

Laboratoire d'Écologie Fonctionnelle et Génie de l'Environnement "LEFGE"

Faculté des Sciences et Techniques. Université Sidi Mohammed Ben Abdellah,

Fès, Maroc

Publications scientifiques (2025–2021)

2025

Assessing *Venturia inaequalis* Response to Common Fungicides in Morocco

Gouit, S.; Chiadmi, S.; Goura, K.; Legrifi, I.; El Jarroudi, M.; Belabess, Z.; Tahiri, A.; Lazraq, A.; Baala, M.; Lahlali.

Journal of FUNGI. <https://doi.org/10.3390/jof11070493>

Biochemical Defense Mechanisms of Olive Varieties against *Pythium schmitthenneri*, the Causal Agent of Root Rot Disease

Legrifi, I.; Radi, M.; Taoussi, M.; Khadiri, M.; Hari, A.; Sagouti, T.; Figuigui, J.A.; Belabess, Z.; Lazraq, A.; Lahlali, R.

Pathogens. <https://doi.org/10.3390/pathogens14080803>

Characterization, Antioxidant, and Antibacterial Activity of Vinegar Resulting from the Natural Fermentation of Two Varieties of Apple: Gala Royal and Golden Delicious

MIKOU Karima.

Journal of Food and Nutrition Research. DOI: 10.12691/jfnr-13-7-3

Characterization of *Phytophthora* and *Pythium* Species Associated with Root Rot of Olive Trees in Morocco

Ikram Legrifi, Abderrahim Lazraq, Jamila Al Figuigui, Zineb Belabess, Moussa El Jarroudi, Rachid Lahlali.

Agriculture. <https://doi.org/10.3390/agriculture15040435>

Comprehensive analysis of physicochemical and phytochemical characterisation of honey from various provinces of Morocco

Chentoufi, S., Boutagayout, A., Benabderrahmane, A., Atmani, M., El Ghadraoui, L.

International Journal of Environmental Studies. <https://doi.org/10.1080/00207233.2025.2568334>

Determinants of quality of life among patients with breast cancer in Africa: a systematic review".

Hanane LEMMIH, Badre BAKZAZA, Saad RACHIQ, Sidi Mohammed RAOUI.

Tunisie médicale. DOI:10.62438/tunismed.v103i6.5515

Diversity of chemical compounds and pharmacological properties of *Cymbopogon citratus* (DC) Stapf: Richness and variation of flavonoids with a wide range of biological effects

Tazi, A., El Ghadraoui, L., Jaouad, N., Errachidi, F.

Trends in Phytochemical Research. <https://doi.org/10.71596/tpr.2025.874138>

Enhanced Extraction of Phenolic Compounds from Moroccan *Silybum marianum* L. Gaertn Extract Utilizing Augmented Simplex Centroid Design

Louafi, B., Slimani, C., Fadil, M. Rais, C., Benjelloun, M.

Letters in Applied Nanobioscience. <https://doi.org/10.33263/LIANBS142.059>

Ethnobotanical Research on Medicinal Plants Used for Respiratory Diseases: Results of a Survey in Fez, Morocco

MIKOU Karima

Traditional and Integrative Medicine. <https://doi.org/10.18502/tim.v10i1.18223>

Ethnobotanical study of medicinal plants used in the treatment of post-harvest microbial diseases in strawberry and tomato crops in Morocco

Bessi, A., Elhanafi, L., Rais, C., Slimani, C., Louafi, B., El Ghadraoui, L., & Bouchamma, E. O

Ethnobotany Research and Applications. <http://dx.doi.org/10.32859/era.32.38.1-23>

Extraction of natural antioxidants from Moroccan saffron (*Crocus sativus* L.) using ultrasound-assisted extraction: An optimization approach with box-behnken design

Slimani, C., Fadil, M., Rais, C., Almutairi, K.M., Aboul-Soud, M.A.M.

Ultrasonics Sonochemistry. <https://doi.org/10.1016/j.ultsonch.2025.107448>

From gutter to value: Valorization of acid whey from fresh cheese using membrane filtration

Bouchra Soumati, Abderrahim Lazraq, Asmae Benabderrahmane, Majid Atmani

ECOLOGICAL ENGINEERING & ENVIRONMENTAL TECHNOLOGY.

<https://doi.org/10.12912/27197050/203125>

Innovative Approaches in the Extraction, Identification, and Application of Secondary Metabolites from Plants

Assouguem, Amine; Annemer, Saoussan; Kara, Mohammed; Lazraq, Abderrahim

Phyton-International Journal of Experimental Botany.

<https://doi.org/10.32604/phyton.2025.065750>

LC-MS/MS analysis of bioactive compounds from saffron (*Crocus sativus* L.) by-products: Optimization of phenolic compounds recovery using simplex centroid mixture design

Chaimae Sliman, Chaimae Rais, Farid Mansouri, Laila ElHanafi, Boutayna RhourriFarih, Meryem Benjelloun, Riaz Ullah, Abdelaaty A Shahat, Laura Acquaticci, Giovanni Caprioli, Abdelhakim Bouyahya, Abderrahim Lazraq

Microchemical Journal. <https://doi.org/10.1016/j.microc.2025.112714>

Modern achievements and future prospects in membrane filtration technologies for acid whey valorization – An overview

Bouchra Soumati, Abderrahim Lazraq, Asmae Benabderrahmane, Majid Atmani

Ecological Engineering & Environmental Technology.
<https://doi.org/10.12912/27197050/207228>

MOLECULAR TOXONOMY OF CAELIFERA, ORTHOPTERA FROM MOROCCO

Zahri, A., Ezrari, S., Errabhi, N., Ghadraoui, L.E., Radouane, N.

Indian Journal of Entomology. <https://doi.org/10.55446/IJE.2024.2168>

Optimization and assessment of the metabolites from the *Corrigiola telephiifolia* Pourr. roots, using response surface methodology

El Yaagoubi, W., Aazza, S., Soussi, M., Lahlali, R., El Ghadraoui, L.

Kuwait Journal of Science. <https://doi.org/10.1016/j.kjs.2025.100383>

Optimization of phenolic compounds extraction and antioxidant activity from Moroccan *Crocus sativus* L. by-products using predictive modeling and Box-Behnken design

Chaimae Sliman, Mouhcine Fadil, Chaimae Rais, Riaz Ullah, Zafar Iqbal, Agnese Santanatoglia, Giovanni Caprioli, Meryem Benjelloun, Abderrahim Lazraq, Abdelhakim Bouyahya

Microchemical Journal. <https://doi.org/10.1016/j.microc.2025.113444>

Optimization of total phenolic extraction from three Moroccan date palm cultivars (*Phoenix dactylifer* L.) using mixture design and triangular surfaces

Abdelfattah Goubi, Dounia Amghar, Abdellatif Boutagayout, Houria Nekhla, Hicham Elidrissy, Lahcen El Ghadraoui, Raja Guemmouh.

Ecological Frontiers. <https://doi.org/10.1016/j.ecofro.2025.02.009>

Optimization of Ultrasound-Assisted Extraction, Phytochemical Profiling, and Antioxidant Properties of *Ceratonia siliqua* L. Leaves Using a Mixture Design Approach: POM Theory as Guide and Sustainable Development of Agriculture.

Louafi, B., Ouazzani, R., Akoh, R., Bousta, D., Benjelloun, M.

