



CURRICULUM VITAE

Amirhossein Pahlevani (PhD)

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Academic qualifications

Post-doctoral researcher: Department of Botany, University of Innsbruck, Innsbruck, Austria, Feb. – July 2018 (Funding by the Austrian Academy of sciences).

PhD (Biology, Plant Systematics): Department of Botany, Faculty of Science, Bayreuth University, Bayreuth, Germany, 2012–2017. Title of thesis: Diversity of the genus *Euphorbia* (Euphorbiaceae) in SW Asia (Supervisors: Prof. S. Liede-Schumann & Prof. H. Akhani).

MSc (weeds identification & control): Department of Agronomy, College of Agriculture, Ferdowsi University of Mashhad, Mashhad, Iran, 2003–2005. Title of thesis: Study of some ecological respects of Swallow wort (*Cynanchum acutum* L.) (Supervisors: Prof. M. Rashed Mohassel & Dr. F. Meighani).

BSc (Agricultural engineering of plants production): Department of Agronomy, College of Agriculture, Karaj Azad University, Karaj, Iran, 1999–2001.

Research interests & experience:

- Taxonomy, phylogeny & phytogeography of *Euphorbia* in the Irano-Turanian & Mediterranean regions
- Taxonomy, phylogeny & phytogeography of Apocynaceae-Asclepiadoideae
- Weed taxonomy
- Ecology & systematics of invasive and poisonous plants
- Floristic study of protected and alpine-subalpine areas with emphasis on endemism and conservation status
- Macro- and micromorphology of seeds plants
- Collecting expeditions around Iran (particularly alpine regions such as Sabalan, Sahand, Tochal, Dorfac, Geno, Karkas, Kargez, Taftan, Bozghush, Belgheis, Bol, Gavkoshan, Sebr, Shirkuh, Nizva, Mishine-Marg Mts. as well as Kolahghazi, Khabr, Bamu, Miankale and Arasbaran protected areas).

Research projects:

1. A floristical study on Euphorbiaceae in Iran, 2006-2011.
2. A colored atlas of weed seeds in Iran, 2008-2011.
3. Development of medicinal and pesticide (poisonous) plant collection in "IRAN" herbarium, 2008-2011.
4. Contribution to weed management based on revision and development of weed herbarium of the Ministry of Agriculture (IRAN) with emphasize on designing ACCESS database, 2008-2011.
5. Identification of plants in Iranian Research Institute of Plant Protection, 2011-2014.
6. Phylogeny and evolution of two sections, *Myrsiniteae* and *Patellares*, of the genus *Euphorbia* in the Irano-Turanian diversity hotspot, 2017-2019 (International project).
7. Floristic study of Mishineh-Marg Mountain of Central Alborz range, 2020-2022.
8. Floristic study of Bol Mountain of South Zagros Mountains range (Fars province), since February 2023.
9. Floristic study of Gavkoshan (Shahkuh) Mountain of Eastern Alborz range (Golestan province), since 2022.
10. Investigation on Matrine metabolite of several populations of the Iranian Pagoda (*Sophora* spp.), since June 2023.

11. Floristic study of Kahar Mountain of Central Alborz range (Alborz province), 2022-2024

Publications:

Journals papers:

