

University of Groningen

Motility of active droplets in lipid systems

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DOI:
[10.33612/diss.245324359](https://doi.org/10.33612/diss.245324359)

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Document Version
Publisher's PDF, also known as Version of record

Publication date:
2022

[Link to publication in University of Groningen/UMCG research database](#)

Citation for published version (APA):
Babu, D. (2022). *Motility of active droplets in lipid systems*. [Thesis fully internal (DIV), University of Groningen]. University of Groningen. <https://doi.org/10.33612/diss.245324359>

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ACKNOWLEDGMENTS

I would like to start by thanking my supervisor **Prof. Nathalie Katsonis**, it's been more than five years since I joined the group, and I am truly grateful that I got the opportunity to do so. It is difficult for me to pen down everything you have taught me, but working with you over these years has made me the researcher I am today. I admire your dedication and resolution to accomplish the scientific pursuits that inspire you. I thank you for all the support and guidance over these years and for the freedom I had to always discuss and explore ideas with you.

I would also like to thank **Prof. Wesley Browne** for agreeing to be my second supervisor in the latter half of my Ph.D. when we moved to Groningen and for supporting me in getting through the last and crucial steps of handing in the thesis and obtaining a defense date. I am grateful to the assessment committee members: **Prof. Ben Feringa**, **Prof. Jan van Hest** from the Eindhoven University of Technology, **Prof. Giovanni Pavan** from Politecnico di Torino, **Prof. Séverine Le Gac** from the University of Twente, **Prof. Tibor Kudernac** and **Prof. Sijbren Otto** for agreeing to be part of my defense committee and for taking the time and effort to go through my thesis. It is truly an honor and privilege to have the opportunity to discuss my thesis with you during the defense. **Prof. Tibor Kudernac**, I would like to thank you for your time discussing and providing suggestions over the last few years. I admire your ability to always put forward a fresh scientific perspective on any challenge.

To all my colleagues and friends in the Katsonis group: Karina, Hasnaa, Manee, Paula, Chanikan, and Beatricea - thank you for the camaraderie and for your willingness always to help each other. **Alexander**, your constant backing in the last five years, from discussing scientific curiosities to performing challenging experiments in the lab, has been a tremendous support. I have learned so much from you; this thesis wouldn't be the same without you. Your love for science is truly inspiring. **Federico**, your creativity in exploring scientific ideas inspired me a great deal in the first years of my Ph.D. and played an important part in my learning. It was an immense pleasure to work with you, and thank you for being kind and reassuring when I needed it the most. **Rémi**, I had the freedom to come to you at any time with any organic chemistry

questions, and this made me a lot less stressed during the early years of my Ph.D. I will forever be thankful for that. Your presence, from scientific help to laughter in the lab and outside, has made the years more memorable. Thank you for being my paranymp. **Manee**, my second paranymp, your ability to stay calm through everything is admirable! I am so happy I got to work and spend time with you these past four years. **Hasnaa**, we have shared so many memorable moments over the years, thank you for everything. And for helping me with the cover picture; I couldn't have done it without you. **Jacopo**, spending time with you at work and outside was a lot of fun; thank you for making the long train journeys tolerable. **Paula**, talking to you is always easy, and I am so happy that we got to be office mates and friends.

I want to thank the friends I made at the University of Twente: **Jenny**, for always being a bundle of positivity; **Luca**, for being the idealistic person you are and reinforcing my belief in things when needed. **Muhabbat**, it is not every day that one makes a friend like you. Thank you for being the amazing kind-hearted person you are and for always being a text message away. Thank you also for helping me with the samenvatting.

Deepak, it's strange to talk to you through my thesis, so I will keep it short. Thank you for always making me laugh, always being my champion and best friend and making life extraordinary every day. **Ammu**, thank you for showing me how incredibly amazing it is to have a sister. **Acha** and **Amma**, this is a result of the years of unconditional encouragement and love you have shown me. You have always believed in my convictions and have done everything within your reach and beyond to help me realize them. I am lucky to have you.

List of publications

- Babu, D., Katsonis, N., Lancia, F., Plamont, R. & Ryabchun, A. Motile behavior of droplets in lipid systems. *Nat Rev Chem* **6**, 377–388 (2022).
- Ryabchun, A., Babu, D., Movilli, J., Plamont, R., Stuart, M.C.A, and Katsonis, N. Run-and-halt behavior of motile droplets in response to light. *Chem* **8**, 2290-2300 (2022).
- Babu, D., & Katsonis, N. Light moves artificial cilia to a complex beat. *Nature* **605**, 37-38 (2022).
- Babu, D., Scanes, R.J.H., Plamont, R., Ryabchun, A., Lancia, F., Kudernac, T., Fletcher, S.P and Katsonis, N. Acceleration of lipid reproduction by emergence of microscopic motion. *Nat Commun* **12**, 2959 (2021).

Conferences

- Functional Molecular Systems Annual Meeting, Zwolle, NL (2022). Morphogenesis of synthetic dendritic structures (talk).
- CHAINS Chemistry as Innovating Science, Veldhoven, NL (2021). Run-and-halt behavior of motile droplets (talk).
- 2nd International Conference on Molecular Systems Engineering, Nijmegen, NL (2019). Protocells propelled by self-replicating lipids (talk).
- CHAINS Chemistry as Innovating Science, Veldhoven, NL (2019). Emerging motility in a self-reproducing system (talk).
- Gordon Research Conference - Self-assembly and Supramolecular Chemistry, Les Diablerets, Switzerland (2019). Protocells propelled by self-replicating lipids: a case of mutualism in motion and reproduction (poster).
- "Building and Probing Small" Symposium. Brussels, Belgium (2019). Mutualism between autocatalysis and protocell motion (poster).
- 27th International Liquid Crystal Conference, Kyoto, Japan (2018). Photo-controllable topological structures in cholesteric liquid crystal shells (talk).