



International Conférence on Food, Nutrition and Agriculture



Assessment of the antipeudomonal activity of three essential oils using flow cytometry approach

*A dissertation presented by
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Research interest and problems



Vegetal Matrix

Moussi et al., 2015

Americas, and Africa (Slikkerveer, 2006). North Africa has one of the oldest and richest traditions associated with the use of medicinal plants (Batanouny et al., 2005), where Herodotus (430 B.C) wrote that medicine in Egypt is practiced among them on a plan of separation, by using an infinite number of drugs from medicinal plants (Rawlinson and Blakeney, 1910). Farther, North Africa is known for its illustrious savant king Juba II of Libya (Mauritania), who died about the year 20 AD, leaving at least a dozen scientific works. One of his most esteemed treaties is that which Pliny and Galen attributed the title "Deherba euphorbia,; it is the variety of



Research interest and problems

Are Food Animals Responsible for Transfer of Antimicrobial-Resistant Escherichia coli or Their Resistance Determinants to Human Populations ?

A Systematic Review

Dishon Muloi, Melissa, J. Ward, Amy B. Pedersen, Eric M. Fevre, Mark E.J Woolhouse, and Bram A. D van Bunnik

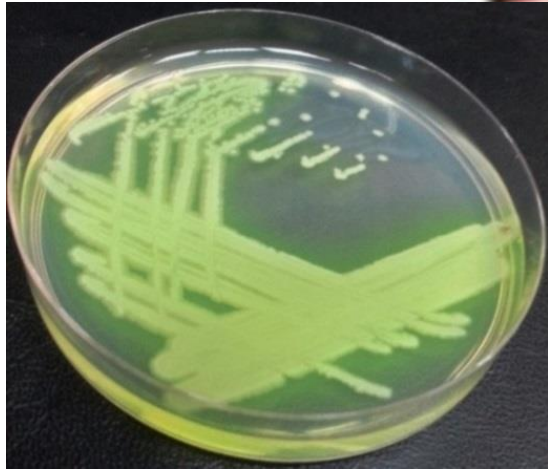


Results show that eight studies (18%) suggested evidence of transmission of AMR **from food animals to humans**, 25 studies (56%) suggested **transmission between animals and humans**

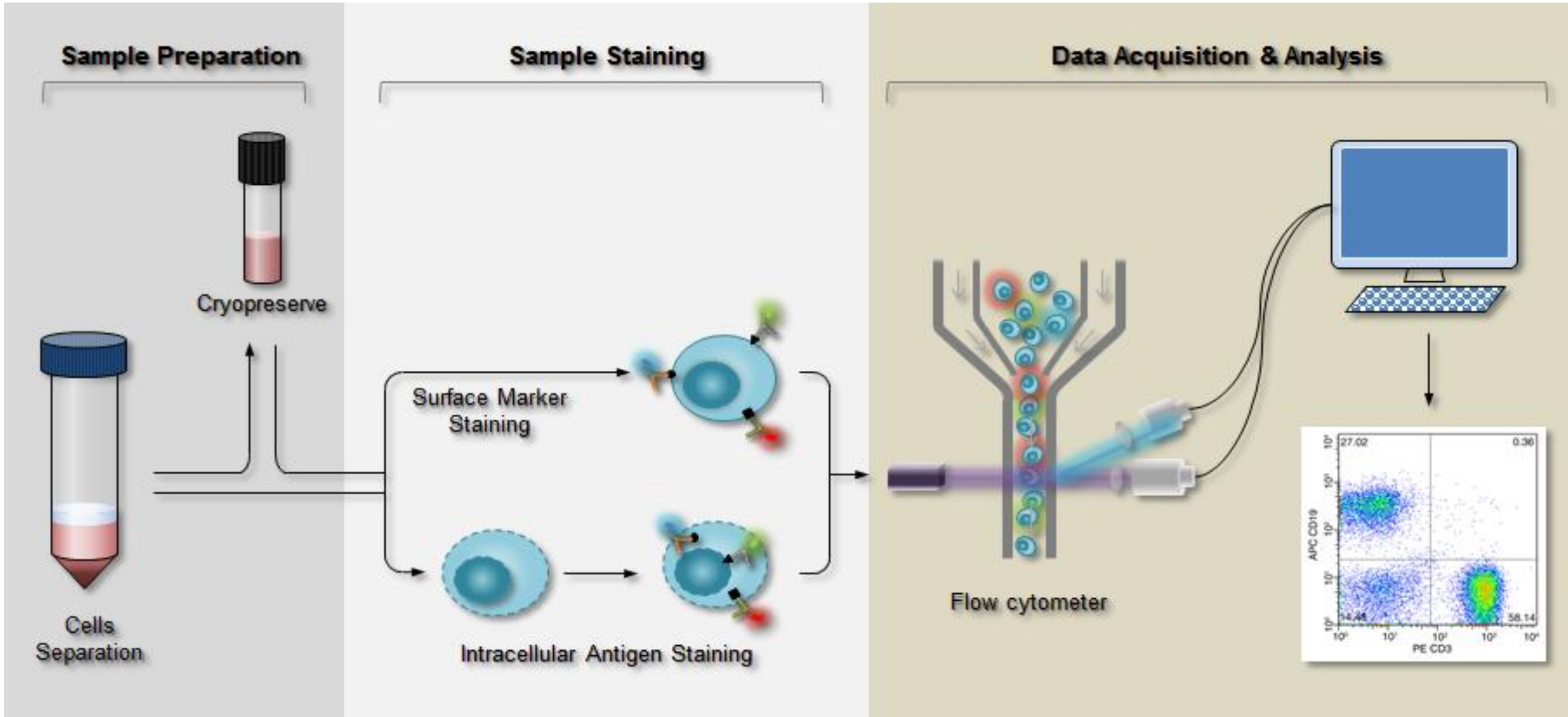
Specific Objective 1: Valorisation of algerian *plants*



