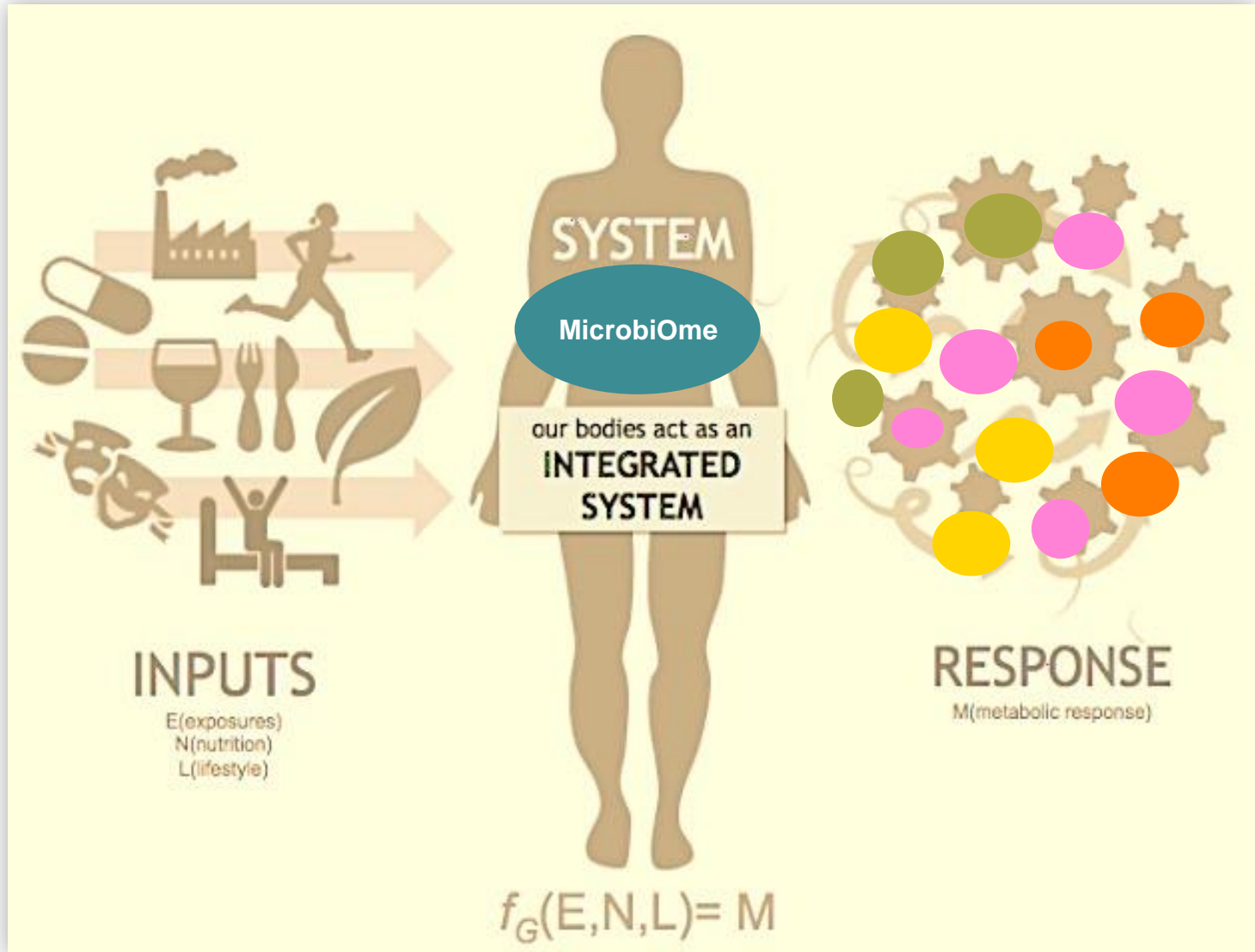
# Genes

Um potencial que pode ser modelado



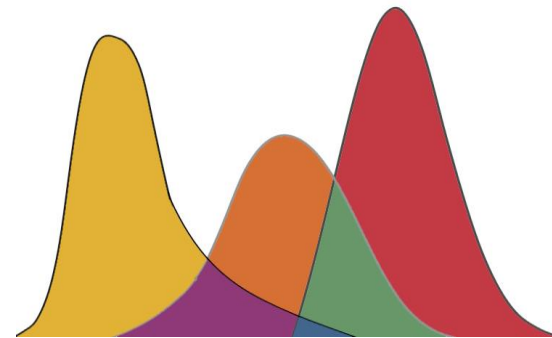
