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In vitro assessment of *P. freudenreichii* adaptation to caecal environment

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► **To cite this version:**

Houem Rabah, Floriane Gaucher, Fillipe Luiz Rosa Do Carmo, Marie-Bernadette Maillard, Gwénaél Jan. In vitro assessment of *P. freudenreichii* adaptation to caecal environment. 14.congrès national de la Société Française de Microbiologie (SFM), Oct 2018, Paris, France. , 2018. hal-01894844

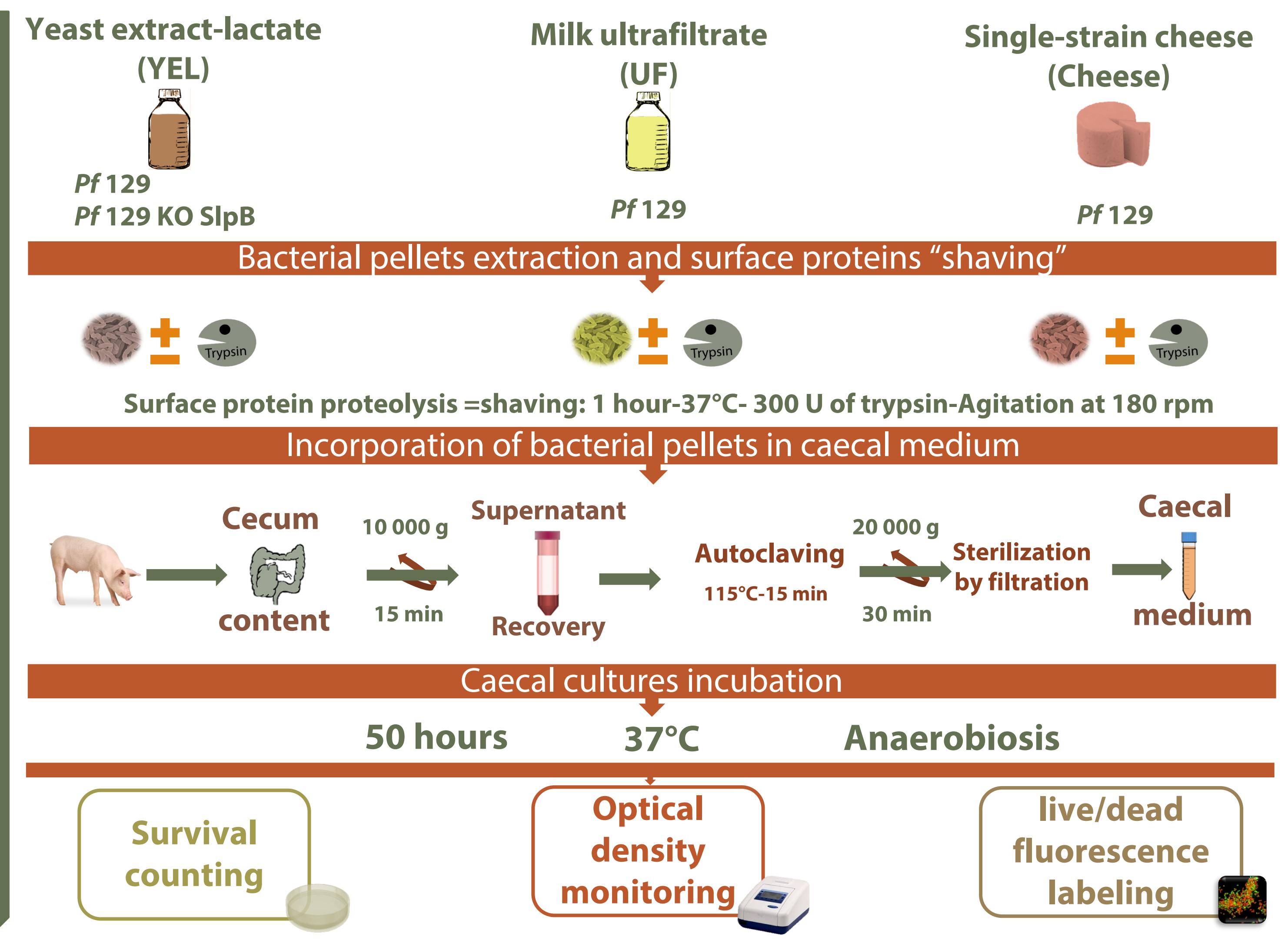
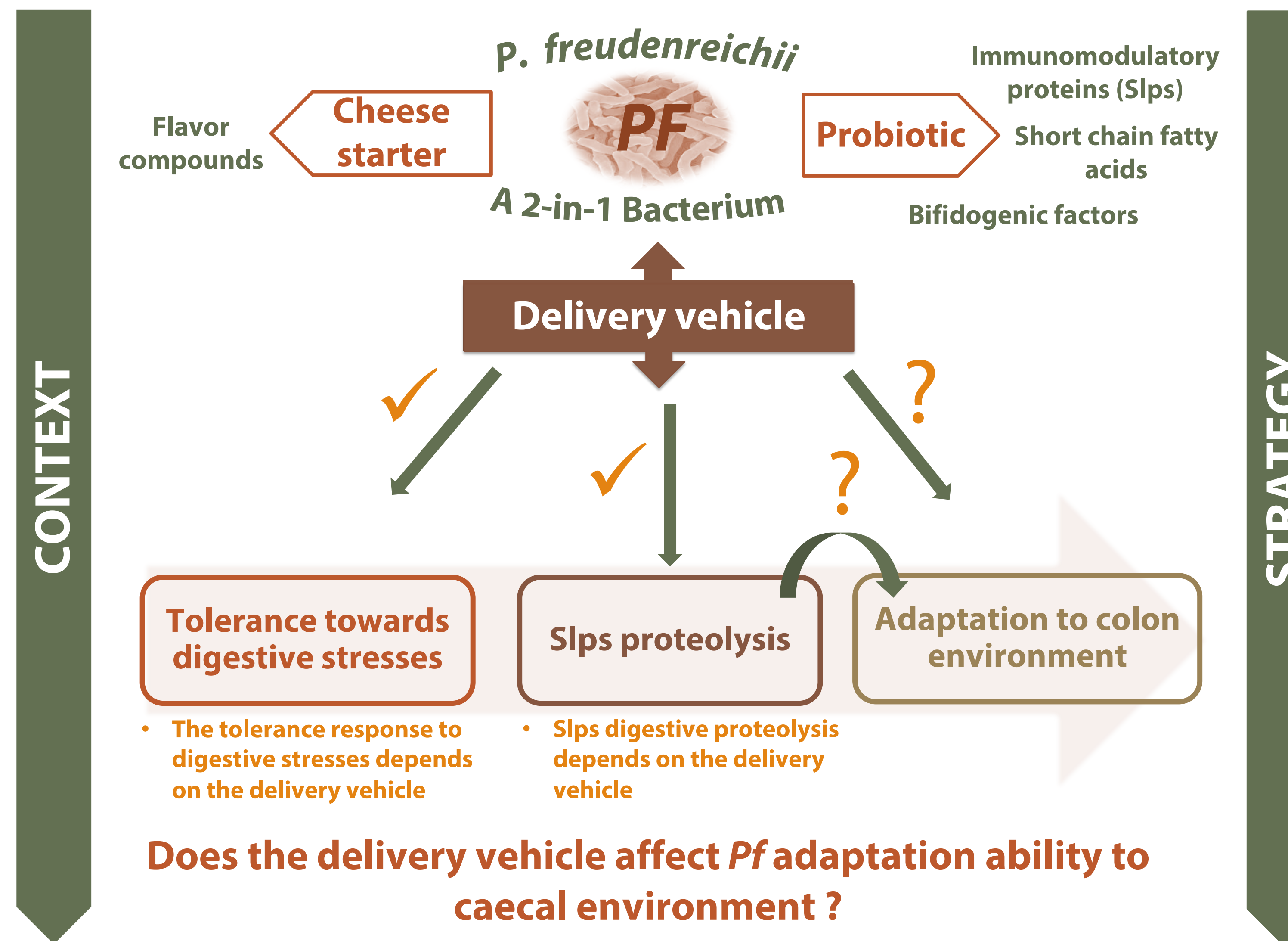
HAL Id: hal-01894844

