



## Project Summary

### **Development of ELISAs for the detection of novel myositis autoantibodies (TIF1 alpha, TIF beta and PUF60) in UKMyoNet patients**

Prof Neil McHugh awarded £24,887.38

Myositis is a complex disease where patients present with a wide range of symptoms including skin rash, muscle weakness, cancer and lung disease. There is an autoimmune component to the condition, where the patient's immune system attacks their own proteins generating auto-antibodies. Studies have shown that the specific type of autoantibody present can help predict symptoms, helping to subset patients into defined groups, and aiding in their ongoing clinical management. Recently, a number of novel autoantibodies have been identified in myositis, however since there are no commercial tests available patients cannot currently be screened for these new diagnostic markers. The aim of this project is to develop a range of tests for these novel autoantibodies and use them to screen patients from our myositis research cohorts. By combining the test results with the clinical data previously collected we will establish any clinical correlations between these autoantibodies and patient symptoms, helping to further aid in the diagnosis of and management of myositis patients.