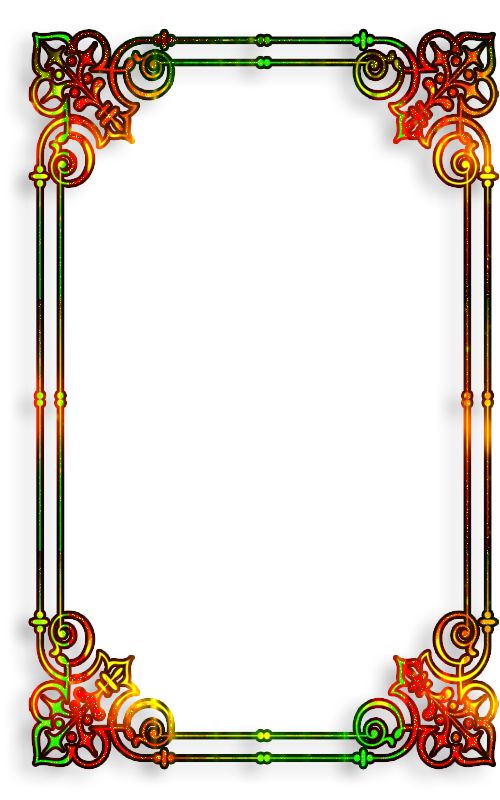


**Personal Information**



* **Date and place of birth:** Born January 1, 1989, in El Guenzra, 15,000 Khemisset, Morocco.
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* **e-mail:** [**noureddine.chaachouay@uhp.ac.ma**](mailto:noureddine.chaachouay@uhp.ac.mam)
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* **Academia.Edu:**<https://independent.academia.edu/ChaachouayNoureddine>
* **ResearchGate:**<https://www.researchgate.net/profile/Noureddine_Chaachouay2>
* **GoogleScholar‬:**<https://scholar.google.com/citations?user=MoPH68MAAAAJ&hl=fr>

**Pr. CHAACHOUAY NOUREDDINE**

Assistant Professor, Higher School of Education and Training of Berrechid (ESEFB), Hassan First University - Settat, Morocco.



**Awards**

* **2023:** Hassan First University Prize for Scientific Research. "Young Researcher Award".



**Training and Diplomas**

* **2020:** **Doctorate Degree in Sciences** from the Faculty of Sciences, Ibn Tofail University, Kenitra. Title: **Floristic and Ethnomedicinal Study of Aromatic and Medicinal Plants in the Rif region (Northern Morocco)**. Speciality: **Botany**; Honors: **Summa Cum Laude**.

Defended on **July 16, 2020**, before the jury composed of:

**Prof. A. Douira**: Professor at the Faculty of Sciences, Kenitra **President**

**Prof. R. Hassikou:** Professor at the Faculty of Sciences, Rabat **Reviewer**

**Prof. N. Brhadda:** Professor at the Faculty of Sciences, Kenitra **Reviewer**

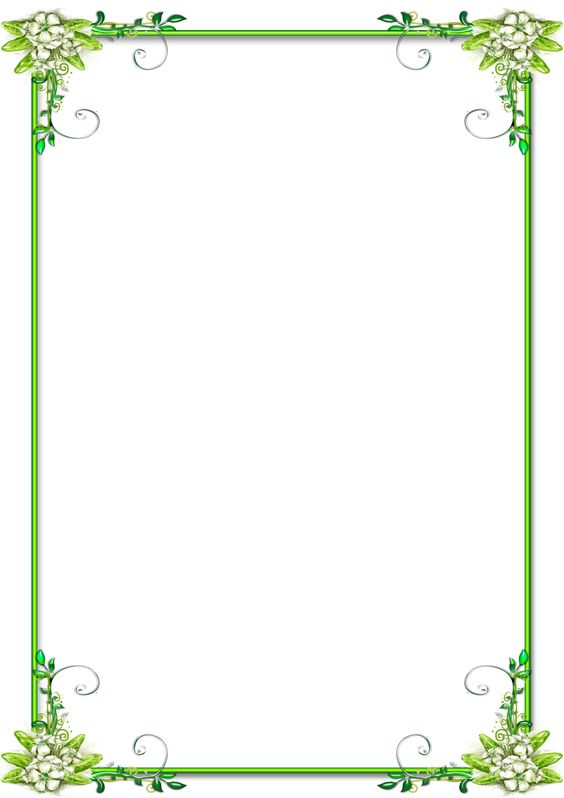
**Prof. J. Dahmani:** Professor at the Faculty of Sciences, Rabat **Reviewer**

**Prof. N. Belahbib:** Professor at the Faculty of Sciences, Kenitra **Examiner**

**Prof. R. Ziri:** Professor at the Faculty of Sciences, Kenitra **Examiner**

**Prof. L. Zidane:** Professor at the Faculty of Sciences, Kenitra **Supervisor**

* **2016:** Master's Degree, Specialization: Climate Change, Adaptation, and Sustainable Development at the Faculty of Sciences, Ibn Tofail University - Kenitra.
* **2016:** Certificate of Recognition of Success in the Professional Aptitude Examination, Specialization: Secondary Education in Life and Earth Sciences, Regional Center for Education and Training Professions, Al Irfane - Rabat.
* **2015:** Certificate of Pedagogical Qualification for Secondary Education, Specialization: Life and Earth Sciences.
* **2014:** Diploma of Technician in Systems and Network Computing, Specialized School in Advanced Technologies, Private Institution - Khémisset.
* **2013:** Bachelor's Degree, Major: Life Sciences, Option: Biology and Animal Physiology, Faculty of Sciences, Ibn Tofail University - Kenitra.
* **2012:** Diploma of General University Studies (DEUG) in Biology - Geology, Faculty of Sciences, Ibn Tofail University - Kenitra.
* **2010:** Baccalaureate in Experimental Sciences, Option: Life and Earth Sciences, Al Atlas Qualifying High School - Khemisset.



**Educational Activities and Experiences**

* **2020>>>Present:** Assistant Professor of Higher Education, Higher School of Education and Training in Berrechid (ESEFB), Hassan 1st University, Settat - Morocco.
* **2015-2020:** Secondary School Teacher in Life Sciences and Earth Sciences, Provincial Directorate of Education - Salé - Morocco.

**Education**

* **2020-2021:** Teaching the module **Science 1** at the Higher School of Education and Training in Berrechid, Hassan 1st University, Settat - Morocco.
* **2020>>>Present:** Teaching the following modules: **Histology and Embryology**, **Plant Organism Biology**, **Microbiology and Floristics**, **and Plant Physiology** at the Higher School of Education and Training in Berrechid, Hassan 1st University, Settat - Morocco.
* **2016-2019:** Assisting with practical work in **Floristics (SVI, S4)** at the Laboratory of Nutrition, Environment, and Health Faculty of Sciences, Ibn Tofail University - Kénitra, Morocco.

**Supervision**

* **2022-2023:** Supervision of **End-of-Studies Projects, S5/S6 - Bachelor's Degree** in Education, Specialization: **Secondary Education in Life and Earth Sciences** at the School of Education and Training in Berrechid, Hassan 1st University, Settat, Morocco. The themes of these projects are as follows:

1. Planning learning activities in the secondary cycle, specializing in "Life and Earth Sciences."
2. Investment in information technologies to enhance the teaching of Life and Earth Sciences.
3. Implementation of the experimental approach in the education of Life and Earth Sciences.

**Co- Supervision**

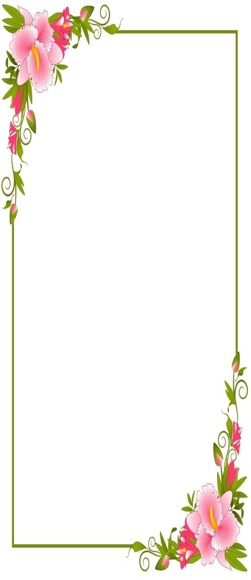
* **2022 >>> Present:** Co-supervision of thesis work at the School of Education and Training in Berrechid, Hassan 1st University, Settat, Morocco. The theme of this thesis is as follows: Contribution to the study of the flora of the Al Haouz region (Morocco): Inventory, Taxonomy, and Pharmacology.
* **2021 >>> Present:** Examination of an **End-of-Study Project, S6-Bachelor's Degree in Education**, Major: **Secondary Education in Life and Earth Sciences** at the School of Education and Training in Berrechid, Hassan 1st University, Settat, Morocco. The theme of this project is as follows: Understanding some concepts of genetics among students in the 2nd year of the Baccalaureate - Physics-Chemistry.
* **2021-2022:** Examination of an **End-of-Study Project, S6-Bachelor's Degree in Education**, Major: **Secondary Education in French** at the School of Education and Training in Berrechid, Hassan 1st University, Settat, Morocco. The theme of this project is as follows: Stakes of diagnostic assessment in the secondary cycle in Morocco: the case of the French language.
* **2020-2021:** Examination of **End-of-Study Projects, S6-Bachelor's Degree in Education**, Major: **Primary Education** at the School of Education and Training in Berrechid, Hassan 1st University, Settat, Morocco. The themes of these projects are as follows:

1. Diagnosis of the reality of didactic practice in light of alternating education.
2. The art of dealing with children in particular situations in light of developments in education in Morocco.



