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Genetics of Systemic lupus erythematosus in northern and southern European populations

Fact Sheet

Project Information

GENETICS OF SLE

Grant agreement ID: 254820

Project closed

Start date

6 September 2011

End date

5 September 2013

Funded under

Specific programme "People" implementing the Seventh Framework Programme of the European Community for research, technological development and demonstration activities (2007 to 2013)

Total cost

€ 173 240,80

EU contribution

€ 173 240,80

Coordinated by

KING'S COLLEGE LONDON

 United Kingdom

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Objective

Systemic lupus erythematosus (SLE) is a chronic inflammatory disease mediated by autoantibodies, which recognize nuclear and tissue specific antigens. The aetiology of this disease is incompletely determined. However, the risk to SLE has a significant genetic component, a conclusion supported by successful genome wide association studies (GWAS) in SLE published since 2008 - all were conducted in US-based cohorts. The variability within the “top hits” generated by each GWAS indicates the lack of power of these studies. In order to confidently define the full genetic architecture of SLE a significantly larger study will be required. My host laboratory is leading the effort in a well-powered GWA experiment in 5,500 SLE cases, collected from Northern and Southern Europe. First, high density SNP genotyping will be performed using Illumina Omni-Quad chip. I will participate in the ensuing genetic associations analyses on the data generated. Thereafter, I will make a meta-analysis of these GWAS data with the published GWAS in SLE in northern European populations and then to compare these data with the data of the southern European GWAS. We will seek replication for novel associations in additional samples available through the SLEGEN consortium. Finally I will select one novel locus in which to conduct functional studies that will help to clarify the role of the locus in SLE etiopathogenesis.

Fields of science (EuroSciVoc)

[medical and health sciences](#) > [health sciences](#) > [inflammatory diseases](#)

[natural sciences](#) > [biological sciences](#) > [genetics](#) > [genomes](#)



Programme(s)

[FP7-PEOPLE - Specific programme "People" implementing the Seventh Framework Programme of the European Community for research, technological development and demonstration activities \(2007 to 2013\).](#)

Topic(s)

[FP7-PEOPLE-2009-IEF - Marie Curie Action: "Intra-European Fellowships for Career Development"](#)

Call for proposal

FP7-PEOPLE-2009-IEF
[See other projects for this call](#)

Funding Scheme

[MC-IEF - Intra-European Fellowships \(IEF\).](#)

Coordinator



KING'S COLLEGE LONDON

EU contribution

€ 173 240,80

Total cost

No data

Address

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 **United Kingdom** 

Region

London > Inner London — West > Westminster

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

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European Union, 2025

