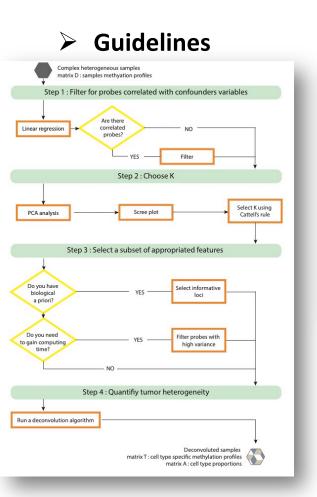
What about this afternoon?

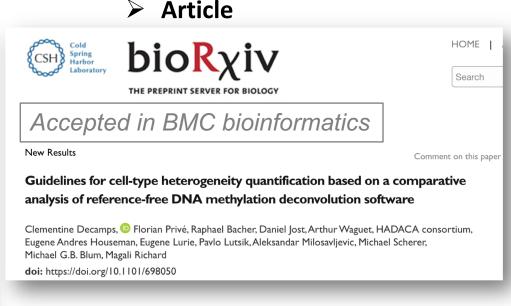
	TEAM #1, #2, #3, #4	TEAM #5, #6, #7, #8
2pm – 3pm	Pedagogy Room la scolette	Meeting report Mezzanine
3pm – 4pm	Meeting report Mezzanine	Pedagogy Room la scolette

BREAK

	???	???
4.30pm – 6pm	Brainstorming Biological interpretation Room la scolette	Brainstorming Benchmark dataset Mezzanine
6pm – 6.30pm	Restitution all together	Restitution all together

What came out of the first edition





https://rdrr.io/github/bcmuga/medepir/man/medepir-package.html
M Richard, C Decamps , F Privé, M Blum Blog posts



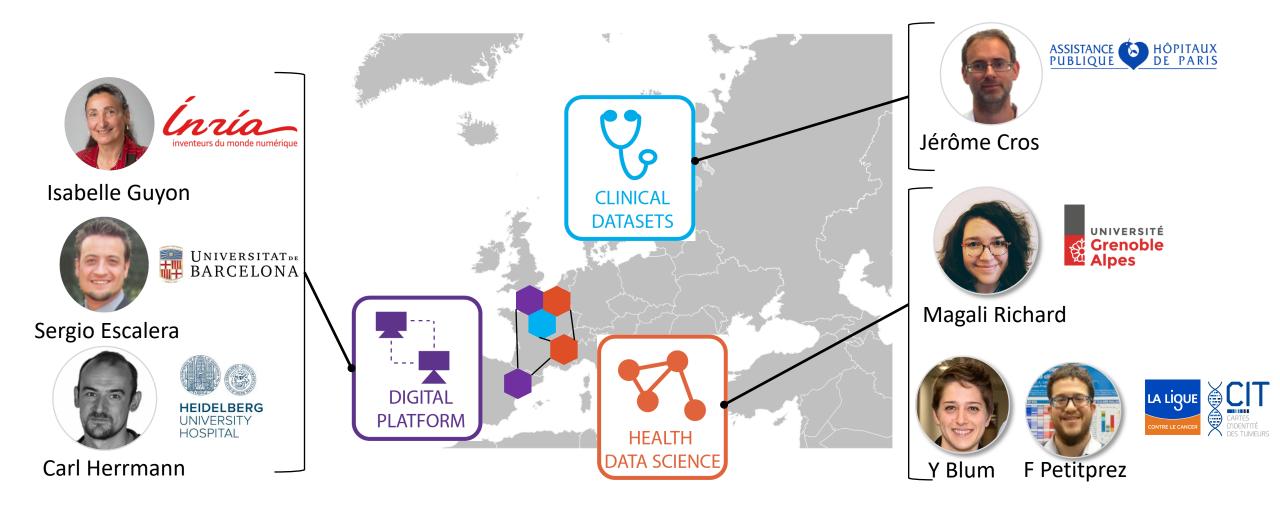
Health data challenges organization: feedback, comments and recommendations.