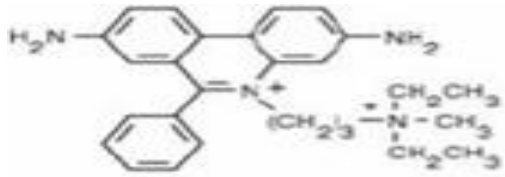
Evaluation of the antibacterial activity



Flow cytometry analysis

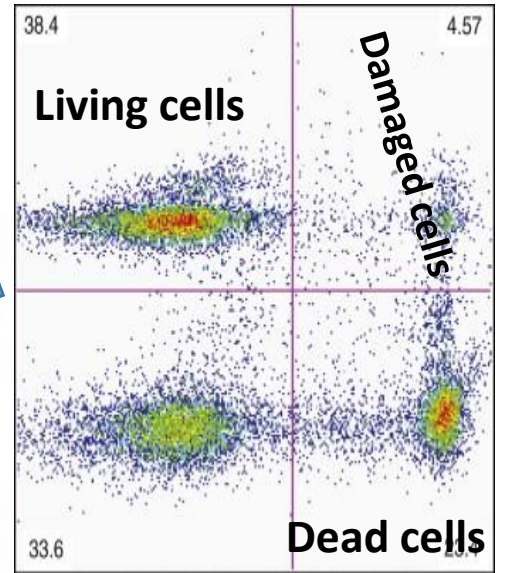
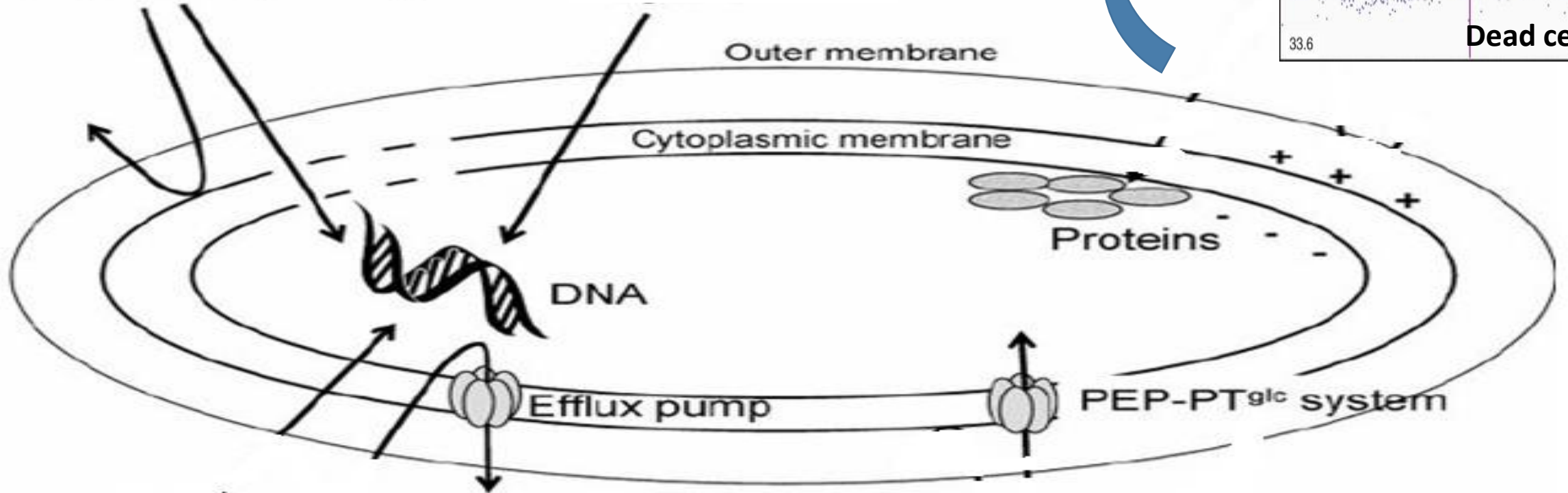