Moroccan Journal of Chemistry. <https://doi.org/10.48317/IMIST.PRSM/morjchem-v13i4.54807>

Optimization the extraction efficiency of phenolic compound from Cannabis sativa L. by products using augmented Simplex-centroid design

Rais, S., Slimani, C., Fadil, M., Rais, C., Bouchamma, E.-O.

Chemical Review and Letters. <https://doi.org/10.22034/crl.2025.494845.1498>

Phytochemical Screening, Antioxidant and Antibacterial Activity of Six Medicinal and Aromatic Plants in Morocco: A Comparative Study

Bessi, A., Rais, C., Slimani, C., El Ghadraoui, L., Bouchamma, E.O.

Plant Breeding and Biotechnology. <https://doi.org/10.9787/PBB.2025.13.15>

Pomological, Nutritional and Biochemical Characteristics of Native Dates (Phoenix dactylifera) cv. Mejhoul Sampled at Different Climatic Areas in Morocco

Abdelfattah Goubi, Dounia Amghar, Eimad dine T. Bouhlali , Wafaa Bouzir , Hicham Elidrissy , Abdellah Zinedine , Lahsen El Ghadraoui and Raja Guemmouh

International Journal of Agriculture and Biology. <https://doi.org/10.17957/IJAB/15.2278>

Potential of bacterial isolates for the biological control of apple scab (Venturia inaequalis)

Safae Gouit, Mohammed Radi , Ismahane Chair, Zineb Belabess , Abdelaaziz Farhaoui , Abdessalem Tahiri , Abderrahim Lazraq , Rachid Lahlali

Journal of Natural Pesticide Research. <https://doi.org/10.1016/j.napere.2025.100165>

Prediction of Faba bean (Vicia faba L.) Yield under Artificial Shade Constraints in Moroccan Agro-fields

Ajana, G., Laasli, S.-E., Figuigui, J.E., Fatemi, Z.E.A., Daoui, K.

Legume Research. Doi: 10.18805/LRF-842

Quality of life among patients with end-stage renal disease undergoing hemodialysis in Africa: Systematic review.

Badre BAKZAZA, Hanane LEMMIH, Saad RACHIQ, Sidi Mohammed RAOUI.

International Journal of Environmental Studies; DOI: 10.1080/00207233.2024.2417619.

Quality of Life of Patients with End-stage Renal Disease Undergoing Hemodialysis in Morocco: Cross-sectional Study.

Badre BAKZAZA, Hanane LEMMIH, Saad RACHIQ, Sidi Mohammed RAOUI.

Annals of African Medicine. DOI: 10.4103/aam.aam_136_25.

Spatio-Temporal Characterization of Nest-Niche in Passerine Birds Co-Occurring in Olive Agro-Ecosystems: Partitioning of Nesting Sites, Breeding Chronology, and Productivity;

Squalli, W.; Douini, I.; Mansouri, I.; Achiban, H.; Tahiri, H.; Fadil, F.; Wink, M.; Dakki, M.

Birds. <https://doi.org/10.3390/birds6010012>.

Strengthening Tomato Resilience: Harnessing Microbial Consortia to Overcome Biotic and Abiotic Stress

Oumaima Benaissa, Mohammed Taoussi, Ikram Legrifi, Zineb Belabess, Abderrahim Lazraq, Rachid Lahlali.

Phyton-International Journal of Experimental Botany.
<https://doi.org/10.32604/phyton.2025.064598>

Sustainable plant-based control strategies for late blight disease of potato

Amal Hari, Ghizlane Echchgadda, Meryem Benjelloun, Haitam Lahmamsi, Zineb Belabess, Salah-Eddine Laasli, Fouad Mokrini, Abderrahim Lazraq, Rachid Lahlali

CAB Reviews: Perspectives in Agriculture, Veterinary Science, Nutrition and Natural Resources

<https://doi.org/10.1079/cabireviews.2025.0001>

The puzzle of fig mosaic: Investigating viruses, viroids, and phytoplasmas worldwide

Zineb Belabess , Salma Ouizali , Abderrahim Lazraq , Abdessalem Tahiri , Rachid Lahlali

Cab Reviews Perspectives in Agriculture Veterinary Science Nutrition and Natural

<https://doi.org/10.1079/cabireviews.2025.0059>

Total Phenolic, Total Flavonoid Contents and Biological Activities of Mentha Suaveolens subsp. timija Crude Extracts

Chater, O., Aazza, S., El Ghadraoui, L.

Majalah Obat Tradisional. DOI:[10.22146/mot.96092](https://doi.org/10.22146/mot.96092)

Unlocking olive rhizobacteria: harnessing biocontrol power to combat olive root rot and promote plant growth

Ikram Legrifi, Jamila Al Figuigui, Haitam Lahmamsi, Mohammed Taoussi, Mohammed Radi, Zineb Belabess, Abderrahim Lazraq, Essaid Ait Barka & Rachid Lahlali

International Microbiology. <https://doi.org/10.1007/s10123-025-00632-z>

2024

Antibacterial and antioxidant activities of *Chlorella vulgaris* and *Senedesmus incressatulus* using natural deep eutectic solvent under microwave assisted by ultrasound

Reda Fassi Fihri Amine Ez-Zoubi, Latifa Mbarkioua · Aya Amar, Abdellah Farah, El Ouazna Bouchamma.

Heliyon. DOI: <https://doi.org/10.1016/j.heliyon.2024.e35071>

Application of response surface methodology for bioactive compounds extraction and the variability in phytochemical profile from roots of *Ammi visnaga* (L.) Lam.

El Jabboury, Z., Aazza, S., Benjelloun, M., El Ghadraoui, L.

BIO Web of Conferences. DOI: <https://doi.org/10.1051/bioconf/202411506002>

Assessing *Panonychus ulmi* (Acari: Tetranychidae) Infestations and Their Key Predators on *Malus domestica* Borkh in Varied Ecological Settings

Amine Assouguem, Rachid Lahlali, Abdelmalek Boutaleb Joutei, Mohammed Kara, Ahmed Bari, Kamal Aberkani, Sawinder Kaur, Fouad Mokrini and Abderrahim Lazraq

Agronomy. DOI: <https://doi.org/10.3390/agronomy14030457>

Biochemical characterization of *Euphorbia resinifera* floral cyathia

Boutoub, O.Jadhav, S. Zheng, X.Miguel, M.G. Borghi, M. El Ghadraoui, L.

Journal of Plant Physiology. DOI: <https://doi.org/10.1016/j.jplph.2024.154184>

Chemical Characterization and Biological Properties Assessment of *Euphorbia resinifera* and *Euphorbia officinarum* Moroccan Propolis

Oumaima Boutoub ,Soukaina El-Guendouz Lahsen El Ghadraoui

Antibiotics. DOI: <https://doi.org/10.3390/antibiotics13030230>

***Corrigiola litoralis* Subsp. *telephiifolia* (Pourr.) Briq.: an Extensive Review of Geographical Distribution, Phytochemical Content, Functionality, and Guidelines for Prospect Investigations**

Wissal El Yaagoubi 1,2, Meriem Soussi 1, Belmalha Saadia 2, Ismail Mansouri 3, Wafae Squalli 1, Lahsen El Ghadraoui 1

Ecological Engineering and Environmental Technology.

