



# Valentin Nica

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## WORK EXPERIENCE

**RESEARCHER – UMF "IULIU HATIEGANU"** – 01/10/2023 – Current – CLUJ-NAPOCA, ROMANIA

**UNIVERSITY TEACHING ASSISTANT – UMF "IULIU HATIEGANU"** – 02/2021 – Current – CLUJ-NAPOCA, ROMANIA

**GENETICIST** – 2023 – Current – ROMANIA

**RESIDENT DOCTOR MEDICAL GENETICS – SPITALUL DE URGENTE PENTRU COPII** – 01/01/2019 – 31/12/2022 – CLUJ-NAPOCA, ROMANIA

## EDUCATION AND TRAINING

09/2019 – CURRENT Cluj-Napoca, Romania  
**PHD STUDENT** UMF "Iuliu Hatieganu"

2019 – 2022  
**MEDICAL GENETICIST** Romanian Ministry of Health

31/08/2011 – 16/06/2017 Chisinau, Moldova  
**DOCTOR** USMF "Nicolae Testemitanu"

## LANGUAGE SKILLS

Mother tongue(s): **ROMANIAN** | **RUSSIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
<b>ENGLISH</b>	C1	C1	C1	C1	C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

## PUBLICATIONS

2025  
[Risk Allele Regulating IRF5 Expression Is Associated with Enhanced IL-1 \$\beta\$  Production in Response to Palmitate and Monosodium Urate Crystals](#)

Nica V, Gaal O, Badii M, Cabău G, Mirea AM, Hotea I, Pamfil C, Rednic S, Popp RA, Netea MG, Crişan TO, Joosten LAB. International Journal of Molecular Sciences. 2025; 26(20):9930. doi: 10.3390/ijms26209930. PMID: 41155224; PMCID: PMC12563284.

2025

## [Monosodium urate crystals exposure is associated with limited transcriptional changes in primary human PBMCs](#)

Nica, V., Badii, M., Gaal, O., Cabău, G., Cleophas, M., Naidu, A., Hotea, I., Jansen, T.L., Pamfil, C., Rednic, S., Popp, R.A., Li, Y., Crişan, T.O. & Joosten, L.A.B.. (2025). Monosodium urate crystals exposure is associated with limited transcriptional changes in primary human PBMCs. *Romanian Journal of Internal Medicine*, 0(0), 2025. doi: 10.2478/rjim-2025-0019

2024

## [Downregulation of type I interferon signalling pathway by urate in primary human PBMCs.](#)

Badii M, Nica V, Straton AR, Kischkel B, Gaal O, Cabău G, Klück V, Hotea I; HINT Consortium; Novakovic B, Pamfil C, Rednic S, Netea MG, Popp RA, Joosten LAB, Crişan TO. Downregulation of type I interferon signalling pathway by urate in primary human PBMCs. *Immunology*. 2024 Oct 1. doi: 10.1111/imm.13858. Epub ahead of print. PMID: 39354748.

2022

## [The future clinical implications of trained immunity](#)

Nica, V., Popp, R. A., Crişan, T. O., & Joosten, L. A. B. (2022). The future clinical implications of trained immunity. *Expert Review of Clinical Immunology*, 18(11), 1125–1134. <https://doi.org/10.1080/1744666X.2022.2120470>

2024

## [Gout-associated SNP at the IL1RN-IL1F10 region is associated with altered cytokine production in PBMCs of patients with gout and controls](#)

Gaal O, Leask M, Nica V, Cabău G, Badii M, Hotea I, de Graaf DM, Zhang Z, Li Y, Pamfil C, Rednic S, Merriman TR, Crişan TO, Joosten LAB. Gout-associated SNP at the IL1RN-IL1F10 region is associated with altered cytokine production in PBMCs of patients with gout and controls. *Arthritis Res Ther*. 2024 Nov 20;26(1):205. doi: 10.1186/s13075-024-03436-0. PMID: 39568029; PMCID: PMC11577629.

2024

## [Sex-Specific Differences in Cytokine Production Capacity in Patients with Gout Compared to Controls](#)

Badii M, Gaal OI, Hotea I, Nica V, Mirea AM, Mărginean D, HINT Consortium, Pamfil C, Rednic S, Popp RA, et al. Sex-Specific Differences in Cytokine Production Capacity in Patients with Gout Compared to Controls. *Gout, Urate, and Crystal Deposition Disease*. 2024; 2(2):133-143. <https://doi.org/10.3390/gucdd2020012>

2024

## [Regulation of SOCS3-STAT3 in urate-induced cytokine production in human myeloid cells.](#)

Badii M, Klück V, Gaal O, Cabău G, Hotea I, Nica V, Mirea AM, Bojan A, Zdrenghea M; HINT Consortium; Novakovic B, Merriman TR, Liu Z, Li Y, Xu CJ, Pamfil C, Rednic S, Popp RA, Crişan TO, Joosten LAB. Regulation of SOCS3-STAT3 in urate-induced cytokine production in human myeloid cells. *Joint Bone Spine*. 2024 May;91(3):105698. doi: 10.1016/j.jbspin.2024.105698. Epub 2024 Feb 1. PMID: 38309518.

2024

## [GWAS-identified hyperuricemia-associated IGF1R variant rs6598541 has a limited role in urate mediated inflammation in human mononuclear cells](#)

Gaal, O.I., Liu, R., Marginean, D. *et al.* GWAS-identified hyperuricemia-associated *IGF1R* variant rs6598541 has a limited role in urate mediated inflammation in human mononuclear cells. *Sci Rep* **14**, 3565 (2024). <https://doi.org/10.1038/s41598-024-53209-7>

2023

## [Hyperuricemia remodels the serum proteome toward a higher inflammatory state](#)

Cabău G, Gaal O, Badii M, Nica V, Mirea AM, Hotea I; HINT-consortium; Pamfil C, Popp RA, Netea MG, Rednic S, Crişan TO, Joosten LAB. Hyperuricemia remodels the serum proteome toward a higher inflammatory state. *iScience*. 2023 Sep 14;26(10):107909. doi: 10.1016/j.isci.2023.107909. PMID: 37810213; PMCID: PMC10550725.

## ● **PROJECTS**

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2020 - CURRENT

### **Member of the HINT Consortium**

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Part of the HINT and HINT-2 research projects, with the main role - bioinformatic analysis of large datasets. A lot of experience working with the following type of analysis: genotyping data - quality control, imputation and genome-wide association analysis; bulk transcriptome data - quality control, differential expression and pathway analysis.

## ● **SKILLS**

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Microsoft Word | Microsoft Excel | Microsoft Powerpoint | R Programming | R for statistics | General Bioinformatics Applications

## ● **DRIVING LICENCE**

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**Driving Licence:** B

## ● **COMMUNICATION AND INTERPERSONAL SKILLS**

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### **Communication, teaching and presentation skills**

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Work experience as an university assistant at the medical genetics department from 2021. Active participation in various events and talks.

Multiple presentations at international conferences, such as "European Crystal Network" and "Gout, Hyperuricemia and Crystal-Associated Disease Network".