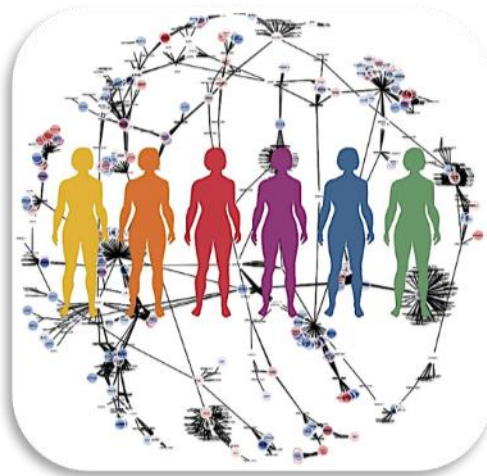
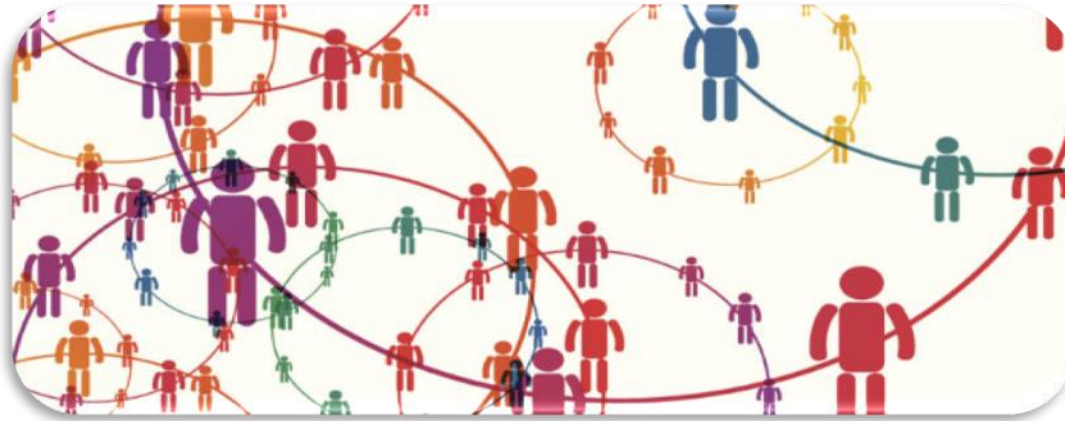
# Sistema Humano