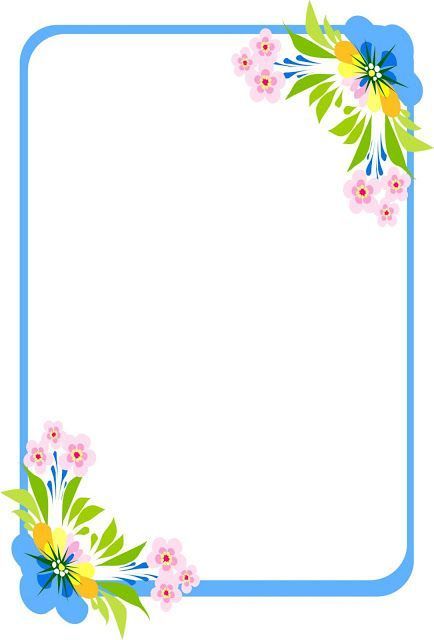
**Academic and Professional Activities**

* **2023:** Participation in organizing the **10th edition of the Doctoral Day** organized by the Center for Doctoral Studies in Sciences, Technology, and Medical Sciences on June 14 at the Faculty of Science and Technology (FST) of Hassan 1st University in Settat.
* **2023:** Participation in organizing the **National Admee Europe Day** organized by the Higher School of Education and Training in Berrechid (ESEFB), Hassan Premier University, on May 10, 2023, under the theme: The challenges of evaluation in education and training in the digital age.
* **2022:** Participation in organizing the **Round Table on the Valorization of the Geological Heritage of Morocco**, organized on March 28, 2022, at the Higher School of Education and Training in Berrechid (ESEFB), Hassan Premier University.
* **2015:** Training in **Microsoft Office Specialist 2010** (Office Word, Excel, and PowerPoint) at the Regional Center for Education and Training Professions, Al Irfane - Rabat.

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**Field Trips**

* **2022-2023:** Participation in developing and implementing a field trip for the students of the Specialized Master's program in "Training Engineering and Digital Learning (IFDL)" at Mohammed VI Polytechnic University in Benguerir.
* **2016-2020:** Research on the flora and vegetation of the Rif region in Morocco.
* **2016-2019:** Participation in the organization of Floristic field trips (SVI, S4) focusing on methods of collecting, identifying, and preserving Moroccan flora.



**Communications**

**Oral communications**

1. Ethnomedicinal Study of Medicinal Plants Used Traditionally for Cystitis Treatment by the Rural People of Rif, Northern Morocco, **N Chaachouay**, L Zidane. MOL2NET'23, Conference on Molecular, Biomed., Comput. & Network Science and Engineering, 9th ed. congress BIOMODE.ECO-08: Biotech., Mol. Eng., Nat. Prod. Develop. and Ecology Congress At: Paris, France-Ohio, USA, **2023**.
2. Inventory of medicinal and aromatic plants used to treat diverse ailments in the Al Haouz Region of the High Atlas Mountains, Morocco.K Temnate, **N Chaachouay**, A Azeroual. MOL2NET'23, Conference on Molecular, Biomed., Comput. & Network Science and Engineering, 9th ed. congress BIOMODE.ECO-08: Biotech., Mol. Eng., Nat. Prod. Develop. and Ecology Congress, Paris, France-Ohio, USA, **2023**.
3. Floristic and Ethnopharmacological Investigation of Aromatic and Medicinal Plants Used by indigenous communities of the Rif, Morocco. **N Chaachouay**, L Zidane. MOL2NET'23, Conference on Molecular, Biomed., Comput. & Network Science and Engineering, 9th ed. congress BIOMODE.ECO-08: Biotech., Mol. Eng., Nat. Prod. Develop. and Ecology Congress, Paris, France-Ohio, USA, **2023**.
4. An overview of the traditional applications, botanical features, chemical composition, and medicinal properties of *Cannabis sativa* L. **N Chaachouay**, L Zidane. MOL2NET'23, Conference on Molecular, Biomed., Comput. & Network Science and Engineering, 9th ed. congress BIOMODE.ECO-08: Biotech., Mol. Eng., Nat. Prod. Develop. and Ecology Congress, Paris, France-Ohio, USA, **2023**.
5. An ethnoveterinary investigation into medicinal and aromatic plants used to treat livestock diseases by the local communities of the Rif, north of Morocco. **N Chaachouay**, L Zidane. 8th International Electronic Conference on Medicinal Chemistry session Biomolecules as therapeuticsVolume: Biomolecules as therapeutics, **2022**.
6. Documentation of medicinal plants used to treat cardiovascular ailments in the Rif region of northern Morocco. **N Chaachouay**, L Zidane. MOL2NET'21, Conference on Molecular, Biomedical & Computational Sciences and Engineering, 7th ed. MOL2NET, **2022**, 7, ISSN: 2624-5078.
7. The Use of Medicinal plants to Prevent Sars-CoV-2 in Sale. **N Chaachouay**. 17th International Conference on Frontiers in Alternative & Traditional Medicine. May 16-17, **2022** – Webinar. Altern Integ Med ISSN: 2327-5162, 2022, Volume 11.
8. The practice of herbal medicine to prevent Sars-CoV-2 in Salé, Morocco. **N Chaachouay**, L Zidane. MOL2NET'21, Conference on Molecular, Biomed., Comput. & Network Science and Engineering, 7th ed. congress BIOMODE.ECO-06: Biotech., Mol. Eng., Nat. Prod. Develop. and Ecology Congress, Paris, France-Ohio, USA, **2021**.
9. Ethnobotanical survey of toxic plants used in herbal medicine in the Rif, Morocco. **N Chaachouay**, L Zidane. The 7th International Electronic Conference on Medicinal Chemistry - session Round table on natural products. ECMC **2021**.
10. Indigenous knowledge on medicinal plants used in the health care system by local communities of Rif. **N Chaachouay**, L Zidane. MOL2NET'21, Conference on Molecular, Biomed., Comput. & Network Science and Engineering, 7th ed. congress BIOMODE.ECO-06: Biotech., Mol. Eng., Nat. Prod. Develop. and Ecology Congress, Paris, France-Ohio, USA, **2021**.
11. Poisonous medicinal plants used in the popular pharmacopoeia of the Rif, Northern Morocco. **N Chaachouay**. Pharmaceutical Science 2021, 3rd International Conference on Pharmaceutics & Advanced Drug Delivery Systems, Edinburgh,Scotland,Feb 05, **2021**. Acta Chim Pharm Indica ISSN: 2277-288X Volume 11 Issue 1.
12. Ethnomedicinal studies on medicinal plants used by people of Rif, Morocco. **N Chaachouay**. Journal of Clinical Research and Pharmacy. Vol.3 No.2. 16th International Conference on Pharmaceutical Chemistry; Webinar- August 17-18, **2020**.
13. Medicinal Plants Used to Treat Osteoarticular Diseases in the Rif, Morocco. **N Chaachouay**, L Zidane. MOL2NET'20, Conference on Molecular, Biomed., Comput. & Network Science and Engineering, 6th ed. congress MODECO-05: Molec. Diversity, Energy, & Ecosystems, Puyo, Ecuador-Porto, Portugal-Paris, France, EPA, USA, **2020**.
14. Diabetic treatement with herbal medecine in the Rif, Morocco. **N Chaachouay**, L Zidane. MOL2NET'20, Conference on Molecular, Biomed., Comput. & Network Science and Engineering, 6th ed. congress USINEWS-04: US-IN-EU Worldwide Science Workshop Series, Duluth, USA, **2020**.
15. Medicinal and aromatic plants used in the treatment of genito-urinary diseases in the Rif, Morocco - MOL2NET, International Conference Series on Multidisciplinary Sciences, MOL2NET, **2020**, 6, ISSN: 2624-5078. **N Chaachouay**, L Zidane. <http://sciforum.net/conference/mol2net-06>.
16. Ethnomedicinal studies on plants used by people of Rif, Morocco. **N Chaachouay**. 15th International Conference on Alternative Medicine & 12th World Congress on Endocrinology and Metabolic Disorders December 09-10, **2019** Bangkok, Thailand. Altern Integr Med 2019, ISSN: 2327-5162.
17. Ethnomedicinal studies on plants used by people of Rif, Morocco. **N Chaachouay**. Journal of Clinical Research and Pharmacy. Vol.2 No.1. **2019**. World Conference on Pharmaceutical chemistry and Clinical Research, 25-26 November, 2019 at Valencia, Spain.
18. Ethnomedicinal studies on plants used against digestive system disorders by the people of Rif, Morocco. **N Chaachouay**, L Zidane. MOL2NET, International Conference Series on Multidisciplinary Sciences. MOL2NET, **2019**, 5, ISSN: 2624-5078. <http://sciforum.net/conference/mol2net-05>
19. Ethno-medicinal studies on medicinal plants used by people of Rif, Morocco. **N Chaachouay**, L Zidane. 5th International Electronic Conference on Medicinal Chemistry session ECMC-, **2019**; 1-14. <https://doi.org/10.3390/ECMC2019-06406>

**Communications by posters**

1. Herbal medicine and nervous system diseases in the Rif of Morocco. **N Chaachouay**, L Zidane. 6th International Electronic Conference on Medicinal Chemistry Session Round Table on Natural Products, **2020**.



