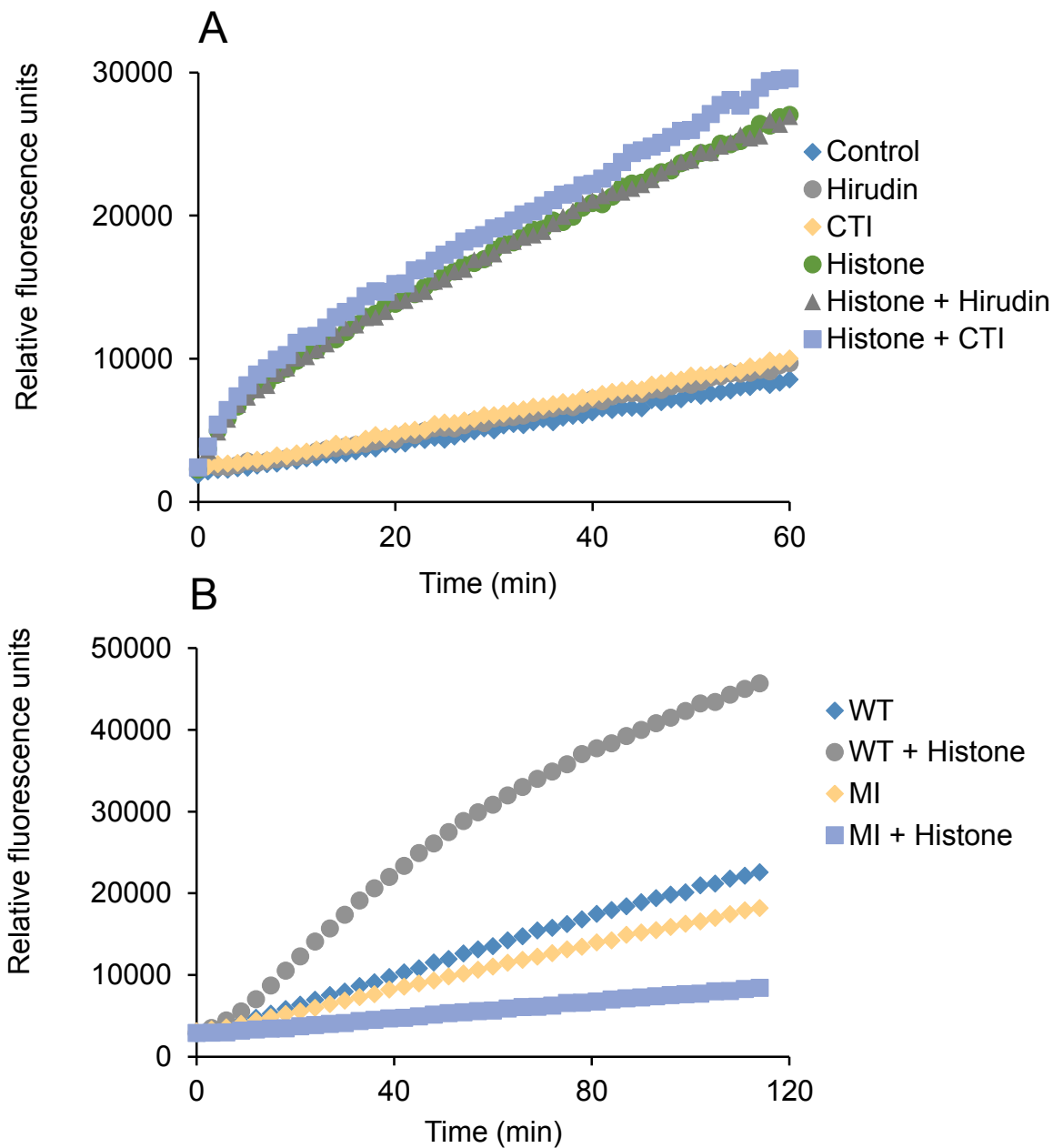