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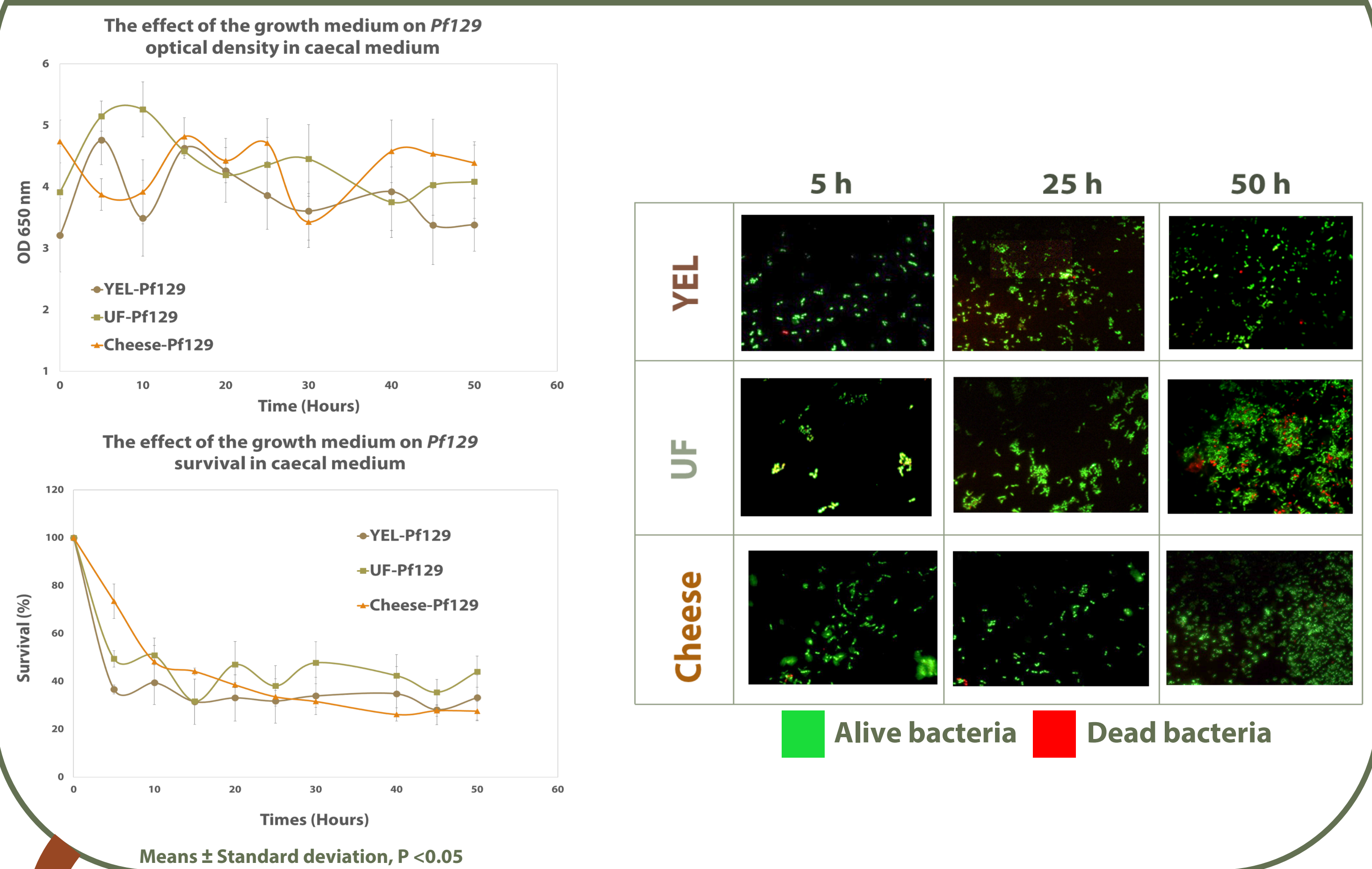
Submitted on 12 Oct 2018

