

## Curriculum Vitae



**Name:** Gergő Gógl  
**Date of birth:** 1989.06.27  
**E-mail:** gogl.gergo@gmail.com

**Education:** 2013 - ELTE TTK @C Chemistry MSc  
2008 - 2013 ELTE TTK @C Chemistry BSc  
**Work experience:** 2008- ELTE TTK, Department of Biochemistry,  
Attila Reményi's group  
*Characterisation of signalling proteins*  
2006 - 2008 MTA, Institution of Enzymology,  
Péter Friedrich's group  
*Characterisation of Ca<sup>2+</sup> activated proteases*

### Achievements:

2013	Scientific Students' Associations Conference (TDK)	1. place
2008	Scientific Students' Associations Conference (TUDOK)	1. place
2008	National Competition for Secondary School Students, chemistry	25. Place

### Skills:

- DNA cloning techniques
- Recombinant protein expression techniques (bacterial system)
- Protein preparation and purification (affinity chromatography, ion exchange chromatography, gel filtration, etc.)
- Biochemical characterisation of proteins
- Analytical characterisation of proteins (gel electrophoresis, Western-blot, etc.)
- Characterisation of protein-protein interactions with various techniques (pull-down assay, fluorescence polarization, SPR)
- Protein crystallography (crystallization and structure refinement)
- Data collection on synchrotron source (PSI-SLS)
- Programming skills: Fortran (F77), C, shell
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- Published protein structures in PDB database:** 4H3P, 4H3Q, 4IC7, 4IC8, 4FMQ, 3TEI

### Career objective:

In the last few years I worked with protein kinases. These enzymes are mainly involved in signal transduction where they modify signal dependently proteins by adding phosphate groups to them. A large number of cellular processes are under control of kinases (like cell cycle and transcription) and therefore the understanding of the structural and functional properties of a kinase is very important. In the future I would like to characterise different protein kinase interactions to shed light on general allosteric events.

## **Publications**

- Protein-peptide complex crystallization: a case study on the ERK2 mitogen-activated protein kinase. Gógl G, Törő I, Reményi A. *Acta Crystallogr D Biol Crystallogr*. 2013
- Structural mechanism for the specific assembly and activation of the extracellular signal regulated kinase 5 (ERK5) module. Glatz G, Gógl G, Alexa A, Reményi A. *J Biol Chem*. 2013
- Specificity of linear motifs that bind to a common mitogen-activated protein kinase docking groove. Garai Á\*, Zeke A\*, Gógl G\*, Törő I, Fördös F, Blankenburg H, Bárkai T, Varga J, Alexa A, Emig D, Albrecht M, Reményi A. *Sci Signal*. 2012
- Regulation of calpain B from *Drosophila melanogaster* by phosphorylation. Kovács L\*, Alexa A\*, Klement E, Kókai E, Tantos A, Gógl G, Sperka T, Medzihradszky KF, Tözsér J, Dombrádi V, Friedrich P. *FEBS J*. 2009
- Identifying calpain substrates in intact S2 cells of *Drosophila*. Bozoky Z, Alexa A, Dancsok J, Gogl G, Klement E, Medzihradszky KF, Friedrich P. *Arch Biochem Biophys*. 2009
- \*These authors contributed equally.

## **Presentations:**

- Interactions of the JIP1 scaffold protein. Presentation in hungarian, *Magyar Biokémiai Egyesület 2010.évi Vándorgyűlése*