**Original Articles**

1. Use of Ethnoveterinary Medicinal Plants to Treat Cattle Diseases by the Oulad Heriz Farmers in the Chaouia Region, Northwest of Morocco. **N. Chaachouay**, A. Azeroual, B. Bencherki, O. Benkhnigue, and L. Zidane. Acta Botanica Hungarica; 66(1-2), 1–24 (**2024**). <https://doi.org/10.1556/034.66.2024.1-2.1>
2. Perceptions and strategies of adaptation of Moroccan farmers to climate change—case of Khemisset province. **Chaachouay, N.**, Zidane, L. J Environ Stud Sci 14, 313–327 (**2024**). <https://doi.org/10.1007/s13412-024-00889-2>
3. A Floristical and Ecological Study of the Medicinal Flora Used by the Local Population of the Haouz-Rehamna Region (Middle Atlantic Morocco-4). O Benkhnigue, **N Chaachouay**, L Zidane. Acta Botanica Hungarica, **2023**; 65(3-4):247-304. DOI: <https://doi.org/10.1556/034.65.2023.3-4.3>
4. The importance of animals in sacrificial rituals and socio-religious occasions practised by the indigenous communities of Morocco and strategies to conserve them from extinction. **N Chaachouay**, L Zidane. Biologia, **2023**;1-18. <https://doi.org/10.1007/s11756-023-01548-7>
5. Herbal remedies used to treat digestive system ailments by indigenous communities in the Rif region of northern Morocco. **N Chaachouay**, S Belhaj, M El Khomsi, O Benkhnigue, L Zidane. Vegetos, **2023**;1-18. <https://doi.org/10.1007/s42535-023-00606-4>
6. Ethnobotanical survey of the traditional antiparasitic use of medicinal plants in humans and animals in Laghouat (Southern Algeria). F Benlarbi, N Mimoune, **N Chaachouay**, K Souttou, R Saidi, MR Mokhtar, Rachid Kaidi, Mohammed Hocine Benaissa. Veterinary World, **2023**;16 (2): 357–368.

<http://www.veterinaryworld.org/Vol.16/February-2023/15.pdf>

1. Ethnobotanical and ethnopharmacological study of medicinal plants used in treating some liver diseases in the Al-Haouz Rehamna region (Morocco). O Benkhnigue, H Khamar, RW Bussmann, **N Chaachouay**, L Zidane. Ethnobotany Research and Applications **2023**;25, 1-32.

<https://ethnobotanyjournal.org/index.php/era/article/view/4623>

1. Ethnobotanical study of plants used for medicinal, cosmetic, and food purposes in the region of Moulay Yacoub, Northeast of Morocco. M El Khomsi, Y Dandani, **N Chaachouay**, D Hmouni. J. Pharm. Pharmacogn. Res **2022**;10, 13-29. <https://doi.org/10.56499/jppres21.1084_10.1.13>
2. Ethnobotanical and ethnopharmacological study of medicinal plants used in the treatment of anemia in the region of Haouz-Rehamna (Morocco). O Benkhnigue, **N Chaachouay**, H Khamar, F El Azzouzi, A Douira. J Pharm Pharmacogn Res **2022**;10 (2), 279-302. <https://doi.org/10.56499/jppres21.1196_10.2.279>
3. Ethnoveterinary medicinal plants for animal therapy in the Rif, North of Morocco. **N Chaachouay**, A Azeroual, B Bencharki, A Douira, L Zidane. South African Journal of Botany **2022**;147, 176-191. <https://doi.org/10.1016/j.sajb.2021.12.037>
4. Ethnomedicinal study of medicinal and aromatic plants used against dermatological diseases by the People of Rif, Morocco. **N Chaachouay**, O Benkhnigue, L Zidane. Journal of Herbal Medicine **2022**;32, 100542.

<https://doi.org/10.1016/j.hermed.2022.100542>

1. Ethnoveterinary practices of medicinal plants among the Zemmour and Zayane tribes, Middle Atlas, Morocco. **N Chaachouay**, A Azeroual, A Douira, L Zidane. South African Journal of Botany **2022**;151, 826-840.

<https://doi.org/10.1016/j.sajb.2022.11.009>

1. The Symbolic Efficacy of Plants in Rituals and Socio-Religious Ceremonies in Morocco, Northwest of Africa. **N Chaachouay**, L Zidane. Journal of Religious & Theological Information **2022**;21 (1-2), 34-53.

<https://doi.org/10.1080/10477845.2021.1942433>

1. Herbal medicine used in the treatment of cardiovascular diseases in the Rif, North of Morocco. **N Chaachouay**, A Azeroual, B Bencharki, L Zidane. Frontiers in pharmacology **2022**;13, 921918. <https://doi.org/10.3389/fphar.2022.92191>
2. COVID-19, prevention and treatment with herbal medicine in the herbal markets of Salé Prefecture, North-Western Morocco. **N Chaachouay**, A Douira, L Zidane. European journal of integrative medicine **2021**;42 (February), 101285.

<https://doi.org/10.1016/j.eujim.2021.101285>

1. Herbal Medicine Used in the Treatment of Human Diseases in the Rif, Northern Morocco. **N Chaachouay**, A Douira, L Zidane. Arabian Journal for Science and Engineering, **2021**; 47, 131–153. <https://doi.org/10.1007/s13369-021-05501-1>
2. Ethnobotanical and toxicology study of medicinal plants used for the treatment of diabetes in the High Atlas Central of Morocco. S Belhaj, **N Chaachouay**, L Zidane. Journal of Pharmacy & Pharmacognosy Research **2021**;9 (5), 619-662.

<https://doi.org/10.56499/jppres21.1014_9.5.619>

1. Poisonous medicinal plants used in the popular pharmacopoeia of the Rif, northern Morocco. **N Chaachouay**, O Benkhnigue, A Douira, L Zidane. Toxicon **2021**;189, 24-32. <https://doi.org/10.1016/j.toxicon.2020.10.028>
2. Use of medicinal plants in dermato-cosmetology: An ethnobotanical study among the population of Izarène. **N Chaachouay**, EM Douiri, N Faiz, L Zidane, A Douira. Jordan Journal of Pharmaceutical Sciences **2021**;14 (3), 323-340.
3. Cystitis treatment with phytotherapy within the Rif, Northern Morocco. **N Chaachouay**, H Orch, L Zidane. Future Journal of Pharmaceutical Sciences **2021**;7, 1-9. <https://doi.org/10.1186/s43094-021-00226-2>

Ethnobotanical study aimed at investigating the use of medicinal plants to treat nervous system diseases in the Rif of Morocco; **N Chaachouay**, O Benkhnigue, L Zidane; Journal of chiropractic medicine **2020**;19 (1), 70-81.

<https://doi.org/10.1016/j.jcm.2020.02.004>

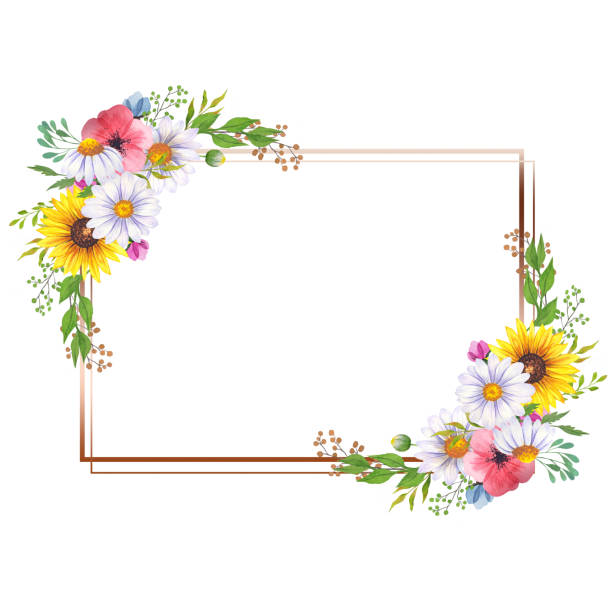
1. Ethnobotanical study of medicinal and aromatic plants used in the treatment of genito-urinary diseases in the Moroccan Rif. **N Chaachouay**, B Ouafae, H Khamar, L Zidane. Journal of Materials and Environmental Sciences ISSN: 2028-2508; **2020**; 11(1), 15-29.
2. Ethnobotanical and ethnopharmacological studies of medicinal and aromatic plants used in the treatment of metabolic diseases in the Moroccan Rif; **N Chaachouay**, O Benkhnigue, M Fadli, H El Ibaoui, L Zidane; Heliyon **2019**; 5(10): e02191. <https://doi.org/10.1016/j.heliyon.2019.e02191>
3. Ethnobotanical and ethnopharmacological study of medicinal and aromatic plants used in the treatment of respiratory system disorders in the Moroccan Rif; **N Chaachouay**, O Benkhnigue, M Fadli, H El Ibaoui, R El Ayadi, L Zidane; Ethnobotany Research and Applications **2019**;18 (22), 1-16.

