

## Gudmundur Hrafn Gudmundsson

### Title: Induced expression of antimicrobial peptides to fight infections

Abstract: Induced expression of human antimicrobial peptides has been the emphasis of our research. This approach could be an alternative to antibiotic treatment. Background of the basic concept will be covered in the talk. Possible usage for the induction of innate immunity against selected infections in animal models will be discussed as host directed therapy (HDT). A cell model for selecting novel inducers of innate immunity has been used. The discovery of the most recent novel inducers and their activity with respect to regulation of innate immunity, affected gene expression, specific epithelial responses and possible molecular mechanism will be presented in details.

Affiliation: University of Iceland, Reykjavik, Iceland