

Site Massy

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BUGARIN CASTILLO Yurixy

Doctorante

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Début du projet : 2020

ABOUT ME

Creative and self-motivated Ph.D student eager to acquire new knowledge and experiences to improve nutrition through different food habits and products.



Team IHAC

« Interactions Homme – Aliment pour la Conception »

Supervisors : M. Ramaioli and V. Mathieu

Key words

Dysphagia, *in vitro*, personalized food, healthy swallow

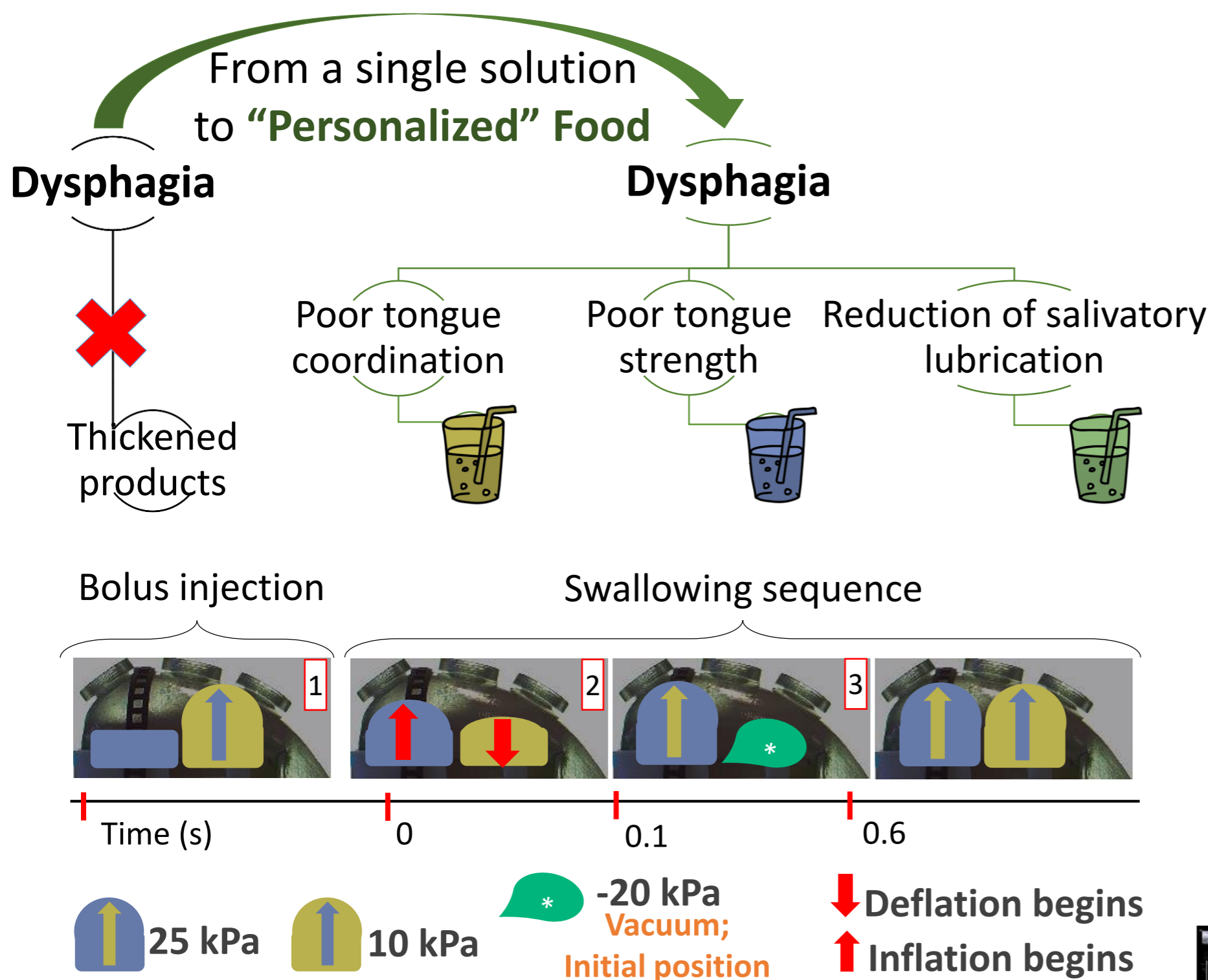
Realistic *in vitro* model of swallowing to develop pleasurable and safe personalized food for specific swallowing disorders

Graphical abstract

Objectives

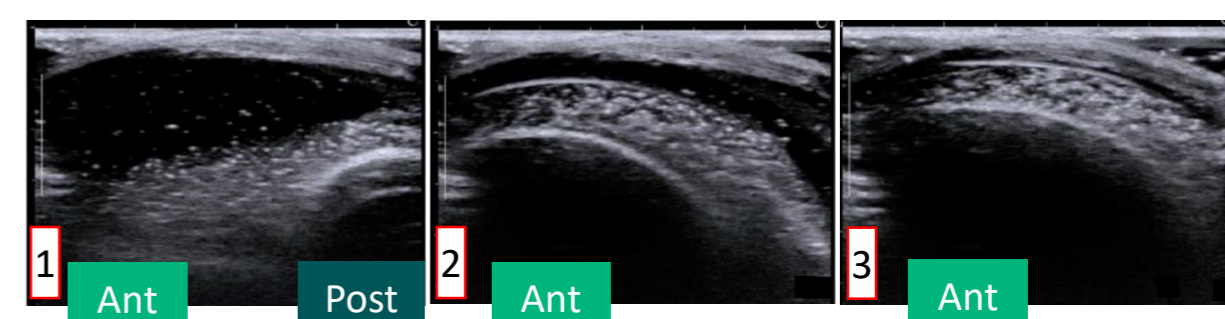
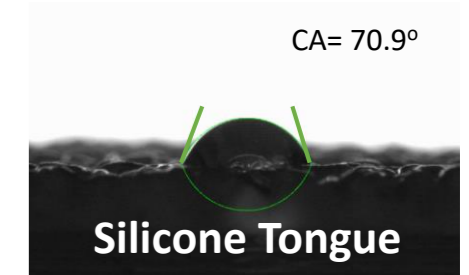
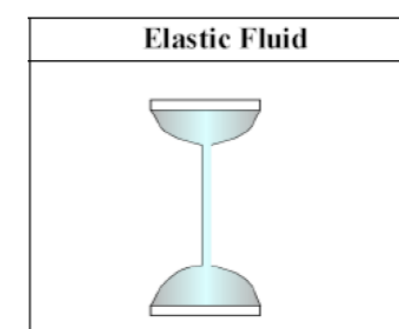
In 2050, 21.5% of the world population will be over 60 years old

- In vitro simulation of healthy swallowing conditions
- In vitro simulation of specific swallowing disorders
- Formulation of personalized food by adapting bolus rheology to each cause of dysphagia



Techniques

- Extensional Rheology
- Contact Angle
- Ultrasound
- Soft robotics



Developing age-friendly products to foster safety swallowing is urgent.

Financers & Collaborators