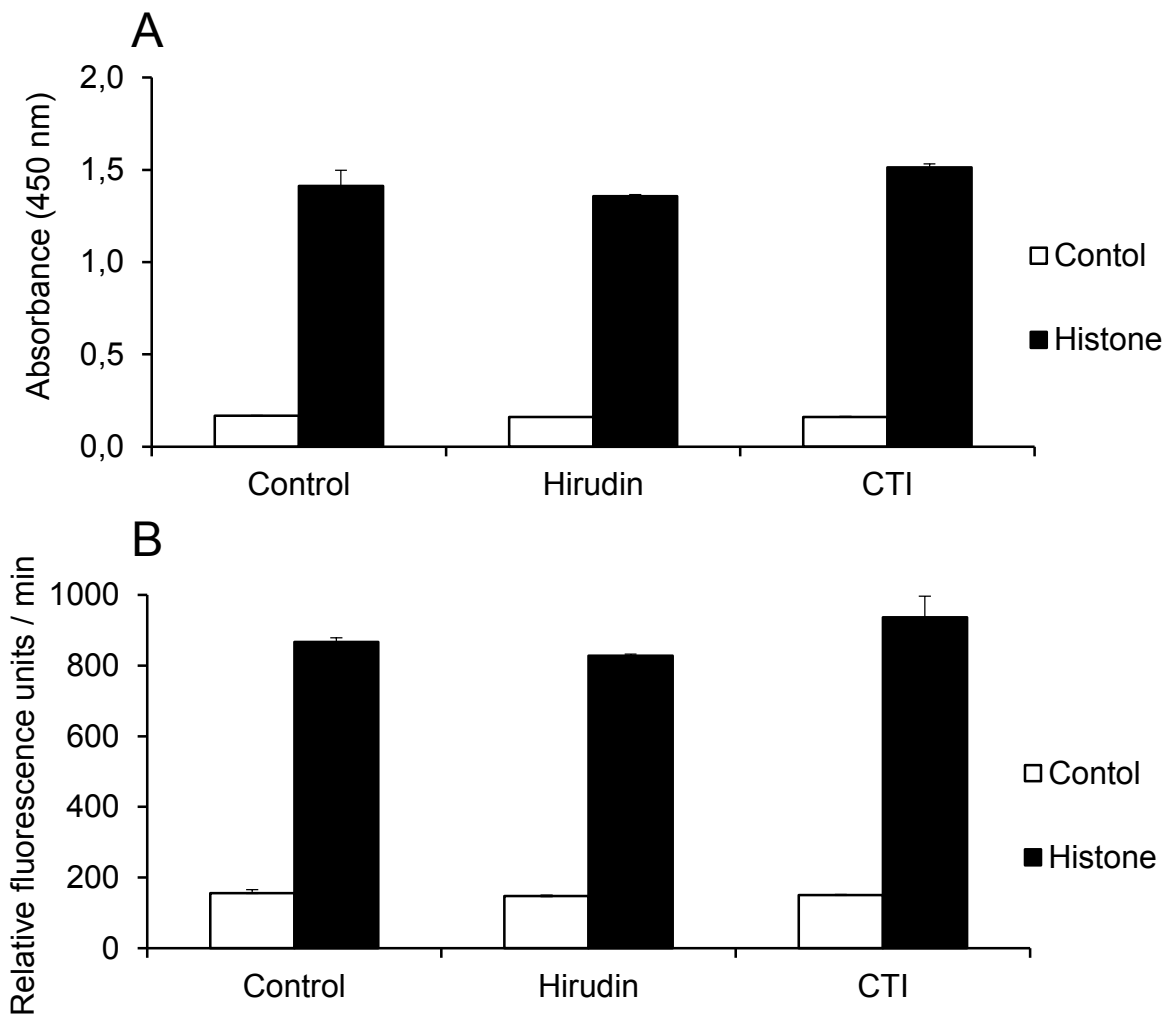