Integra, Processa e Responde

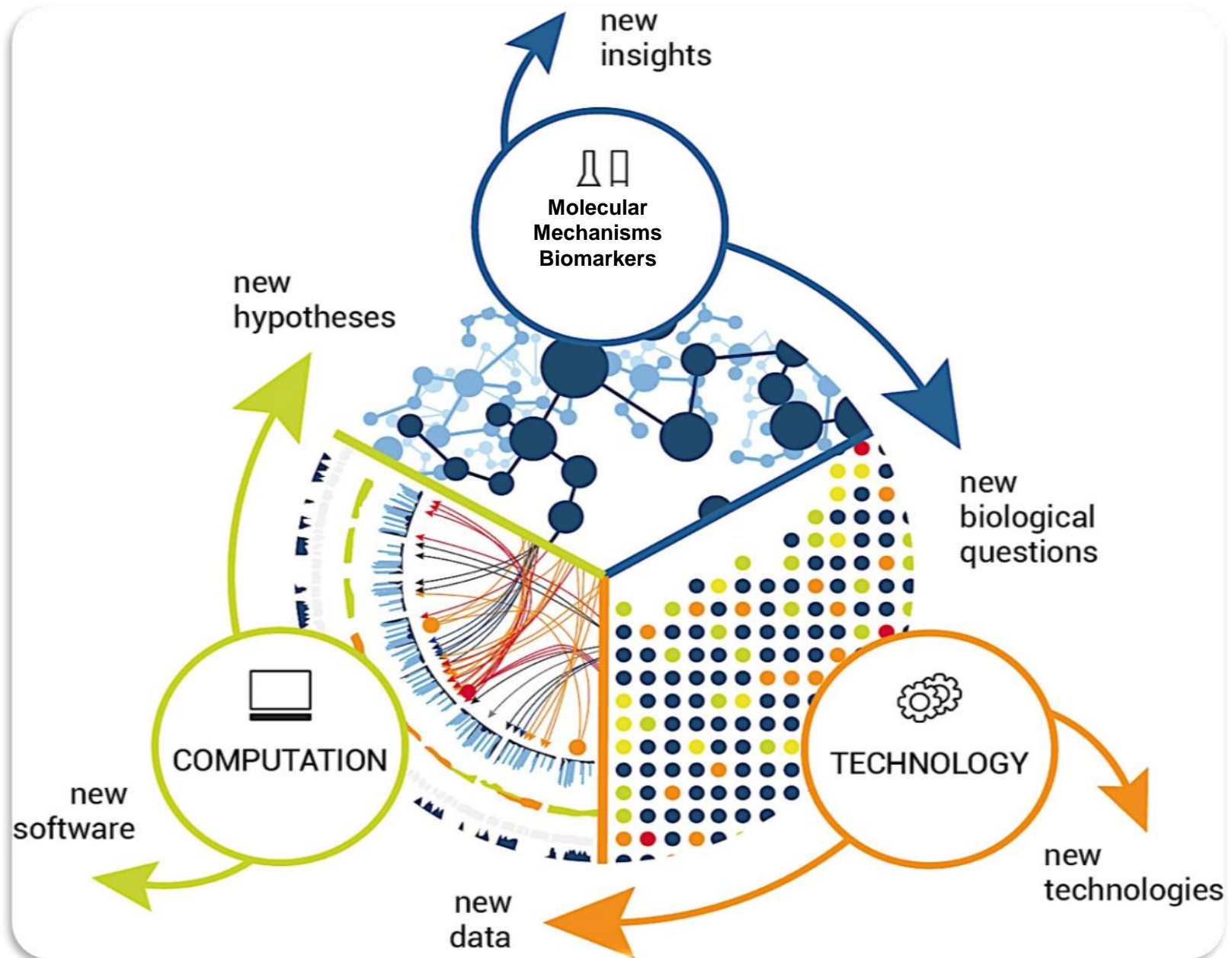


# Caracterização da População

As soluções devem ser personalizadas