1. Ghorbannia-Delavar, S., Balaei-Kahnamoei, M., Kamali, M. & **Pahlevani, A.** 2025. Evaluating the Antioxidant Activity of Four Iranian *Euphorbia* Species and Molecular Docking Analysis of Effective Compounds. *Current Enzyme Inhibition* 21: 10.2174/0115734080383638250613050818.
2. **Pahlevani, A.** & Frajman, B. 2025. Hybrid origin of an annual leafy spurge (*Euphorbia* subgen. *Esula*) from the Alborz Mountains (Iran) in the Irano-Turanian floristic region. *Plant Biosystems - an international Journal Dealing with all aspects of Plant Biology* 159(1): 103-112. <https://doi.org/10.1080/11263504.2024.2446797>.
3. Sohrabi, S., **Pahlevani, A.** & Gherekhloo, J. 2024. First escaped populations report of two ornamental and cultivated plants in Iran. *Rostaniha* 25(2): 181-190.
4. Jiménez-Mejías, P. *et al.* (1543 additional authors). 2024. Protecting stable biological nomenclatural systems enables universal communication: A collective international appeal. *Bioscience* 74(7): 467-472. <https://doi.org/10.1093/biosci/biae043>.
5. **Pahlevani, A.** & Nejad Falatoury, A. 2024. Rediscover of the Iranian endemic alpine *Arenaria bulica* after 139 years and note of the related species (Caryophyllaceae). *Phytotaxa* 646(1): 47-57.
6. Ghorbannia-Delavar, S., Moridi Farimani, M., **Pahlevani, A.**, Khoramjouy, M., Mosaddegh, M. & Faizi, M. 2023. Antinociceptive activity of Iranian *Euphorbia* species in mice: Preliminary phytochemical analysis of *Euphorbia malleata*. *South African Journal of Botany* 159: 532-543.
7. **Pahlevani, A.** & Frajman, B. 2023. Widespread, but less than assumed: populations of *Euphorbia amygdaloides* (Euphorbiaceae) from western Asia represent two new cryptic species. *Perspectives in Plant Ecology, Evolution and Systematics* 58: DOI: <https://doi.org/10.1016/j.ppees.2023.125717>.
8. Amini Rad, M. & **Pahlevani, A.** 2023. Mishine-Marg Mt., one of the highest mountains in the east of Central Alborz with diverse and rich flora. *Journal of Iranian Nature* 7(6): 103-115.

9. **Pahlevani, A.** 2022. Study of the genus *Euphorbia* and importance of its species in Iran with emphasis on biodiversity and their conservation status. *Rostaniha* 23(1): 59-78.
10. **Pahlevani, A.** & Tahbasebi, B. 2022. Reporting a new weedy *Euphorbia* species from Iran. *Rostaniha* 22 (2): 325-327.
11. **Pahlevani, A.**, Liede-Schumann, S. & Akhiani, H. 2020. Diversity, distribution, endemism and conservation status of *Euphorbia* (Euphorbiaceae) in SW Asia and adjacent countries. *Plant Systematics and Evolution* 306 (5), 80.
12. **Pahlevani, A.**, Maassoumi, A.A. & Kazempour-Osaloo, S. 2020. What is *Astragalus wiesneri*? Disentangling a new species from its relatives in section *Anthylloidei*. *Anales del Jardín Botánico de Madrid* 77 (2): 1-9.
13. Abbasi, M. & **Pahlevani, A.** 2020. Reporting a new mountain-dwelling rust species from Central Alborz (Iran). *Rostaniha* 21 (2): 296-298.
14. **Pahlevani, A.** & Amini Rad, M. 2019. Two new alpine species of *Euphorbia* (Euphorbiaceae) from Iran. *Kew Bulletin* 74 (3): 49-56.
15. **Pahlevani, A.** & Meve, U. 2019. Phytogeographical, Karyological and nomenclatural notes on *Euphorbia larica* Boiss. (Euphorbiaceae). *Euphorbia World* 15 (1): 43-49.
16. Si-chong, C., **Pahlevani, A.**, Malíková, L., Riina, R., Thomson, F.J. & Giladi, I. 2019. Trade-off or coordination? Correlations between ballochorous and myrmecochorous phases of diplochory. *Functional Ecology* 33 (8): 1469-1479.
17. Nobarinezhad, M.H., Pakravan, M. & **Pahlevani, A.** 2018. A biosystematic study of *Euphorbia* subgenus *Chamaesyce* (Euphorbiaceae) in Iran. *Phytotaxa* 360 (1): 179-200.
18. **Pahlevani, A.** 2017. Four new species of *Euphorbia* sect. *Pithyusa* (subgen. *Esula*, Euphorbiaceae) from SW Asia. *Phytotaxa* 312: 83-93.
19. **Pahlevani, A.**, Feulner, M., Weig, A. & Liede-Schumann, S. 2017. Molecular and morphological studies disentangle species complex in *Euphorbia* sect. *Esula* (Euphorbiaceae) from Iran, including two new species. *Plant Systematics and Evolution* 303: 139-164.
20. Liede-Schumann, S., Khanum, R., Mumtaz, A.S., Gherghel, I. & **Pahlevani, A.** 2016. Going west- A subtropical lineage (*Vincetoxicum*, Apocynaceae):

