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Author	Hamno Mohammed Kader	
Title (English)	Development of a label-free biosensor method for the identification of sticky compounds which disturb GPCR-assays	
Title (Swedish)		
Abstract	<p>It is widely known that early estimates about the binding properties of drug candidates are important in the drug discovery process. Surface plasmon resonance (SPR) biosensors have become a standard tool for characterizing interactions between a great variety of biomolecules and it offers a unique opportunity to study binding activity.</p> <p>The aim of this project was to develop a SPR based assay for pre-screening of low molecular weight (LMW) drug compounds, to enable filtering away disturbing compounds when interacting with drugs. The interaction between 47 LMW compounds and biological ligands were investigated using the instrument Biacore™, which is based on SPR-technology.</p>	
Keywords	Surface plasmon resonance (SPR), biosensor, Biacore™, G-protein-coupled receptors (GPCRs), Low molecular weight (LMW) compounds, C-C chemokine receptor type 5 (CCR5), acid-sensing ion channel 1a (ASIC1a), Thrombin, Carbonic Anhydrase II (CA II), P38 α MAP kinase.	
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