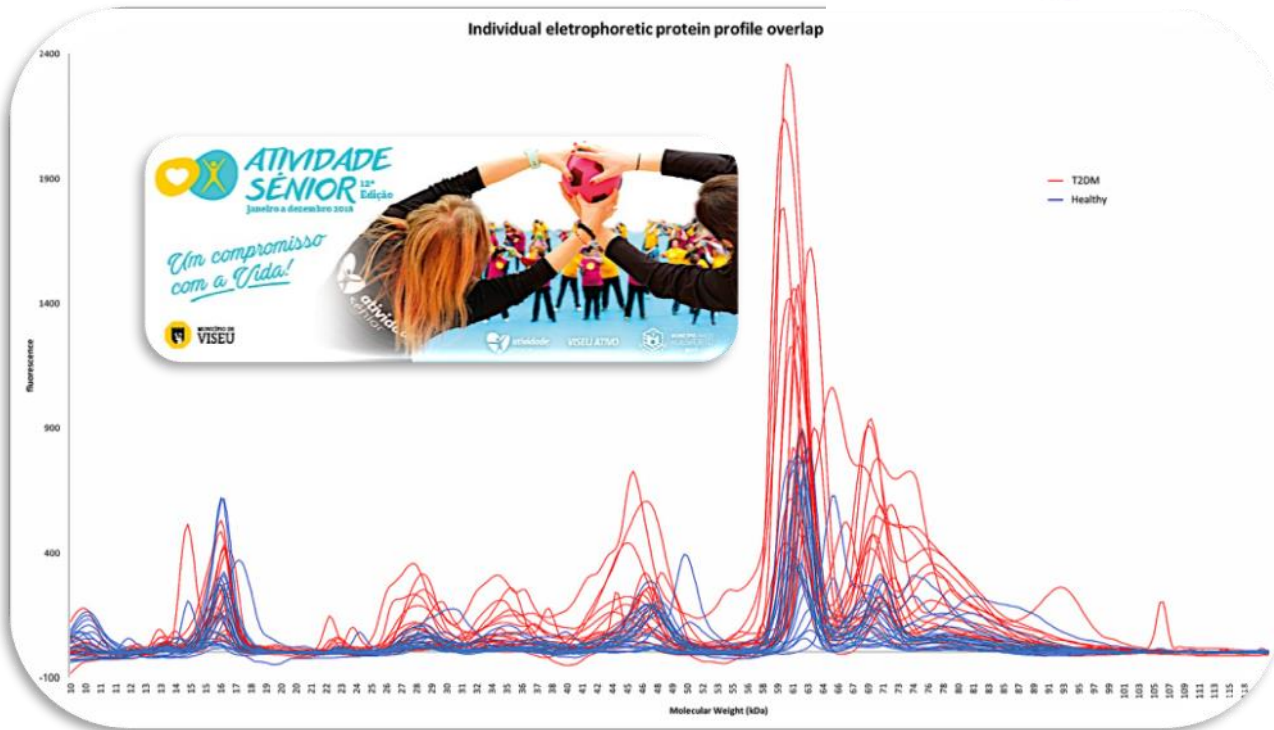
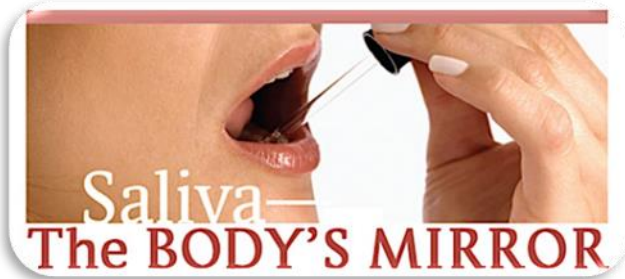






# Sistema Humano

A avaliação de todo o sistema é possível?



