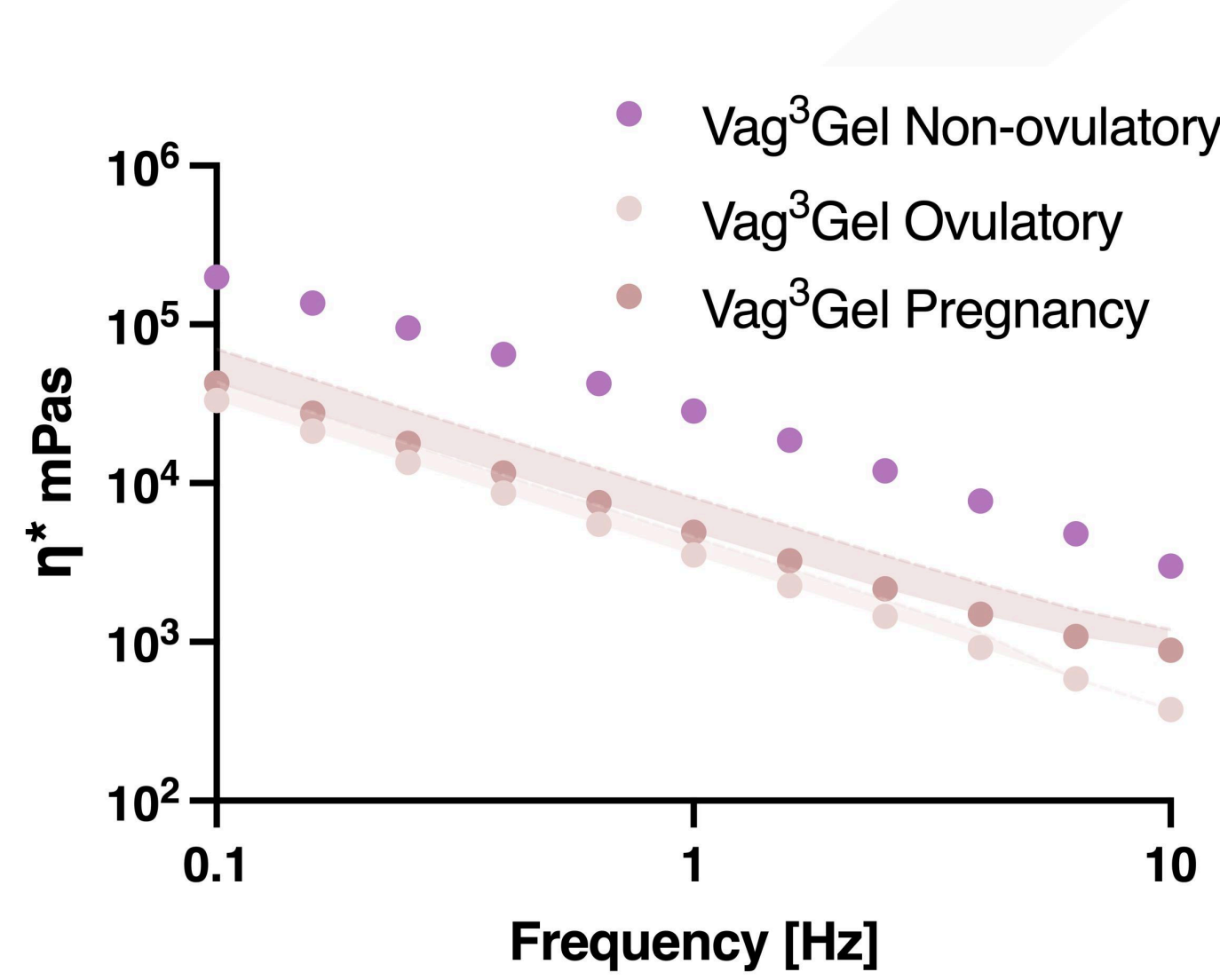


Vag³Gel is a cutting-edge 3D in vitro model of the cervicovaginal mucus layer that enables the representative study of vaginal microbiota dynamics under diverse physiological conditions.