DOI: <https://doi.org/10.12912/27197050/186225>

Chemical composition, antioxidant properties, and antifungal activity of wild *Origanum elongatum* extracts against *Phytophthora infestans*

Amal Hari, Ghizlane Echchgadda Fatima-Azzahra Darkaoui, Noamane Taarji, Nihad Sahri, Mansour Sobeh, Said Ezrari, Salah-Eddine Laasli¹, Meryem Benjelloun and Rachid Lahlali

Frontiers in Plant Science. DOI: <https://doi.org/10.3389/fpls.2024.1278538>

Comparative analysis of *Nigella sativa* L. oil extraction processes: impacts on chemical composition, antioxidant and antimicrobial properties

Otmane Zouirech Fatima El Kamari Amira Metouekel Azeddin El Barnossi Farhan Siddique Sumaira Nadeem Karima Mikou

International Journal of Food Properties.

DOI: <https://doi.org/10.1080/10942912.2024.2367063>

Comparative ethnopharmacological survey: Medicinal plants and remedies for oral health in Meknes, Morocco, and their limits facing modern dentistry

Asmae Benabderrahmane, Majid Atmani, Wijdane Rhioui, Abdellatif Boutagayout, Saadia Belmalha

Journal of Pharmacy and Pharmacognosy Research.

DOI: https://doi.org/10.56499/jppres23.1873_12.4.759

Comprehensive analysis of phytochemistry, In Silico toxicity prediction, and antimicrobial efficacy across different fractions of *Ammi visnaga* L.

El Jabboury, Z. Aazza, S. Ousaaïd, D. Benjelloun, M. El Ghadraoui, L.

Chemical Review and Letters DOI: <https://doi.org/10.22034/crl.2024.429586.1267>

Effect of mulching, aqueous extract of *Thymus zygis* (L.) and *Melia azedarach* (L.), and intercropping with *Coriandrum sativum* (L.), on weed management, yield, agronomic and physiological parameters of bell pepper crop (*Capsicum annuum* L.)

Wijdane Rhioui, Jamila Al Figuigui, Karima Mikou, Asmae Benabderrahmane & Saadia Belmalha

Vegetos. DOI: <https://doi.org/10.1007/s42535-024-00814-6>

Ethnobotanical survey of *Silybum marianum* L. Gaertn in the Ouezzane region (northwestern Morocco): Knowledge and use of the plant

Louafi, B., Slimani, C., Bessi, A., El Ghadraoui, L., Benjelloun, M.

BIO Web of Conferences. DOI: <https://doi.org/10.1051/bioconf/202411506004>

Ethnobotanical study of *Silybum marianum* (L.) Gaertn in the Taounate Region (Northern Morocco): Knowledge and Use of the Plant for Food and Medicinal Purposes

Boutaina Louafi, Chaimae Slimani, Aymane Bessi, Chaimae Rais, Lahsen El Ghadraoui and Meryem Benjelloun

Ethnobotany Research and Applications. DOI: <http://dx.doi.org/10.32859/era.28.25.1-11>

Extract and Fixed Oil of Moroccan *Lavandula dentata* Aerial Parts as Potential Antioxidants

Abid Houssni, El Abdali Youness, Jalte Meryem, El battioui Fadoua, Omaima El Bouazzi, Allali Aimad, Mikou Karima

Tropical Journal of Natural Product Research (TJNPR).

DOI: <https://doi.org/10.26538/tjnpr/v8i7.12>

Farmer's knowledge, perception, and practices in managing insect pests and diseases of grapevine in Morocco

Kenfaoui, J., Lahlali, R., Laasli, S.-E., Amiri, S., El Ghadraoui, L.

International Journal of Pest Management, DOI: <https://doi.org/10.1080/09670874.2024.2361365>

Growth kinetics and morphological characteristics of the Vero cell line and primary heart cells treated with the plant hormones Auxin, Kinetin, and Gibberellin

Halima Rhazi, Mehdi Elharrak, Hossam Hilal El Idrissi, Meryeme Alhyane, Khalid Omari Tadlaoui and Karima Mikou

BIO Web of Conferences. DOI: <https://doi.org/10.1051/bioconf/202411506003>

Harnessing Trichoderma spp.: A Promising Approach to Control Apple Scab Disease

Safae Gouit, Ismahane Chair, Zineb Belabess, Ikram Legrifi, Khadija Goura, Abdessalem Tahiri, Abderrahim Lazraq and Rachid Lahlali

Pathogens. DOI: <https://doi.org/10.3390/pathogens13090752>

Impact of Geographical Conditions on Phenolic and Flavonoid Contents and Antioxidant Activity of Different Extracts of *Ajuga iva*

Lahrizi, L. Errachidi, F. El- Ghadraoui, L.

Indian Journal of Agricultural Research DOI: <https://doi.org/10.18805/ijare.af-827>

Local Agroecological Practices and Chemical Inputs used in Mint Farming Systems, Regions of Fez-Meknes and Casablanca-Settat, Morocco

Wijdane Rhioui, Jamila Al Figuigui, Saadia Belmalha

Agricultural Research DOI: <https://doi.org/10.1007/s40003-023-00694-3>

Mineral Constituents and Antimicrobial Potential of Extracts of *Ajuga iva* L. Collected from Different Geographical Locations in Morocco

Lahrizi, L. Errachidi, F. Ousaaid, D. El Ghadraoui, L.

Tropical Journal of Natural Product Research DOI: <https://www.tjnpr.org/index.php/home>

Molecular Toxonomy of Caelifera, Orthoptera from Morocco

Aziz Zahri, Nabil Errabhi, Wafae Squalli, Ismail Mansouri, Nabil Radouane, Said Ezrari, Houria Nekhla, Lazraq Abderrahim, Lahsen EL Ghadraoui

Indian Journal of Entomology. DOI: <https://doi.org/10.55446/IJE.2024.2168>

Morphological Variability and Nutritional Potential of Zizyphus lotus (L.) Lam: Assessment of Primary Metabolites and Mineral Composition Highlights Significant Valorization Prospects

Chaimae Rais, Chaimae Slimani, Saadia Rais, Lahsen El Ghadraoui, Rachida Hassikou, El Ouazna Bouchamma

Letters in Applied NanoBioScience. DOI: <https://doi.org/10.33263/LIANBS134.154>

Multivariate Sonication-Based Extraction Optimization to Improve the Antioxidant and Anti-Inflammatory Properties of Anacyclus pyrethrum var. Pyrethrum Root Extracts

Chater, O., Aazza, S., Silva, H., Harrach, A., El Ghadraoui, L.

Chemistry Africa DOI: <https://doi.org/10.1007/s42250-024-00910-9>

Optimization of Polyphenols and Antioxidants Extraction from Mentha Suaveolens Subspecies Timija

Oumaima Chater, Lahsen El Ghadraoui , Hiba Bouzaid , Smail Aazza

ECOLOGICAL ENGINEERING & ENVIRONMENTAL TECHNOLOGY.

DOI: <https://doi.org/10.12912/27197050/186220>

Optimization of ultrasound-assisted extraction of phenols from Crocus sativus by-products using sunflower oil as a sustainable solvent alternative

Chaimae Slimani , Chaimae Rais , Farid Mansouri , Saadia Rais, Meryem Benjelloun , Riaz Ullah , Zafar Iqbal , Khang Wen Goh , Learn-Han Lee , Abdelhakim Bouyahya, Abderrahim Lazraq

Food Chemistry. DOI: <https://doi.org/10.1016/j.fochx.2024.101579>

Phytochemicals, antioxidant activity, and antimicrobial effects of the fractions of Corrigiola telephiifolia pourr.

Wissal el YAAGOUBI, Meriem SOUSSI, Smail AAZZA, Saadia Belmalha, EL GHADRAOUI lahsen

Ecological Engineering and Environmental Technology.

