

MAACH MOSTAPHA

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Nationality: Moroccan

Marital Status: single



STUDIES AND DEGREES

2021: Thesis in Life Science and Environment: Plant Physiology, and Molecular Biology at the Multidisciplinary Faculty of Nador/ Mohammed I University-Oujda

2014: Specialized Master: "Engineering in Ecology and Biodiversity Management" at the Faculty of Science Tetouan / Abdelmalek Essaâdi University

2011: Bachelor's degree in Marine Science and Marine Biotechnology at the Multidisciplinary Faculty of Nador/ Mohammed I University-Oujda

2010: Bachelor of Fundamental Studies "Science of Life" at the Multidisciplinary Faculty of Nador/ Mohammed I University-Oujda

2009: D.E.U.G in Life Sciences at the Multidisciplinary Faculty of Nador/ Mohammed I University-Oujda

PROFESSIONAL EXPERIENCES

Contractual doctoral student at the university mohammed 1st, multidisciplinary faculty of Nador

- **2022/2023:** Course in Plant Biology at the National School of Applied Sciences of AL-HOCIMA;
- **2022/2023:** Course in Animal Biology at the National School of Applied Sciences of AL-HOCIMA;
- **2022/2023:** Practical work in Structural Biochemistry (S3) at the Multidisciplinary Faculty of Nador (FPN);
- **2022/2023:** Practical work in growth and development of plants (S5) at the multidisciplinary faculty of Nador (FPN);
- **2021/2022:** Practical work in plant growth and development (S5) at the multidisciplinary faculty of Nador (FPN);
- **2021/2022:** Practical work in floristics (S4) at the multidisciplinary faculty of Nador (FPN)
- **2020/2021 :** Tutorials in structural biochemistry (S3) at the Faculté pluridisciplinaire of Nador (FPN);
- **2020/2021 :** Practical work in Plant growth and development (S5) at Multidisciplinary Faculty of Nador (FPN);
- **2019/2020:** Practical Work in Ecosystem Pollution (S6) at Multidisciplinary Faculty of Nador (FPN);
- **2019/2020:** Tutorials classes in enzymology and metabolic biochemistry at Multidisciplinary Faculty of Nador (FPN);
- **2019/2020:** Practical work in floristry (S4) at Multidisciplinary Faculty of Nador (FPN);

- **2019/2020**: Practical work in floristry (S4) in the biology of plant organisms (S4) at Multidisciplinary Faculty of Nador (FPN)
- **2018/2019**: Practical work in Plant growth and development (S5) at Multidisciplinary Faculty of Nador (FPN);
- **2018/2019**: Practical work in Immunology (S5) at Multidisciplinary Faculty of Nador (FPN);
- **2018/2019**: Practical work in Genetic (S5) at Multidisciplinary Faculty of Nador (FPN);
- **2018/2019**: Practical work in Molecular biology (S5) at Multidisciplinary Faculty of Nador (FPN);
- **2018/2019**: Practical work in floristry (S4) at Multidisciplinary Faculty of Nador (FPN);
- **2018/2019**: Practical work in enzymology and metabolic biochemistry (S4) at Multidisciplinary Faculty of Nador (FPN);
- **2018/2019**: Practical Work in Ecosystem Pollution (S6) at Multidisciplinary Faculty of Nador (FPN);
- **2018/2019**: Practical work in environmental microbiology (S6) at Multidisciplinary Faculty of Nador (FPN);
- **2017/2018**: Practical Work in Ecosystem Pollution (S6) at Multidisciplinary Faculty of Nador (FPN);
- **2017/2018**: Practical work in floristry (S4) at Multidisciplinary Faculty of Nador (FPN);
- **2016/2017**: Practical work in general ecology (II) (S5) floristry S3 at Multidisciplinary Faculty of Nador (FPN);
- **2016/2017**: Practical work in general ecology (I) (S3) at Multidisciplinary Faculty of Nador (FPN);
- **2015/2016**: Practical work in general ecology (S3) at Multidisciplinary Faculty of Nador (FPN);
- **2015/2016**: Practical work in cell biology (S1) at Multidisciplinary Faculty of Nador (FPN);

