

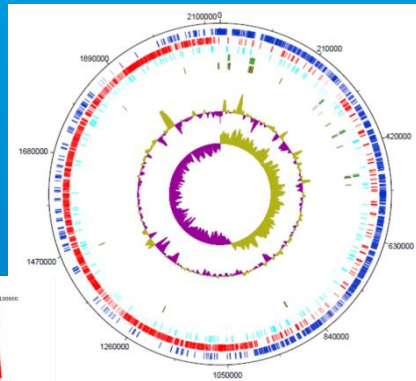
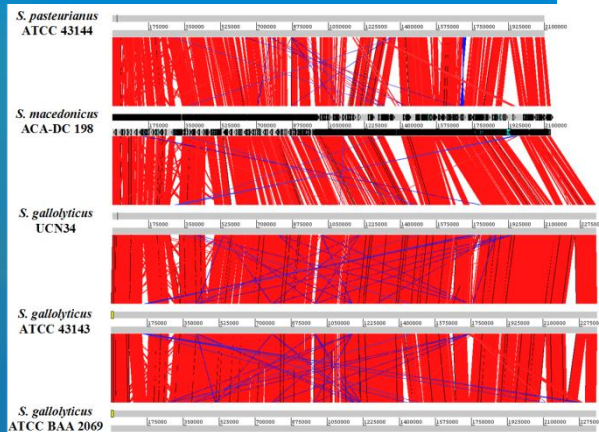
**Research interests of Dr Konstantinos Papadimitriou**  
**Research associate**

**Laboratory of Dairy Research**  
**Department of Food Science and Human Nutrition**  
**Agricultural University of Athens**

**2014**

# Research topic 1: Physiology, genetics and genomics of lactic acid bacteria

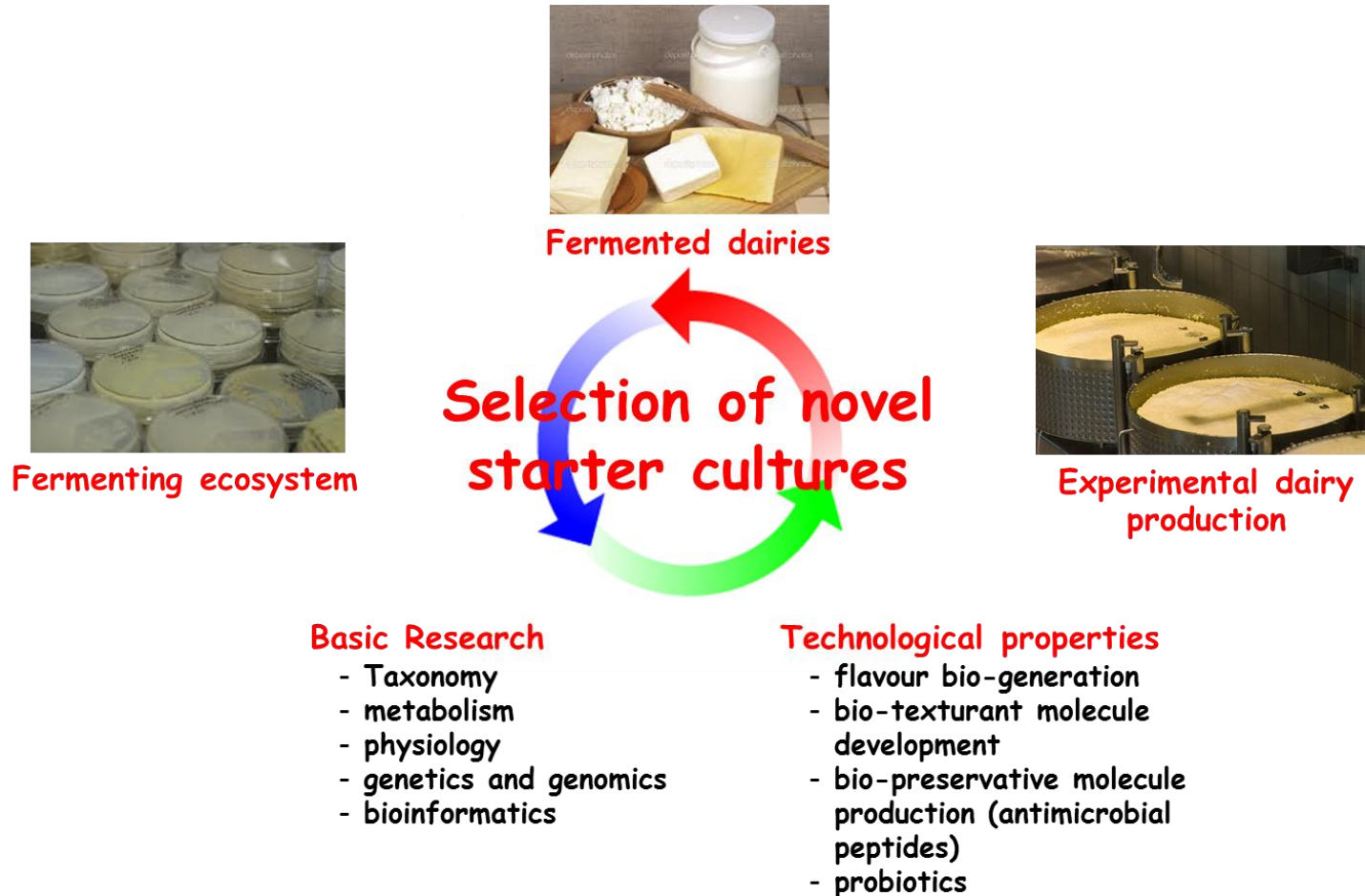
- Lactic acid bacteria are involved in food fermentations as starter cultures. Understanding their biology is of outmost importance for high quality fermented foods
- Lactic acid bacteria exhibit sometimes important health-promoting probiotic properties