DOI: <https://doi.org/10.12912/27197050/191210>

Simultaneous optimization of extraction of bioactive compounds and antioxidant activity of Ammi visnaga (L.) Lam aerial parts using response surface methodology

Zineb El Jabboury , Smail Aazza, Driss Ousaaid, Oumaima Chater, Uroš Gašić, Peđa Janačković , Zora Dajic Stevanovic, Stefan Kolašinac, Meryem Benjelloun And Lahsen El Ghadraoui

Trends in Phytochemical Research. DOI: <https://doi.org/10.71596/tpr.2024.1107361>

The life quality of people living with chronic disease in Africa: a systematic narrative synthesis.

Badre BAKZAZA, Hanane LEMMIH, Faouzi ERRACHIDI, Omaima EL BOUAZZI Saad RACHIQ, Sidi Mohammed RAOUI.

Pan African Medical Journal. Doi: [10.11604/pamj.2024.49.115.42393](https://doi.org/10.11604/pamj.2024.49.115.42393)

The quality of life among women with breast cancer: a qualitative study in the environment of healthcare in Morocco.

Hanane LEMMIH, Badre BAKZAZA, Saad RACHIQ, Sidi Mohammed RAOUI.

International Journal of Environmental Studies DOI: [10.1080/00207233.2024.2422687](https://doi.org/10.1080/00207233.2024.2422687).

Weed management strategies for grain legumes in different regions of Morocco

Rhioui, W., Al Figuigui, J., Boutagayout, A., & Belmalha, S.

International Journal of Pest Management. DOI: [10.1080/09670874.2024.2410187](https://doi.org/10.1080/09670874.2024.2410187)

2023

Agroecological concepts and alternatives to the problems of contemporary agriculture: Monoculture and chemical fertilization in the context of climate change

YASMINE ELOUATTASSI1, MOHAMED FERIOUN, NAIMA EL GHACHTOULI, KHALID DERRAZ , FOUAD RACHIDI

Journal of Agriculture and Environment for International Development - JAEID

DOI: <https://doi.org/10.36253/jaeid-14672>

Ammi visnaga (L.) Lam.: An overview of phytochemistry and biological functionalities

Zineb El Jabboury , Rachid Bentaib , Zora Dajic Stevanovic , Driss Ousaaid , Meryem Benjelloun , And Lahsen El Ghadraoui

Trends in Phytochemical Research (TPR) DOI: [10.30495/tpr.2023.1987739.1347](https://doi.org/10.30495/tpr.2023.1987739.1347)

A Multidimensional Review of Pimpinella anisum and Recommendation for Future Research to Face Adverse Climatic Conditions

Meriem Soussi, Wissal El Yaagoubi, Houria Nekhla, Laila El Hanafi, Wafae Squalli, Meryem Benjelloun, Lahsen El Ghadraoui

Chemistry Africa. DOI: <https://doi.org/10.1007/s42250-023-00633-3>

Biological Properties of Chamaerops humilis L. – Antioxidant and Antibacterial Activities of Leaf, Fruit and Pulp Extracts

Houria Nekhla, Majid Atmani , Laila El Hanafi , Wijdane Rhioui , Abdelfatah Goubi , Wafae Squalli , Aziz Zahri , Ahmed Harrach , Lahsen El Ghadraoui

ECOLOGICAL ENGINEERING & ENVIRONMENTAL TECHNOLOGY

DOI: <https://doi.org/10.12912/27197050/171868>

Comparative ethnobotanical survey of Pimpinella anisum L., Coriandrum sativum L., Carum carvi L. in three zones of Morocco: Therapeutic uses, sources of knowledge, and efficacy against diseases and food purpose

Meriem Soussi, Wissal El Yaagoubi, Wafae Squalli, Meryem Benjelloun and Lahsen El Ghadraoui

Ethnobotany Research and Applications. DOI: <https://doi.org/10.32859/era.26.57.1-18>

Deep ethnobotanical survey of Anise (Pimpinella anisum L.) in Morocco: variation of therapeutic uses, sources of information, and efficacy

Meriem Soussi, Wissal El Yaagoubi, Wafae Squalli, Meryem Benjelloun and Lahsen El Ghadraoui

Ethnobotany Research and Applications. DOI: <https://doi.org/10.32859/era.26.19.1-15>

Diversity and Abundance of Breeding Birds, Habitat, and Nesting Substrate Selection in Urban Areas: A Relevant Case from the Southern Slope of the Mediterranean

Ikram Douini , Wafae Squalli , Ismail Mansouri , Mohamed Mounir , El-Mostafa Benka , Mohamed Dakki and Soumaya Hammada

International Journal of Zoology. DOI: <https://doi.org/10.1155/2023/8554860>

Ecotourism in Morocco: Review of the Current Situation, Natural Potential, Cultural Diversity, Obstacles and Recommendations for Future Research

Soukaina Chellik , Ismail Mansouri, Wafae Squalli, Hamid Achiban , Safaa Serbouti, Mohamed Mounir, Lahcen Zidane

Tropical Journal of Natural Product Research. DOI: <https://doi.org/10.26538/tjnpr/v7i10.1>

Effects of organic and inorganic mulching, nettle extract, and manual weeding on weed management under direct-seeded lentil in Meknes region, Morocco

Wijdane Rhioui, Jamila Al Figuigui, Abdellatif Boutagayout, Manal Zouhar, Saadia Belmalha

Crop Protection Journal. DOI: <https://doi.org/10.1016/j.cropro.2023.106376>

Effect of Roasting Time and Temperature on the Biochemical Contents, Phytochemical Properties and Antioxidant Activity of Sesamum indicum L. Seeds

Laila El Hanafi , Houria Nekhla, Insaf Mabchour , Aziz Zahri , Wijdane Rhioui , Ghada Beniaich , Asmae Baghouz , Lahsen El ghadraoui , Hassane Greche

Tropical Journal of Natural Product Research. DOI: <https://doi.org/10.26538/tjnpr/v7i11.16>

Effects of Temperature, pH, and Salinity on Seed Germination of Acinos alpinus subsp. Meridionalis and FTIR Analysis of Molecular Composition Changes

Mustapha Cherrate , Nabil Radouane , Said Ezrari , Ghizlane Echchgadda , Abdellah Maissour , Kacem Makroum , Gabriel Plavan , Omar H. Abd-Elkader and Mohamed Bourioug

MDPI Sustainability DOI: <https://doi.org/10.3390/su15064793>

Exploring the Bioprotective Potential of Halophilic Bacteria against Major Postharvest Fungal Pathogens of Citrus Fruit Penicillium digitatum and Penicillium italicum

Nabil Radouane , Hasnae Adadi , Said Ezrari , Jihane Kenfaoui , Zineb Belabess , Fouad Mokrini , Essaid Ait Barka and Rachid Lahlali

Horticulturae DOI: <https://doi.org/10.3390/horticulturae9080922>

Fruit phenotypic diversity in Chamaerops humilis (Arecaceae), in semi-arid and sub-humid regions of Morocco

H. Nekhla, L. El Ghadraoui, L. lahrizi, L. El Hanafi, A. Zahri, A. Harrach & F.-E. Saouab

Flore méditerranéenne DOI: <https://doi.org/10.7320/FlMedit33.067>

Field evaluation of different eco-friendly alternative control methods against Panonychus citri [Acari: Tetranychidae] spider mite and its predators in citrus orchards

