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## Research Topics

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### Paleoclimate and Karst Geomorphology

- Palaeoenvironmental changes revealed by multi-proxy records from caves
- Stable isotope variations in water and speleothems

### Other

- Paleontology
- Taphonomy

## Research projects

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- National Geographic Society: *Environment of the Southern Carpathians during the Last Ice Age - exploring an exceptional new fossil deposit în Peștera Muierilor*, Romania. Mai 2015 – Iulie 2016 – member
- PN-II-RU-TE-2014-4-2301: *Multidisciplinary research of Muierilor Cave fossil deposit aiming at reconstruction of abrupt climate changes in the Upper Pleistocene of SW Romania* – member
- IFA-CEA C4-08: *Climate change teleconnections between Western and Eastern Europe based on speleothem records of the Last Interglacial in France and Romania (FREem)* -member
- EEA-JRP-RO-NO-2013-1-0259, Contract nr. 17\_SEE/30.06.2014: *Cavemonitor. Monitoring human impact in show caves – a pilot project on monitoring protocols and remediation techniques to be implemented in Romanian show caves* - member
- Contract 2718/2013 CJB-N - Lot 1 și Lot 2. *Efficient management in national protected area and community importance Tăușoare Cave* April 2013 – July 2014 - member
- PCCE-IDEI 31/2010: : *Climate archives in karst - an integrated approach to the study and modeling of abrupt climate oscillations (KARSTHIVES)*. January 2011- June 2013 - member
- *GIS analysis and model development for the pre-feasibility study of the wilderness areas from the South Western Carpathians, linked to the project „South-Western Carpathian Wilderness”, financed by the European Commission, July 2011 – February 2012;*
- *Cave surveying -Grant 146/2010. Mapping cave habitats and evaluating the conservation status of the Chiroptera species from the most important caves in the Buila Vânturarița National Park – 2010 – 2011- member*

## Chapters

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- Drăgușin V., Tîrlă L., **Mirea I.**, The caves of the Făgăraș Mountains. In: Onac B.P., Ponta G. (Eds), *Caves and Karst Systems of Romania*. Springer.
- Măntoiu D.S., Nistorescu M.C., Șandric I.C., **Mirea I.-C.**, Hăgățiș A., Stanciu, E., 2016. Wilderness Areas in Romania: A case study on the South Western Carpathians. In: Carver S.J., Fritz S. (Eds), *Mapping Wilderness: Concepts, Techniques and Applications*. Springer Netherlands, 204 p. ISBN: 940 -177- 397-1 (pp. 145 – 156).

## Publications (ISI – 1, 1 in print, other – 2)

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- Tîrlă L., **Mirea I.**, Vijulie I. Geomorphological and structural patterns of the scarp-related steep dry valleys in limestone ridges: A case study from South Carpathians, Romania. *Geomorphologie: relief, processus, environnement*, IF 0.673 (in press).

- Tîrlă L., Drăgușin V., **Mirea I.**, Cojocaru T., Speleomorphology of M3-R2 – the highest cave in SE Carpathians, *Revista de Geomorfologie* (in press).
- Robu M., Petculescu A., **Mirea I-C.**, Kenesz M., Vlaicu M., Constantin S. 2016b. *Carnivore impact and dispersal analysis of the cave bear assemblage from Urșilor Cave, north-western Romania*. Acta Carsologica.
- Constantin S., Robu M., Munteanu C.-M., Petculescu A., Vlaicu M., **Mirea I.**, Kenesz M., Drăgușin V., Hoffman D., Anechitei V., Timar-Gabor A., Roban R.-D., Panaiotu C.-G., 2013. *Reconstructing the evolution of cave systems as a key to understanding the taphonomy of fossil accumulations: The case of Urșilor Cave (Western Carpathians, Romania)*. Quaternary International 339-340, 25-40 (IF 2.13).