

Dr. Monica Dolha-narrative CV

Back in the realm of science, serving as a laboratory technician: overjoyed to rejoin a dynamic research team and take part in the world of scientific discovery.

Monica Dolha is a laboratory technician in the Centre of Environmental Radioactivity and Nuclear Dating within the Interdisciplinary Research Institute on Bio-Nano-Sciences of Babeş-Bolyai University (BBU), Cluj-Napoca, Romania. She did her bachelor's degree and a master's degree in environmental sciences at the Faculty of Environmental Science and Engineering at Babeş-Bolyai University (BBU), Cluj-Napoca, Romania. Following which, she pursued her PhD in Environmental Sciences at BBU and defended her PhD in 2016, titled "Thermoluminescence dosimetry applied in environmental radioactivity monitoring". Her PhD thesis developed a reliable dosimetric system to implement monitoring activities concerning environmental radioactivity in Romania. Dr. Dolha's research has been published in peer-reviewed journals and has made a significant contribution to the field of environmental radiation dosimetry in Romania.

From 2016 to 2023, Dr. Dolha took some time away on maternity leave and for parental responsibilities. In July 2023, she joined as a laboratory technician in the Centre of Environmental Radioactivity and Nuclear Dating. Her present work is aimed at physical and chemical preparation of samples in the laboratory as well as guiding students with their laboratory-related work.

Annex- Career timeline and listed achievements

Personal Information

Family name, First name: **Dolha Monica**

Date of birth: 24 May 1986

Education

2016: PhD in Environmental Science, Babeş-Bolyai University, Cluj-Napoca, Romania, supervised by Prof. Dr. Constantin Cosma; PhD thesis title: „*Thermoluminescence dosimetry applied in environmental radioactivity monitoring*”.

2009 - 2011: Master “Environmental quality and energy sources”, Faculty of Environmental Science and Engineering, Babeş-Bolyai University, Cluj-Napoca, Romania. Master thesis: “*Applications of thermoluminescence dosimetry in medical area*”

2005 - 2010: Bachelor's degree in environmental engineering, Faculty of Environmental Science and Engineering, BBU.

Current position

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2023-present: Laboratory technician, Interdisciplinary Research Institute on Bio-Nano-Sciences, Babeş-Bolyai University, Cluj-Napoca, Romania.

List of Publications

Book Chapters

Zeciu-Dolha M., A.R. Paşcu, Timar-Gabor A., capitol „Environmental Dosimetry” in „Thermoluminescence dosimetry (TL) and optically stimulated dosimetry (OSL): applications in environmental studies”, Presa Universitară Clujeană Publishing, 2013, pag.89-130.

Zeciu-Dolha M., Timar-Gabor A., capitol „Applications of thermoluminescence and optically stimulated luminescence in medical dosimetry” in „Thermoluminescence dosimetry (TL) and optically stimulated dosimetry (OSL): applications in environmental studies”, Presa Universitară Clujeană Publishing, 2013, pag.131-156.

Timar-Gabor A., **Zeciu-Dolha M.**, Paşcu A.R., capitol „Thermoluminescence and optically stimulated luminescence dosimetry principles” in „Thermoluminescence dosimetry (TL) and optically stimulated dosimetry (OSL): applications in environmental studies”, Presa Universitară Clujeană Publishing, 2013, pag.39-88.

A.R. Paşcu, Timar-Gabor A., Trandafir O., **Zeciu-Dolha M.**, „Retrospective accident dosimetry” in „Thermoluminescence dosimetry (TL) and optically stimulated dosimetry (OSL): applications in environmental studies”, Presa Universitară Clujeană Publishing, 2013, pag.157-227.

Articles in indexed journals

1. **Dolha, M.**, Timar-Gabor, A., Dicu, T., Cosma, C., **2016**. Measurements of terrestrial gamma dose rates and radon concentrations from indoor air and water in Transylvania region. *Romanian Reports in Physics*, **69**, 701. <http://www.rrp.infim.ro/IP/A153.pdf>
2. **Dolha M.**, Timar-Gabor A., Dicu T., Begy R., Anton, M., Cosma C., **2014**. A high resolution map of gamma dose rates in Cluj County, Romania using LiF: Mg, Cu, P detectors. *Radiation Protection Dosimetry*, 162, 1-2, 14-19
3. **Zeciu-Dolha M.**, Timar-Gabor A., Camenita A., Costin D., Cosma C, **2013**. Gamma background measurements by TL method: applications in locations with varied geological background. *Carpathian Journal of Earth and Environmental Sciences*, 8(4), 109-114. <http://www.ubm.ro/CJEES/>
4. Paşcu A.R., Vasiliniuc, S., **Zeciu-Dolha M.**, Timar-Gabor A., **2013**. The potential of luminescence signals from electronic components for accident dosimetry. *Radiation Measurements*, 56, 384-388. <http://www.sciencedirect.com/science/article/pii/S1350448713001455>