<https://ethnobotanyjournal.org/index.php/era/article/view/1437>

1. Medicinal plants used for diabetic problems in the Rif, Morocco; **N Chaachouay**, O Benkhnigue, H El Ibaoui, R El Ayadi, L Zidane; Ethnobotany Research and Applications **2019**;18 (21), 1-19.

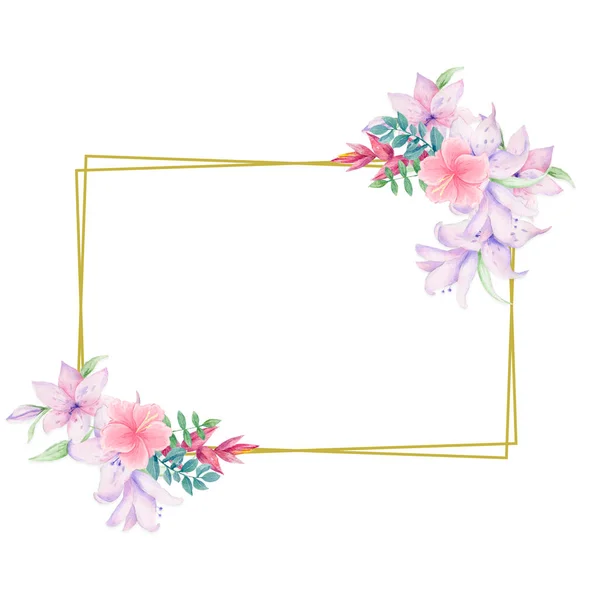
<https://ethnobotanyjournal.org/index.php/era/article/view/1549>

1. Ethnobotanical study of medicinal plants used to treat osteoarticular diseases in the Moroccan Rif, Morocco; **N Chaachouay**, O Benkhnigue, M Fadli, R El Ayadi, L Zidane; J Pharm Pharmacogn Res **2019**;7 (6), 454-470.
2. Ethnopharmacological studies of medicinal and aromatic plants used in the treatment of respiratory system disorders in the Rif. Morocco; **N Chaachouay**, O Benkhnigue, M Fadli, R El Ayadi, L Zidane; Ethnobotany Research & Applications **2019**; 18(22), 1-17. <https://ethnobotanyjournal.org/index.php/era/article/view/1437>
3. Ethnobotanical and Ethnopharmacological Study of Medicinal and Aromatic Plants Used in the Treatment of Neurological Disorders in the Moroccan Rif; **N Chaachouay**, L Zidane; Journal of Integrative Medicine| Volume **2019**; 8(1):31-39.



**Review Articles**

1. Plant-Derived Natural Products: A Source for Drug Discovery and Development. *Drugs and Drug Candidates*. **N Chaachouay**, Zidane L. **2024**; 3(1):184-207. <https://doi.org/10.3390/ddc3010011>
2. Taxonomy, Ethnobotany, Phytochemistry and Biological Activities of *Thymus Saturejoides*: A Review. **N Chaachouay**, A Azeroual, L Zidane. Acta Botanica Hungarica **2023**;65(1-2), 35-51; <https://doi.org/10.1556/034.65.2023.1-2.2>
3. *Cannabis sativa* L.: A Review on Traditional Uses, Botany, Phytochemistry, and Pharmacological Aspects. **N Chaachouay**, A Azeroual, B Bencharki, A Douira, L Zidane. Trad Integr Med. **2023**;8(1):97-11; <https://doi.org/10.18502/tim.v8i1.12407>



**Books**

1. Comprehensive Guide to Hallucinogenic Plants - 1st Edition. Edited By **Noureddine Chaachouay**, Abdelhamid Azeroual, Lahcen Zidane. October 4, **2024**. ISBN 9781032591803; 448 Pages 87 Color & 7 B/W Illustrationsby CRC Press.



