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Modeling of liquid-liquid phase separation in biological systems

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- 1) Molecular dynamics simulations complement experimental techniques by providing useful insights on condensate systems as well as by elucidating their interplay with various subcellular compartments. (This thesis)
- 2) Although the Martini 3 model can represent many biological systems accurately, including several condensate systems, further optimization of the model is still needed. (This thesis)
- 3) Understanding the principles of biomolecular condensates is of great importance due to their involvement in various cellular functions and diseases, however, it is not a priority when building a synthetic cell.
- 4) As a researcher, there is a constant pressure to publish the most novel and successful results. However, publishing negative results can save time of other researchers, time that can be used to explore different and possibly better research paths.
- 5) Nowadays, platforms are created that support and inform women about the difficulties and inequalities they might face in their working environment. However, if we want to tackle these inequalities, men's awareness should be raised by encouraging them to participate in such platforms.
- 6) Admitting your lack of knowledge over a subject requires courage, but it can also lead to more constructive conversations.