

Proposal Acronym	ELpspINT
Proposal Title:	Electrochemical study of polysaccharide-protein molecular interactions and their relevance in the selective sensing of polysaccharides in mixtures
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First name(s):	Slađana
Research area:	Chemistry CHE
Sub-discipline of research area:	Electrochemistry
Category of research:	basic
[REDACTED]	[REDACTED]
Abstract:	Limited number of electrochemical experiments with the purpose of sensitive quantification (< nmol dm ⁻³) of polysaccharides has been performed up to now by using voltammetric and/or chronopotentiometric methods. Polysaccharide-protein interactions are expected to be one of the most significant interactions in the real medium, like for example in seawater or in biological materials. From the analytical point of view, those interactions are one of the crucial factors which would interfere qualitative and quantitative sensing of polysaccharides in the mixture. Elucidation of the type of their interactions by interdisciplinary assay will serve as a base for electrochemical sensing of polysaccharides in buffer solution and in seawater, without or with usage of appropriate separation technique. Thus, mentioned electrochemical methods have not been employed in the investigation of such interactions.
Does this proposal possess any of the sensitive ethical issues detailed in ethical issues table?:	No