

<http://news.doctorat.ubbcluj.ro/>

Doctoral School of Integrative Biology

1. PhD Student:

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2. Doctorate

2.1. PhD thesis title: The investigation of some superlative baobabs (*Adansonia* spp.) by AMS radiocarbon dating for assessing the ages, architecture and growth rates, and by stable isotope analysis respectively, for climate study

2.2. PhD coordinator: Prof. Dr. László Rákósy

2.3. Date of PhD thesis defense (link from site): 29.01.2021 (Link: <https://zoom.us/j/91495629268?pwd=QS96cEplMk9HOHFZR3dOeW4yS0sxQT09>)

2.4. Grade: Excellent

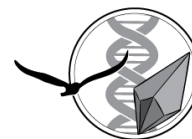
3. Scientific articles published in:

3.1. Impact factor journals (IF, AIS):

3.1.1. Patrut, A., Woodborne, S., Patrut, R.T., Hall, G., Rakosy, L., von Reden, K.F., Lowy, D.A., Margineanu, D. (2015). Radiocarbon dating of African baobabs with two false cavities: The investigation of Luna tree, *Studia UBB Chemia*, LX(4): 7-20. (IF: 0.244 0.055).

3.1.2. Patrut, A., Patrut, R.T., Danthu, P., Leong Pock-Tsy, J.-M., Rakosy, L., Lowy, D.A., von Reden, K.F. (2016). AMS radiocarbon dating of large za baobabs (*Adansonia za*) of Madagascar. *PLoS ONE*, 11(1): e0146977. doi:10.1371/journal.pone.0146977. (IF: 3,034 AIS 1,819).

3.1.3. Patrut, A., Patrut, R.T., Rakosy, L., Bodis, J., Lowy, D.A., Forizs, E., von Reden, K.F. (2016). African baobabs with double closed ring-shaped structure and two separate false cavities: Radiocarbon investigation of the baobab of Golconda



Fort. *Studia UBB Chemia*, LXI(4): 21-30. doi: 10.24193/subbchem.2017.1.09. (IF: 0.244 AIS 0.078).

3.1.4. Patrut, A., Rakosy, L., Patrut, R.T., Ratiu, I.A., Forizs, E., Margineanu, D., von Reden, K.F. (2016). Radiocarbon dating of a very old baobab from Savé Valley, Zimbabwe. *Studia UBB Chemia*, LXI, 4, 7-20. (IF: 0.246 AIS 0.055).

3.1.5. Patrut, A., Garnaud, S., Ka, O., Patrut, R.T., Diagne, T., Lowy, D.A., Forizs, E., Bodis, J., von Reden, K.F. (2017). African baobabs with a very large number of stems and false stems: Radiocarbon investigation of the baobab of Warang. *Studia UBB Chemia*, LXII(1): 111-120. doi:10.24193/subbchem.2017.1.09. (IF: 0.244 AIS 0.078).

3.1.6. Patrut, A., Woodborne, S., Patrut, R.T., Rakosy, L., Hall, G., Ratiu, I.A., von Reden, K.F. (2017). Final radiocarbon investigation of Platland tree, the biggest African baobab. *Studia UBB Chemia*, LXII(2): 347-354. doi:10.24193/subbchem.2017.2.27. (IF: 0.244 AIS 0.078).

3.1.7. Patrut, A., Woodborne, S., von Reden, K.F., Hall, G., Patrut, R.T., Rakosy, L., Danthu, P., Leong Pock-Tsy, J.-M., Lowy, D.A., Margineanu, D. (2017). The growth stop phenomenon of baobabs (*Adansonia* spp.) identified by radiocarbon dating. *Radiocarbon*, 59(2): 435-448. doi:10.1017/RDC.2016.92. (factor de impact: 4.565 AIS 2.267).

3.1.8. Patrut, A., Patrut, R.T., Van Pelt, R., Lowy, D.A., Forizs, E., Bodis, J., Margineanu, D., von Reden, K.F. (2017). Radiocarbon dating of a very large African baobab from Limpopo, South Africa: Investigation of the Sagole Big tree. *Studia UBB Chemia*, LXII(2): 355-364. doi:10.24193/subbchem.2017.2.28. (IF: 0.244 AIS 0.078).

