

JESPER HAEGGSTRÖM PUBLICATIONS 2016**Peer-reviewed original articles:**

1. Ahmad S, Ytterberg AJ, Thulasingam M, Tholander F, Bergman T, Zubarev R, Wetterholm A, Rinaldo-Matthis A, Haeggstrom JZ. Phosphorylation of Leukotriene C-4 Synthase at Serine 36 Impairs Catalytic Activity. *Journal of Biological Chemistry* 2016; 291: 18410-18418.
2. Brock JS, Hamberg M, Balagunaseelan N, Goodman M, Morgenstern R, Strandback E, Samuelsson B, Rinaldo-Matthis A, Haeggstrom JZ. A dynamic Asp-Arg interaction is essential for catalysis in microsomal prostaglandin E-2 synthase. *Proceedings of the National Academy of Sciences of the United States of America* 2016; 113: 972-977.
3. Cebula M, Turan IS, Sjodin B, Thulasingam M, Brock J, Chmyrov V, Widengren J, Abe H, Mannervik B, Haeggstrom JZ, Rinaldo-Matthis A, Akkaya EU, Morgenstern R. Catalytic Conversion of Lipophilic Substrates by Phase constrained Enzymes in the Aqueous or in the Membrane Phase. *Scientific Reports* 2016; 6.
4. Liening S, Scriba GK, Rummler S, Weinigel C, Kleinschmidt TK, Haeggstrom JZ, Werz O, Garscha U. Development of smart cell-free and cell-based assay systems for investigation of leukotriene C-4 synthase activity and evaluation of inhibitors. *Biochimica Et Biophysica Acta-Molecular and Cell Biology of Lipids* 2016; 1861: 1605-1613.
5. Mittal M, Kumar RB, Balagunaseelan N, Hamberg M, Jegerschold C, Radmark O, Haeggstrom JZ, Rinaldo-Matthis A. Kinetic investigation of human 5-lipoxygenase with arachidonic acid. *Bioorganic & Medicinal Chemistry Letters* 2016; 26: 3547-3551.
6. Sun J, Xu M, Ortsater H, Lundeberg E, Juntti-Berggren L, Chen YQ, Haeggstrom JZ, Gudmundsson GH, Diana J, Agerberth B. Cathelicidins positively regulate pancreatic beta-cell functions. *Faseb Journal* 2016; 30: 884-894.