**Personal Information** **Mihăilescu Alexandra-Maria**

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## Work Experience

2025 – Present

Lecturer — Department of Medical Genetics
"Victor Babeș" University of Medicine and Pharmacy, Timișoara

Senior Specialist Physician in Medical Genetics
Institute of Forensic Medicine Timișoara — Forensic Genetics Laboratory

## Education and Training

2022

Psycho-pedagogical Training Program Level I and II (60 ECTS)
West University of Timișoara

10.02.2022

PhD in Medicine
"Victor Babeș" University of Medicine and Pharmacy Timișoara
Thesis: Polymorphic Variations in Children with Obesity and Insulin Resistance
Grade: Summa cum laude

2001-2007

Medical Degree
Faculty of General Medicine
"Victor Babeș" University of Medicine and Pharmacy Timișoara

Languages English — B2 (independent user)

**Scientific Publications (selection)**
**Articles published in ISI indexed journals:**

1. Stan, E.; Muresan, C.-O.; Dumache, R.; Ciocan, V.; Ungureanu, S.; Mihailescu, A.; Daescu, E.; Duda-Seiman, C.; Menghiu, G.; Hutanu, D.; et al. From Jane Doe to Sofia: DNA Extraction Protocol from Bones and Teeth without Liquid Nitrogen for Identifying Skeletal Remains. Int. J. Mol. Sci. 2024, 25, 5114. https://doi.org/10.3390/ijms25105114; IF=4,9
2. Raluca Dumache, Alexandra Mihailescu*, Dana Liana David, Flavius- Lucian Herlo, Gabriel Verdeş, Dan Brebu, Ionuţ Faur, Vlad Braicu, Amadeus Dobrescu, Ciprian Duţă. Polymorphisms Of CD44 Rs187115 As A Predictive Biomarker In Early Colorectal Cancer Diagnostic. Chirurgia. 2024. DOI: 10.21614/Chirurgia.3007; IF=0,8
3. Ionescu A, Mihăilescu A, Chiriță-Emandi A, Munagala N, David VL, Dumache R, Săndesc D, Bedreag O, Folescu R, Bratosin F, Barata PI, Cristescu DM, Săndesc MA. Assessing Differential Transfusion Requirements for Children with Congenital Malformations vs. Pediatric Acute Abdomen Emergencies. Diagnostics (Basel). 2024 Oct 4;14(19):2216. doi: 10.3390/diagnostics14192216. PMID: 39410620; IF=3,0
4. Andreescu N, Sharma A, Mihailescu A, Zimbru CG, David VL, Horhat R, Kundnani NR, Puiu M, Farcas S. Chest wall deformities and their possible associations with different genetic syndromes. Eur Rev Med Pharmacol Sci. 2022 Jul;26(14):5107-5114. doi: 10.26355/eurrev_202207_29298. PMID: 35916808; IF=3,3
5. Dumache R, Enache A, Macasoi I, Dehelean CA, Dumitrascu V, Mihailescu A, Popescu R, Vlad D, Vlad CS, Muresan C. SARS-CoV-2: An Overview of the Genetic Profile and Vaccine Effectiveness of the Five Variants of Concern. Pathogens. 2022 Apr 26;11(5):516. doi: 10.3390/pathogens11050516. PMID: 35631037; PMCID: PMC9144800; IF=3,4
6. Alexandra Enache, Veronica Ciocan, Camelia Oana Muresan, Talida Georgiana Cut, Dorin Novacescu, Corina Paul, Nicoleta Andreescu, AMihailescu, Marius Raica and Raluca Dumache. Postmortem Documentationof SARS-CoV-2 in Utero and Postpartum Transmission, through Amniotic Fluid,Placental, and Pulmonary Tissue RT-PCR. Appl. Sci. 2021, 11(20), 9505; https://doi.org/10.3390/app11209505; IF=2,67
7. Mihailescu, A.;Serafim,V.; Paul, C.; Andreescu, N.; Tiugan, D.-A.; Tutac, P.; Velea, I.; Zimbru, C.G.; Serban, C.L.; Ion, A.I.; et al. Docosahexaenoic Acid and Eicosapentaenoic Acid Intakes Modulate the Association of FADS2 Gene Polymorphism rs526126 with Plasma Free Docosahexaenoic Acid Levels in Overweight Children. Appl. Sci.2021,11,9845. https://doi.org/ 10.3390/app11219845; IF=2,679
8. Alin Ionescu, Abhinav Sharma, Nilima Rajpal Kundnani*, Alexandra Mihăilescu, et al; Intravenous iron infusion as an alternative to minimize blood transfusion in perioperative patients, Sci Rep; 2020 Oct 27;10(1):18403. doi: 10.1038/s41598-020-75535-2; IF= 3,99
9. Vlad Serafim, Diana-Andreea Tiugan, Nicoleta Andreescu*, Alexandra Mihăilescu, Corina Paul, Iulian Velea, Maria Puiu and Mihai Dinu Niculescu; Development and Validation of a LC– MS/MS-Based Assay for Quantification of Free and Total Omega 3and 6 Fatty Acids from Human Plasma; Molecules 2019 Jan 20; 24(2):360. doi: 10.3390/molecules24020360 2019; IF = 3.2
10. Raluca Dumache, Maria Puiu, A.Mihăilescu, Alexandra Enache; Detection of Mutations in Short Tandem Repeats (STRs)Loci in Paternity Testing in Romanian Population; Clinical Laboratory 2020, doi: 10.7754/Clin.Lab.2020.200103; IF=1,224
11. Adela Chirita-Emandi, Nicoleta Andreescu, Cristina Popa, Alexandra Mihăilescu, Anca-Lelia Riza, Razvan Plesea, Mihai Ioana, Smaranda Arghirescu, Maria Puiu; Biallelic variants in BRCA1 gene cause a recognisable phenotype within chromosomalinstability syndromes reframed as BRCA1 deficiency;Journal of Medical Genetics 2020; IF= 6.318
12. Vlad Serafim, Adela Chirita-Emandi, Nicoleta Andreescu*, Diana- Andreea Tiugan, Paul Tutac, Corina Paul, Iulian Velea, Alexandra Mihăilescu, Costela Lăcrimioara Șerban, Cristian G. Zimbru, Maria Puiu, Mihai Dinu Niculescu; Single Nucleotide Polymorphisms in PEMT and MTHFR Genes are Associated with Omega 3 and 6 Fatty Acid Levels in the Red Blood Cells of Children with Obesity; Nutrients.2019 Oct 30;11(11):2600. doi: 10.3390/nu11112600; IF=4.171
13. R. Dumache, A. Enache, C. Paul, A. Mihailescu, A. Ionescu, D. Novacescu, A. Marinescu, V. Ciocan, C. Muresan, A. Voicu Deficiency of Vitamin D, a Major Risk Factor for SARS-CoV-2 Severity, CLINICAL LABORATORY 2022 68 (3), pp.455-462 F=0,7

