

Carbohydrate-boosted control of intestinal health

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Propositions

Propositions belonging to the thesis entitled:

Carbohydrate-boosted control of intestinal health – *in-vitro* tools for broiler chickens and infants

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Maastricht, 18th of January 2024

- Using products such as citrus pectins and polysaccharides obtained from potatoes can positively influence the intestinal microbiota and are a sustainable source (this thesis).
- Even the slightest divergence in protein homology across species can indisputably hinder the growth of organoids (this thesis).
- When investigating the impact of fermented products on the epithelial barrier function, the choice of solvent already exerts a substantial influence (this thesis).
- Employing waste from a slaughterhouse is a major move towards reducing the need for laboratory animals (this thesis).
- The outcomes derived from microbiota data are inherently influenced by the analyst's identity, leading to variations in interpretations.
- Relying solely on measuring cellular resistance via Trans epithelial Electrical Resistance as a marker for epithelial cell barrier function does not offer reliable insights.
- More dependable *in-vitro* tools to study the chicken's intestine should be developed to reduce the use of laboratory animals.
- Improved chicken health translates to better quality of life and to improved quality of poultry products for consumers and diminishes the economic burden linked to coccidiosis and necrotic enteritis in the poultry industry.
- Just like kids - we can be more energized and experience success when we stay curious.
- Calimero must shed its association with negativity and instead should be embraced as an incredible machine.