



BROKERAGE FOR HEALTH

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Better Health and Care



MEMBRANE LIPID BIOMARKERS

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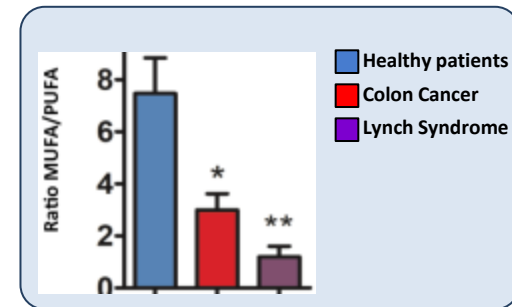
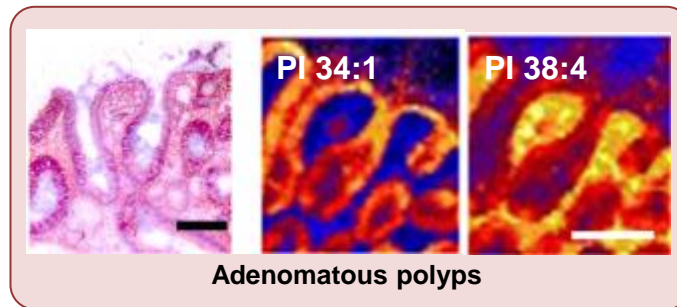


Project idea/ Company expertise

Expertise: Identification of membrane lipid biomarkers in:
tissue



Lipid distribution along tissues established by **Imaging Mass Spectrometry** in collaboration with Dr. JA Fernández (University of Basque Country) (1,2)



Differences established in plasma **exosomes** lipidome (unpublished)

...despite being **solid** and **highly sensitive** biomarkers, they are still **absent** in the clinical practice.

Project idea: Identification of membrane lipid biomarkers to be used in the daily clinical practice.

Topic

SC1-BHC-01-2019: Understanding causative mechanisms in co- and multimorbidities combining mental and non-mental disorders

Keywords: membrane lipid biomarkers, patients recruitment

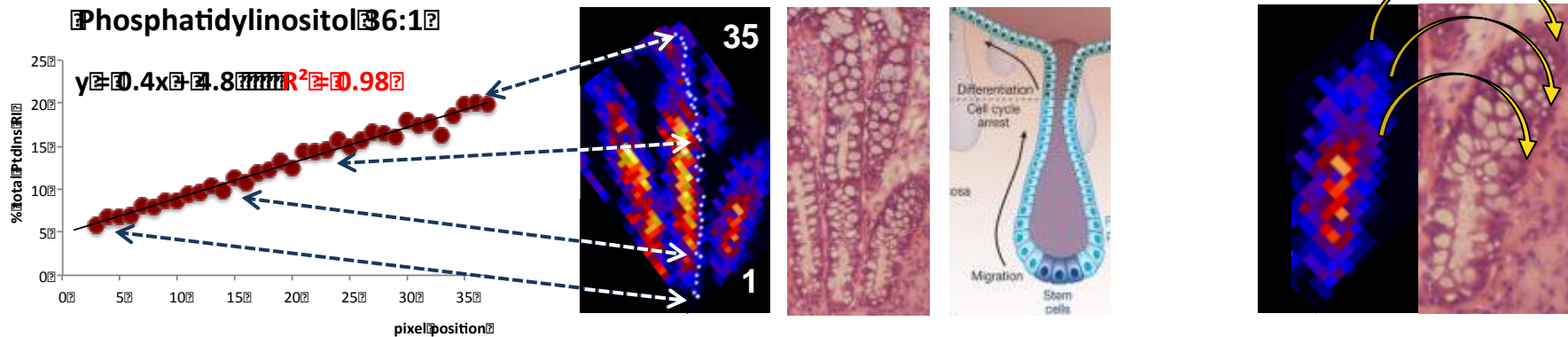
SC1-BHC-31-2019: Pilot actions to build the foundations of a human cell atlas

Keywords: single cell lipidome, isolation of human cells

Membrane lipid profile more than a "cell ID"...



... lipid content and cell differentiation are ***mathematically*** linked!



...indicating that membrane lipid profile is highly sensitive to ***any*** change in the cell, providing a very powerful tool to **identify biomarkers for diagnosis, prognosis and treatment monitoring (SC1-BHC-01-2019).**

* Analysis of tissue sections by MALDI-imaging are performed at 5-10 μm of spatial resolution reaching **single-cell resolution (SC1-BHC-31-2019).**



Contact details

Thank you!

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in collaboration with