14. Adela Chirita-Emandi, Costela Lacrimioara Serban, Corina Paul, Nicoleta Andreescu, Iulian Velea, Alexandra Mihailescu, Vlad Serafim, Diana-Andreea Tiugan, Paul Tutac, Cristian Zimbru, Maria Puiu, Mihai Dinu Niculescu. CHDH- PNPLA3 Gene–Gene Interactions Predict Insulin Resistance in Children with Obesity. Diabetes Metab Syndr Obes. 2020 Nov 19;13:4483-4494.IF=3.168

**Research Projects**

Project co-funded by the European Social Fund under the Human Capital Operational Programme 2014–2020
Priority Axis 4: Social inclusion and combating poverty
Project title: Professional Training of Medical Personnel in Medical Genetics – PROGEN
SMIS code: 107623
POCU Contract: 91/4/8/107623/08.12.2017 (12.2017–12.2019)

Competitiveness Operational Programme 2014–2020
Priority Axis 1 – Research, technological development and innovation to support economic competitiveness and business development
Project title: Use of nutrigenomic models for the personalized treatment with medical foods in obese individuals (NutriGen)
Period: 2016–2019

Expansion of medical and community services for people affected by genetic and rare diseases (MEDI.COM-RARE)
Contract no.: AR 19076/26.10.2022

**Professional Affiliations**

- European Society of Human Genetics (ESHG)
- Romanian Society of Medical Genetics
- Board member of a national scientific society