

Systems biology approaches applied in mass spectrometry imaging

Citation for published version (APA):

Scupakova, K. (2020). *Systems biology approaches applied in mass spectrometry imaging*. ProefschriftMaken. <https://doi.org/10.26481/dis.20201202ks>

Document status and date:

Published: 01/01/2020

DOI:

[10.26481/dis.20201202ks](https://doi.org/10.26481/dis.20201202ks)

Document Version:

Publisher's PDF, also known as Version of record

Please check the document version of this publication:

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Propositions accompanying the dissertation

Systems Biology approaches applied in Mass Spectrometry Imaging

By Klára Ščupáková

2nd December 2020

1. Spatial tissue context is essential for correct biological interpretation given the high cellular heterogeneity and the functional spatial arrangement of cells in most biological tissues. – This thesis
2. The most important steps in the near future is the agreement of the community as to how quality assessment, standardization and reproducibility of MALDI-MSI experiments are ensured to enable introduction of this technology into the clinical workflows. – This thesis
3. Systematic integration of different types of data is key to understanding complex cellular processes, their regulation and their coordination. – This thesis
4. Investments in advanced computational solutions for data processing, reduction and storage are desperately needed. – This thesis
5. The MSI community must continue to invest in familiarizing the broader scientific community with the MSI technology and educate them on the ample benefits of MSI. – This thesis
6. “Your assumptions are your windows on the world. Scrub them off every once in a while, or the light won't come in.” – Isaac Asimov
7. “Have no fear of perfection; you'll never reach it.” – Marie Curie
8. “Success is not final; failure is not fatal: It is the courage to continue that counts.” – Winston S. Churchill
9. “Life is like a piano. What you get out of it depends on how you play it.” – Tom Lehrer