Amine Assouguem, Abdellah Farah, Mohammed Kara, Saoussan Annemer, Riaz Ullah, Essam A. Ali, Sezai Ercisli, Azra Skender, Abderrahim Lazraq

Open Chemistry. DOI: <https://doi.org/10.1515/chem-2023-0105>

Geometric morphometrics of three species of the genus Dociostaurus (Orthoptera: Acrididae) from the Middle Atlas of Morocco

Aziz Zahria, Nabil Errabhib, Wafae Squallia, Ismail Mansouric , Nabil Radouanea, d, Said Ezraria, Houria Nekhlaa, Lazraq Abderrahima, Lahsen EL Ghadraoui

Zoology and Ecology. DOI: <https://doi.org/10.35513/21658005.2023.1.5>

Growth stimulation of two legumes (Vicia faba and Pisum sativum) using phosphate-solubilizing bacteria inoculation

Walid Janati , Karima Mikou, Lahsen El Ghadraoui and Faouzi Errachidi

Frontiers. DOI: <https://doi.org/10.3389/fmicb.2023.1212702>

Large-scale ethnomedicinal inventory and therapeutic applications of medicinal and aromatic plants used extensively in folk medicine by the local population in the middle atlas and the plain of Saiss, Morocco

Wissal El Yaagoubi, Lahsen El Ghadraoui, Meriem Soussi, Said Ezrari, and Saadia Belmalha

Ethnobotany Research and Applications. DOI: <https://doi.org/10.32859/era.25.1.1-29>

Morphological Variability and Adaptability and Phenolic Content of *Ajuga iva* Collected from Distinct Moroccan Geographical Locations

Laila Lahrizi, Faouzi Errachidi, Driss Ousaaïd and Lahsen El Ghadraoui

International Journal of Plant Biology .DOI: <https://doi.org/10.3390/ijpb14030057>

Phosphate solubilizing bacteria from soils with varying environmental conditions: Occurrence and function

Walid Janati, Rachid Bouabid , Karima Mikou , Lahsen El Ghadraoui , Faouzi Errachidi

PLOS ONE. DOI: <https://doi.org/10.1371/journal.pone.0289127>

Phytochemical Screening of Two Medicinal Plants: *Calendula officinalis* L. and *Ammi visnaga* L., Collected from the Meknes Region, Morocco

Asmae Benabderrahmane, Majid Atmani, Wijdane Rhioui , Abdellatif Boutagayout , Saâdia Belmalha

Egyptian Journal of Botany. DOI: <https://doi.org/10.21608/ejchem.2023.207170.7900>

Poxvirus sensitivity of a novel diploid sheep embryonic heart cell line

Halima Rhazi , Ikram Tifrouin , Karima Mikou , Oumaima Belayadi , Najete Safini , Meryem Alhyane , Khalid Omari Tadlaoui , Matthias Lenk , Mehdi Elharrak

Archives de Virologie. DOI: <https://doi.org/10.1007/s00705-023-05855-x>

The potency and effectiveness of six essential oils in controlling grapevine trunk diseases in Morocco.

Jihane Kenfaoui, Rachid Lahlali , SalahEddine Laasli , Khadija Goura , Majda Fardi , Abdes salem Tahiri , Lahsen El Ghadraoui , Said Amiri.

Journal of Natural Pesticide Research. DOI: <https://doi.org/10.1016/j.napere.2023.100053>

REVIEW OF THE TAXONOMIC STATUS OF THE MOST FREQUENT ORTHOPTERA SPECIES (CAELIFERA: ACRIDIDAE) IN THE MIDDLE ATLAS OF MOROCCO

Zahri AZiZ, Radouane nabil, EZrari Said, Errabhi nabil, Nekhla houria, Lazraq abderrahim and el Ghadraoui lahcen

Journal indien d'entomologie DOI: <https://doi.org/10.55446/IJE.2023.1133>

Spatial and Temporal Monitoring of North African Turtle Doves *Streptopelia turtur arenicola* (Hartert, EJO, 1894): First Migrants Arrive Early and Select Nesting Trees next to Foraging Resources while Second Breeders' Wave Breed around Earlier Nests

Mohamed Mounir, Ismail Mansouri, Wafae Squalli, Soumaya Hammada and Mohamed Dakki.

International Journal of Zoology. DOI: <https://doi.org/10.1155/2023/8863486>

Sustainable oases agriculture: A journey through Morocco's date palm production system

Kaoutar Hamriri, Majid Atmani, Ali Abidar, Larbi Aziz, Mustapha Fagroud, Rachid Bouamri

JOURNAL OF WATER AND LAND DEVELOPMENT. DOI: [10.24425/jwld.2023.148457](https://doi.org/10.24425/jwld.2023.148457)

The potency and effectiveness of six essential oils in controlling grapevine trunk diseases in Morocco

Jihane Kenfaoui, Rachid Lahlali, Salah-Eddine Laasli, Khadija Goura, Majda Fardi, Abdessalem Tahiri, Lahsen El Ghadraoui, Said Amiri

Timing of migration dates and detection of first wintering sites for the Turtle Dove in Northwest Africa

Ismail Mansouri, Wafae Squalli, Aymen Nefla, Mohamed Mounir, Hamid Achiban, Chedad Abdelwahab, Mohammed Hmidani, Lahsen El Ghadraoui, Mohamed Dakki

African journal of ecologie. DOI: <https://doi.org/10.1111/aje.13096>

Towards Sustainable Vegetable Farming: Exploring Agroecological Alternatives to Chemical Products in the Fez-Meknes Region of Morocco

Wijdane Rhioui, Jamila Al Figuigui, Rachid Lahlali, Salah-Eddine Laasli, Abdellatif Boutagayout, Moussa El Jarroudi and Saâdia Belmalha

Sustainability. DOI: <https://doi.org/10.3390/su15097412>

Unraveling Traditional Knowledge of *Ajuga iva* (L.) Schreb. Used in the Fez-Meknes Area in Morocco

Laila Lahrizi, Faouzi Errachidi, Houria Nekhla, Lahsen El Ghadraoui

TRADITIONAL AND INTEGRATIVE MEDICINE. DOI: <https://doi.org/10.18502/tim.v7i4.11491>

Whey Valorization – Innovative Strategies for Sustainable Development and Value-Added Product Creation

Bouchra Soumati, Majid Atmani, Asmae Benabderrahmane, Meryem Benjelloun

Journal of Ecological Engineering. DOI: <https://doi.org/10.12911/22998993/169505>

2022

A New Feature of Nesting Ecology in the Vulnerable European Turtle Dove: Nest Site and Nesting Tree Sharing with Coexisting Species at Three North African Wetlands

Wafae Squalli , Ismail Mansouri , Driss Ousaid , Badr Ben Hichou, Hamid Achiban, Fatima Fadil and Mohamed Dakki

Journal international d'écologie. DOI: <https://doi.org/10.1155/2022/9922971>

A Panoramic View on Grapevine Trunk Diseases Threats: Case of Eutypa Dieback, Botryosphaeria Dieback, and Esca Disease

Jihane Kenfaoui , Nabil Radouane , Mohammed Mennani , Abdessalem Tahiri , Lahsen El Ghadraoui , Zineb Belabess , Florence Fontaine , Hajar El Hamss , Said Amiri , Rachid Lahlali and Essaid Ait Barka

Journal of fungi. DOI: <https://doi.org/10.3390/jof8060595>

Biological Properties of Latex, Aqueous Extracts and Bee Products of Euphorbia officinarum L.: A Short Review

Oumaima Boutoub, Lahsen El Ghadraoui and Maria Graça Miguel

Molecules DOI: <https://doi.org/10.3390/molecules27217200>

Botryosphaeria Dieback (Lasiodiplodia viticola): An Imminent Emerging Threat to the Moroccan Vineyards

Jihane Kenfaoui , Rachid Lahlali, Mohammed Mennani , Nabil Radouane , Khadija Goura , Hajar El Hamss , Lahsen El Ghadraoui , Florence Fontaine , Abdessalem Tahiri , Essaid Ait Barka and Said Amiri

Plants. DOI: <https://doi.org/10.3390/plants11162167>

Chemical composition and evaluation of biological effects of essential oil and aqueous extract of Lavandula angustifolia L.