Trainings and Supervision of students (es) at FPN

- **2019/2020**: Supervision of trainees in life sciences (PFE) (3 months) at Multidisciplinary Faculty of Nador (FPN);
- **2018/2019**: Supervision of trainees in life sciences (PFE) (3 months) at Multidisciplinary Faculty of Nador (FPN);
- **2017/2018**: Supervision of trainees in life sciences (PFE) (3 months) at Multidisciplinary Faculty of Nador (FPN);
- **2016/2017**: Supervision of trainees in life sciences (PFE) (3 months) at Multidisciplinary Faculty of Nador (FPN);
- **2016/2017**: Supervision of trainees in Chemistry (PFE) (3 months) at Multidisciplinary Faculty of Nador (FPN);

Organization of field trips

- ❖ **2022/2023:** Organisation of a field trip to the Gourougou Mountain and Forest with the SVI (S5) students of the multidisciplinary faculty of Nador (FPN), ecology module.
 - ❖ **2022/2023:** Organisation of a field trip with the students of SVI-S5 of the multidisciplinary faculty of Nador (FPN), module growth and development of plants to an agricultural enterprise.
 - ❖ **2020/2021:** Organisation of a field trip with SVI students to the multidisciplinary faculty of Nador (FPN), plant growth and development module (S5).

 - ❖ **2020/2021:** Organisation of a field trip with SVI students (S5) to the multidisciplinary faculty of Nador (FPN), ecology module.

 - ❖ **2020/2021:** Organisation of a field trip to the Gourougou Mountain and Forest with the Master students of the multidisciplinary faculty of Nador (FPN).

 - ❖ **2019/2020:** Organisation of a field trip with SVI students at the Faculté pluridisciplinaire de Nador (FPN), general ecology module (I) S3.

 - ❖ **2019/2020:** Organisation of a field trip with SVI students at the Faculté Pluridisciplinaire de Nador (FPN), module pollution of ecosystems (S6)

 - ❖ **2018/2019:** Organisation of a field trip with SVI students to the multidisciplinary faculty of Nador (FPN), module general ecology (I) S3.

 - ❖ **2018/2019:** Organisation of a field trip with SVI students to the multidisciplinary faculty of Nador (FPN), module pollution of ecosystems (S6)

 - ❖ **2016/2017:** Organisation of a field trip with SVI students to the multidisciplinary faculty of Nador (FPN), module general ecology (I) S3.

 - ❖ **2016/2017:** Organisation of a field trip with SVI students at the Faculté pluridisciplinaire de Nador (FPN), module pollution of ecosystems (S6)
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Internships

Apl-Jun 2019: Society Green West SARL

- During this internship, I realized an analysis of the agronomic and physiological effect of some products on the quantitative and qualitative improvement of tomato production (Var Nador F1)

Feb-Sep 2016: The National Register Census Supervisor "Agricultural" 2016

- The use and monitoring of the action of the company SIS-consultant
- Team cooperation and organization according to the production, assignment of the person in the zone to realize reorganization of the employees, maintenance intervention, and preparation of material.
- Use and handle with "Arcgis" software

Sep-Jan 2015: Internship at the agency for the development of the site of the lagoon of Marchica

- Contribution to the ecological study of Ornithological Bird Park
- Development of allophite plants adaptable to the Park

Apr-Jun 2014: Internship at the OLMAN-RL laboratory at the FPN

Nador, Morocco

- Highlighting the state of the lagoon's environmental quality
- Enhancement of the bio-indicator for the monitoring of the lagoon

Sep 2013 : Training 'Management and Exploitation of STEP'

Rabat, Morocco

- Visit of different treatment plant
- Sanitation hygiene and safety
- Management and monitoring of self-monitoring devices
- Sludge development of the station on agricultural land

March-April 2011: Internship at the National Fisheries Office "ONP"

Nador, Morocco

Apr 2010:

Multidisciplinary Fac

- Facilitation the traceability of fishery products.
- Following the method of control and management of fishery products.
- Following the quality preservation mode of the halieutic products.
- Highlighting different pollutants

