

Peer-review publications

1. Melintescu, A. Patryl, L., Dorobantu, I., Galeriu, D., (2019) Interception and uptake by plants leaves of tritium from precipitation. Submitted to *J. Environ. Radioact.*
2. Melintescu, A., Galeriu, D., (2019) Upgrades of CROPTRIT model including day and night dynamics of tritium in crops. Submitted to *J. Environ. Radioact.*
3. Beresford, N.A., Coplestone, D., Melintescu, A., Barnett, C.L., Beaugeline-Seiller, K., H. Vandenhove, H., Caffrey, E., Rueding, E., Johansen, M.P., Vives y Battle, J., Brown, J., Yankovich, T., Wood, M.D., Doering, C. (2019) Assessing the exposure of wildlife to ionising radiation: lessons learnt during IAEA EMRAS and MODARIA programmes. Submitted to *J. Environ. Radioact.*
4. Melintescu, A., Beresford, N.A., Galeriu, D. (2019) An improved dynamic metabolic ^3H and ^{14}C model for application to biota. Submitted to *J. Environ. Radioact.*
5. Melintescu, A., Chambers, S.D., Crawford, J., Williams, A.G., Zorila, B., Galeriu, D. (2018) Radon-222 related influence on ambient gamma dose. *J. Environ. Radioact.* 189:67-78
6. Melintescu, A. (2018) A celebration: Dr Dan Galeriu 1947-2017 (republication). *J. Radiol. Prot.* 38 (2018) 463–465
7. Melintescu, A. (2017) A celebration: Dr. Dan Galeriu 1947-2017. *J. Environ. Radioact.* 177: 305-306
8. Galeriu, D., Melintescu, A. (2017) Relevance of night production of OBT in crops. *Fusion Sci. Technol.* 71:595-599
9. Melintescu, A., Galeriu, D. (2017) Uncertainty of current understanding regarding OBT formation in plants. *J. Environ. Radioact.* 167:134-149

Conferences and workshops

1. A. Melintescu, “Dynamic energy budget models for ^3H and ^{14}C – are they useful for biota?”, Oral presentation at The Fourth Technical Meeting on Modelling and Data for Radiological Impact Assessment (MODARIA II), IAEA Vienna, 21 – 24 October 2019
2. A. Melintescu, N.A. Beresford, “An improved dynamic metabolic ^3H and ^{14}C model for application to biota”, Oral presentation at 8th Organically Bound Tritium Workshop, September, 1 – 5, 2019, Constanta, Romania
3. A. Melintescu, ”DEB-Tox models – useful tools for radioactive pollutants”, Oral presentation at The 2019 Interim Meeting of MODARIA II Working Group 5 on Exposure and Effects to Biota, IAEA Vienna, 3-5 July 2019
4. A. Melintescu, ”OBT and human tritium dosimetry”, BIO Web of Conferences **14**, 02002 (2019) HEIR 2018, <https://doi.org/10.1051/bioconf/20191402002> , Oral presentation at The 12th International Conference on the Health Effects of Incorporated Radionuclides (HEIR 2018), October 8 -11, 2018, Fontenay-aux-Roses, France
5. A. Melintescu, ”Understanding the risk coming from tritium exposure”. Invited lecture, at Subatech, Université de Nantes Atlantique, Nantes, France, 28 November 2018
6. A. Melintescu, ”Application of DEB-Tox Models for radioactive pollutants including H-3 and C-14 in case of biota”, Oral presentation at The Third Technical Meeting on the

Development, Testing and Harmonization of Models and Data for Radiological Impact assessment (MODARIA II), IAEA Vienna, 22-25 October 2018

7. A. Melintescu, I. Dorobantu, "Formation of NE-OBT in plants by photosynthetic and non-photosynthetic processes", Oral presentation at The Seventh Organically Bound Tritium (OBT) Workshop, Toronto, Ontario, Canada, September 24-26, 2018.

8. A. Melintescu, "Review of concepts in radiobiological models – an emphasis on H-3 si C-14", Oral presentation at The 2018 Interim Meeting of MODARIA II - Working Group 5 on Exposure and Effects to Biota, IAEA Vienna, 18-22 June 2018

9. Anca Melintescu, Dan Galeriu, "OBT production in crops at night including leaf protein turnover – validation with experimental data", oral presentation, 6th OBT Workshop: Research, analysis and intercomparison results, Winchester, UK, 9 - 11 October 2017

10. Anca Melintescu, "Remembering Dan Galeriu: A Eulogy", invited presentation, 6th OBT Workshop: Research, analysis and intercomparison results, Winchester, UK, 9 - 11 October 2017

11. Anca Melintescu, Dan Galeriu, Catalin Lazar, "Upgrades of CROPTRIT model including day and night dynamics of tritium in crops", oral presentation, 4th International Conference on Radioecology and Environmental Radioactivity (ICRER) Berlin, Germany, 3-8 September 2017

12. Dan Galeriu, Anca Melintescu, Scott Chambers, Jagoda Crawford, Alastair Williams, Bogdan Zorila, "Radon influence on ambient gamma dose", oral presentation, 4th International Conference on Radioecology and Environmental Radioactivity (ICRER) Berlin, Germany, 3-8 September 2017.

Chapters in books

1. Melintescu, A., Galeriu, D. (2018). Probability distribution functions for tritium. In: Uncertainty and variability analysis for assessments of radiological impacts arising from routine discharges of radionuclides. TECDOC of Working Group 5 – Routine discharges. MOdelling and Data for Radiological Impact Assessments (MODARIA I) Programme. IAEA- International Atomic Energy Agency Vienna, in press

2. Melintescu, A. (2019) DEB-Tox Models for biota. In: Biota modelling: Further development of transfer and exposure models and application to scenarios. TECDOC of Working Group 5 – Exposure and Effects to Biota. MOdelling and Data for Radiological Impact Assessments (MODARIA II) Programme. IAEA- International Atomic Energy Agency Vienna, in press