3.1.9. Woodborne, S., Hall, G., Jones, C.W., Loader, N.J., Patrut, A., Patrut, R.T., Robertson, I., Winkler, S.R., Winterbach, C.W. (2018). A 250-year, proxy rainfall record from southern Botswana. *Studia UBB Chemia*, LXIII(1): 109-123. doi:10.24193/subbchem.2018.1.09. (IF: 0,244 AIS 0,085).

3.1.10. Patrut, A., Patrut, R.T., Rakosy, L., Ratiu, I.A., Lowy, D.A., Bodis, J., von Reden, K.F. (2018). Radiocarbon dating of the old ash of Aiton, Romania, *Studia UBB Chemia*, LXIII(3): 41-47. (IF: 0,244 AIS 0,085).

3.1.11. Patrut, A., Robu, N., Savu, V., Patrut, R.T., Rakosy, L., Ratiu, I.A., Lowy, D.A., Margineanu, D., von Reden, K.F. (2018). Radiocarbon investigation of the



pedunculate oak of Botoșana. *Studia UBB Chemia*, LXIII(4): 13-20. (IF: 0,244 AIS 0,085).

3.1.12. Patrut, A., Woodborne, S., Patrut, R.T., Rakosy, L., Lowy, D.A., Hall, G., von Reden, K.F. (2018). The demise of the largest and oldest African baobabs. *Nature Plants*, 4: 423-426. doi: 10.1038/s41477-018-0170-5. (IF: 13.297, AIS 14.846)

3.1.13. Patrut, A., Patrut, R.T., Rakosy, L., Lowy, D.A., Margineanu, D., von Reden, K.F. (2019). Radiocarbon investigation of the superlative African baobabs from Savé Valley Conservancy, Zimbabwe. *Studia UBB Chemia*, LXIV(2): 7-14. doi: 10.24193/subbchem.2019.2.35. (IF: 0.244 AIS 0.085).

3.1.14. Patrut, R.T., Patrut, A., Leong Pock-Tsy, J.-M., Woodborne, S., Rakosy, L., Danthu, P., Ratiu, I.A., Bodis, J., von Reden, K. (2019). Radiocarbon investigation of a superlative Grandidier baobab, the Big Reniala of Isosa, *Studia UBB Chemia*, LXIV(4): 131-139. doi: 10.24193/subbchem.2019.4.10. (IF: 0.244 AIS 0.085).

3.1.15. Patrut, A., Woodborne, S., Patrut, R.T., Hall, G., Rakosy, L., Winterbach, C., von Reden, K.F. (2019). Age, growth and death of a national icon: the historic Chapman baobab of Botswana. *Forests*, 10(11): 983. doi: 10.3390/f10110983. (IF: 2.116 AIS 1.430).

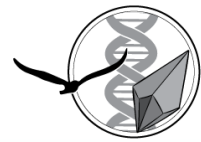
3.1.16. Patrut, R.T., Patrut, A., Rakosy, D., Rakosy, L., Löwy, D.A., Bodis, J., von Reden, K. (2020). Radiocarbon dating of Makuri Lê boom, a very old African baobab from Nyae Nyae, Namibia. *Studia UBB Chemia*, LXV(2): 149-159. doi: 10.24193/subbchem.2020.2.12. (IF: : 0,244 AIS 0,085).

3.1.17. Patrut, A., Garg, A., Woodborne, S., Patrut, R.T., Rakosy, L., Ratiu, I.A., Lowy, D.A. (2020). Radiocarbon dating of two old sacred baobabs from India. *PLOS ONE*, 15(1): e0227352. doi: 10.1371/journal.pone.0227352. (IF: 0,274 AIS 1,684).

3.2. Other journals:

3.2.1. Patrut, A., Patrut, R.T., Rakosy, L., von Reden, K.F. (2020). Age and architecture of the largest African baobabs from Mayotte, France, *DRC Sustainable Future*, 1(1): 33-47. doi: 10.37281/DRCSEF/1.1.5

4. Scientific conferences/symposia (please mention the author/s, title of the conference/symposium, year, country, link)



4.1. International:

4.1.1. Radiocarbon-22 international conference, Dakar, Senegal, 16-20 November 2015, link: <https://ifan.ucad.sn/index.php/component/content/article/82-ifan/85-22nd-international-radiocarbon-conference>;

2 Poster presentations:

4.1.1.1. The growth stop phenomenon of baobabs (*Adansonia* spp.) identified by AMS radiocarbon dating (authors: Patrut A., Woodborne S., von Reden K.F., Hall G., **Patrut R.T.**, Rakosy L., Danthu P., Leong Pock-Tsy J.-M., Lowy D.A., Margineanu D.);

4.1.1.2. Radiocarbon dating of African baobabs (*Adansonia digitata*) with ring-shaped structures and false cavities (authors: **Patrut R.T.**, von Reden K.F., Woodborne S., Rakosy L., Patrut A., Hall G., Garnaud S., Lowy D.A., Margineanu D.)