Authors: Elise Amblard, Yuna Blum, Jane Merlevede, Magali Richard *In preparation*

Collaborations

COMETH – COmputational METhods in Health *EIT Health call 2020* (600k€)

Health

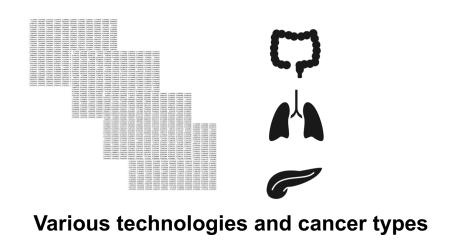


eit Health

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Unbiased evaluation of computational methods

Generation of high quality benchmarking datasets



Development of a dedicated benchmarking platform

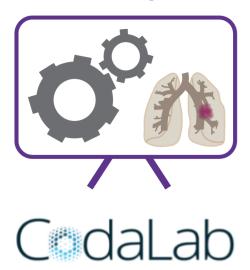


Fig1: Scheme of the benchmarking platform

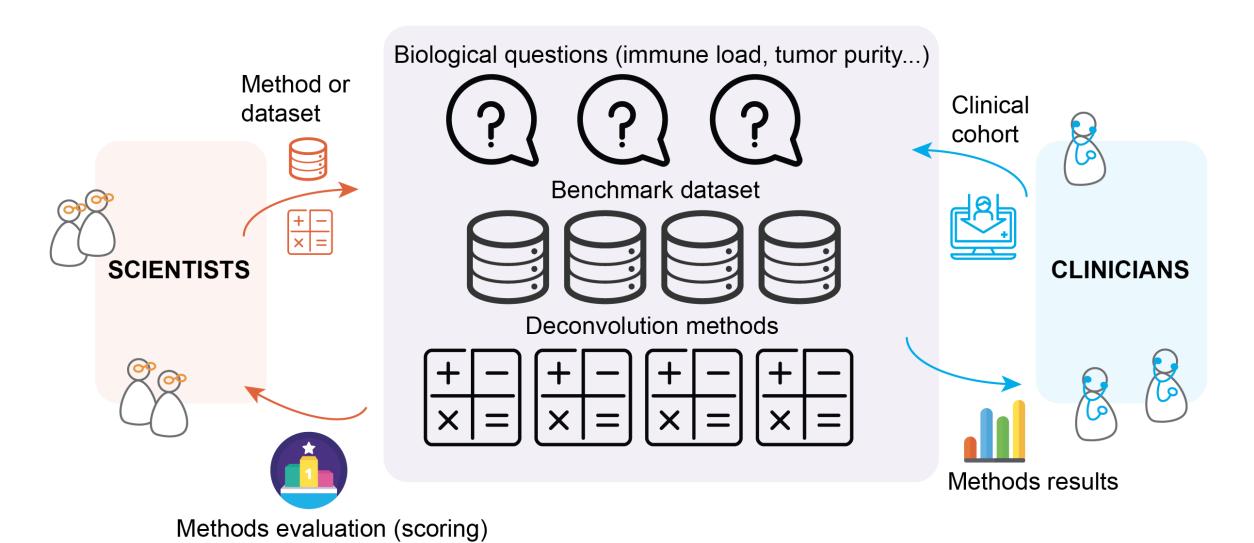


Fig2: Dataset. An example of pancreatic cancer dataset

What is the cellular composition of PDAC tumours?





Estimation of the error between estimated proportion matrix and true proportion matrix