Participation in trainings and symposia

scientific publications

- 1) Maach, M., Rodríguez-Rosales, M.P., Venema, K. et al. Improved yield, fruit quality, and salt resistance in tomato co-overexpressing LeNHX2 and SISOS2 genes. *Physiol Mol Biol Plants* 27, 703–712 (2021). <https://doi.org/10.1007/s12298-021-00974-8>
- 2) Maach, M., Baghour, M., Akodad, M. et al. Overexpression of LeNHX4 improved yield, fruit quality and salt tolerance in tomato plants (*Solanum lycopersicum* L.). *Mol Biol Rep* 47, 4145–4153 (2020). <https://doi.org/10.1007/s11033-020-05499-z>
- 3) Maach, M., Boudouasar, K., Akodad, M., Skalli, A., Moumen, A., and Baghour, M. (2020). Application of biostimulants improves yield and fruit quality in tomato. *International Journal of Vegetable Science*, 1-6. <https://doi.org/10.1080/19315260.2020.1780536>
- 4) Mostapha Maach, Mustapha Akodad, Abdelmajid Moumen, Ali Skalli, Hanane Ait Hmeid, Hicham Gueddari, Mourad Baghour. Bio-regulators: Silicon, Salicylic Acid, Ascorbic Acid Improve Salt Tolerance in Cucumber (*Cucumis sativus* L.). *Reviews*. Vol. 1, No. 1, 2021, pp. 1-7. doi: 10.11648/j.reviews.20210101.11
- 5) Baghour, M., Akodad, M., Dariouche, A., Maach, M., Haddaji, H. E., Moumen, A., ... & Rodríguez-Rosales, M. P. (2022). Gibberellic Acid and Indole Acetic Acid Improves Salt Tolerance in Transgenic Tomato Plants Overexpressing LeNHX4 Antiporter. *Gesunde Pflanzen*, 1-7.
- 6) Ait Hmeid, H.; Akodad, M.; Baghour, M.; Moumen, A.; Skalli, A.; Azizi, G.; Gueddari, H.; Maach, M.; Aalaoul, M.; Anjar, A.; et al. Valorization of Moroccan Bentonite Deposits: "Purification and Treatment of Margin by the Adsorption Process". *Molecules* 2021, 26, 5528. <https://doi.org/10.3390/molecules 26185528>
- 7) Hmeid, H. A., Akodad, M., Baghour, M., Moumen, A., Skalli, A., Gueddari, H., ... & Azizi, G. (2021). Simultaneous adsorption behaviour of heavy metals from Oil Mill Wastewater onto natural clay. In *E3S Web of Conferences* (Vol. 314, p. 08002). EDP Sciences.
- 8) Gueddari, H., Akodad, M., Baghour, M., Moumen, A., Skalli, A., Chahban, M., Azizi, G., Hmeid, H. A., Maach, M., Riouchi, R., & Yousfi, Y. E. (2022).

Assessment of potential contamination of groundwater in abandoned mining region of Ben Taieb, Northeastern Morocco using statistical studies. *International Journal of Health Sciences*, 6(S3), 4121² 4133.

- 9) Gueddari, H., Akodad, M., Baghour, M., Moumen, A., Skalli, A., Yousfi, Y. E., ... & Zahid, M. (2022). Support Vector Machine: A Case Study in the Kert Aquifer for Predicting the Water Quality Index in Mediterranean Zone, Drouich Province, Oriental Region, Morocco. *Nature Environment & Pollution Technology*, 21.
- 10) Mostapha, Maach., Mustapha, Akodad., Abdelmajid, Moumen., Ali, Skalli., Kees, Venema., María Pilar Rodriguez-Rosales., Mourad, Baghour. 2022. Coexpression of LeNHX2 and SLSOS2 antiporters improved germination and growth of tomato under saline conditions. *ispec*, 10th International Scientific Research Conference July 18-19, 2022, Sivas Science and Technology University. (Accepted).



