

MS analysis of the glycosylation of total and of antigen-specific serum IgG for disease severity estimation in fetal/neonatal alloimmune thrombocytopenia (FNAIT) patients

PhD position in glycobiology

Network description	<p>GlySign is a Marie Curie Innovative Training Network composed of 3 leading European partners in the fields of glycobiology, glyco-immunology and biomarker research. As a European Industrial Doctorate (EID), it exploits the key translational synergies between excellent academic and non-academic partners to the fullest extent. The main scientific focus of the network is glycomic clinical markers as well as assay development for Precision Medicine (PM). We aim to bring known glycomics markers to the clinic.</p>
Project description	<p>Research will be carried out at Genos Ltd. in Zagreb, Croatia. A substantial part of the training will be also carried out at the Center for Proteomics and Metabolomics (CPM) at the Leiden University Medical Centre (LUMC) in Leiden, the Netherlands.</p> <p>The aims of the project are optimization of antigen-specific IgG purification and implementation of internal standards into a robust high-throughput MALDI-MS method for the analysis of total and antigen-specific IgG for comparison to LC-ESI-MS data. After its evaluation and validation, the total and antigen-specific IgG glycoproteomic assay will be applied for disease severity estimation in FNAIT patients.</p> <p>The candidate will receive training in working under GLP, experimental design, sample processing (antigen-specific antibody purification, automated sample preparation for MALDI-MS, glycosylation analysis by MALDI-MS, sample preparation and glycosylation analysis by LC-ESI-MS), method transfer, data pre-processing (e.g. data calibration and extraction), data pre-treatment methods (normalization and batch correction), clinical and experimental data management, statistical data analysis and interpretation; scientific writing as well as non-academic reporting. Teaching and mentoring a Bachelor's/Master's student is also part of the experience the candidate will gain.</p> <p>This is a multidisciplinary project comprising several European laboratories with different expertise. The successful candidate will participate in the network's training activities and work placements at the laboratories of the participating academic and industrial teams. Regular meetings and workshops within the EU-funded GlySign will supplement the training and support provided at the LUMC in Leiden, the Netherlands. Marie-Curie projects are embedded in a comprehensive program of courses and exchange visits between the partner institutions.</p> <p>The candidate, at the end of the project, will be a researcher trained in purification of antigen-specific antibodies, mass spectrometric based glycoanalytical approaches with sound experience in data analysis.</p>
Appointment details	<p>The candidate will be employed by Genos Ltd. in Zagreb, Croatia, for the duration of 36 months, with substantial time spent at the Leiden University Medical Centre (LUMC) in Leiden, the Netherlands, where the candidate will be enrolled in the local PhD programme.</p>
Requirements	<p>The candidate should hold a Master's degree in life sciences (e.g. biochemistry) or analytical chemistry. Experiences in protein chemistry and mass spectrometry are highly desired. A good level of English (spoken and written) is mandatory. The candidate should be a good communicator with the ability to develop work relationships and have strong analytical skills particularly with an attention to detail. They should be an independent thinker with a proven ability to project-manage their work and meet deadlines. They should be able to work efficiently as part of a team and to build upon our collaborations</p>
Eligibility according to EU regulations	<p>Please be aware that candidates should comply with the general mobility criteria for Marie Curie early-stage researchers. In particular, the fellows to be appointed must not have resided or carried out their main activity in the host organization's country for more than 12 months in the 3 years immediately prior to the appointment date. Short stays such as holidays are not taken into account. Early-Stage Researchers (ESRs) shall, at the time of recruitment by the host organisation, be in the first four years (full-time equivalent research experience) of their research careers and have not been awarded a doctoral degree.</p>
How to apply	<p>Application should include a CV and a cover letter stating motivation and expectations from participation in GlySign, and listing the names of two referees.</p> <p>Applications sent via email will not be taken into consideration. To apply, click here</p>
For questions contact	<p>Dr. Mislav Novokmet Researcher at Genos Ltd. (Zagreb, Croatia) mnovokmet@genos.hr http://www.genos-glyco.com/</p>