**Book Chapters**

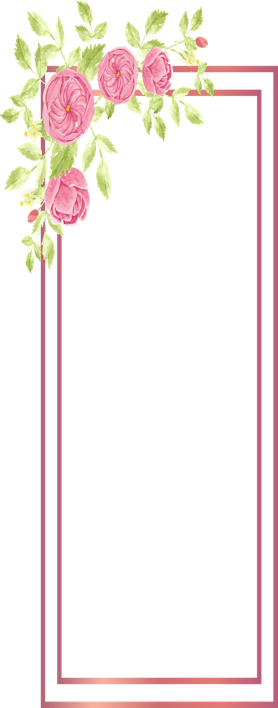
1. *Allium cepa* L.; *Allium ampeloprasum* L.; *Allium sativum* L. AMARYLLIDACEAE. Mostafa Elachouri, **Noureddine Chaachouay**, Imane Ouasti, Mohammed Ouasti, and Rainer W. Bussmann. In: Bussmann, R.W., Elachouri, M., Kikvidze, Z. (eds) Ethnobotany of Northern Africa and Levant. Ethnobotany of Mountain Regions. Springer, Cham. <https://doi.org/10.1007/978-3-031-13933-8_16-1>
2. *Arbutus unedo* L.; *Arbutus andrachne* L. ERICACEAE. Mostafa Elachouri, **Noureddine Chaachouay**, and Aissa Idrissi. In: Bussmann, R.W., Elachouri, M., Kikvidze, Z. (eds) Ethnobotany of Northern Africa and Levant. Ethnobotany of Mountain Regions. Springer, Cham. <https://doi.org/10.1007/978-3-031-13933-8_16-1>
3. *Artemisia abrotanum* L., *Artemisia absinthium* L., *Artemisia annua* L., *Artemisia arborescens* (Vaill.) L., *Artemisia atlantica* Coss, *Artemisia campestris* subsp. *campestris* L., *Artemisia judaica* L.*,* *Artemisia judaica* subsp*. sahariensis* (L.Chevall.) Maire, *Artemisia mesatlantica* Maire, *Artemisia monosperma* Delile*., Artemisia verlotiorum* Lamotte*., Artemisia vulgaris* L., *Seriphidium herba-alba* (Asso) Y.R.Ling, *Seriphidium huguetii* (Caball) Dobignard, *Seriphidium sieberi* (Besser) K.Bremer & Humphries ex Y.R.Ling – ASTERACEAE. Ikram Dib, Aissa Idrissi, Jamila Fakchich, Khaoula Diass, Imane Oualdi, Ziyyat Abderrahim, Rachid Touzani, **Noureddine Chaachouay**, Rainer W. Bussmann, Mostafa Elachouri. In: Bussmann, R.W., Elachouri, M., Kikvidze, Z. (eds) Ethnobotany of Northern Africa and Levant. Ethnobotany of Mountain Regions. Springer, Cham. <https://doi.org/10.1007/978-3-031-13933-8_16-1>
4. *Berberis vulgaris* L., *Berberis vulgaris* Subsp. *australis* (Boiss.), Heywood: BERBERIDACEAE. Fatima Brahmi, Ouafae Mokhtari, Bouchra Legssyer, Rachid Touzani, Jamila Fakchich, Olim K. Khojimatov, **Noureddine Chaachouay** and Rainer W. Bussmann. In: Bussmann, R.W., Elachouri, M., Kikvidze, Z. (eds) Ethnobotany of Northern Africa and Levant. Ethnobotany of Mountain Regions. Springer, Cham. March **2024**. <https://doi.org/10.1007/978-3-031-13933-8_16-1>
5. *Borago officinalis* L. – BORAGINACEAE. **Noureddine Chaachouay** and Bussmann, Rainer W. In: Bussmann, R.W., Elachouri, M., Kikvidze, Z. (eds) Ethnobotany of Northern Africa and Levant. Ethnobotany of Mountain Regions. Springer, Cham. <https://doi.org/10.1007/978-3-031-13933-8_16-1>
6. *Cucurbita maxima* Duchesne, *Cucurbita moschata* Duchesne – CUCURBITACEAE. **Noureddine Chaachouay**, Rainer W. Bussmann. In: Bussmann, R.W., Elachouri, M., Kikvidze, Z. (eds) Ethnobotany of Northern Africa and Levant. Ethnobotany of Mountain Regions. Springer, Cham. <https://doi.org/10.1007/978-3-031-13933-8_16-1>
7. *Cupressus sempervirens* L., *Cupressus lusitanica* Mill.CUPRESSACEAE. **Noureddine Chaachouay**, Lahcen Zidane, Mostafa Elachouri and Rainer W. Bussmann. In: Bussmann, R.W., Elachouri, M., Kikvidze, Z. (eds) Ethnobotany of Northern Africa and Levant. Ethnobotany of Mountain Regions. Springer, Cham. February **2024**. <https://doi.org/10.1007/978-3-031-13933-8_16-1>
8. *Cynara cardunculus* L. – ASTERACEAE. **Noureddine Chaachouay**, Rainer W. Bussmann, Mostafa Elachouri. In: Bussmann, R.W., Elachouri, M., Kikvidze, Z. (eds) Ethnobotany of Northern Africa and Levant. Ethnobotany of Mountain Regions. Springer, Cham. <https://doi.org/10.1007/978-3-031-13933-8_16-1>
9. *Ecballium elaterium* (L.) A. Rich. – CUCURBITACEAE. **Noureddine Chaachouay**, Mostafa Elachouri and Rainer W. Bussmann. In: Bussmann, R.W., Elachouri, M., Kikvidze, Z. (eds) Ethnobotany of Northern Africa and Levant. Ethnobotany of Mountain Regions. Springer, Cham. March **2024**. <https://doi.org/10.1007/978-3-031-13933-8_16-1>
10. *Eriobotrya japonica* (Thunb.) Lindl. – ROSACEAE. Mostafa Elachouri, **Noureddine Chaachouay**, Rainer W. Bussmann and Sayf-Eddine Belkasmi. In: Bussmann, R.W., Elachouri, M., Kikvidze, Z. (eds) Ethnobotany of Northern Africa and Levant. Ethnobotany of Mountain Regions. Springer, Cham. <https://doi.org/10.1007/978-3-031-13933-8_16-1>
11. *Eryngium ilicifolium* Lam.; *Eryngium tricuspidatum* L.; *Eryngium triquetrum* Vahl – APIACEAE. Mostafa Elachouri, **Noureddine Chaachouay**, Mohammed Ajjoun and Rainer W. Bussmann. In: Bussmann, R.W., Elachouri, M., Kikvidze, Z. (eds) Ethnobotany of Northern Africa and Levant. Ethnobotany of Mountain Regions. Springer, Cham. <https://doi.org/10.1007/978-3-031-13933-8_16-1>
12. Ethnobotany of Rif Mountain Range, Morocco, Northern Africa. **Noureddine Chaachouay**, **Abdelhamid Azeroual**, Bouchaib Bencharki, Mostafa Elachouri and Lahcen Zidane. In: Bussmann, R.W., Elachouri, M., Kikvidze, Z. (eds) Ethnobotany of Northern Africa and Levant. Ethnobotany of Mountain Regions. Springer, Cham; **May 2024.** <https://doi.org/10.1007/978-3-031-13933-8_16-1>
13. *Ficus carica* L. – MORACEAE. Mostafa Elachouri, **Noureddine Chaachouay**, Mohammed Ouasti and Rainer W. Bussmann. In: Bussmann, R.W., Elachouri, M., Kikvidze, Z. (eds) Ethnobotany of Northern Africa and Levant. Ethnobotany of Mountain Regions. Springer, Cham. <https://doi.org/10.1007/978-3-031-13933-8_16-1>
14. *Fumaria asepala* Boiss.; *Fumaria capreolata* L.; *Fumaria judaica* Boiss.; *Fumaria officinalis* L.; *Fumaria parviflora* Lam. – PAPAVERACEAE. Aissa Idrissi, **Noureddine Chaachouay**, Rainer W. Bussmann and Mostafa Elachouri. In: Bussmann, R.W., Elachouri, M., Kikvidze, Z. (eds) Ethnobotany of Northern Africa and Levant. Ethnobotany of Mountain Regions. Springer, Cham. <https://doi.org/10.1007/978-3-031-13933-8_16-1>
15. *Genista ifniensis* Caball. – FABACEAE. **Chaachouay Noureddine**, Ouafae Benkhnigue, Lahcen Zidane, Gabriel Lesne and Rainer W. Bussmann. In: Bussmann, R.W., Elachouri, M., Kikvidze, Z. (eds) Ethnobotany of Northern Africa and Levant. Ethnobotany of Mountain Regions. Springer, Cham. February **2024**. <https://doi.org/10.1007/978-3-031-13933-8_16-1>
16. *Gladiolus atroviolaceus* Boiss; *Gladiolus byzantinus* Mill; *Gladiolus communis* L.; *Gladiolus italicus* Mill. – IRIDACEAE. Mostafa Elachouri, Mohammed Ouasti, Mohammed Ajjoun, **Chaachouay Noureddine** and Rainer W. Bussmann. In: Bussmann, R.W., Elachouri, M., Kikvidze, Z. (eds) Ethnobotany of Northern Africa and Levant. Ethnobotany of Mountain Regions. Springer, Cham. <https://doi.org/10.1007/978-3-031-13933-8_16-1>
17. *Glebionis coronaria* (L.) Cass. ex Spach – ASTERACEAE. Mostafa Elachouri, **Noureddine Chaachouay**, Noureddine Bencheikh and Rainer W. Bussmann. In: Bussmann, R.W., Elachouri, M., Kikvidze, Z. (eds) Ethnobotany of Northern Africa and Levant. Ethnobotany of Mountain Regions. Springer, Cham. <https://doi.org/10.1007/978-3-031-13933-8_16-1>
18. *Glycyrrhiza glabra* L., *Glycyrrhiza uralensis* Fisch. ex DC. – FABACEAE. **Noureddine Chaachouay**, Mostafa Elachouri, Rainer W. Bussmann and Olim K. Khojimatov. In: Bussmann, R.W., Elachouri, M., Kikvidze, Z. (eds) Ethnobotany of Northern Africa and Levant. Ethnobotany of Mountain Regions. Springer, Cham. March **2024**. <https://doi.org/10.1007/978-3-031-13933-8_16-1>
19. *Hordeum distichon* L., *Hordeum vulgare* L. – POACEAE. Jamila Fakchich, **Noureddine Chaachouay** and Rainer W. Bussmann. In: Bussmann, R.W., Elachouri, M., Kikvidze, Z. (eds) Ethnobotany of Northern Africa and Levant. Ethnobotany of Mountain Regions. Springer, Cham. February **2024**. <https://doi.org/10.1007/978-3-031-13933-8_16-1>
20. *Juniperus communis* L., *Juniperus oxycedrus* L. – JUNCACEAE. Mostafa Elachouri, Imane Ouasti, Jihane Serbout, Rachid Touzani, Belkheir Hammouti, **Noureddine Chaachouay** and Rainer W. Bussmann. In: Bussmann, R.W., Elachouri, M., Kikvidze, Z. (eds) Ethnobotany of Northern Africa and Levant. Ethnobotany of Mountain Regions. Springer, Cham. <https://doi.org/10.1007/978-3-031-13933-8_16-1>
21. *Lactuca sativa* L., *Lactuca serriola* L., *Lactuca virosa* L. – ASTERACEAE. Ouafae Benkhnigue, Rainer W. Bussmann, **Chaachouay Noureddine**. In: Bussmann, R.W., Elachouri, M., Kikvidze, Z. (eds) Ethnobotany of Northern Africa and Levant. Ethnobotany of Mountain Regions. Springer, Cham. <https://doi.org/10.1007/978-3-031-13933-8_16-1>
22. *Lupinus albus* subsp. *albus* L., *Lupinus angustifolius* L., *Lupinus digitatus* Forssk., *Lupinus luteus* L., *Lupinus pilosus* L. – FABACEAE. Imane Ouasti, **Noureddine Chaachouay**, Rainer W. Bussmann and Mostafa Elachouri. In: Bussmann, R.W., Elachouri, M., Kikvidze, Z. (eds) Ethnobotany of Northern Africa and Levant. Ethnobotany of Mountain Regions. Springer, Cham. January **2024**. <https://doi.org/10.1007/978-3-031-13933-8_16-1>
23. *Matricaria chamomilla* L. – ASTERACEAE. **Noureddine Chaachouay** and Rainer W. Bussmann. In: Bussmann, R.W., Elachouri, M., Kikvidze, Z. (eds) Ethnobotany of Northern Africa and Levant. Ethnobotany of Mountain Regions. Springer, Cham. February **2024**. <https://doi.org/10.1007/978-3-031-13933-8_16-1>
24. *Mentha aquatica* L., *Mentha arvensis* L*.; Mentha gattefossei* Maire*, Mentha longifolia* (L.) L., *Mentha* × *piperita* L., *Mentha pulegium* L., *Mentha × rotundifolia* (L.) Huds., *Mentha spicata* L., *Mentha suaveolens* Ehrh*.*, *Mentha spicata* subsp. *spicata* L. – LAMIACEAE. Khaoula Diass, Imane Oualdi, Loubna Kharchoufa, Rachid Touzani, **Noureddine Chaachouay**and Rainer W. Bussmann. In: Bussmann, R.W., Elachouri, M., Kikvidze, Z. (eds) Ethnobotany of Northern Africa and Levant. Ethnobotany of Mountain Regions. Springer, Cham. <https://doi.org/10.1007/978-3-031-13933-8_16-1>
