



UPPSALA
UNIVERSITET

Bioinformatics Engineering Program

Uppsala University School of Engineering

UPTEC X 09	Date of issue 2009-06	
Author	Lili Gong	
Title (English)	On the effects of the microsomal Prostaglandin E Synthase-1 inhibitors on the functional activity of inflammatory cells from RA patients	
Title (Swedish)		
<p>This thesis work investigates the effects of microsomal Prostaglandin E Synthase-1 (mPGES-1) inhibition on the functional activity of synovial fibroblasts from patients with rheumatoid arthritis (RA). mPGES-1 is an inducible enzyme capable of converting prostaglandin H2 (PGH2) to prostaglandin E2 (PGE2) which in turn contributes to inflammation, pain and joint destruction in RA. Therefore, mPGES-1 inhibition is a potential novel target for the next-generation therapeutics for the treatment of inflammatory diseases. In this study, two mPGES-1 inhibitors (A and B) were tested for their ability to affect PG production and expression of pro-inflammatory molecules in synovial fibroblasts.</p>		
Keywords	PGE2, mPGES-1inhibitor, functional activity, rheumatoid arthritis	
Supervisors	Dr. Marina Korotkova and Assoc.Prof Per-Johan Jakobsson Karolinska Institutet	
Scientific reviewer	Lars-Göran Josefsson Uppsala universitet	
Project name	Sponsors	
Language	Security	
ISSN 1401-2138	Classification	
Supplementary bibliographical information	Pages	
	48	
Biology Education Centre Box 592 S-75124 Uppsala	Biomedical Center Tel +46 (0)18 4710000	Husargatan 3 Uppsala Fax +46 (0)18 555217