

## Structural characterization of initiating components of the innate immune system

**Application deadline: Applications accepted all year round**

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**Summary (max 200 words):** Complement activation neutralizes invading pathogens and orchestrates key immunological and inflammatory responses. It is triggered when collagen-containing recognition molecules activate associated-serine proteases upon binding to pathogen-associated molecular patterns. In order to understand how these molecules perform their vital functions, we aim to solve the structures of complement proteins produced using recombinant DNA technology. We already possess an array of recombinant molecules, which will be analysed using state-of-the-art protein production and X-ray data collection facilities. This is an excellent opportunity for an enthusiastic researcher to join a well-established group in a successful and exciting research environment.