- Asclepiadoideae) expanding into Europe. *Molecular Phylogenetics and Evolution* 94: 436-446.
21. **Pahlevani, A.**, Liede-Schumann, S. & Akhani, H. 2015. Seed and capsule morphology of Iranian perennial species of *Euphorbia* (Euphorbiaceae) and its phylogenetic application. *Botanical Journal of the Linnean Society* 177: 335-377.
 22. **Pahlevani, A.** & Riina, R. 2014. Synopsis of *Euphorbia* subg. *Esula* sect. *Helioscopia* (Euphorbiaceae) in Iran with the description of *Euphorbia mazandarantica* sp. nov. *Nordic Journal of Botany* 32 (3): 257-278.
 23. Riina, R., Peirson, J.A., Geltman, D.V., Molero, J., Frajman, B., **Pahlevani, A.**, Barres, L., Morawetz, J.J., Salmaki, Y., Zarre, S., Kryukov, A., Bruyns, P.V. & Berry, P.E. 2013. A worldwide molecular phylogeny and classification of the leafy spurges, *Euphorbia* subgenus *Esula* (Euphorbiaceae). *Taxon* 62 (2): 316-342.
 24. **Pahlevani, A.**, Maroofi, H. & Joharchi, M.R. 2011. Notes on six endemic or rare species of *Euphorbia* subgen. *Esula* (Euphorbiaceae) in Iran. *Willdenowia* 41: 267-276.
 25. **Pahlevani, A.** & Akhani, H. 2011. Seed morphology of Iranian annual species of *Euphorbia* (Euphorbiaceae). *Botanical Journal of the Linnean Society* 167: 212-234.
 26. Hosseinalizadeh, M., **Pahlevani, A.** & Pakravan, M. 2011. Morphological study of stipule, seed, cyathium's glands and appendages in species of subgen. *Chamaesyce* Raf. (*Euphorbia*, Euphorbiaceae) in Iran. *Journal of Applied Biology* 24: 28-47.
 27. **Pahlevani, A.** & Sagedi, S. 2011. Alerting occurrence of several noxious weeds and invasive plants in arable lands in Iran. *Rostaniha* 12 (2): 129-134.
 28. Sagedi, S., **Pahlevani, A.** & Minbashi, M. 2011. *Amsinckia menziesii*, first report of the genus for the weed flora of Iran. *Rostaniha* 12 (1): 93-94.
 29. **Pahlevani, A.** & Mozaffarian, V. 2011. *Euphorbia iranshahrii* (Euphorbiaceae), a new endemic species from Iran. *Adansonia* Ser. 3, 33 (1): 93-99.
 30. **Pahlevani, A.**, Geltman, D.V. & Riina, R. 2011. Taxonomic revision of *Euphorbia* subsect. *Myrsiniteae* Boiss. for the flora of Iran. *Annales Botanici Fennici* 48 (6): 483-493.

31. **Pahlevani, A.** & Riina, R. 2011. A synopsis of *Euphorbia* subgenus *Chamaesyce* Raf. (Euphorbiaceae) in Iran. *Annales Botanici Fennici* 48 (4): 304-316.
32. Mehregan, I., Djavadi, S.B. & **Pahlevani, A.** 2010. *Cousinia* (Sect. Haussknechtianae) karkasensis, a new species from Karkas Mts. in Central IRAN. *Iranian Journal of Botany* 16 (2): 200-203.
33. Arbabi, M., Baradaran, P., Abaei, M. & **Pahlevani, A.** 2009. First report of occurrence of *Schizotetranychus celarius* on *Salix matsudana* from Iran. *Entomology & Phytopathology* (76) 2: 31-32.
34. **Pahlevani, A.**, Maighani, F., Rashed, M.H. & Baghestani, M.A. 2008. Study of Swallow wort (*Cynanchum acutum*) phenology stages. *Pajouhesh & Sazandegi* 76: 16-24.
35. Ale-ebrahim, M.T., Rashed, M.H., Maighani, F., Baghestani, M.A., Nassiri, M. & **Pahlevani, A.** 2008. Study of dessication and freezing on vegetative reproduction of Russian Knapweed (*Acroptilon repens*). *Iranian Journal of Field Crops Research (CESC)* (5) 2: 201-209.
36. **Pahlevani, A.**, Rashed, M.H. & R. Ghorbani. 2008. Effects of environmental factors on germination and emergence of Swallow wort. *Weed Technology* (22) 2: 303-308.
37. **Pahlevani, A.** 2007. Notes on some species of the genus *Euphorbia* in Iran. *Rostaniha* (8) 2: 89-103.
38. **Pahlevani, A.** 2007. *Gentiana pyrenaica*, a new mountain-loving taxon for Iran. *Rostaniha* (8) 2: 113-114.
39. **Pahlevani, A.**, Maighani, F., Rashed, M.H. & Baghestani, M.A. 2007. Study of vegetative reproduction ability of *Cynanchum acutum* under different thermal conditions. *Entomology & Phytopathology* (74) 2: 93-112.
40. **Pahlevani, A.**, Maighani, F., Rashed, M.H., Baghestani, M.A., Nassiri, M. & Ale-ebrahim, M.T. 2007. Seed germination behavior of Swallow wort (*Cynanchum acutum*). *Iranian Journal of Field Crops Research (CESC)* (5) 1: 47-52.
41. **Pahlevani, A.** 2006. *Euphorbia prostrata*, a noteworthy new record from the flora of Iran. *Rostaniha* (7) 2: 157-158.
42. **Pahlevani, A.**, Ale-ebrahim, M.T., Rashed, M.H., Maighani F. & Nassiri, M. 2005. Effects of planting depth and flooding period on germination and