Orales communications

1. Mostapha MAACH¹, Mustapha AKODAD¹, Abdelmajid MOUMEN¹, Ali SKALLI¹, Maria PILAR Kees VENEMA², RODRIGUEZ ROSALES², Mourad BAGHOUR¹, **'COEXPRESSION OF LENHX2 AND SLSOS2 ANTIPORTERS IMPROVED GERMINATION AND GROWTH OF TOMATO UNDER SALINE CONDITIONS'**, 10 th INTERNATIONAL CONFERENCE ON AGRICULTURE, ANIMAL SCIENCES AND RURAL DEVELOPMENT. July 18-19, 2022 at Sivas University-Turkey.
2. **Mostapha MAACH¹**, Khalid Boudouassar², Mustapha Akodad¹, Ali Skalli¹, Hanane Ait ahmed¹, Hicham Gueddari¹ Mourad Baghour¹. **Application of Biostimulants improves yield and Fruit Quality In Tomato (*Solanum lycopersicum* L.)**. 1st International Conference (Online) Recent Approaches in Plant Sciences, (RAPS-2022) March 30-31, 2022.
3. **Mostapha MAACH¹**, Mustapha AKODAD¹, Maria Pilar RODRIGUEZ ROSALES², Kees VENEMA², Abdelmajid MOUMEN¹, Ali SKALLI¹, Mourad BAGHOUR¹, **The K⁺,Na⁺/H⁺, Le NHX4 a novel intracellular antiporter is important for salt tolerance and fruit production and quality of tomato plants**. Third International Congress Biotechnology at the service of society, BIOTECH2020, 27 to 29 February 2020 In Fez-Morocco.
4. **Mostapha MAACH¹**, Maria PILAR RODRIGUEZ ROSALES², Kees VENEMA², Mustapha AKODAD¹, Abdelmajid MOUMEN¹, Ali SKALLI¹, Hamza ELHADDJ¹, Hanane AIT AHMED¹, Mourad BAGHOUR¹, **A Novel Intracellular Antiporter, LeNHX4, is Important for Na⁺ and K⁺ Homeostasis in steam and fruit of Tomato Plants**. AQUA-CONGRÈS, 1st INTERNATIONAL SCIENTIFIC CONGRESS: WOMEN, CULTURE AND THE MARITIME ENVIRONMENT, 6 November 2019, at the Women's Foundation for Africa, within the framework of the INTERMARES project.