25. *Nigella damascena* L. *Nigella sativa* L. – RANUNCULACAE. Mohammmed Dalli, Salah-eddine Azizi, Belkasmi Sayf-eddine, Nadia Gseyra, **Noureddine Chaachouay**, Mostafa Elachouri and Rainer W. Bussmann. In: Bussmann, R.W., Elachouri, M., Kikvidze, Z. (eds) Ethnobotany of Northern Africa and Levant. Ethnobotany of Mountain Regions. Springer, Cham. March **2024**. <https://doi.org/10.1007/978-3-031-13933-8_16-1>
26. *Ocimum basilicum* L., *Ocimum gratissimum* Lam. – LAMIACEAE. **Noureddine Chaachouay**, Rainer W. Bussmann and Mostafa Elachouri. In: Bussmann, R.W., Elachouri, M., Kikvidze, Z. (eds) Ethnobotany of Northern Africa and Levant. Ethnobotany of Mountain Regions. Springer, Cham. March **2024**. <https://doi.org/10.1007/978-3-031-13933-8_16-1>
27. *Olea europaea* L. – OLEACEAE. **Noureddine Chaachouay**, Lahcen Zidane, Mostafa Elachouri, Hammand Ahmad Jan and Rainer W. Bussmann. In: Bussmann, R.W., Elachouri, M., Kikvidze, Z. (eds) Ethnobotany of Northern Africa and Levant. Ethnobotany of Mountain Regions. Springer, Cham. March **2024**. <https://doi.org/10.1007/978-3-031-13933-8_16-1>
28. *Opuntia ficus-indica* (L.) Mill. – CACTACEAE. **Noureddine Chaachouay**, Ali Berraaouan. Rainer W. Bussmann. In: Bussmann, R.W., Elachouri, M., Kikvidze, Z. (eds) Ethnobotany of Northern Africa and Levant. Ethnobotany of Mountain Regions. Springer, Cham. <https://doi.org/10.1007/978-3-031-13933-8_16-1>
29. *Origanum compactum* Benth.; *Origanum majorana* L.; *Origanum syriacum* L.; *Origanum vulgare* subsp. *gracile* (K. Koch) Letsw. - LAMIACEAE. **Noureddine Chaachouay**, Rainer W. Bussmann, Khojimatov, Olim K. In: Bussmann, R.W., Elachouri, M., Kikvidze, Z. (eds) Ethnobotany of Northern Africa and Levant. Ethnobotany of Mountain Regions. Springer, Cham. <https://doi.org/10.1007/978-3-031-13933-8_16-1>
30. *Peganum harmala* L. – ZYGOPHYLLACEAE. Mohammmed Dalli, Kandsi Fahd, Salah-eddine Azizi, Nadia Gseyra, **Noureddine Chaachouay** and Rainer W. Bussmann. In: Bussmann, R.W., Elachouri, M., Kikvidze, Z. (eds) Ethnobotany of Northern Africa and Levant. Ethnobotany of Mountain Regions. Springer, Cham. February **2024**. <https://doi.org/10.1007/978-3-031-13933-8_16-1>
31. *Phoenix dactylifera* L. – ARECACEAE. **Noureddine Chaachouay**, Rainer W. Bussmann. In: Bussmann, R.W., Elachouri, M., Kikvidze, Z. (eds) Ethnobotany of Northern Africa and Levant. Ethnobotany of Mountain Regions. Springer, Cham. <https://doi.org/10.1007/978-3-031-13933-8_16-1>
32. *Pinus halepensis* Mill – PINACEAE. Noureddine Chaachouay, Rainer W. Bussmann. In: Bussmann, R.W., Elachouri, M., Kikvidze, Z. (eds) Ethnobotany of Northern Africa and Levant. Ethnobotany of Mountain Regions. Springer, Cham. <https://doi.org/10.1007/978-3-031-13933-8_16-1>
33. *Portulaca oleracea* L. – PORTULACACEAE. **Noureddine Chaachouay**, Mostafa Elachouri and Rainer W. Bussmann. In: Bussmann, R.W., Elachouri, M., Kikvidze, Z. (eds) Ethnobotany of Northern Africa and Levant. Ethnobotany of Mountain Regions. Springer, Cham. February **2024**. <https://doi.org/10.1007/978-3-031-13933-8_16-1>
34. *Prunus armeniaca* L., *Prunus dulcis* (Mill.) D. A. Webb, *Prunus cerasus* L., *Prunus domestica* L., *Prunus persica* (L.) Batsch – ROSACEAE. Imane Ouasti, **Noureddine Chaachouay**, Rainer W. Bussmann, Olim K.Khojimatov. In: Bussmann, R.W., Elachouri, M., Kikvidze, Z. (eds) Ethnobotany of Northern Africa and Levant. Ethnobotany of Mountain Regions. Springer, Cham. <https://doi.org/10.1007/978-3-031-13933-8_16-1>
35. *Punica granatum* L. – LYTHRACEAE. Khojimatov, Olim K., **Noureddine Chaachouay**, Rainer W. Bussmann. In: Bussmann, R.W., Elachouri, M., Kikvidze, Z. (eds) Ethnobotany of Northern Africa and Levant. Ethnobotany of Mountain Regions. Springer, Cham. <https://doi.org/10.1007/978-3-031-13933-8_16-1>
36. *Quercus coccifera* L., *Quercus faginea* Lam., *Quercus ilex* L., *Quercus rotundifolia* Lam., *Quercus infectoria* G.Olivier*, Quercus suber* L. – FAGACEAE. Bouammali Haytham, Fatima Brahmi, Kaoutar Zaidi, Afaf Mehiou, Ikram Dib, Ali Berraaouane, Rachid Touzani, Abderrahim Ziyyat, **Noureddine Chaachouay**, Hammand Ahmad Jan, Rainer W. Bussmann. In: Bussmann, R.W., Elachouri, M., Kikvidze, Z. (eds) Ethnobotany of Northern Africa and Levant. Ethnobotany of Mountain Regions. Springer, Cham. <https://doi.org/10.1007/978-3-031-13933-8_16-1>
37. *Raphanus raphanistrum* L.; *Raphanus sativus* L. – BRASSICACEAE. Imane Ouasti, **Noureddine Chaachouay**, Rainer W. Bussmann and Mostafa Elachouri. In: Bussmann, R.W., Elachouri, M., Kikvidze, Z. (eds) Ethnobotany of Northern Africa and Levant. Ethnobotany of Mountain Regions. Springer, Cham. <https://doi.org/10.1007/978-3-031-13933-8_16-1>
38. *Retama dasycarpa* Coss., *Retama monosperma* (L.) Boiss., *Retama raetam* (Forssk.) Webb, *Retama sphaerocarpa* (L.) Boiss. - FABACEAE. Mostafa Elachouri, **Noureddine Chaachouay**, Mohammed Ouastiand Rainer W. Bussmann. In: Bussmann, R.W., Elachouri, M., Kikvidze, Z. (eds) Ethnobotany of Northern Africa and Levant. Ethnobotany of Mountain Regions. Springer, Cham. <https://doi.org/10.1007/978-3-031-13933-8_16-1>
39. *Scolymus hispanicus* L., *Scolymus maculatus* L. – ASTERACEAE. Mostafa Elachouri, Mohammed Ouasti, **Noureddine Chaachouay** and Rainer W. Bussmann. In: Bussmann, R.W., Elachouri, M., Kikvidze, Z. (eds) Ethnobotany of Northern Africa and Levant. Ethnobotany of Mountain Regions. Springer, Cham. <https://doi.org/10.1007/978-3-031-13933-8_16-1>
40. *Tetraclinis articulata* Mast. – CUPRESSACEAE. Mostafa Elachouri, Mohammed Ouasti, **Noureddine Chaachouay**, Rainer W. Bussmann and Imane Ouasti. In: Bussmann, R.W., Elachouri, M., Kikvidze, Z. (eds) Ethnobotany of Northern Africa and Levant. Ethnobotany of Mountain Regions. Springer, Cham. <https://doi.org/10.1007/978-3-031-13933-8_16-1>
41. *Thymus algeriensis* Boiss. & Reut., *Thymus broussonetii* Boiss., *Thymus hyemalis* Lange, *Thymus maroccanus* Ball, *Thymus maroccanus* subsp*. leptobotrys* (Murb.) Dobignard, *Thymus munbyanus* subsp*. ciliatus* (Desf.) Greuter & Burdet, *Thymus pallidus* Coss. ex Batt., *Thymus saturejoides* Coss., *Thymus saturejoides* subsp*. commutatus* Batt., *Thymus serpyllum* L., *Thymus vulgaris* L., *Thymus willdenowii* Boiss., *Thymus zygis* L., *Thymus zygis* subsp*. gracilis* (Boiss.) R. Morales – LAMIACEAE. Jamila Fakchich, Rainer W. Bussmann, Olim K. Khojimatov, **Noureddine Chaachouay**. In: Bussmann, R.W., Elachouri, M., Kikvidze, Z. (eds) Ethnobotany of Northern Africa and Levant. Ethnobotany of Mountain Regions. Springer, Cham. <https://doi.org/10.1007/978-3-031-13933-8_16-1>
42. *Trigonella foenum-graecum* L. – FABACEAE. Nour Elhouda Daoudi, Omar Bouziane, Saliha Bouknana, Salah-eddine Azizi, Mohamed Bnouham, **Noureddine Chaachouay**, Rainer W. Bussmann. In: Bussmann, R.W., Elachouri, M., Kikvidze, Z. (eds) Ethnobotany of Northern Africa and Levant. Ethnobotany of Mountain Regions. Springer, Cham. <https://doi.org/10.1007/978-3-031-13933-8_16-1>
43. *Verbena officinalis* L. – VERBENACEAE. Noureddine Chaachouay, Rainer W. Bussmann. In: Bussmann, R.W., Elachouri, M., Kikvidze, Z. (eds) Ethnobotany of Northern Africa and Levant. Ethnobotany of Mountain Regions. Springer, Cham. <https://doi.org/10.1007/978-3-031-13933-8_16-1>
44. *Vicia ervilia* (L.) Willd.; *Vicia faba* L.; *Vicia sativa* L. – FABACEAE. Imane Ouasti, **Noureddine Chaachouay**, Rainer W. Bussmann and Mostafa Elachouri. In: Bussmann, R.W., Elachouri, M., Kikvidze, Z. (eds) Ethnobotany of Northern Africa and Levant. Ethnobotany of Mountain Regions. Springer, Cham. <https://doi.org/10.1007/978-3-031-13933-8_16-1>
45. *Vitex agnus-castus* L. – LAMIACEAE. **Noureddine Chaachouay**, Allal Douira, Lahcen Zidane, Elachouri Mostafa and Rainer W. Bussmann. In: Bussmann, R.W., Elachouri, M., Kikvidze, Z. (eds) Ethnobotany of Northern Africa and Levant. Ethnobotany of Mountain Regions. Springer, Cham. February **2024**. <https://doi.org/10.1007/978-3-031-13933-8_16-1>
46. *Vitis labrusca* L., *Vitis vinifera* L. – VITACEAE.**Noureddine Chaachouay**, Mostafa Elachouri and Rainer W. Bussmann. In: Bussmann, R.W., Elachouri, M., Kikvidze, Z. (eds) Ethnobotany of Northern Africa and Levant. Ethnobotany of Mountain Regions. Springer, Cham. March **2024.** <https://doi.org/10.1007/978-3-031-13933-8_16-1>
47. *Zea mays* L. – POACEAE.**Noureddine Chaachouay**, Elachouri Mostafa and Rainer W. Bussmann. In: Bussmann, R.W., Elachouri, M., Kikvidze, Z. (eds) Ethnobotany of Northern Africa and Levant. Ethnobotany of Mountain Regions. Springer, Cham. February **2024**. <https://doi.org/10.1007/978-3-031-13933-8_16-1>
48. Role of Carbon Nanotubes for Herbicide Detection and Remediation. **Chaachouay, N.**, Zidane, L. (**2024**). In: Bachheti, A. (Bachheti, R.K., Husen, A. (eds) Carbon-Based Nanomaterials. Smart Nanomaterials Technology. Springer, Singapore. <https://doi.org/10.1007/978-981-97-0240-4_8>
49. Use of melatonin in plants’ growth and productions. **N Chaachouay**, A Azeroual, B Bencherki, A Douira, L Zidane. In book: Plant Biology, Sustainability and Climate Change, Biostimulants in Plant Protection and Performance; Husen, A. (Ed.). **2024**, Elsevier, Pages 107-115; ISBN 9780443158841; <https://doi.org/10.1016/B978-0-443-15884-1.00004-X>.
