

METABOLOMICS

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Clemens Anklen (Bruker USA): Clemens.Anklin@bruker.com

DATE: September 30; October 07, October 14, October 21 – 10pm – 12pm

Scope of the course:

Training on acquisition and exploitation of NMR spectroscopic data for metabolomics and foodomics studies, from sample to evidence.

Prerequisites:

- 1) knowledge of chemistry of biological molecules (structure and reactivity)
- 2) basic knowledge of NMR spectroscopy
- 3) basic skills in R programming platform (desirable)

Limit of attendees: up to 100. Overbook will be evaluated.

Program: 10 a.m (Sao Paulo time zone)

- 30th September 2021: a) Sample preparation (1 h, Francesco) b) NMR spectra acquisition (1 h, Clemens)
- 7th October 2021: a) NMR spectra acquisition (1 h, Clemens); b) FID processing (1 h, Francesco)
- 14th October 2021: a) Data preprocessing: spectra alignment, scaling and normalization (2 h, Francesco)
- 21st Data analysis and Interpretation (2h, Francesco)

References:

<https://onlinelibrary.wiley.com/doi/full/10.1002/mnfr.201800216>

https://link.springer.com/referenceworkentry/10.1007%2F978-3-319-28388-3_22

<https://www.sciencedirect.com/science/article/pii/S0165993614001046>

INFORMAÇÕES: administrativo@aremn.org