# Existe o SalivaPrint da DMT2?

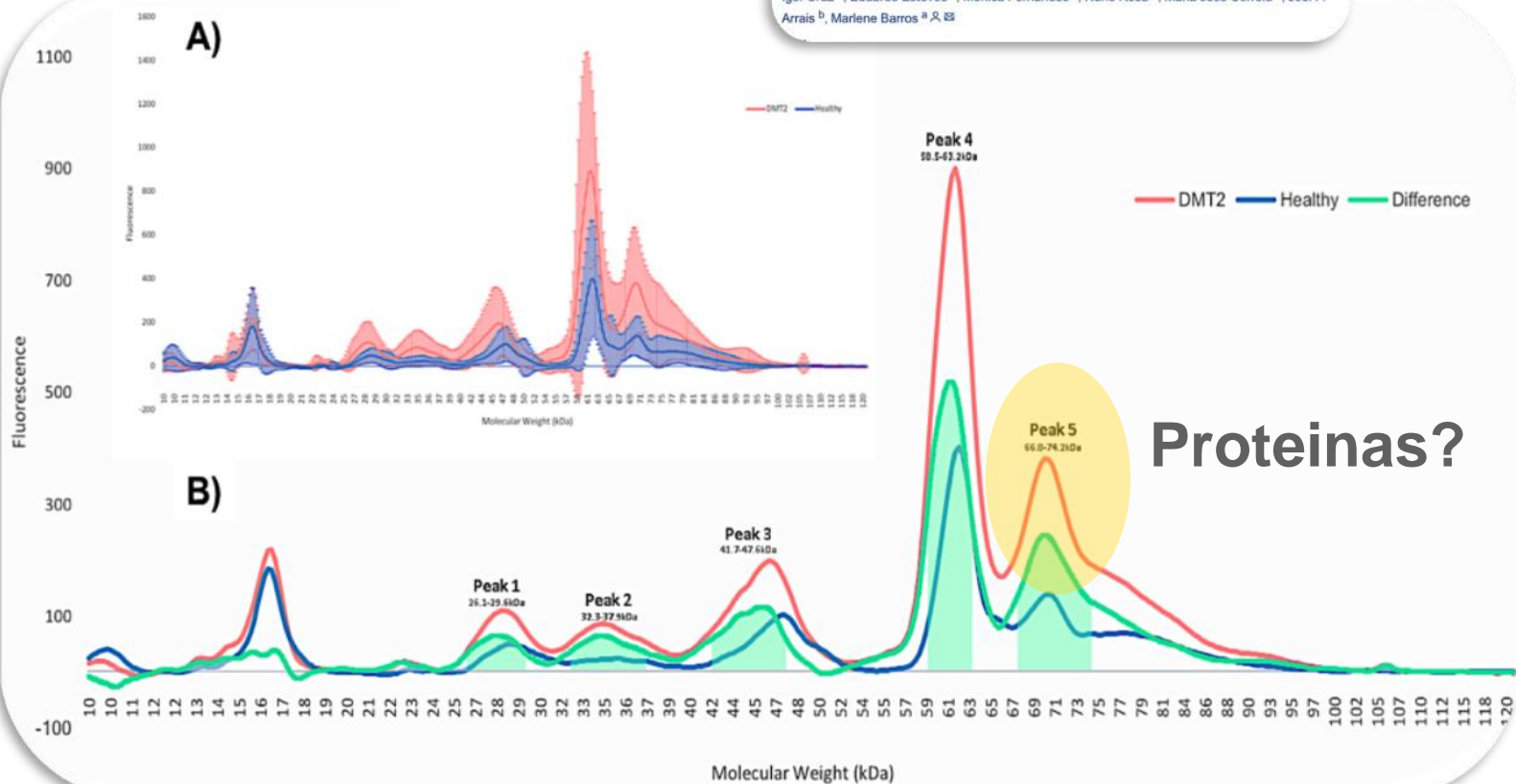


Journal of Proteomics  
Volume 171, 16 January 2018, Pages 81-86



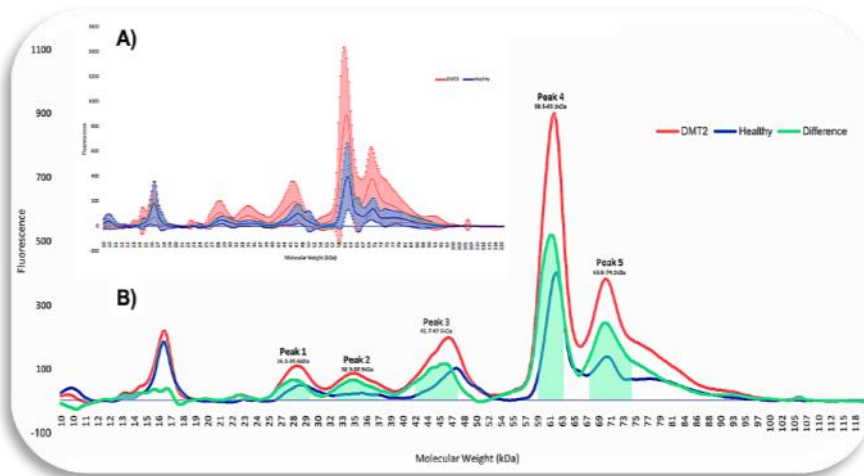
SalivaPRINT Toolkit – Protein profile evaluation and phenotype stratification