Chaimae SLIMANI, Hakima SQALLI , Chaimae RAIS , Abdellah FARAH , Abderrahim LAZRAQ , Lahsen EL GHADRAOUI , Saadia BELMALHA , Ghizlane ECHCHGADDA

Notulae Scientia Biologicae. DOI: <https://doi.org/10.15835/nsb14111172>

Diversity of Avian Species in Peri-Urban Landscapes Surrounding Fez in Morocco: Species Richness, Breeding Populations, and Evaluation of Menacing Factors

Wafae Squalli, Ismail Mansouri, Ikram Douini , Hamid Achiban , Fatima Fadil , Mohamed Dakki and Michael Wink

MDPI Diversity DOI: <https://doi.org/10.3390/d14110945>

Dry root rot disease, an emerging threat to citrus industry worldwide under climate change: A review

Said Ezrari, Nabil Radouane, Abdessalem Tahiri, Zakaria El Housni , Fouad Mokrini , Göksel Özer , Abderrahim Lazraq , Zineb Belabess , Said Amiri , Rachid Lahlali

Physiological and Molecular Plant Pathology DOI: [10.1016/j.pmpp.2021.101753](https://doi.org/10.1016/j.pmpp.2021.101753)

Evaluating the sensitivity and efficacy of fungicides with different modes of action against *Neocosmospora solani* and *Fusarium* species, causing agents of citrus dry root rot

Saïd Ezrari , Abderrahim Lazraq, Zakaria El Housni, Nabil Radouane, Zineb Belabess, Fouad Mokrini, Abdessalem Tahiri, Saïd Amiri & Rachid Lahlali

Archives of Phytopathology and Plant Protection. DOI: [10.1080/03235408.2022.2081765](https://doi.org/10.1080/03235408.2022.2081765)

Evaluation of ELISA and VNT for sheeppox virus antibody detection and development of an immunoenzymatic quantitative method

Halima Rhazi , Karima Mikou , Youness Sadeqy , Meryeme Alhayane , Soufiane El Mejdoub , Najete Safini , Matthias Lenk , Khalid Omari Tadlaoui , Mehdi Elharrak

Journal of Immunological Methods. DOI: <https://doi.org/10.1016/j.jim.2022.113226>

Evaluation of the Effect of Four Bioactive Compounds in Combination with Chemical Product against Two Spider Mites *Tetranychus urticae* and *Eutetranychus orientalis* (Acari: Tetranychidae)

Amine Assouguem , Mohammed Kara , Amal Ramzi, Saoussan Annemer, Alicja Kowalczyk , Essam A. Ali,5 Bushra Abdulkarim Moharram , Abderrahim Lazraq, and Abdellah Farah

Evidence-Based Complementary and Alternative Medicine. DOI: [10.1155/2022/2004623](https://doi.org/10.1155/2022/2004623)

Evaluation of the impact of two citrus plants on the variation of *Panonychus citri* (Acari: Tetranychidae) and beneficial phytoseiid mites

Amine Assouguem, Abdelmalek Boutaleb Joutei, Rachid Lahlali, Mohammed Kara, Ahmed Bari, Essam A. Ali, Hafize Fidan, Hajar Zine Laabidine, Younouss El Ouati, Abdellah Farah, Abderrahim Lazraq

Open Life Sciences. DOI: <https://doi.org/10.1515/biol-2022-0837>

Evaluation of the Varietal Impact of Two Citrus Species on Fluctuations of *Tetranychus urticae* (Acari: Tetranychidae) and Beneficial Phytoseiid Mites

Amine Assouguem , Abdellah Farah , Riaz Ullah , Yesim Bulak Korkmaz , Rafa Almeer , Amany A. Sayed , Agnieszka Najda and Abderrahim Lazraq

Sustainability DOI: <https://doi.org/10.3390/su14053088>

First report of *Pythium schmitthenneri* on olive trees and in Morocco

Ikram Legrifi, Jamila Al Figuigui, Nabil Radouane, Said Ezrari¹, Zineb Belabess , Abdessalem Tahiri, Said Amiri, Rachid Lahlali

Australasian Plant Disease Notes. DOI: <https://doi.org/10.1007/s13314-022-00449-z>

High density and successful breeding of Turtle doves *Streptopelia turtur* in Moroccan olive groves

Wafae Squalli, Michael Wink, Ismail Mansouri, Fatima Fadil and Mohamed Dakki

PeerJ DOI: <https://doi.org/10.7717/peerj.14375>

In Vitro Study of the Phytochemical Composition and Antioxidant, Immunostimulant, and Hemolytic Activities of *Nigella sativa* (Ranunculaceae) and *Lepidium sativum* Seeds

Hafssa Ouattar , Otmane Zouirech , Mohammed Kara , Amine Assouguem , Saeedah Musaed Almutairi , Fahad M. Al-Hemaid , Rabab Ahmed Rasheed , Riaz Ullah , Arshad Mehmood Abbasi , Mahjoub Aouane and Karima Mikou

Molecules. DOI: <https://doi.org/10.3390/molecules27185946>

Isolation and characterization of phosphate solubilizing bacteria naturally colonizing legumes rhizosphere in Morocco

Walid Janati , Karima Mikou, Lahsen El Ghadraoui and Faouzi Errachidi

Frontiers. DOI: <https://doi.org/10.3389/fmicb.2022.958300>

Micropropagation and potential of bioactive compounds of saffron (*Crocus sativus*L.) for nutrition and health L.) for nutrition and health L.) for nutrition and health

Chaimae SLIMANI, Younes EL GOUMI , Chaimae RAIS , Lahsen EL GHADRAOUI , Meryem BENJELLOUN , Abderrahim LAZRAQ

Notulae Scientia Biologicae. DOI: [10.15835/nsb14311278](https://doi.org/10.15835/nsb14311278)

New Data on Breeding Strategies and Reproductive Success of the Globally Threatened Turtle Dove Co-Occurring with the “Competitive” Collared Dove and the “Predatory” Maghreb Magpie in Olive Orchards

Wafae Squalli, Ismail Mansouri, Driss Ousaaïd , Mohammed Hmidani, Hamid Achiban , Fatima Fadil, and Mohamed Dakki

International Journal of Zoology. DOI: <https://doi.org/10.1155/2022/2864178>

Optimization of Callogenesis/Caulogenesis Induction Protocol in Saffron Plant (*Crocus sativus* L.) Using Response Surface Methodology

Chaimae Slimani , Younes El Goumi , Chaimae Rais , Lahsen El Ghadraoui , Meryem Benjelloun , Abderrahim Lazraq

Biointerface Research in Applied Chemistry DOI: [10.33263/BRIAC124.47314746](https://doi.org/10.33263/BRIAC124.47314746)

