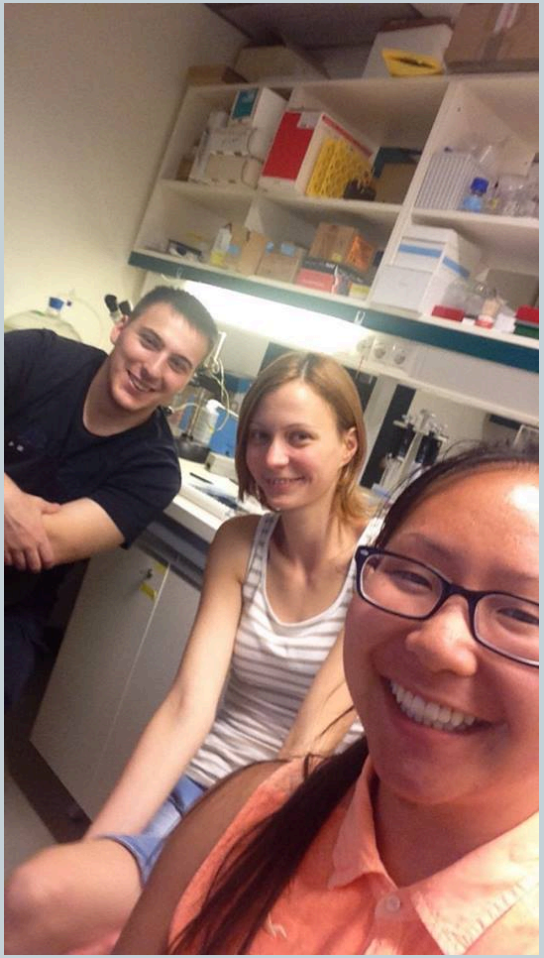
Semmelweis Medical University Budapest, Hungary

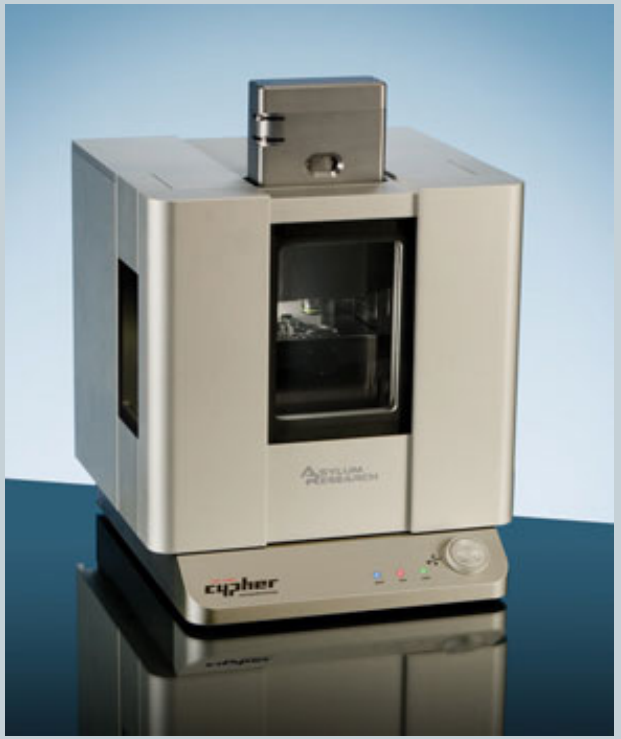
DOROTHY TANG
CLASS OF 2017

Nanomechanics of Fibrin and Factor H

- Fibrin
  - Examined the effects of different ionic strengths on fibrin networks, particularly varying concentrations of calcium
- Factor H
  - Examined the inner structure of factor H by unfolding its globular domains through experimentation of different buffers and centrifugation forces