5. **MOSTAPHA MAACH¹, MARIA PILAR RODRIGUEZ ROSALES², KEES VENEMA², MUSTAPHA AKODAD¹, ABDELMAJID MOUMEN¹, ALI SKALLI¹, HAMZA ELHADDAJI¹, HANANE AIT AHMED¹, MOURAD BAGHOUR¹, OVEREXPRESSION OF THE ENDOSOMAL K⁺, Na⁺/H⁺ LENHX2 AND THE PROTEIN KINASE SISOS2 INCREASES SALT TOLERANCE TOMATO PLANTS UNDER SALT STRESS**, Scientific Day on 17 July 2019 at the Women's Foundation for Africa, as part of the INTERMARES project.
6. **MOSTAPHA MAACH¹, MARIA PILAR RODRIGUEZ ROSALES², KEES VENEMA², MUSTAPHA AKODAD¹, ABDELMAJID MOUMEN¹, ALI SKALLI¹, HAMZA ELHADDAJI¹, HANANE AIT AHMED¹, AZIZI GHIZLANE¹, HICHAM GUEDDARI¹, MOURAD BAGHOUR¹ : COEXPRESSION OF THE ENDOSOMAL LENHX2 AND THE PROTEIN KINASE SISOS2 IMPROVE GROWTH AND PHYSIOLOGICAL PARAMETRERS IN TOMATO PLANTS UNDER SALT STRESS** : The 2nd edition of the International Congress on: "Wetlands - Watersheds and Local Development". From 25 to 27 April 2019 at the Multidisciplinary Faculty of Nador Morocco.
7. **Mostapha Maach¹, Kees Venema², Maria Pilar Rodríguez-Rosales², Mostapha Akodad¹, Abdelmajid Moumen¹, Ali Skalli¹, Mourad Baghour¹: Overexpression of *LeNHX4* improves growth and salt tolerance of tomato plants**: Doctoral Training Day(CEDOC) of the Mohamed 1st University, PhD course in Life Sciences and the Environment), Saturday 09 January 2019.
8. **HICHAM GUEDDARI AKODAD MUSTAPHA, BAGHOUR MOURAD, EL GETTAFI MOHAMMED, MOUMEN ABDELMAJID, SKALLI ALI, AIT HMEID HANNANE, NGADI HAMZA, EL HADDAJI HAMZA, MAACH MOSTAPHA , RAHOU ABDERAHMANE,: ETUDE HYDROGEOCHIMIQUE DE LA NAPPE DU MOYEN KERT, ZONE MEDITERRANEEN ORIENTALE, PROVINCE DE DRIOUCH (REGION ORIENTALE MAROC). 4th edition of the international conference of SAWIS, IT Geospatial Technologies and Water Resources in the Mediterranean. From 11 to 12 Mars 2020 at ENSA OF AL HOCIMA MROCCO.**
9. **AZIZI Ghizlane¹, AKODAD Mustapha¹, LAYACHI Mostafa², GHALIT Mohammad³, GHARIBI Elkhadir³, BAGHOUR Mourad¹, AIT HMEID Hanane¹, BELLAHCEN Said, MAACH Mostapha¹, ELHADDAJI Hamza¹, MOUMEN Abdelmajid¹ : EVALUATION OF HEAVY METAL (Zn, Cd AND Cr) IN CONTENTS IN THE TISSUES OF MUSSELS (*MYTILUS GALLOPROVINCIALIS*) FROM THE CALA IRIS SEA OF AL HOCEIMA (NORTHERN MOROCCO): LEVELS AND SEASONAL TRENDS** : The 2nd edition of the International Congress on: "Wetlands - Watersheds and Local Development". From 25 to 27 April 2019 at the Multidisciplinary Faculty of Nador Morocco;
10. **H. AIT HMEID (1)*, M. AKODAD (1), M. AALAOUL (3), M. BAGHOUR (1), A. MOUMEN (1), A.SKALLI (1), A. ANJJAR, O. RIOUCHI (1) , G. AZIZI, H. NGADI(1), H. JAADAN(1), H.GUEDDARI(1), M. MAACH (1), H. EL HADDAJI (1), H. AJIACH(1), L. DAOUDI (2) : PETROGRAPHIC, PHYSICO-CHEMICAL AND MINERALOGICAL ASPECT OF BENTONITES, PERLITE AND RHYOLITE FROM THE GOUROUGOU VOLCANIC MASSIF (NORTHEAST MOROCCO) :_La 2ème édition du Congrès International sur** : The 2nd edition of the

International Congress on: "Wetlands - Watersheds and Local Development". From 25 to 27 April 2019 at the Multidisciplinary Faculty of Nador Morocco.

11. Gueddari Hicham¹, Akodad Mustapha¹, El Gettafi Mohammed¹, Moumen Abdelmajid¹, Skalli Ali¹, Ait Hmeid Hannane¹, Ngadi Hamza, Jaadan Hayat¹, Riouchi Ouassil¹, **Maach Mostapha¹**, El Haddaji Hamza¹, Rahou Abderahmane, Ghizlane Azizi¹, Baghour Mourad¹ : **ETUDE HYDROGEOCHIMIQUE DE LA NAPPE DU MOYEN KERT. ZONE MEDITERRANEENNE ORIENTALE. PROVINCE DE DRIOUCH, REGION ORIENTALE. Morocco** : The 2nd edition of the International Congress on: "Wetlands - Watersheds and Local Development". From 25 to 27 April 2019 at the Multidisciplinary Faculty of Nador Morocco.