fermentation by  
lactic acid bacteria

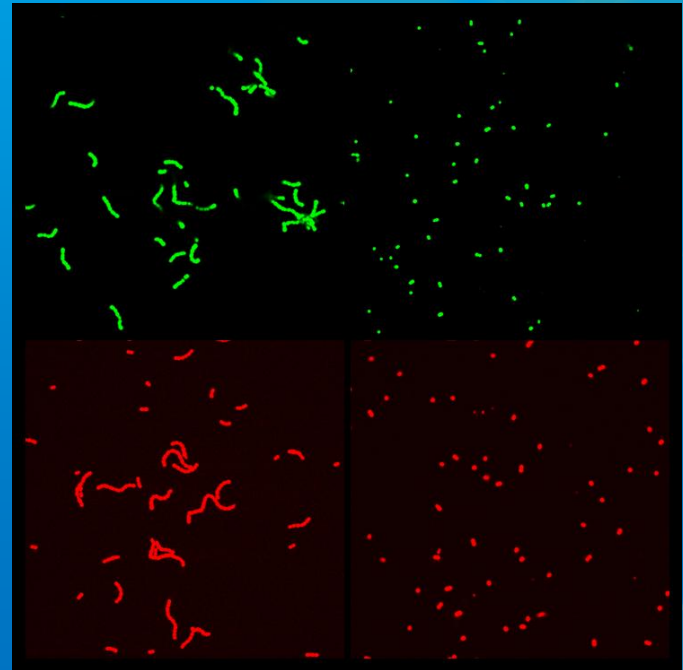
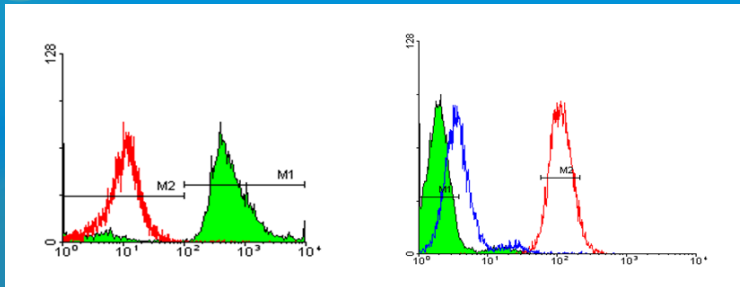