Optimization of Polyphenol Extraction from Three Parts of *Chamaerops humilis* L. (Leaves, Fruit and Pulp) Through Response Surface Methodology

Houria Nekhla, Smail Aazza, Khadija Tarmoun, Laila El Hanafi, Laila Lahrizi, Wafae Squalli, Ahmed Harrach & Lahsen El Ghadraoui

Chimie Afrique DOI: <https://doi.org/10.1007/s42250-022-00551-w>

Physicochemical Properties and Functional Characteristics of Ecologically Extracted Shrimp Chitosans with Different Organic Acids during Demineralization Step

Abir El-araby , Lahsen El Ghadraoui and Faouzi Errachidi

Molecules DOI: <https://doi.org/10.3390/molecules27238285>

Potential for Biological Control of *Pythium schmitthenneri* Root Rot Disease of Olive Trees (*Olea europaea* L.) by Antagonistic Bacteria

Ikram Legrifi , Jamila Al Figuigui , Hajar El Hamss , Abderrahim Lazraq , Zineb Belabess , Abdessalem Tahiri , Said Amiri , Essaid Ait Barka and Rachid Lahlali

Microorganisms. DOI: <https://doi.org/10.3390/microorganisms10081635>

Preliminary Study of the Intestinal Microbial Diversity of Three Acridoidae: *Oedipoda fuscocincta*, *Dociostaurus moroccanus*, and *Calliptamus barbarus* (Acrididae: Orthoptera), in the Moroccan Middle Atlas.

Zahri Aziz , Radouane Nabil , Ezrari Said , Nekhla Houria , Tarmoun Khadija , Lazraq Abderrahim , El Ghadraoui Lahsen

Indian Journal of Microbiology. DOI: <https://doi.org/10.1007/s12088-021-00984-w>

Role of plant extracts and essential oil in fighting against postharvest fruit pathogens and extending fruit shelf life

Assia El Khetabi, Rachid Lahlali , Said Ezrari, Nabil Radouane , Lahsen El Ghadraoui

TRENDS IN FOOD SCIENCE & TECHNOLOGY. DOI: <https://doi.org/10.1016/j.tifs.2022.01.009>

Simultaneous Optimization of Phenolic Compounds and Antioxidant Abilities of Moroccan *Pimpinella anisum* Extracts Using Mixture Design Methodology

Meriem Soussi, Mouhcine Fadil , Wissal Al Yaagoubi, Meryem Benjelloun and Lahsen El Ghadraoui

Processes. DOI: <https://doi.org/10.3390/pr10122580>

Survey on technical management of strawberries in Morocco and evaluation of their post-harvest microbial load

Abir El-araby, Amal Azzouzi, Iman Msegued Ayam, Khaoula Filali Samouh and Faouzi Errachidi

Frontiers. DOI: <https://doi.org/10.3389/fmicb.2022.1115340>

The ecological importance of *Chamaerops humilis* steppe for animal biodiversity in Northwest Africa (Morocco)

Houria Nekhlaa , Ismail Mansouri, Aziz Zahria , Wafae Squallia , Hamid Achibanb, Mohammed Hmidani, Abdelbari El Agya, Ahmed Harrach , Lahsen El Ghadraoui

Zoology and Ecology. DOI: <https://doi.org/10.35513/21658005.2022.1.9>

Usage of biological chitosan against the contamination of post-harvest treatment of strawberries by *Aspergillus niger*

Abir El-araby , Lahsen El Ghadraoui and Faouzi Errachidi

Frontiers. DOI: <https://doi.org/10.3389/fsufs.2022.881434>

Wildlife-vehicle collisions in Moroccan Atlantic Sahara: Impact on resident species and Afro-Palaearctic birds for conservation purposes

Ismail Mansouri, Mohamed Dakki, Wafae Squalli, Hamid Achiban, Mohamed Mounir, Lahsen El Ghadraoui

Journal Africain d'Ecologie. DOI: <https://doi.org/10.1111/aje.13007>

2021

Avifauna Diversity in the Gate between Humid Atlas and Saharan Desert: Midelt Province, Morocco

Ismail Mansouri, Wafae Squalli, Abdelbari El Agy, Badr Ben Hichou, Abderahim El Hassani, Lahcen El Ghadraoui, Mohamed Dakki

International Journal of Zoology. DOI: <https://doi.org/10.1155/2021/5557921>

Breeding Biology, Chronology, and Reproductive Success of the European Serin (*Serinus serinus*) at Moulouya High Plain (Morocco)

Ismail Mansouri, Wafae Squalli, Mohamed Dakki, Amine Assouguem, Abdelbari El Agy, Abderahim El Hassani, Chaimae Belarbi, Youssef Dbiba, Hassnae Kouali, Lahsen El Ghadraoui

International Journal of Zoology DOI: <https://doi.org/10.1155/2021/8737951>

Breeding Performances of the European Blackbird (*Turdus merula*) in Morocco: Habitat Selection, Breeding Phenology, and Breeding Success

Abderahim El Hassani, Ismail Mansouri, Wafae Squalli, Abdelbari El Agy, Amine Assouguem, Kenza Bouayad, Abdellah Markou, Mohamed Mounir, Hamid Achiban, Mohamed Dakki, Lahsen El Ghadraoui

International Journal of Zoology. DOI: <https://doi.org/10.1155/2021/7742894>

Comparative sensitivity study of primary cells, vero, OA3.Ts and ESH-L cell lines to lumpy skin disease, sheeppox, and goatpox viruses detection and growth

Halima Rhazi , Najete Safini , Karima Mikou , Meryeme Alhyane , Matthias Lenk , Khalid Omari Tadlaoui , Mehdi Elharrak

Journal of Virological Methods DOI: <https://doi.org/10.1016/j.jviromet.2021.114164>

Comparison of Nesting Features and Breeding Success of Turtle Dove *Streptopelia turtur* between Orchards and Riparian Habitats

Ismail Mansouri, Wafae Squalli, Abdelbari El Agy, Abderahim El-Hassani, Lahcen El Ghadraoui, Mohamed Dakki

International Journal of Zoology. DOI: <https://doi.org/10.1155/2021/5566398>

Evaluation of the Antibacterial Activity of 5-(thiophen-2-yl)-1H-tetrazole and Its Oxime Derivative against ATCC Reference Strains and Strains Isolated from the Hospital Environment of a Provincial Public Hospital in the City of Fez

Sara Hajib, Mohamed Hssaini, Anouar Alami, Hicham Bekkari, Najoua Benchemsi, Salaheddine Boukhssas, Younas Aouine Hassane

European Journal of Advanced Chemistry Research DOI: [10.24018/ejchem.2021.2.2.54](https://doi.org/10.24018/ejchem.2021.2.2.54)

Main Therapeutic Uses of Some Moroccan Hot Springs' Waters

Kawtar Fikri-Benbrahim, Asmae Houti, Abdelhakim El Ouali Lalami, Rachid Flouchi, Naoufal El Hachlafi, Mariam Houti, Saad Rachiq

Hindawi Evidence Based Complementary and Alternative Medicine DOI: <https://doi.org/10.1155/2021/5599269>

Molecular and clinical assessment of maturity-onset diabetes of the young revealed low mutational rate in Moroccan families

Said Trhanint, Laila Bouguenouch, Sana Abourazzak, Hanan El Ouahabi, Hanane Latrech, Salma Benyakhlef, Bahia Bennani, Hssane El Bouchikhi, Fatima Zahra Moufid, Karim Ouldin Lahsen El Ghadraoui, Nadia Maazouzi