50. Saffron Flower (*Crocus sativus*). **N Chaachouay**, O Benkhnigue, L Zidane; In book: Medicinal Spice and Condiment Crops (1st ed.). Husen, A. (Ed.). (**2024**). CRC Press. <https://doi.org/10.1201/9781003387046>
51. *Pistacia atlantica* Desf., *Pistacia lentiscus* L., *Pistacia terebinthus* L., *Pistacia vera* L. – ANACARDIACEAE. Aissa Idrissi, **Noureddine Chaachouay**, Rainer W. Bussmann and Mostafa Elachouri. In: Bussmann, R.W., Elachouri, M., Kikvidze, Z. (eds) Ethnobotany of Northern Africa and Levant. Ethnobotany of Mountain Regions. Springer, Cham. December **2023**. <https://doi.org/10.1007/978-3-031-13933-8_16-1>
52. *Asphodelus aestivus* Brot., *Asphodelus fistulosus* L., *Asphodelus macrocarpus* Parl., *Asphodelus microcarpus* Salzm. & Viv., *Asphodelus ramosus* L., *Asphodelus refractus* Boiss., *Asphodelus tenuifolius* Cav.: ASPHODELACEAE. Mohammed Ouasti, **Noureddine Chaachouay**, Rainer W. Bussmannand Mostafa Elachouri. In: Bussmann, R.W., Elachouri, M., Kikvidze, Z. (eds) Ethnobotany of Northern Africa and Levant. Ethnobotany of Mountain Regions. Springer, Cham. December **2023**. <https://doi.org/10.1007/978-3-031-13933-8_16-1>
53. *Capparis spinosa* L. CAPPARACEAE. Mostafa Elachouri, Idrissi Aissa, **Noureddine Chaachouay**, Lahcen Zidane and Rainer W. Bussmann. In: Bussmann, R.W., Elachouri, M., Kikvidze, Z. (eds) Ethnobotany of Northern Africa and Levant. Ethnobotany of Mountain Regions. Springer, Cham. July **2023**. <https://doi.org/10.1007/978-3-031-13933-8_16-1>
54. *Cedrus atlantica* (Endl.) Manetti ex Carrière; *Cedrus libani* A. Rich.: PINACEAE. Aissa Idrissi, **Noureddine Chaachouay**, Rainer W. Bussmann, Lahcen Zidane and Mostafa Elachouri. In: Bussmann, R.W., Elachouri, M., Kikvidze, Z. (eds) Ethnobotany of Northern Africa and Levant. Ethnobotany of Mountain Regions. Springer, Cham. December **2023**. <https://doi.org/10.1007/978-3-031-13933-8_16-1>
55. *Ceratonia siliqua* L. FABACEAE. Mostafa Elachouri, **Noureddine Chaachouay**, Amine Elbouzidi, Mohamed Taibi and Aissa Idrissi. In: Bussmann, R.W., Elachouri, M., Kikvidze, Z. (eds) Ethnobotany of Northern Africa and Levant. Ethnobotany of Mountain Regions. Springer, Cham. September **2023**. <https://doi.org/10.1007/978-3-031-13933-8_16-1>
56. *Coriandrum sativum* L. APIACEAE. Somenath Das, Jai Malik, Subhash C. Mandal, **Noureddine Chaachouay**, Lahcen Zidane, Mohammed Ouasti, Rainer W. Bussmann, and Mostafa Elachouri. In: Bussmann, R.W., Elachouri, M., Kikvidze, Z. (eds) Ethnobotany of Northern Africa and Levant. Ethnobotany of Mountain Regions. Springer, Cham. December **2023**. <https://doi.org/10.1007/978-3-031-13933-8_16-1>
57. *Chamaerops humilis* L. ARECACEAE. Mostafa Elachouri, **Noureddine Chaachouay**, Lahcen Zidane and Noureddine Bencheikh. In: Bussmann, R.W., Elachouri, M., Kikvidze, Z. (eds) Ethnobotany of Northern Africa and Levant. Ethnobotany of Mountain Regions. Springer, Cham. September **2023**. <https://doi.org/10.1007/978-3-031-13933-8_16-1>
58. *Citrullus colocynthis* (L.) Schrad. CUCURBITACEAE. Mostafa Elachouri, Fatima Zahra Aboudamia, Rkia Eddabra, Mounsef Neffa, Soumia Benaicha, **Noureddine Chaachouay** and Lahcen Zidane. In: Bussmann, R.W., Elachouri, M., Kikvidze, Z. (eds) Ethnobotany of Northern Africa and Levant. Ethnobotany of Mountain Regions. Springer, Cham. December **2023**. <https://doi.org/10.1007/978-3-031-13933-8_16-1>
59. *Citrus × aurantium* L.; *Citrus × sinensis* (L.) Osbeck RUTACEAE. Mostafa Elachouri, **Noureddine Chaachouay**, Lahcen Zidane, Imane Ouasti and Rainer W. Bussmann. In: Bussmann, R.W., Elachouri, M., Kikvidze, Z. (eds) Ethnobotany of Northern Africa and Levant. Ethnobotany of Mountain Regions. Springer, Cham. November **2023**. <https://doi.org/10.1007/978-3-031-13933-8_16-1>
60. *Daucus carota* L., *Daucus crinitus* Desf. – APIACEAE. Idrissi Aissa, **Noureddine Chaachouay**, Lahcen Zidane, Jamila Fakchich, Rainer W. Bussmann and Elachouri Mostafa. In: Bussmann, R.W., Elachouri, M., Kikvidze, Z. (eds) Ethnobotany of Northern Africa and Levant. Ethnobotany of Mountain Regions. Springer, Cham. September **2023**. <https://doi.org/10.1007/978-3-031-13933-8_16-1>
61. *Eucalyptus camaldulensis* Dehnh., *Eucalyptus globulus* Labill. MYRTACEAE. Mostafa Elachouri, **Noureddine Chaachouay**, Lahcen Zidane, Jamila Fakchich, Mohammed Ajjoun and Rainer W. Bussmann. In: Bussmann, R.W., Elachouri, M., Kikvidze, Z. (eds) Ethnobotany of Northern Africa and Levant. Ethnobotany of Mountain Regions. Springer, Cham. September **2023**. <https://doi.org/10.1007/978-3-031-13933-8_16-1>
62. *Melissa officinalis* L.L – AMIACEAE. Soumia Benaicha, **Noureddine Chaachouay**, Rainer W. Bussmann, Narel Y. Paniagua-Zambrana and Mostafa Elachouri. In: Bussmann, R.W., Elachouri, M., Kikvidze, Z. (eds) Ethnobotany of Northern Africa and Levant. Ethnobotany of Mountain Regions. Springer, Cham. November **2023**. <https://doi.org/10.1007/978-3-031-13933-8_16-1>
63. *Myrtus communis* L. – MYRTACEAE. Mostafa Elachouri, **Noureddine Chaachouay**, Allal Douira, Lehcen Zidane, Imane Ouasti and Rainer W. Bussmann. In: Bussmann, R.W., Elachouri, M., Kikvidze, Z. (eds) Ethnobotany of Northern Africa and Levant. Ethnobotany of Mountain Regions. Springer, Cham. September **2023**. <https://doi.org/10.1007/978-3-031-13933-8_16-1>
64. *Nerium oleander* L. – APOCYNACEAE. Mostafa Elachouri, **Noureddine Chaachouay**, Allal Douria, Lahcen Zidane, Rainer W. Bussmann and Imane Ouasti. In: Bussmann, R.W., Elachouri, M., Kikvidze, Z. (eds) Ethnobotany of Northern Africa and Levant. Ethnobotany of Mountain Regions. Springer, Cham. December **2023**. <https://doi.org/10.1007/978-3-031-13933-8_16-1>
65. *Phaseolus vulgaris* L. – FABACEAE. Sayf-eddine Belkasmi, **Noureddine Chaachouay**, Rainer W. Bussmann and Mostafa Elachouri. In: Bussmann, R.W., Elachouri, M., Kikvidze, Z. (eds) Ethnobotany of Northern Africa and Levant. Ethnobotany of Mountain Regions. Springer, Cham. November **2023**. <https://doi.org/10.1007/978-3-031-13933-8_16-1>
66. *Zingiber officinale* Roscoe – ZINGIBERACEAE. Phurpa Wangchuk, Subash C. Mandal, Tenzin Jamtsho, Ouasti Imane, Oussama Bekkouch, Souliman Amrani, Rainer W. Bussmann, **Noureddine Chaachouay** and Mostafa Elachouri. In: Bussmann, R.W., Elachouri, M., Kikvidze, Z. (eds) Ethnobotany of Northern Africa and Levant. Ethnobotany of Mountain Regions. Springer, Cham. September **2023**. <https://doi.org/10.1007/978-3-031-13933-8_16-1>
67. Secondary Metabolites, Ethnopharmacology, and Commercial Application of *Glycyrrhiza* *glabra*. **N Chaachouay**, A Azeroual, B Bencharki, L Zidane. In book: Medicinal Roots and Tubers for Pharmaceutical and Commercial Applications; Edition: 1st Edition, Chapter: 7, pp 15 **2023;** Publisher: CRC Press. <https://doi.org/10.1201/b22924-7>
68. Ethnobotany, Ethnopharmacology, and Traditional Uses of Medicinal and Aromatic Plants. **N Chaachouay**, A Azeroual, L Zidane. In: Adnan, M., Patel, M., & Snoussi, M. (Eds.). Ethnobotany and Ethnopharmacology of Medicinal and Aromatic Plants: Steps Towards Drug Discovery (1st ed.). **2023**; CRC Press. <https://doi.org/10.1201/b22842>
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70. Food safety and biotechnological products. **N Chaachouay**, A Azeroual, B Bencharki, L Zidane. Genomics, Transcriptomics, Proteomics and Metabolomics of Crop Plants. Plant Biology, Sustainability and Climate Change. edited by Azamal Husen and Altaf Ahmad; Elsevier. **2023**; Pages 353-363. <https://doi.org/10.1016/B978-0-323-95989-6.00017-6>
71. Use of plants as medicines and aromatics by indigenous communities of Morocco: pharmacognosy, ecology and conservation. **N Chaachouay**, A Azeroual, MKA Ansari, L Zidane. Plants as medicine and aromatics. Plants as Medicine and Aromatics, edited by Mohd Kafeel Ahmad Ansari, Bengu Turkyilmaz Unal, Munir Ozturk, Gary Owens; CRC Press. **2023**; 33-44.
72. The Concept and Status of Medicinal and Aromatic Plants: History, Pharmacognosy, Ecology, and Conservation. MKA Ansari, M Iqbal, **N Chaachouay**, AA Ansari, G Owens. Plants as Medicine and Aromatics, edited by Mohd Kafeel Ahmad Ansari, Bengu Turkyilmaz Unal, Munir Ozturk, Gary Owens; CRC Press. **2023**;129-144.
73. Alkaloids: A Suitable Precursor for Nanomaterials Synthesis, and Their Various Applications. **N Chaachouay**, A Azeroual, O Benkhnigue, L Zidane. Secondary Metabolites Based Green Synthesis of Nanomaterials and Their Applications. Springer Nature Singapore. **2023**;23-48. In: Husen, A. (eds) Secondary Metabolites Based Green Synthesis of Nanomaterials and Their Applications. Smart Nanomaterials Technology. Springer, Singapore. <https://doi.org/10.1007/978-981-99-0927-8_2>
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75. *Atractylis gummifera* (Stemless Atractylis). **N Chaachouay**, L Zidane. Exploring Poisonous Plants, Medicinal Values, Toxicity Responses, and Therapeutic Uses. Edited ByAzamal Husen, CRC Press. **2023**; 157-163.
76. Neurological Phytotherapy by Indigenous People of Rif, Morocco. **N Chaachouay**, L Zidane. Therapy Approaches in Neurological Disorders, edited by Mario Bernardo-Filho, Danúbia Da Cunha De Sá-Caputo, Adérito Seixas, Redha Taiar; IntechOpen; **2021**;122-137.