# Research topic 1: Screening for novel starters and probiotics



## Research topic 2: Single cell microbiology

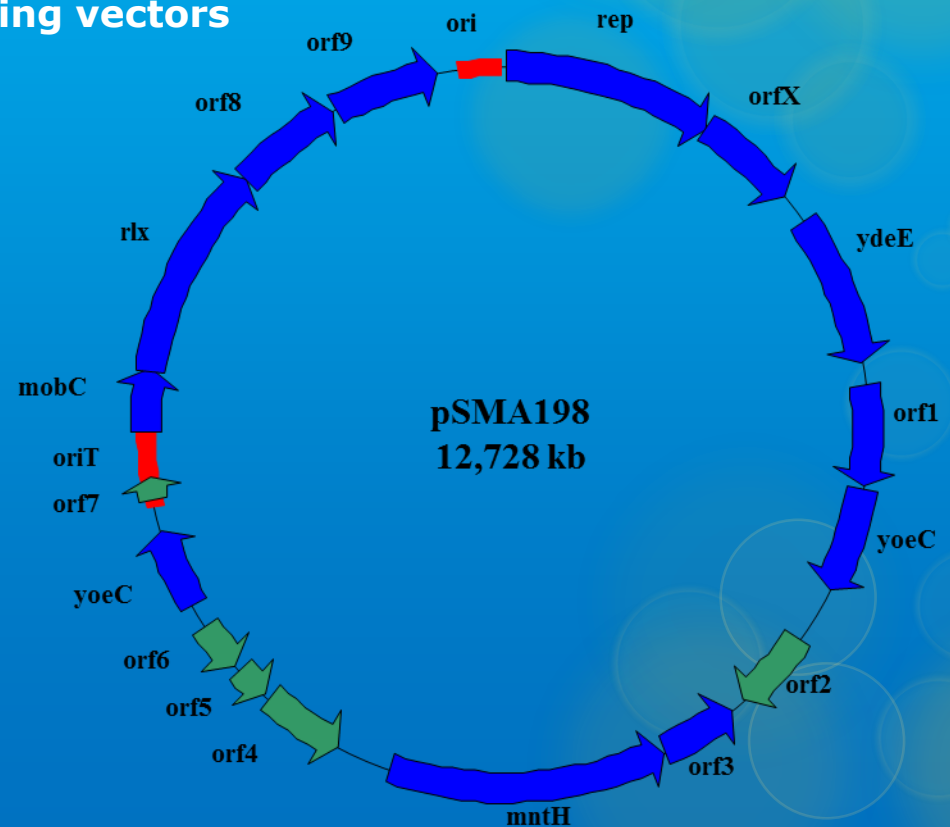
- **Flow cytometry coupled with fluorescence probes is a powerful tool to analyze microbial populations at the single cell level**





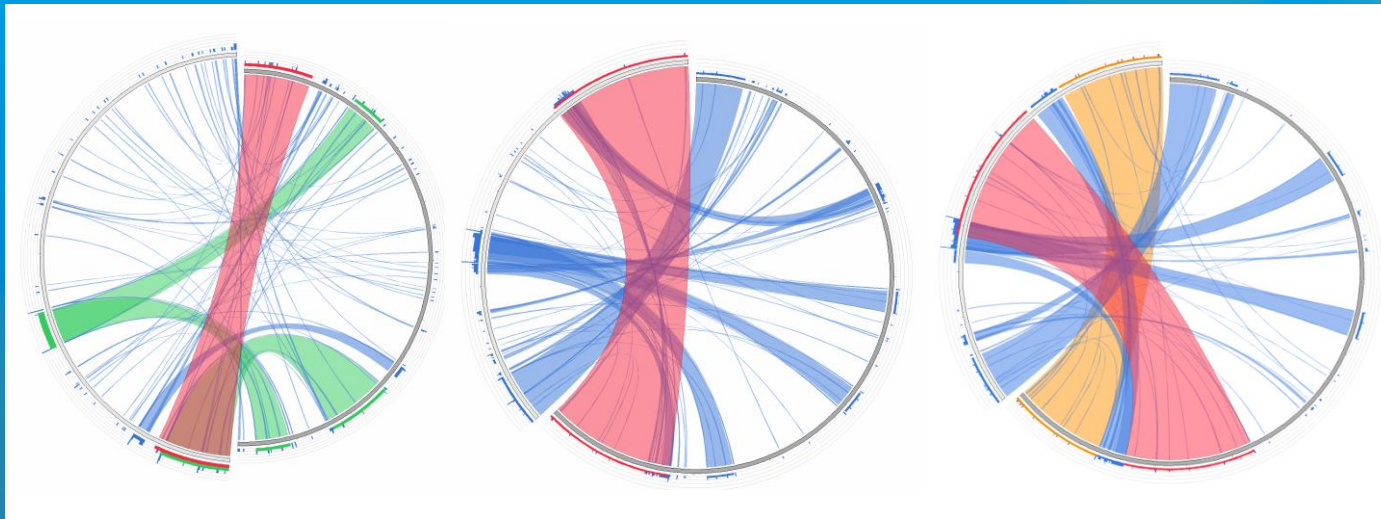
## Research topic 3: Plasmid biology

- Plasmids are extra-chromosomal genetic elements
- Plasmids of lactic acid bacteria often carry important technological properties
- Plasmids can be used to create cloning vectors



## Research topic 4: Applied Bioinformatics

- **Application of specialized bioinformatics tools for genome analysis and annotation, as well as comparative and evolutionary genomics**



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