



Measuring Neuropeptides

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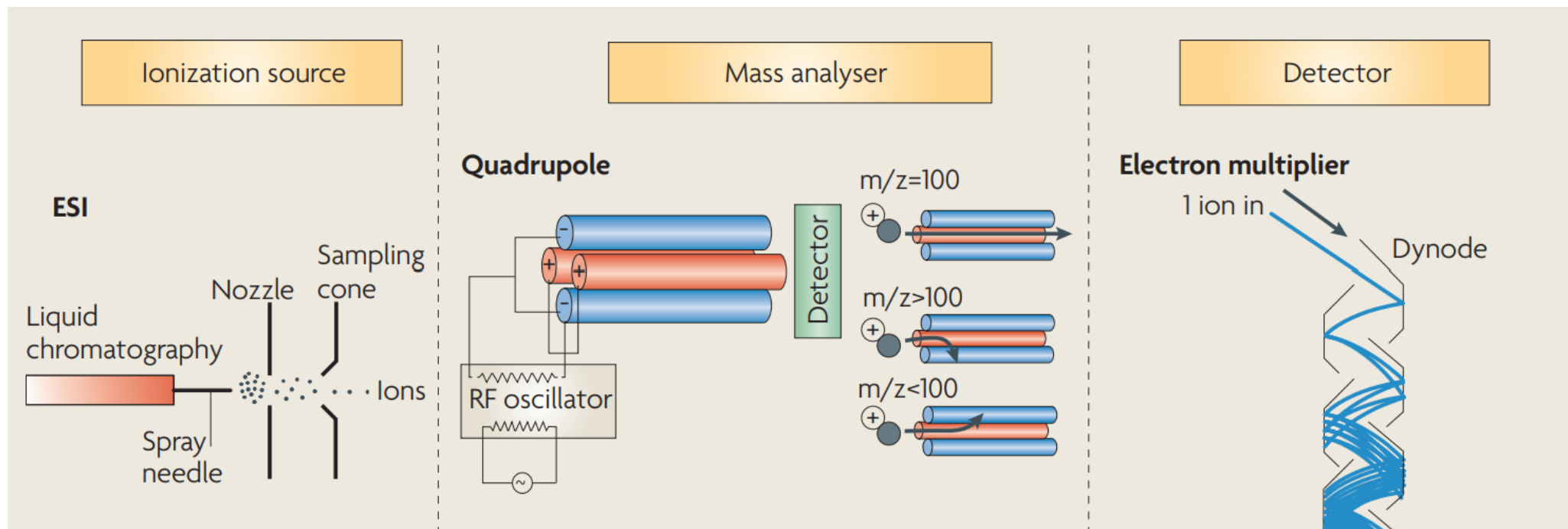
Neuropeptides

- Composed of amino acids; building blocks of protein.
- Cell-cell signaling molecules from protein prohormones; communication between cells
- Neuropeptides affect several physiological processes e.g., sleep, learning, mood, feeding, etc.
- Important in stress, injury and drug abuse.
- Mass Spectrometry; mostly used in peptidomics





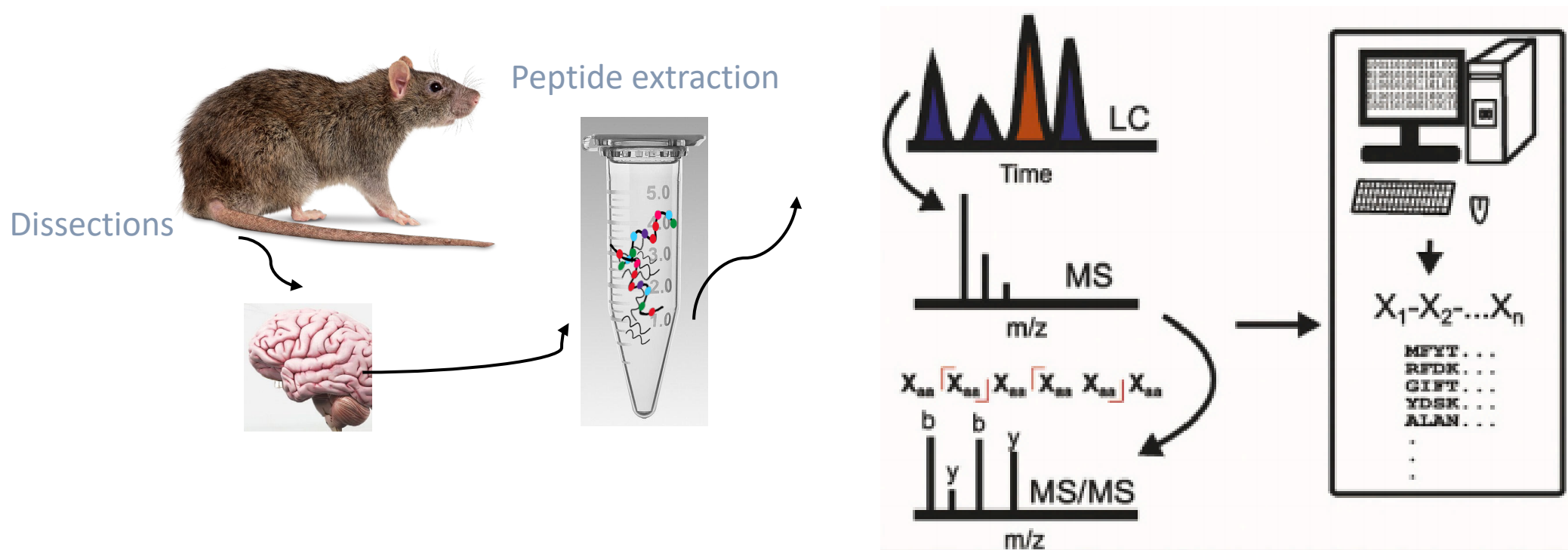
Inside an LC-MS



Bayés, Alex, *Nature Reviews Neuroscience*. 635-646



Mass spectrometry measurement of neuropeptides





Importance of Neuropeptide measurement

- Discover new cell- cell signaling molecules
- Disease biomarker identification
- Understanding cellular processes
- Drug discovery



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