

# ADAM SIMON

## PROFILE

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A highly skilled biologist with more than 6 six years of work experience in different laboratories. Skilled with genetics related protocols and methods like DNA/RNA isolation, spectrophotometric nucleic acid quantification, genotyping with PCR and Sanger sequencing. Experienced with high sample throughput omics techniques including genomics, proteomics and glycomics. Able to program and perform experiments on a Hamilton STARlet liquid handling robot.

## PROFESSIONAL EXPERIENCE

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**Data Analyst** *05/05/2020 - Present*  
Enfer Group

Validating RT-qPCR results of COVID-19 tests.

**Postdoctoral Researcher** *03/10/2019 - 31/03/2020*  
National Institute for Bioprocessing Research and Training

Successfully glycoprofiled 581 individuals for immunoglobulin G. Wrote SOPs for analysis workflow. Liaised with project partners and PIs. Programmed the hardware of a Liquid handling robot performed sample preparation on it. Became experienced with R programming language for statistical analysis. Wrote a research article.

**Assistant Research Fellow** *14/12/2018 - 05/09/2019*  
Laboratory of Bioseparation Sciences, University of Debrecen

Performed separation of glycans using capillary electrophoresis. Adapted machine learning multivariate statistics and performed data analysis whit it. Created figures and wrote manuscript.

## EDUCATION

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**PhD in Molecular Biology** *08/09/2014 - 14/12/2018*  
University of Debrecen, Hungary

**MSc in Molecular Biology** *09/09/2012 - 14/06/2014*  
University of Debrecen, Hungary

**BSc in Biology** *09/09/2008 - 16/06/2011*  
University of Debrecen, Hungary

## COMPETENCE IN RESEARCH TECHNIQUES

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Sample preparation, DNA, RNA, protein isolation and clean-up; Capillary electrophoresis (CE) of biomolecules, Sanger sequencing on ABI PRISM 3100 genetic analyzer; Relative quantification of nucleic acids using quantitative real-time polymerase chain reaction (qPCR) using different thermal-cyclers (Agilent AriaMx, Roche LightCycler 480 II, ABI 7300); Absolute quantification of proteins using ELISA (using BioTEK Synergy HTX and BMG Labtech SPECTROstar Nano plate readers) Two-dimensional difference gel electrophoresis (2D-DIGE on Bio-Rad PROTEAN IEF Cell) for proteomics; Programming and using Hamilton StarLET liquid handling robot (method construction using Venus software 4.2.1); Ultra-Performance Liquid Chromatography (UPLC) separation of N-glycans with Waters Acquity systems (I- and H-class).

## DIGITAL SKILLS

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<b>Data visualization</b>	Adobe Illustrator, Photoshop - able to create publication grade figures
<b>MS Office 2019</b>	Word, PowerPoint, Excel - advanced user
<b>Statistical analysis</b>	GraphPad, SPSS, RStudio - able to perform various statistical tests

## COMMUNICATION SKILLS

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Excellent writing skill in English: author/co-author of 7 articles in scientific journals; Have given lectures outside academia on science popularizing events; Held practical courses in academic environment for foreign Erasmus scholars; Proof-read and corrected several thesis works. Native Hungarian speaker.

## DRIVER LICENCE

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Full Clean Drivers Licence (Category B with First Aid training)

## PERSONAL TRAITS

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Ability to prioritise and multi-task duties to meet project deadlines.

High attention to details, excellent problem-solving skills.

Worked in different research teams in the last 6 years, ability to follow detailed work instructions

## PUBLICATIONS

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**Simon A**, O'Flaherty R, Gonzalez-Quintela A, Gude F, Fahey R. Serum N-glycans can aid the classical biomarkers to differentiate between abstainers and heavy drinkers. *Glycobiology*. 2020. Article submitted.

Kovacs Z, Gebri E, Meszaros B, Jankovics H, Vonderviszt F, Kiss A, **Simon A**, Botka S, Hortobagyi T, Guttman A. N-glycomic analysis of Z(IgA1) partitioned serum and salivary immunoglobulin A by capillary electrophoresis. *Curr Mol Med*. 2020. Article in print.

**Simon A**, Gulyas G, Meszar Z, Bhide M, Olah J, Bai P, Csoz E, Javor A, Komlosi I, Remenyik J, Czeglédi L. Proteomics alterations in chicken jejunum caused by 24 h fasting. *PeerJ*. 2019;7:e6588.

**Simon A**, Nemeth J, Javor A, Komlosi I, Bai P, Olah J, Juhasz B, Kiss R, Szilvassy Z, Czeglédi L. Feeding state and age dependent changes in melanin-concentrating hormone expression in the hypothalamus of broiler chickens. *Acta Biochim Pol*. 2018;65(2):251-8.

**Simon A**, Javor A, Bai P, Olah J, Czeglédi L. Reference gene selection for reverse transcription quantitative polymerase chain reaction in chicken hypothalamus under different feeding status. *J Anim Physiol Anim Nutr*. 2018;102(1):286-96.

Kovacs Z, **Simon A**, Szabo Z, Nagy Z, Varoczy L, Pal I, et al. Capillary electrophoresis analysis of N-glycosylation changes of serum paraproteins in multiple myeloma. *Electrophoresis*. 2017;38(17):2115-23.

**Simon A**, Olah J, Komlosi I, Javor A, Nemeth J, Szilvassy Z, Reglodi D, Tamas A, Czeglédi L. Changes in expression of neuropeptides and their receptors in the hypothalamus and gastrointestinal tract of calorie restricted hens. *Acta Biol Hung*. 2017;68(3):237-47.

## REFERENCES

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Are available on request.