Flow cytometry analysis



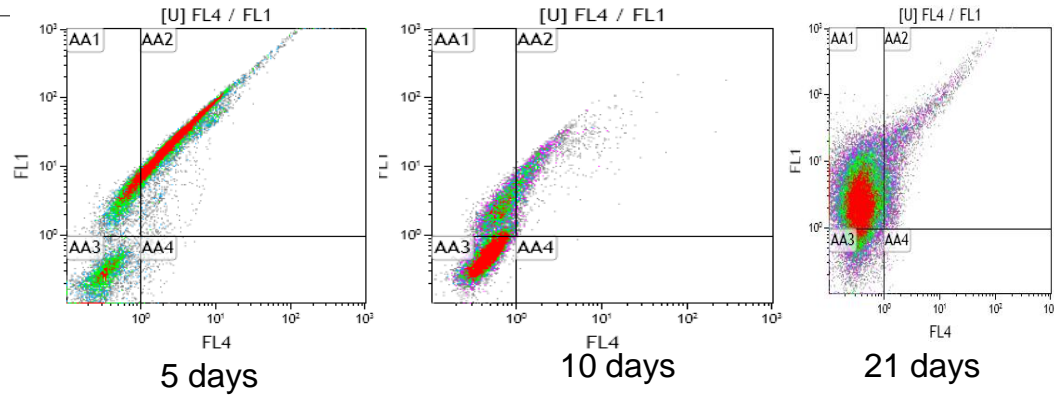
Propidium iodide

Sybr Green

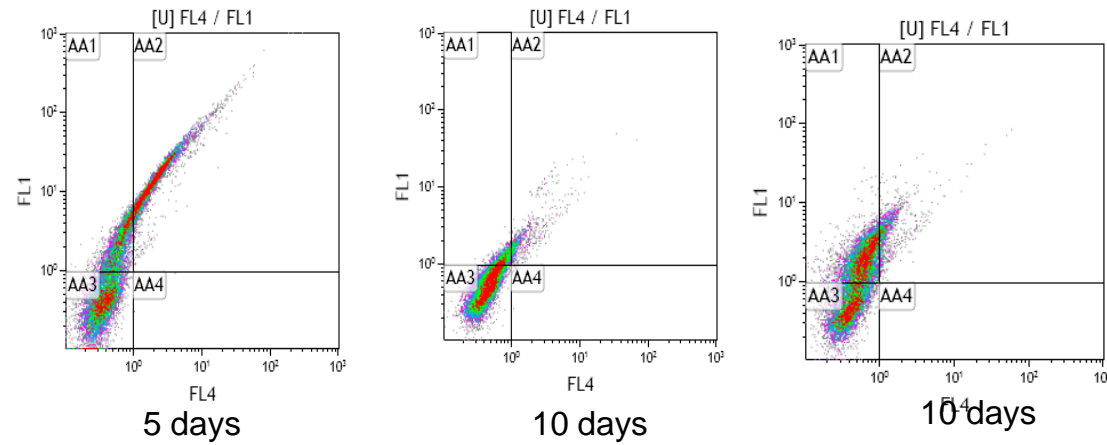




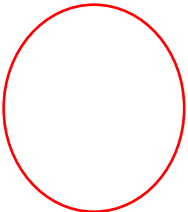
Flow cytometry



Control (without Essential oil (at 7°C))



Strain treated with Essential oil and incubated at 7°C)



**« The biggest problem is not
the junk we eat but the nutritious
food we don't eat »**