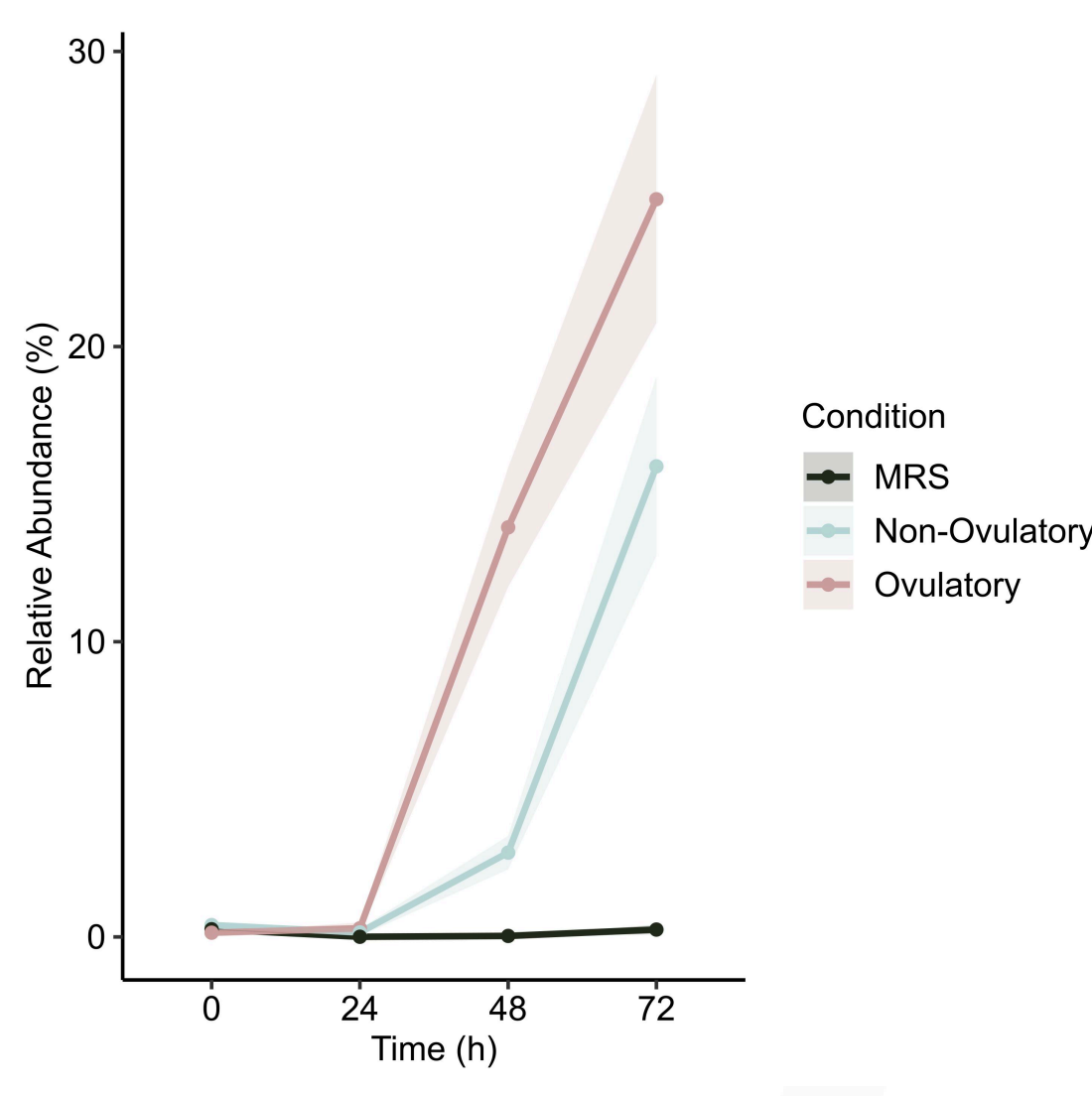


Key Features

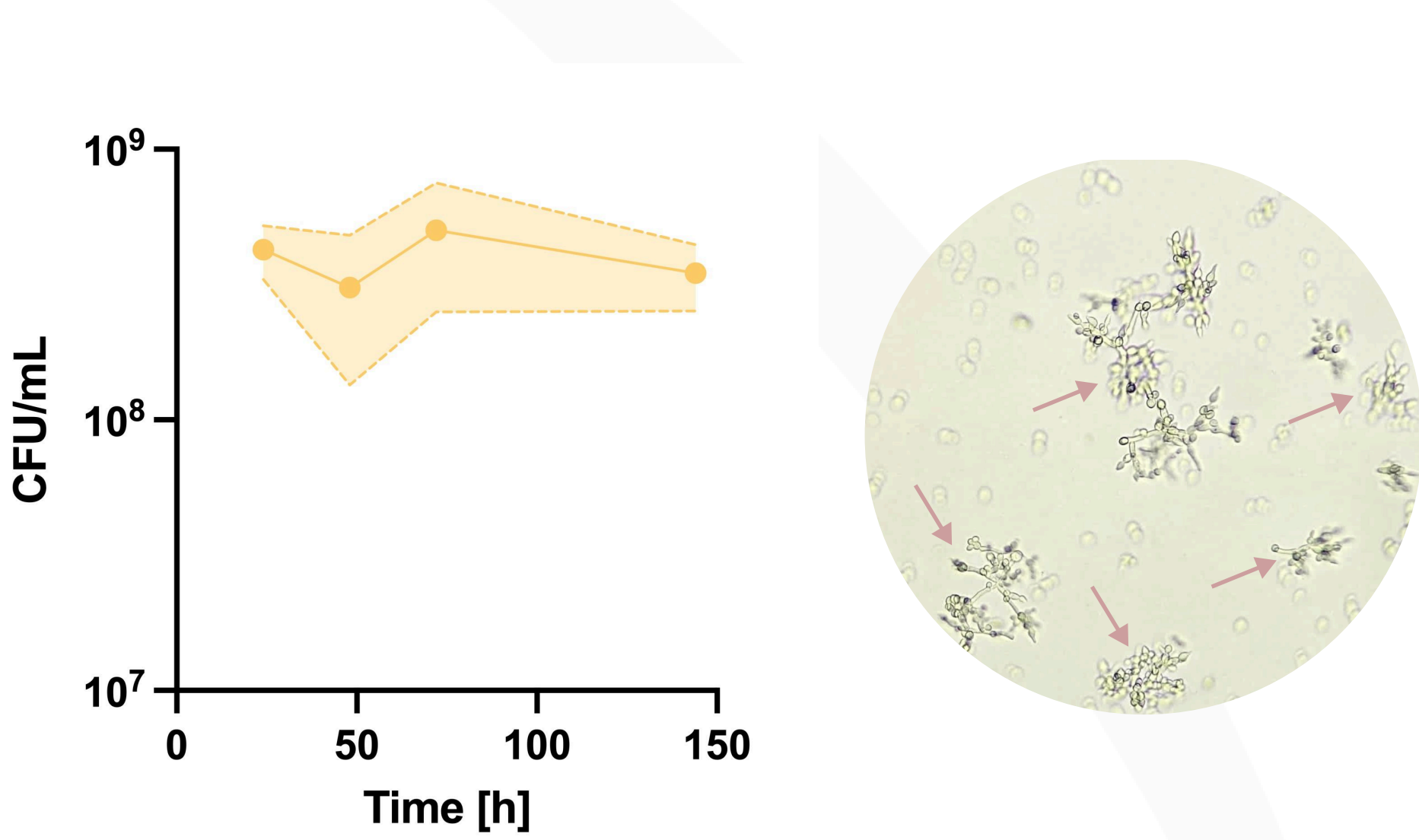
- **Physiologically Relevant:** Replicates cervicovaginal mucus properties, as pH, nutrient content, and viscoelasticity.
- **Condition-Specific:** Available in ovulatory and pregnancy-like formulations.
- **Microbiota-Friendly:** Supports growth of key species (e.g., *Lactobacilli*, *Gardnerella*, *Prevotella*).
- **Lab-Compatible:** Ready for standard equipment and high-throughput setups.



Tailorable viscoelastic properties according to hormonal state.

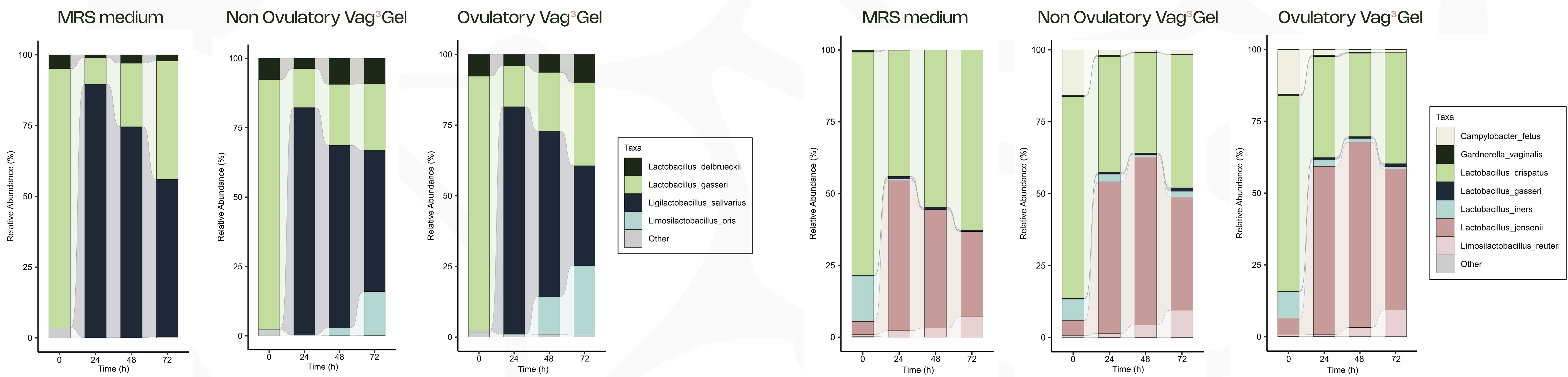


Growth of potential probiotics for cervicovaginal microbiota modulation.



Formation of pseudohyphae by *C. albicans* in Vag³Gel after 24 hour of incubation.

Growing Lower vs. Higher Diversity Cervicovaginal Microbiota



Growth of *Limosilactobacillus oris* only occurs in Vag³Gel, which also displays a higher abundance of *Lactobacillus delbrueckii* in comparison with MRS.

Growth of *Lactobacillus iners* only occurs in Vag³Gel, in which also *Gardnerella vaginalis* is present up to 72 h.

Applications

- Evaluation of antimicrobial agents, probiotics, prebiotics, and live biotherapeutics.
- Investigation of hormonal influences on vaginal microbiota.
- Development of personalised therapies for conditions like bacterial vaginosis.

Interested in knowing more about Vag³Gel? Contact us at contact@bac3gel.com or visit www.bac3gel.com