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Microorganism Growth Variability in Droplets Jérôme Bibette

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We have developed new approaches based on water-in-oil droplet and semi permeable capsules, to explore large libraries of confined microorganisms or cells. We are able to follow the growth of each individual culture (up to millions in parallel) over hours and up to month; each culture is encapsulated and can grow from one individual. From these data we can explore the diversity of arising phenotypes and particularly how this diversity varies with a given selection pressure.