12. H.EL HADDAJI¹, M.AKODAD¹, A.MOUMEN¹, A.SKALLI¹, **M.MAACH¹**, H.AIT HMEID¹, G.AZIZI¹, H.GUEDDARI¹, H.JAADAN, S. BELLAHCEN, M.BAGHOUR¹ : **LA VALORISATION DE CERTAINS SOLS SALINS DE LA REGION NORD ORIENTALE DU MAROC PAR LA CULTURE DU ROMARIN ROSMARINUS OFFICINALIS L.**: The 2nd edition of the International Congress on: "Wetlands - Watersheds and Local Development". From 25 to 27 April 2019 at the Multidisciplinary Faculty of Nador Morocco.



Posters

- 1. Mostapha Maach¹**, Maria Pilar Rodriguez Rosales, Kees Venema², Francisco Javier Gálvez², Maria Elena Sánchez Romero², Mustapha Akodad, Adelmajid Moumen, Mourad Baghour, **Improving Tomato Fruit Production and Quality by co-expressing LeNHX2 and SISOS2** ; The fourth International American Moroccan, Agriculture Science Conference, AMAS Conference IV, May 9-11, 2018 ; Agropolis, Meknes, Morocco. ;
- 2. Mostapha MAACH¹**, Mustapha AKODAD¹, Hamza ELHADAJI¹, Adelmajid MUMEN¹, Kees VENEMA², Andrés BELVER², Maria Pilar RODRIGUES ROSALES², , Mourad BAGHOUR¹, **LeNHX2 et SISOS2 améliore l'homéostasie de K⁺ et Na⁺ de la tolérance au stress salin chez les plantes de tomate '*Solanum lycopersicum*'** ; The first edition of Agriculture, Agribusiness and Biotechnology Events (AABE): Africa Facing the Food Security Challenge March 28-31, 2017 at Al-Hoceima Faculty of Science and Technology;
- 3. Mostapha Maach¹**, Mustapha Akodad¹, Adelmajid Moumen¹, Kees Venema², Maria Pilar Rodriguez Rosales², Andrés Belver², Mourad Baghour¹; **Enhanced salt tolerance in tomato plants (*Solanum lycopersicum*) expressing SISO2 and LeNHX2** The 2nd International Congress, Biotechnology at the service of society'Biotech2017 ", 22-25, November 2017, Faculty of Science and Technology, Fez, Morocco;