**Supplementary Material to
Kara et al. “Analysis of the
substrate specificity of Factor
VII activating protease (FSAP)
and design of specific and
sensitive peptide substrates”**

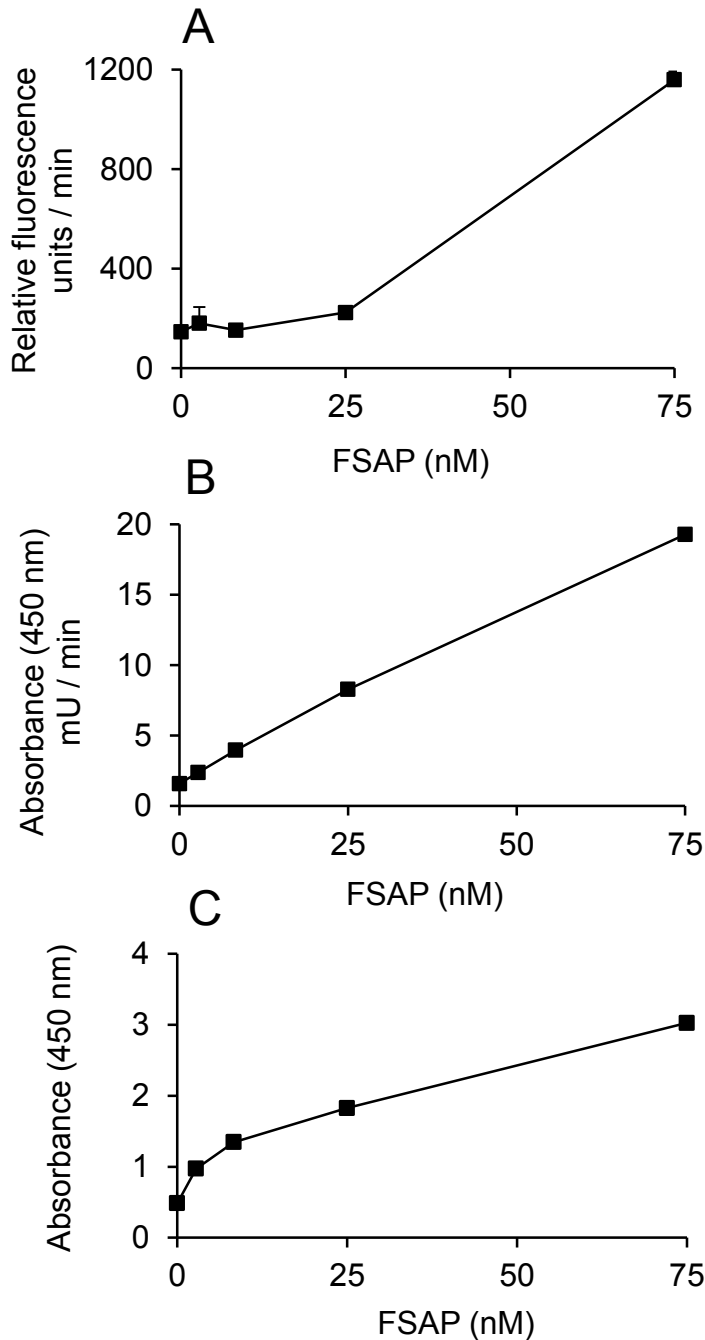
(<https://doi.org/10.1160/TH17-02-0087>)



Suppl. Figure 1: Determination of pro-FSAP activation in plasma: (A) Normal human citrate plasma (1:5 dilution) was incubated with corn trypsin inhibitor (CTI, 50 $\mu\text{g}/\text{ml}$) or lepirudin (25 $\mu\text{g}/\text{ml}$) in the absence or presence of histones (20 $\mu\text{g}/\text{ml}$). Ala-Lys-Nle-Arg-AMC substrate (40 μM) was added and the proteolytic activity was monitored at 37°C as relative fluorescence units. (B) Same conditions as above except that normal plasma was compared to plasma from a subject homozygous for the MI-SNP. Experiments were performed in duplicate.



Suppl. Figure 2: Determination of FSAP activation in plasma using FSAP: α 2 anti-plasmin complex as well as fluorescent peptide turnover: (A) Normal human citrate plasma (1:5 dilution) was incubated with corn trypsin inhibitor (CTI, 40 μ g/ml) or lepirudin (12.5 μ g/ml) in the absence or presence of histones (20 μ g/ml) for 60 min at 37°C. FSAP: α 2 anti-plasmin complexes were determined using an ELISA. (B) To plasma samples prepared as above Ala-Lys-Nle-Arg-AMC substrate (40 μ M) was added and the proteolytic activity was monitored at 37°C as relative fluorescence units/ min. Experiments were performed in duplicate and are shown as mean \pm SD.



Suppl. Figure 3: Comparison of different assays to measure FSAP activity in plasma: Defined amounts of purified FSAP (0-75 nM) was added to FSAP-deficient plasma for 30 min at 37°C. (A) To these plasma samples Ala-Leu-Lys-Arg-AMC substrate (40 μ M) was added and the proteolytic activity was monitored at 37°C as relative fluorescence units/min. (B) Plasma samples were added to FSAP-antibody coated wells to immunocapture FSAP. Activation of pro-uPA turnover was determined by using a chromogenic uPA substrate. (C) FSAP: α 2 anti-plasmin complexes were determined using an ELISA. Experiments were performed in duplicate and are shown as mean \pm SD.