emergence of swallow wort (*Cynanchum acutum*). *Iranian Journal of Field Crops Research (CESC)* (3) 1: 15-23.

Conference papers:

1. Si-Chong, C., **Pahlevani, A.H.**, Malikova, L. & Giladi, I. 2018. Seed dispersal trade-offs between ballistic and myrmecochorous phases of diplochory. 31st Conference of the Plant Population Biology Section of the Ecological Society of Germany, Austria and Switzerland- GfÖ, 3-5 May, PopBio conference, Innsbruck, Austria (poster).
2. Hosseinalizade, M., **Pahlevani, A.H.** & Pakravan, M. 2010. Morphological study of stipule and seed of subgen. *Chamaesyce* Raf. (Euphorbiaceae) in Iran. 16th National and 4th International Conference of Biology, Ferdowsi University of Mashhad (Poster).
3. Ale-ebrahim, M.T., Rashed, M.H., Maighani, F., Baghestani, M.A. & **Pahlevani, A.H.** 2006. Study of seed germination behavior of Russian Knapweed (*Acroptilon repens*) under different temperature conditions. 1st Iranian weed science congress (Poster).
4. Ale-ebrahim, M.T., Rashed, M.H., Maighani, F., Baghestani, M.A. & **Pahlevani, A.H.** 2006. Study of phenological stages in Russian Knapweed (*Acroptilon repens*). 1st Iranian weed science congress (Oral).

Books:

1. **Pahlevani, A.H.**, Amini Rad, M. & Sajedi, S. 2017. Trees and shrubs of Plant Protection Research Institute. 172 pp. Reg. No. 52217.
2. **Pahlevani, A.H.** & Janighorban, M. 2024. Flora of Iran, Euphorbiaceae Vol. 184, 415 pp. Research Institute of Forests and Rangelands publication, Tehran.
3. **Pahlevani, A.H.** 2023. *Euphorbia* L. In: Akhiani, H. The illustrated flora of Golestan National Park Iran, 2. Tehran: University of Tehran; p. 129-132.

HONORS/AWARDS

- Graduated MSc. with **top student** grade (2006)
- Achieved **first position** in interview for starting work at the IRIPP (2006)

- **Awarded scholarship** of STIBET-PhD Student Financial Aid for a scholarship from the DAAD in Bayreuth University, Germany from October 2013 until March 2014 and September 2014 until February 2015
- **Awarded IAPT** (International Association for Plant Taxonomy) grant in 2015
- **Awarded JESH** (Joint Excellence in Science and Humanities) funding by the Austrian Academy of sciences for a period of 6 months (Feb.-July 2018)
- **Achieved high rank** in identification and registration of genetic resources from Agriculture Minister (July 2021)

Other achievements

- Visiting several **international herbaria** for studying more than 20,000 *Euphorbia* specimens of SW Asia such as, B, BM, K, M, MSB, PR, W, WU.
- Collecting more than 4,000 plant specimens around different Iranian biomes

Thesis supervised:

Alzahra University (faculty of science), Tehran

1. **Mahbubeh Hosseinalizadeh (MSc thesis)**. A biosystematic study of *Euphorbia* subgen. *Chamaesyce* Raf. (Euphorbiaceae) in Iran. Completed in Feb. 2012 (Advisor).