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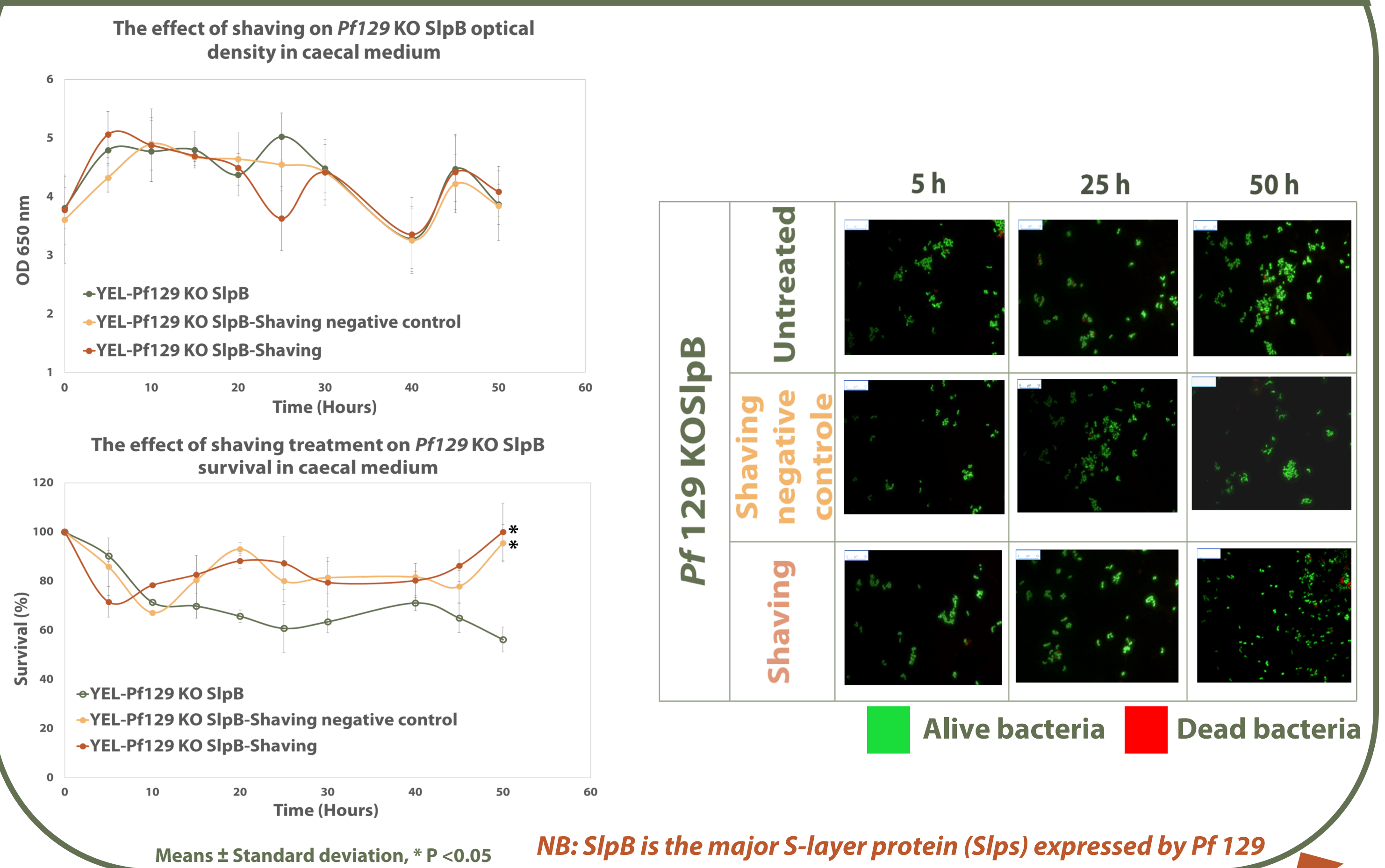
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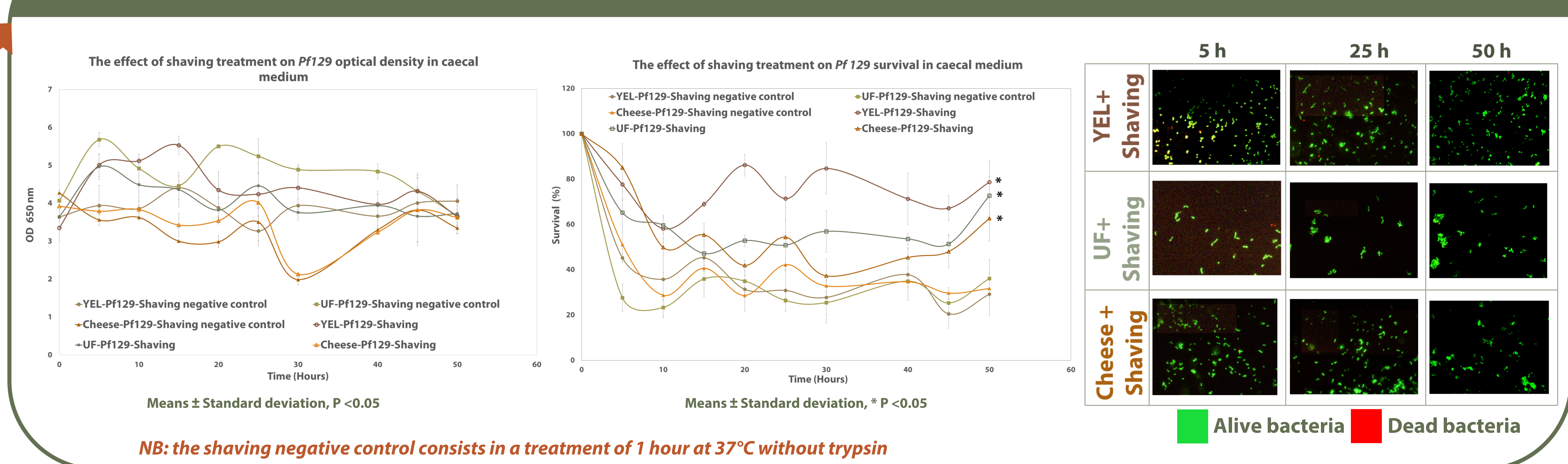
***Pf* 129 uses a viable but nonculturable state to adapt to caecal environment, whatever the growth medium of *Pf* 129**



The mutation of SlpB does not change *Pf* 129 culturable state but shaving treatment enhances also *Pf* KO SlpB culturable state



Shaving treatment enhances *Pf* 129 culturable state in caecal medium, whatever the growth medium of *Pf* 129



The surface proteins proteolysis enhances *Pf* 129 culturable state and so may be its metabolic activity in caecal medium. The Slps proteins seem to be not involved directly in *Pf* 129 adaptation to caecal environment.

=> A comparative proteomic analysis will address the molecular mechanisms involved in an enhanced culturable state of shaved bacteria.