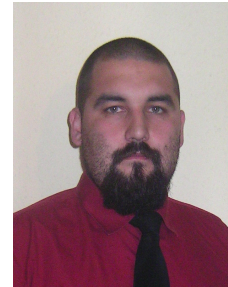


## Curriculum vitae

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### Education:

- 2009- Predoctoral fellowship  
Doctoral School of Molecular Cell Biology and Immunobiology, Structural Biology and Bioinformatics Group of the Laboratory of Retroviral Biochemistry, Department of Biochemistry and Molecular Biology, Medical and Health Science Center, Faculty of Medicine, University of Debrecen, Debrecen, Hungary
- 2006-2009 PhD fellowship  
Pál Juhász-Nagy Doctoral School of Biology and Environmental Sciences, Department of Biochemistry, Faculty of Sciences and Technology, University of Debrecen, Debrecen, Hungary
- 2000-2006 University of Debrecen, Faculty of Sciences and Technology,  
Graduation: molecular biologist / speciality of biochemistry
- 1996-2000 Szent-Györgyi Albert secondary school (Balassagyarmat), speciality of biology

### Languages:

Hungarian: native language  
English: B2 level (2006)  
German: B1 level (2009)

### Computer:

Microsoft Windows, Microsoft Office, UNIX, internet

### Other skills:

Bővített fokozatú sugárvédelmi ismeretek (88-28/B/2005-10/18.) (2010)  
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### **Profession experiences:**

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**Extension of the glycobiological and enzymatical researches: bioinformatical applications in design of new enzymes**

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## **Publications:**

Nielsen M. M., Bozonnet S., Seo E. S., **Mótyán J. A.**, Andersen J. M., Dilokpimol A., Abou Hachem M., Gyémánt G., Næsted H., Kandra L., Sigurskjold B. W., Svensson B. Two secondary carbohydrate binding sites on the surface of barley  $\alpha$ -amylase 1 have distinct functions and synergy in hydrolysis of starch granules *Biochemistry* 48 (2009) 7686-7697.

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## **Conferences:**

### ***Oral presentations:***

**Kandra, L., Mótyán, J. A.**, Farkas, E., Svensson, B., Gyémánt, G. Mapping of barley amylases - Effect of mutation on subsite maps and activities, *Carbohydrate research in Hungary Conference 2008 - Annual Meeting of the Working Group for Carbohydrate Chemistry of the Hungarian Academy of Sciences*, Mátrafüred, Hungary, 2008.05.29–30.

**Mótyán, J.A.**, Gyémánt, G., Kandra, L., Bagossi, P., Harangi, J. Examination of the substrate binding sites of  $\alpha$ -amylase enzymes, *2nd Molecular Cell and Immune Biology Winter School*, Krompachy, Slovakia, 2009.01.06–09.

**Mótyán, J.A.**, Fazekas, E., Svensson, B., Kandra, L., Gyémánt, G. Transglycosylations by modified barley amylase 1 enzymes - Enzymatic synthesis of 4-methylumbelliferyl- $\beta$ -D-maltooligosaccharides, *Carbohydrate research in Hungary Conference 2009 - Annual Meeting of the Working Group for Carbohydrate Chemistry of the Hungarian Academy of Sciences*, Mátrafüred, Hungary, 2009.05.28–29.

**Mótyán, J. A.**, Gyémánt, G., Kandra, L., Harangi, J., Bagossi, P. Examination of the substrate binding sites of  $\alpha$ -amylase enzymes, *3rd Molecular Cell and Immune Biology Winter School*, Mariazell, Austria, 2010.01.07–10.

**Svensson, B.**, Andersen, J. M., Vester-Christensen, M. B., Jensen, J. M., Seo, E.S., Nielsen, M. M., **Mótyán, J. A.**, Kandra, L., Gyémánt, G., Haser, R., Aghajari, N., Hachem, M. A. New insights into structure/function relationships in plant  $\alpha$ -amylase family GH13 members, *Annual Meeting of the Japanese Society of Applied Glycoscience and 17th Symposium on Amylases and Related Enzymes 2009 (J. Appl. Glycosci., Vol. 56, Suppl., 2009)*

**Mótván, J. A.**, Fazekas, E., Harangi, J., Bagossi, P., Svensson, B., Kandra, L., Gyémánt, G. Transglycosylations by modified barley amylase 1 enzymes - Enzymatic synthesis of 4-methylumbelliferyl group-containing maltooligosaccharides as new substrates for  $\alpha$ -amylases, *Carbohydrate research in Hungary Conference 2010 - Annual Meeting of the Working Group for Carbohydrate Chemistry of the Hungarian Academy of Sciences*, Mátrafüred, Hungary, 2010.05.27–28.

**Mótyán, J. A.**, Gyémánt, G., Kandra, L., Harangi, J., Bagossi, P. In vitro and in silico studies on  $\alpha$ -amylase enzymes, *4th Molecular Cell and Immune Biology Winter School*, Galyatető, Hungary, 2011.01.11–14.

***Poster presentations:***

**Kolozsvári, B.**, Bakó, É., **Mótyán, J. A.**, Gergely, P. A kalcineurin szerepe endothelsejtek citoszkeletonszerkezetének szabályozásában, *Annual meeting of the Hungarian Biochemical Society 2006*, Pécs, Hungary, 2006.08.30–09.02.

**Mótyán, J. A.**, Bagossi, P., Harangi, J. Amiláz enzimek szubsztrátkötő alhelyeinek vizsgálata molekuláris modellezéssel, Magyar Biokémiai Egyesület Vándorgyűlése *Annual meeting of the Hungarian Biochemical Society 2007*, Debrecen, Hungary, 2007.08.26–29.

**Mótván, J. A.**, Fazekas, E., Harangi, J., Bagossi, P., Svensson, B., Kandra, L., Gyémánt, G. Másodlagos szubsztrátkötő-helyek vizsgálata az árpa amilázban (AMY1), Magyar Biokémiai Egyesület Vándorgyűlése *Annual meeting of the Hungarian Biochemical Society 2008*, Szeged, Hungary, 2008.08.31–09.03.

**Mótyán, J. A.**, Gyémánt, G., Bagossi, P., Harangi, J. Subsite mapping of  $\alpha$ -amylase enzymes with molecular modeling & Examination of the substrate binding sites of  $\alpha$ -amylase enzymes with molecular modeling, *4th Central European Conference "Chemistry towards Biology"*, Dobogókő, Hungary, 2008.09.08–11.

Svensson, B., Vester-Christensen, M. B., Andersen, J. M., Jensen, J. M., Seo, E. S., Nielsen, M. M., **Mótyán, J. A.**, Kandra, L., Gyémánt, G., Haser, R., Aghajari, N., Henriksen, A., Hachem, M. A. New insights in structure/function relationships involving calcium ions, proteinaceous inhibitors, and multiple surface sites in glycoside hydrolase family 13, *8th Carbohydrate Bioengineering Meeting*, Ischia, Naples, Italy, 2009.05.10–13.

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**Mótván, J. A.**, Gyémánt, G., Bagossi, P., Harangi, J. Alfa-amiláz enzimek szubsztrátkötő zsebének alhelytérképezése molekuláris modellezéssel, Magyar Biokémiai Egyesület Vándorgyűlése *Annual meeting of the Hungarian Biochemical Society 2009*, Budapest, Hungary, 2009.08.23–26.

Debrecen, 2011.02.01.

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