

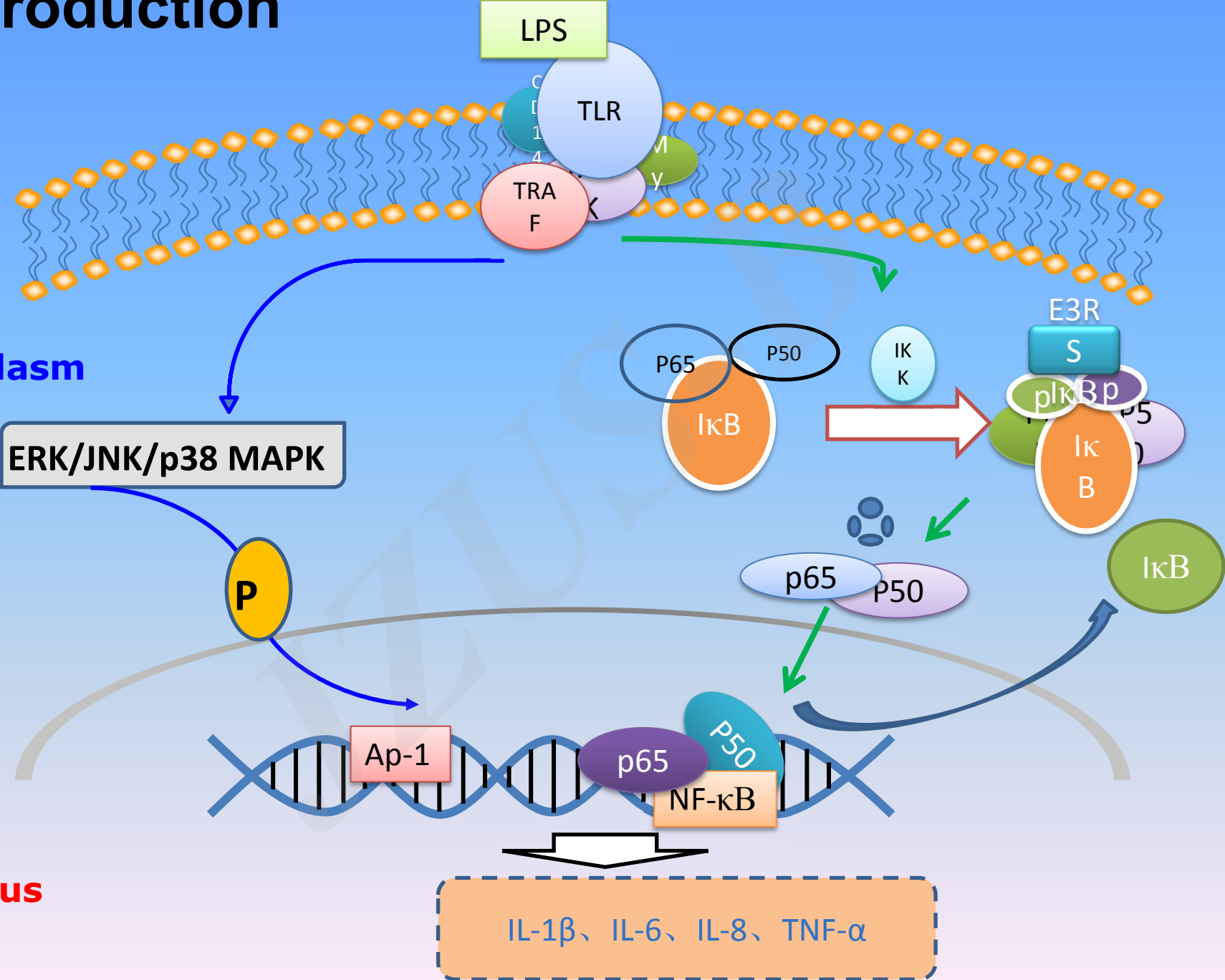
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Punicalagin protects bovine endometrial epithelial cells against lipopolysaccharide-induced inflammatory injury

Key words: Bovine endometrial epithelial cell, Cytokine, Inflammatory injury, Punicalagin