Shahid Beheshti University of Medical Sciences, Tehran

2. **Samira Ghorbannia (PhD thesis)**. Phytochemical study of Iranian endemic *Euphorbia*. Completed in July. 2023 (Advisor).

EXECUTIVE RESPONSIBILITIES

- 2007-2011: Curator of the weeds Herbarium & Seeds collection of Iran, Department of Botany ("IRAN"HERBARIUM), Iranian Research Institute of Plant Protection (IRIPP), formerly Plant Pests & Diseases Research Institute (PPDRI).
- 2017-2018: Curator of "IRAN"HERBARIUM, Iranian Research Institute of Plant Protection (IRIPP), formerly Plant Pests & Diseases Research Institute (PPDRI).
- Deputy Head Department of Botany, Iranian Research Institute of Plant Protection. Tehran, Iran (March 2020–July 2020).

- Head Department of Botany, Iranian Research Institute of Plant Protection. Tehran, Iran (July 2020–July 2022).

MEMBERSHIP

- Member of the Euphorbia-Planetary Biodiversity Inventory group (since 2006).
- International Association for Plant Taxonomy (IAPT), Bratislava, Slovakia (since 2015).
- Technical Committee of Biodiversity & Biosystematics, Iranian Research Institute of Plant Protection (2020–2022).
- Technical Committee of Weeds & Botany, Iranian Research Institute of Plant Protection (since 2020).

REVIEWER AND EDITOR FOR THE FOLLOWING JOURNALS

- Rostaniha
- The Iranian Journal of Botany
- Phytotaxa
- Plant Systematics and Evolution
- Taiwania
- Botanical Journal of the Linnean Society
- Novitates Systematicae Plantarum Vascularium
- Iranian Journal of Weed Science
- Journal of Plant Research (Iranian Journal of Biology)

NOVELTIES

New taxon:

Euphorbia iranshahrii Pahlevani, **sp. nov.** 2011. *Adansonia* 33: 96.

Euphorbia subsect. *Aucheriae* Geltman & Pahlevani, **subsect. nov.** 2013. *Taxon* 62 (2): 336.

Euphorbia mazandarunica Pahlevani, **sp. nov.** 2014. *Nordic Journal of Botany* 32: 267.

Euphorbia ferdowsiana Pahlevani, **sp. nov.** 2015. *Botanical Journal of the Linnean Society* 177: 359.

Euphorbia sulphurea Pahlevani, **sp. nov.** 2015. Botanical Journal of the Linnean Society 177: 353.

Euphorbia austroiranica Pahlevani, **sp. nov.** 2017. Plant Systematics and evolution 303: 150.

Euphorbia khabrica Pahlevani, **sp. nov.** 2017. Plant Systematics and evolution 303: 156.

Euphorbia acanthoclada Pahlevani, **sp. nov.** 2017. Phytotaxa 312 (1): 84.

Euphorbia boreobaluchestanica Pahlevani, **sp. nov.** 2017. Phytotaxa 312 (1): 84.

Euphorbia kavirensis Pahlevani, **sp. nov.** 2017. Phytotaxa 312 (1): 88.

Euphorbia ziaratensis Pahlevani, **sp. nov.** 2017. Phytotaxa 312 (1): 90.

Euphorbia belgheisi Pahlevani, **sp. nov.** 2019. Kew Bulletin 74 (3)-49: 2.

Euphorbia mirzakhaniana Pahlevani, **sp. nov.** 2019. Kew Bulletin 74 (3)-49: 5.

Astragalus wiesnerii Maassoumi & Pahlevani, **sp. nov.** 2020. Anales del Jardin Botanica de Madrid 77 (2): 3.

Euphorbia sylvicola Pahlevani & Frajman **sp. nov.** 2023. Perspectives in Plant Ecology, Evolution & Systematics 58

Euphorbia caspica Frajman & Pahlevani **sp. nov.** 2023. Perspectives in Plant Ecology, Evolution & Systematics 58

Euphorbia alborzensis Pahlevani & Frajman **sp. nov.** 2025. Plant Biosystems

Language Proficiency

1. Persian (native)
2. English (fluent)
3. German (elementary)
