

 $\underline{\text{M. Senti\'c}^{a,b}}, \text{F. Rizzoto}^{a}, \text{Z. Novakovi\'c}^{c}, \text{A. Karaji\'c}^{d}, \text{B. Heddi}^{e} \text{ and J. Vidi\'c}^{a}$

Micalis

^a Université Paris-Saclay, INRAE, AgroParisTech, Micalis Institute, Jouy en Josas, France
^b University of Belgrade, Institute of Chemistry, Technology and Metallurgy, National Institute of the Republic of Serbia, Belgrade, Serbia

^o University of Novi Sad, BioSense Institute, 21000 Novi Sad, Serbia

^dDepartment of Electrical and Computer Engineering, Tufts University, Medford, MA 02155, USA.

*Laboratoire de Biologie et de Pharmacologie Appliquée, CNRS UMR8113, École Normale Supérieure

Paris-Saclay, Gif sur Yvette, France

INTRODUCTION

Among food contaminating agents, Bacillus cereus, a Gram-acetive spore-forming bacteria, poses serious problems for both consumers and food industry!

It is the primary microbe associated with bably food third agent responsible for collective foodborne outbreaks in Europe and third leading foodborne
pathogen in China1. The most dangerous spocies of the B, citerys group is Bacillus anthracis, the delotigic agent of anthrax, which causes a highly lethal
disease in both humans and animals. Aptamers selected against B, cereus spores can be integrated into diagnostic aptasensors that function without the
need for spore germination or plays. Therefore, we expecutate, here had using a combination of aptamers that recognize by cress spores will allow drageting
multiple epitopes at their surface, which will provide an enhance disprost cleanstwity. For this, we tested three different aptamers already characterized for
their brinding to spores of various B. cereus strains, including B. antimaces named BASRR in saides sample.