Introduction

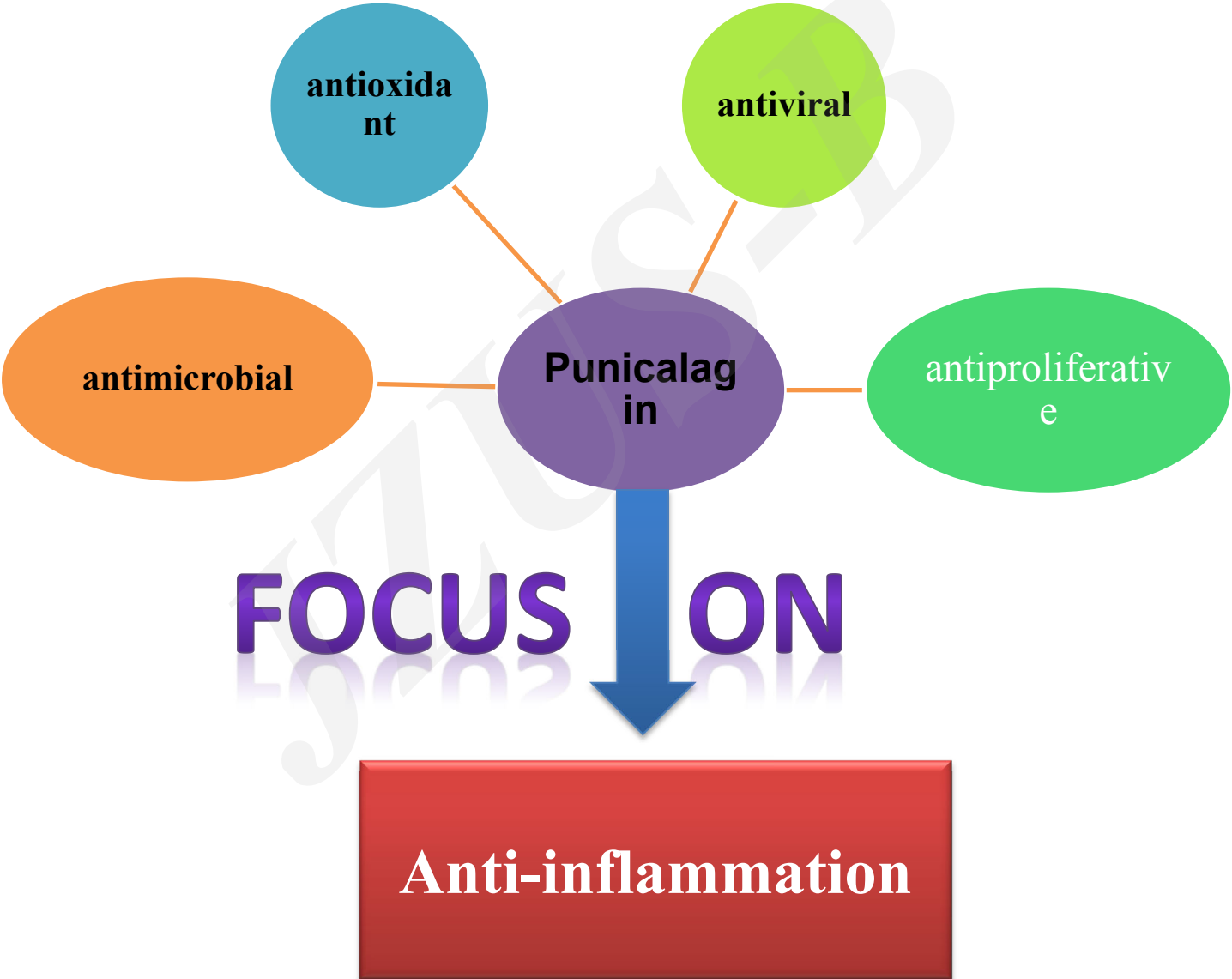
Cytoplasm



Nucleus

IL-1β, IL-6, IL-8, TNF-α

Punicalagin, a hydrolyzable tannin of pomegranate juice, which exhibits multiple biological effects. **This review mainly focused on anti-inflammation effect.**



Highlight

- **Inflammatory injury model of bovine endometrial epithelial cell (bEEC) was established using LPS.**
- **punicalagin could inhibit inflammation on bEEC by decreasing the expression of IL-1 β , IL-6, IL-8, and TNF- α .**
- **The anti-inflammatory mechanism of punicalagin related to NF- κ B and MAPK pathway.**