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



Proteínas?

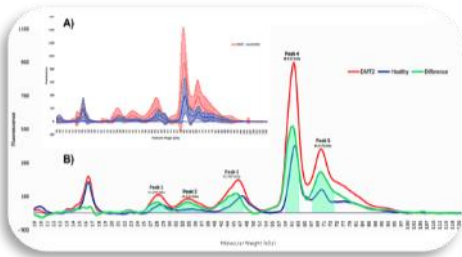
# Um SalivaPrint de cada doença?



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
<b>Total</b>	<b>907</b>	<b>294</b>	<b>306</b>	<b>132</b>	<b>74</b>



# Um SalivaPrint de cada doença?



SalivaTec

DB

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

Proteins

27225

Mi-RNAs

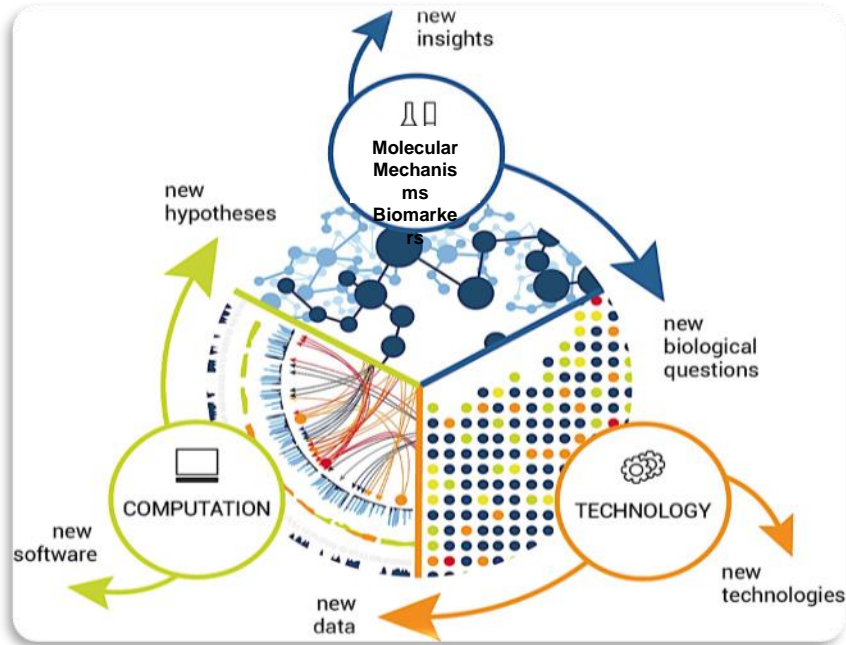
6121

Microorganisms

8181

UniProtKBAC	Gene names (primary)	MW	Proteins	SalivaPrint (10-120kDa) vs DMT2 (SalivaTec DB)	Fold Change
<b>SalivaPrint Peak 2</b>					
P40926	MDH2	35,5	Malate dehydrogenase, mitochondrial (EC 1.1.1.37)	tricarboxylic acid cycle	<b>2,1</b>
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	<b>+</b>

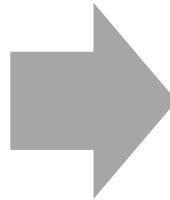
# Transferência



# 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)**