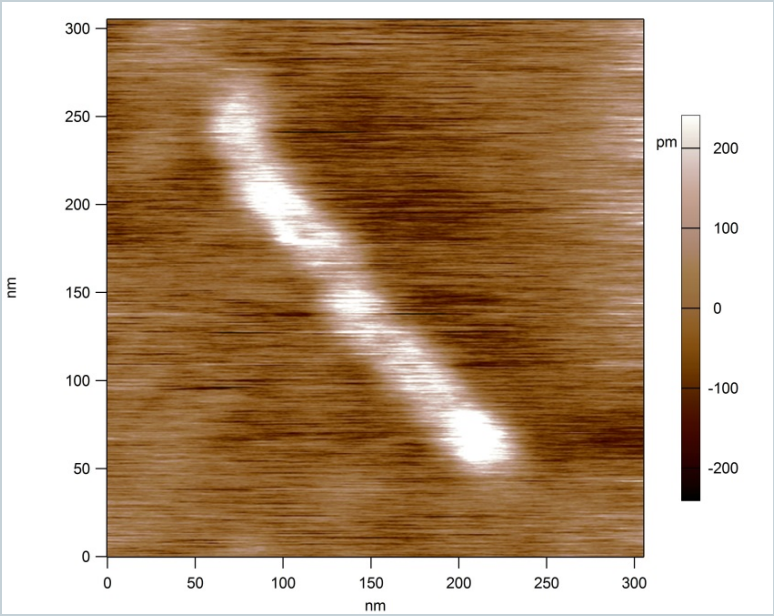
Department of Biophysics



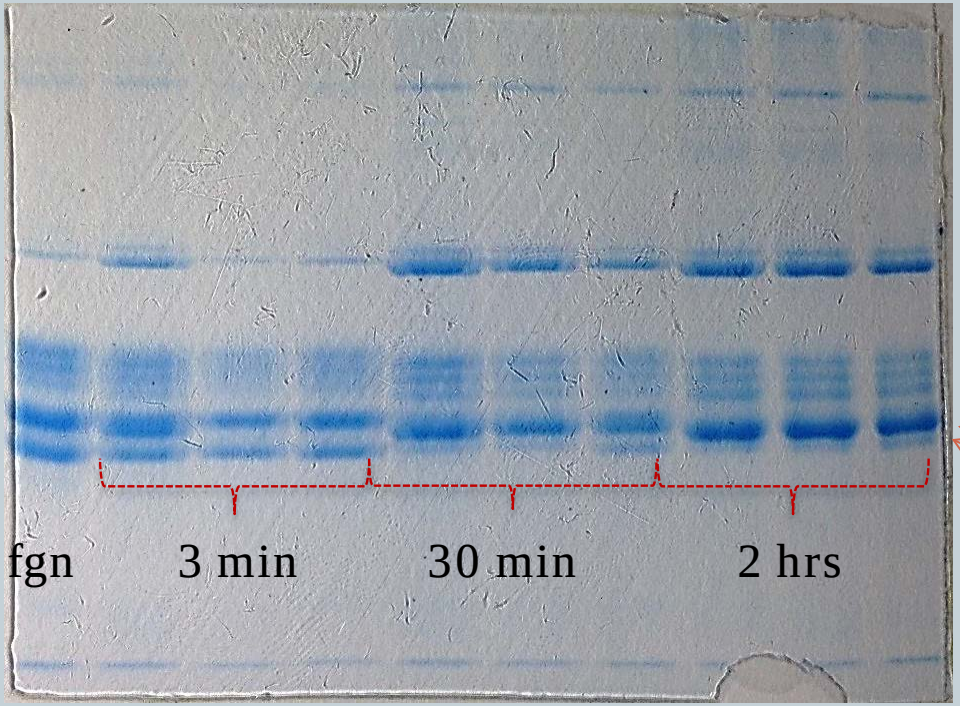


Most Rewarding Aspect

- Learned how to use the Cypher for atomic force microscopy (AFM) imaging
- Shadowed other projects in the university



Gel Electrophoresis of Fibrin Networks Over Time



Alpha Domains

Beta Domains

Gamma Domains

Spurring On Research

- Contributed my ideas on how best to elongate factor H domains
- Raised questions for more analysis in the future

Future Plans

- Working in the Biophysics Department opened my eyes to another world of biology
- A more theoretical type of research
- Continuing path of molecular biology
- Possibly pursue more research in the future?

My mentor, Timi

Amazing places, amazing people