International Journal of Pediatrics and Adolescent Medicine

DOI: <https://doi.org/10.1016/j.ijpam.2021.03.006>

New Data on Migration Time, Breeding Phenology, and Breeding Success of European Turtle Doves in Their Highest Breeding Habitats in North Africa

Ismail Mansouri, Driss Ousaaid, Wafae Squalli, Abdelbari El Agy, Abderahim EL-Hassani, Mohamed Mounir, Lahsen Elghadraoui, and Mohamed Dakki

International Journal of Zoology. DOI: <https://doi.org/10.1155/2021/6629285>

***Ceratitis capitata* Wiedemann (Diptera: Tephritidae) in Moroccan citrus orchards: chemical and sustainable control methods and priorities for future research**

Amine Assouguem, Mohammed Kara, Safaâ Benmessaoud, Hamza Mechchate, Zineb El Jabboury, Abdellah Farah, Abderrahim Lazraq

Tropical Journal of Natural Product Research. DOI: <https://doi.org/10.26538/tjnpr/v5i10.2>

Comparative Study of the Antioxidant and Enzyme Inhibitory Activities of Two Types of Moroccan Euphorbia Entire Honey and Their Phenolic Extracts.

Boutoub, Oumaima, Soukaina El-Guendouz, Ana Manhita, Cristina Barrocas Dias, Leticia M. Estevinho, Vanessa B. Paula, Jorge Carlier, Maria Clara Costa, Brígida Rodrigues, Sara Raposo

Foods. <https://doi.org/10.3390/foods10081909>

Effect of temperature on the expression of resistance to Hessian fly (Diptera: Cecidomyiidae) in durum wheat cultivars

Hajar Brahmi, Abderrahim Lazraq, Rachid Boulamtat, Karim El Fakhouri, Filippo Maria Bassi & Mustapha El Bouhssini

Phytoparasitica. DOI: <https://doi.org/10.1007/s12600-020-00877-6>

Environmental Effects of Temperature and Water Potential on Mycelial Growth of Neocosmospora solani and Fusarium spp. causing Dry Root Rot of Citrus

S. Ezrari, N. Radouane, A. Tahiri, S. Amiri, A. Lazraq & R. Lahlali

Current Microbiology. DOI: <https://doi.org/10.1007/s00284-021-02570-1>

Ethnopharmacological Survey of Plants used in Folk Medicine by the Amazigh Tribe of Ait Youssi Amkla, Morocco

Khadija Tarmoun, Houria Nekhla, Aziz Zahri, Najoua Benchemsi, EL Houssaine Harki

Tropical Journal of Natural Product Research. DOI: <https://doi.org/10.26538/tjnpr/v5i5.18>

Evaluation of the Effectiveness of Spirotetramat on the Diaspine Scale Parlatoria pergandii in Citrus Orchards

Amine Assouguem Mohammed Kara ,Ismail Mansour ,Mashail N. AlZain 4,Hamza Mechchate ,Raffaele Wafae Squalli ,Abdellah Farah and Abderrahim Lazraq

Agronomy DOI: <https://doi.org/10.3390/agronomy11081562>

Evaluation of the Antibacterial Activity of 5-(thiophen-2-yl)-1H-tetrazole and Its Oxime Derivative against ATCC Reference Strains and Strains Isolated from the Hospital Environment of a Provincial Public Hospital in the City of Fez

Sara Hajib Mohamed Hssaini Anouar Alami Hicham Bekkari Najoua Benchemsi Salaheddine Boukhssas Younas Aouine Hassane.

European Journal of Advanced Chemistry Research (EJ-CHEM).

DOI: [10.24018/ejchem.2021.2.2.54](https://doi.org/10.24018/ejchem.2021.2.2.54)

Foraging efforts and behaviour of the European Turtle doves (Streptopelia turtur) during the breeding season

Ismail Mansouri, Abderahim El Hassania , Abdelbari El Agya, Wafae Squalli , Mohamed Mounir, Amine Assouguema| Karima Es Salai,| Lahcen El Ghadraoui, Mohamed Dakki

Journal of Animal Behaviour and Biometeorology. DOI: <https://doi.org/10.31893/jabb.21028>

Macro-habitat, micro-habitat segregation and breeding success of the ‘vulnerable’ native European turtle dove and the ‘invasive’ Eurasian collared dove from a North African agricultural area

Wafae Squalli, Ismail Mansouri, Abderrahim El Hassani, Abdelbari El Agy, Amine Assouguem, Chaimae Slimani, Fatima Fadil & Mohamed Dakki

Biologia – Section Zoology. DOI: <https://doi.org/10.1007/s11756-021-00870-2>

Nest building, dimension, and selection of aromatic and medicinal twigs to repel ectoparasites in the European turtle dove

Ismail Mansouri, Driss Ousaaïd, Wafae Squalli, Ikram Douini, Mohamed Mounir, Abdelbari El Agy, Amine Assouguema Hamid Achiband Lahsen El Ghadraouia Mohamed Dakki

Journal of Animal Behaviour and Biometeorology. DOI: <http://dx.doi.org/10.31893/jabb.21033>

New Data on Migration Time, Breeding Phenology, and Breeding Success of European Turtle Doves in Their Highest Breeding Habitats in North Africa.

Ismail Mansouri, Driss Ousaaïd ,Wafae Squalli , Abdelbari El Agy, Abderahim EL-Hassani, Mohamed Mounir ,L ahsen Elghadraoui and Mohamed Dakki.

International Journal of Zoology. <https://doi.org/10.1155/2021/6629285>

Potential Role of Rhizobacteria Isolated from Citrus Rhizosphere for Biological Control of Citrus Dry Root Rot

Said Ezrari ,Oumayma Mhidra ,Nabil Radouane, Abdessalem Tahiri ,Giancarlo Polizzi , ,Abderrahim Lazraq and Rachid Lahlali

Plants. DOI: <https://doi.org/10.3390/plants10050872>

Preliminary Study of the Intestinal Microbial Diversity of Three Acridoidae: edipodafuscocincta, Dociostaurusmoroccanus, and Calliptamus.

Zahri Aziz , Radouane Nabil , Ezrari Said , Nekhla Houria , Tarmoun Khadija , Lazraq Abderrahim , El Ghadraoui Lahsen.

Indian Journal Microbiology. DOI:10.1007/s12088-021-00984-w

Production of small ruminant morbillivirus, rift valley fever virus and lumpy skin disease virus in CelCradle™-500A bioreactors

Halima Rhazi, Najete Safini, Karima Mikou, Meryeme Alhyane, Khalid Omari Tadlaoui, Xiangliang Lin, Nandini P. Venkatesan & Mehdi Elharrak

BMC Veterinary Research. DOI: <https://doi.org/10.1186/s12917-021-02801-4>

Segregation of breeding habitats and feeding resources among five north African game species in Midelt province, Morocco

Ismail Mansouri , Wafae Squalli, Lahsen EL GHADRAOUI

Biologia – Section Zoology. DOI: <https://doi.org/10.1007/s11756-021-00906-7>

The Moroccan Pomegranate: An Underrated Source of Tannins Extracts and Natural Antimicrobials from Juice Processing Byproducts

Sara El moujahed, Fouad Ouazzani Chahdi, Youssef Kandri Rodi, Lahsen El ghadraoui, Lamiaa Lemjallad & Faouzi Errachidi

Waste and Biomass Valorization. DOI: <https://doi.org/10.1007/s12649-021-01413-1>

-