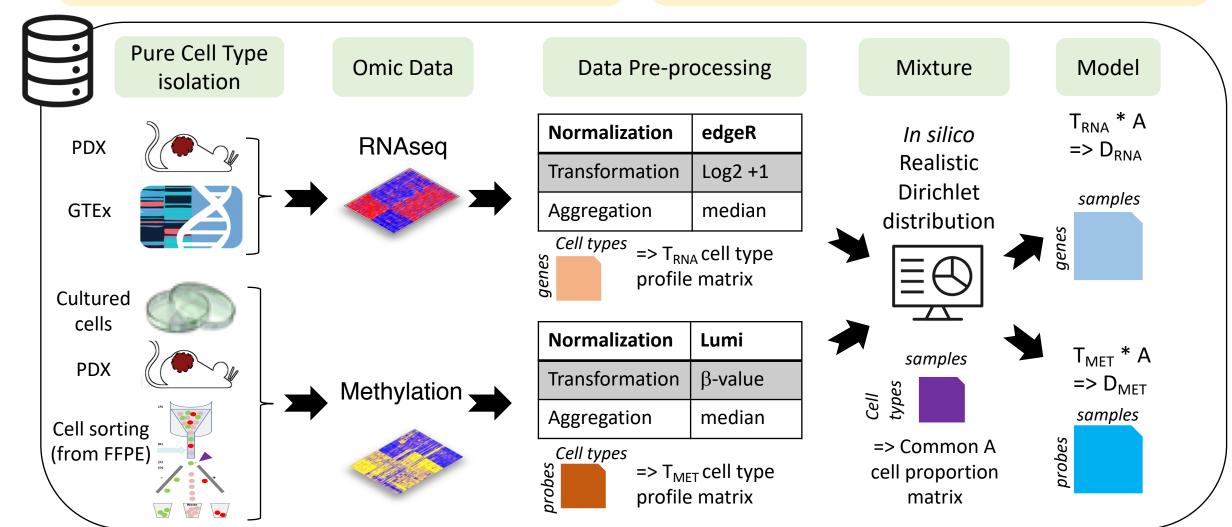


Fig3: Benchmark result (example)

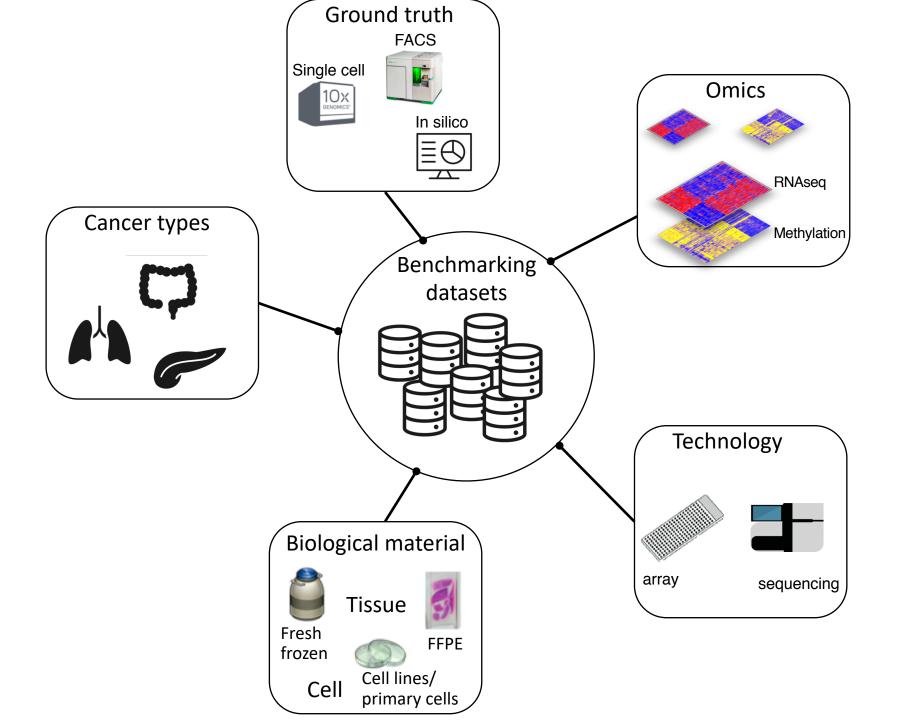


Fig5: Evaluation metrics

MAE error on estimated A (in silico simulations, FACS counting...)
RMSE error on estimated A (in silico simulations, FACS counting...)
Correlation with Immune Cell types (in silico simulations, FACS counting...)



BUDGET: Data generation

reflecting the diversity of samples clinicians may be confronted with

- Different cancer types
- Variety of sample types
- Different type of molecular data

• Innovative technologies

Molecular level

DNA methylation

HILOLOGIES					
J			3'RNA-seq	Single Cell RNAseq	MethEpic
Type of cancers	Type of Samples	Nb of samples	100€/sample	5.6K€/sample	600€/sample
Colorectal cancer	FFPE (archived)	30	35	38	25
	FF (Fresh/frozen)	5			33
Lung cancer	FFPE	30	35		35
	FF	5			
Pancreatic cancer	FFPE	30	35	3	35
	FF	5			
	3 purified cell types	40	120		120
			22500	17000	135000

Gene Expression







TOTAL ~170,000 €



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