

## **Research Interest May 2017**

### **MSc. İhsan Erol Özçil**

My research interest is to identify microbiological work in food.

My first project is existence of enterotoxigenic *Staphylococcus aureus* (S.aureus) and *Salmonella* which is common cause of food borne illness are investigated in halloumi cheese that are produced in various plants of in Turkish Republic of Northern Cyprus (TRNC). Baird-Parker Agar (BPA) solid medium has been used for the isolation of S.aureus, MacConkey and SS agar solid medium has been used for the isolation of *Salmonella*.

My second project is identification for performance evaluation of predictive models in food microbiology. Two complementary measures are proposed as simple indices of the performance of models in predictive food microbiology. The indices assess the level of confidence one can have in the predictions of the model and whether the model displays any bias which could lead to 'fail-dangerous' predictions. The use of the indices is demonstrated using data collated from independent and published literature. This analysis supports previous reports that evaluation of predictive models by comparison to published microbial growth rate data may be inappropriate because of limitations in that data.