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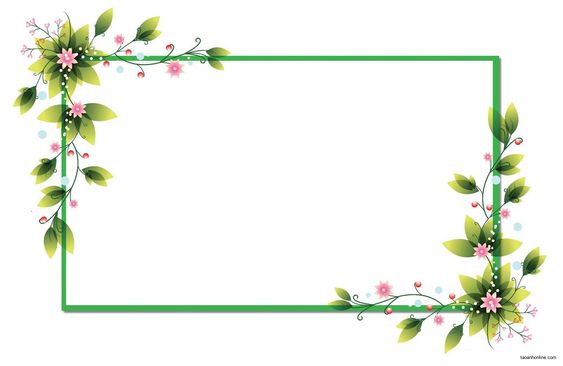
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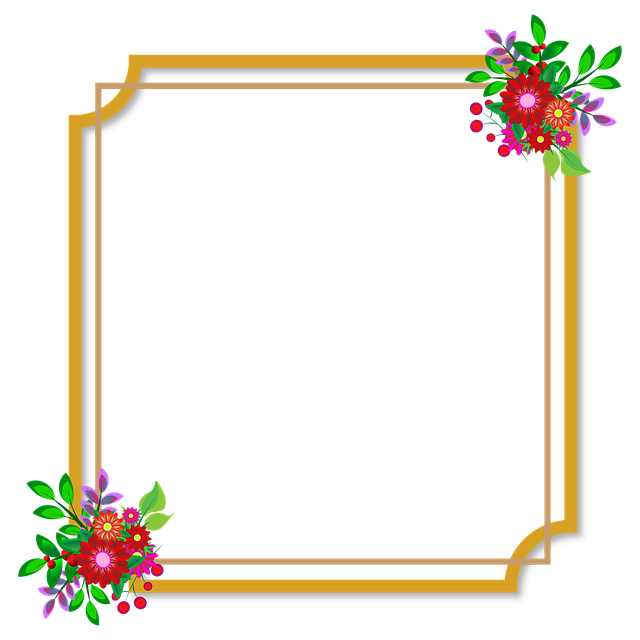
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* ***Reviews Date:*** Jan - Jun 2022



**Skills Domains**

* Systematics, taxonomy, ecology, and pharmacology of medicinal plants
* Proficiency in Botany
* Proficiency in computer tools and internet navigation
* Writing scientific articles and reports
* Expertise: End-of-Study Project, articles, chapters, and books
* Reviewer in International Journals.

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**Languages, Hobbies and Assets**

* **French:** Fluent, **English:** Intermediate, **Arabic:** Native, **Amazigh:** Native
* **Hobbies:** Reading, sports, and traveling
* Energetic, courageous, serious, sense of responsibility and team spirit.