4.1.2. AMS-14 international conference, Ottawa, Canada, 14-18 august 2017, link: <https://indico.cern.ch/event/546097/>;

2 poster presentations:

4.1.2.1. AMS radiocarbon dating of the largest and oldest African baobabs of Senegal (autori: Patrut A., **Patrut R.T.**, Woodborne S., von Reden K., Ka O., Garnaud S., Lowy D.A.);

4.1.2.2. AMS radiocarbon dating of baobabs from dwarf baobab groves (autori: Patrut A., Woodborne S., **Patrut R.T.**, Rakosy L., Hall G., von Rden L, Danthu P., Leong Pock-Tsy J.-M., Margineanu D.)

4.1.3. PMIP4 international conference, Stockholm, Suedia, 25-29 septembrie 2017, link: <https://pmip4.lsce.ipsl.fr/doku.php>;

4.1.3.1. A presentation: Comparing a high spatial/temporal resolution rainfall proxy dataset from southern Africa with a last millennium simulation (autori: Woodborne S., Zhang Q., Hall G., Hamilton T., Patrut A., **Patrut R.T.**);

4.1.4. Radiocarbon-23 international conference, Trondheim, Norvegia, 17-22 iunie 2018, link: <https://www.ntnu.edu/radiocarbon-2018/home>;

4.1.4.1. A poster presentation: AMS radiocarbon dating of very large African baobab trees from Savé Valley, Zimbabwe (autori: Patrut A, **Patrut R.T.**, Rakosy L., von Reden K.F., Lowy D.A., Margineanu D.);

4.1.4.2. An oral presentation by R.T. Patrut: Main results of thirteen years of radiocarbon investigation of large and old African baobab trees (autori: **Patrut R.T.**, Patrut A., Woodborne S., Rakosy L., von Reden K., Lowy D.A., Hall G, Ratiu I.-A.) **b**



4.1.5. The first international congress on baobabs, Morondava, Madagascar, 1-5 December 2019; link: <https://gspbm.org/en/home/>;

4.1.5.1. An oral presentation by A. Patrut and R.T. Patrut: Dimensions, âge, architecture, croissance, mort et conservation des plus gros Adansonia grandidieri (Patrut A., **Patrut R.T.**, Leong Pock-Tsy J.-M., Danthu P., Woodborne S., Rakosy L.)

4.2. National: -

5. Projects/Grants:

5.1. Scientific projects/grants:

5.1.1. Title: New research in dendrochronology and environmental climate change by using AMS/CFAMS radiocarbon dating and stable isotope analysis

Period: September 2013-December 2016

Coordinating institution: Faculty of Chemistry and Chemical Engineering, Babeş-Bolyai University Cluj-Napoca

Link: <http://chem.ubbcluj.ro/~apatrut/index.php>

5.1.2. Title: Age, growth and architecture of monumental angiosperm trees assessed by AMS radiocarbon investigation and climate research performed by stable isotope analysis of wood samples collected from such tree.

Period: July 2017-December 2019

Coordinating institution: Faculty of Chemistry and Chemical Engineering, Babeş-Bolyai University Cluj-Napoca

Link: <http://chem.ubbcluj.ro/~apatrut/RADACLIR/about.php>

5.2. Projects for the community: -

(please mention the title of the project/grant, period, coordinating institution, link)

6. Visibility (links):

6.1. Google Scholar:

https://scholar.google.com/citations?hl=en&view_op=list_works&authuser=1&gmla=AJsN-F56sV5T3ALcuEr14oReN6pERT-ypRoHInbaNSUOn2_iI4wSS7oBHM3UBnHKvLkFfQ1Jv44LxmSdUzUi5G6fMDFecvW3Fg&user=D1pzRBcAAAAJ

6.2. ResearchGate: https://www.researchgate.net/profile/Roxana_Patrut



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6.4. Scopus: <https://www.scopus.com/authid/detail.uri?authorId=55237928200>

6.5. Web of science: <https://app.webofknowledge.com/author/record/3141667>

Date 31.01.2021

Signature