4. **MOSTAPHA MAACH**¹, MARIA PILAR RODRIGUEZ ROSALES², KEES VENEMA², MUSTAPHA AKODAD¹, ABDELMAJID MOUMEN¹, HAMZA ELHADDAJI¹, HANANE AIT AHMED¹, AZIZI GHIZLANE¹, Hayat JAADAN, HICHAM GUEDDARI¹, MOURAD BAGHOUR¹ : **THE OVEREXPRESSION OF THE Na⁺, K⁺/H⁺ ANTIporter LENHX4 IMPROVE GROWTH AND PHYSIOLOGICAL PARAMETERS IN TOMATO PLANTS UNDER SALT STRESS**: The 2nd edition of the International Congress on: "Wetlands - Watersheds and Local Development". From 25 to 27 April 2019 at the Multidisciplinary Faculty of Nador Morocco.
5. **AZIZI Ghizlane**¹, LAYACHI Mostafa², AKODAD Mustapha¹, BAGHOUR Mourad¹, SKALLI Ali¹, NGADI Hamza¹, AJIACH Hamza¹, AIT HMEID Hanane¹, ABID Sanae¹, MAACH Mostapha¹, ELHADDAJI Hamza¹MOUMEN Abdelmajid¹: **SUIVI DE L'INDICE GONADIQUE DE LA MOULE 'MYTILUS GALLOPROVINCIALIS' DANS LA BAIE DE CALA IRIS D'AL HOCEIMA** The 2nd edition of the International Congress on: "Wetlands - Watersheds and Local Development". From 25 to 27 April 2019 at the Multidisciplinary Faculty of Nador Morocco..
6. **AZIZI Ghizlane**¹, LAYACHI Mostafa², AKODAD Mustapha¹, BAGHOUR Mourad¹, SKALLI Ali¹, NGADI Hamza¹, AIT HMEID Hanane¹, AJIACH Hamza¹, MOUMEN MAACH Mostapha¹, ELHADDAJI Hamza¹Abdelmajid¹: **CROISSANCE DE LA MOULE MYTILUS GALLOPROVINCIALIS AU NIVEAU DE LA STATION D'ELEVAGE DE CALA IRIS D'AL HOCEIMA (RIF MAROCAIN)** The 2nd edition of the International Congress on: "Wetlands - Watersheds and Local Development". From 25 to 27 April 2019 at the Multidisciplinary Faculty of Nador Morocco..
7. **H. AIT HMEID**^{(1)*}, M. AKODAD⁽¹⁾, M. AALAOUL⁽³⁾, M. BAGHOUR⁽¹⁾, A. MOUMEN⁽¹⁾, A.SKALLI⁽¹⁾, A. ANJJAR, O. RIOUCHI⁽¹⁾, G. AZIZI, H. JAADAN⁽¹⁾, H. NGADI⁽¹⁾, H.GUEDDARI⁽¹⁾, M. MAACH⁽¹⁾, H. EL HADDAJI⁽¹⁾, H. AJIACH⁽¹⁾, L. DAOUDI⁽²⁾: **GEOCHEMISTRY, MINERALOGY AND DIAGENESIS OF BENTONITE DEPOSITS IN NORTHEASTERN MOROCCO (RIFAINE DOMAIN)** : The 2nd edition of the International Congress on: "Wetlands - Watersheds and Local Development". From 25 to 27 April 2019 at the Multidisciplinary Faculty of Nador Morocco.
8. **H. AIT HMEID**^{(1)*}, M. AKODAD⁽¹⁾, M. AALAOUL⁽³⁾, M. BAGHOUR⁽¹⁾, A. MOUMEN⁽¹⁾, A.SKALLI⁽¹⁾, A. ANJJAR, O. RIOUCHI⁽¹⁾, G. AZIZI, H. NGADI⁽¹⁾, H. JAADAN⁽¹⁾, H.GUEDDARI⁽¹⁾, M. MAACH⁽¹⁾, H. EL HADDAJI⁽¹⁾, H. AJIACH⁽¹⁾, L. DAOUDI⁽²⁾: **PHYSICO-CHEMICAL CHARACTERIZATION OF A MOROCCAN BENTONITE (EASTERN RIF)** : The 2nd edition of the International Congress on: "Wetlands - Watersheds and Local Development". From 25 to 27 April 2019 at the Multidisciplinary Faculty of Nador Morocco.
9. **Gueddari Hicham**, Akodad Mustapha¹, El Gettafi Mohammed¹, Moumen Abdelmajid¹, Skalli Ali¹, Ait Hmeid Hannane¹, Ngadi Hamza, Jaadan Hayat¹, Riouchi Ouassil¹, Maach Mostapha¹, El Haddaji Hamza¹, Rahou Abderahmane, Ghizlane Azizi¹, Baghour Mourad¹: **ETUDE DE LA SALINITE DANS LA NAPPE DE MOYEN KERT** : The 2nd edition

of the International Congress on: "Wetlands - Watersheds and Local Development".
From 25 to 27 April 2019 at the Multidisciplinary Faculty of Nador Morocco.

10. **H.EL HADDAJI¹**, M.AKODAD¹, A.MOUMEN¹, A.SKALLI¹, **M.MAACH¹**, O. RIOUCHI¹, H.NGADI¹, H.AIT HMEID¹, G.AZIZI¹, H.JAADAN¹, H.GUEDDARI¹, H.AJIACH¹ M.BAGHOUR¹: **LA VALORISATION DE LA PRODUCTION DE LA CORIANDRE CORIANDRUM SATIVUM L. DANS LA REGION NORD ORIENTALE DU MAROC** : The 2nd edition of the International Congress on: "Wetlands - Watersheds and Local Development". From 25 to 27 April 2019 at the Multidisciplinary Faculty of Nador Morocco.

Assistance and Organization

Reviewer member in the journal Plant:

- <http://www.sciencepg.com/journal/index?journalid=211>
- [Springernature.com: scientific reports.](http://Springernature.com: scientific reports)

Member in the organizing committee:

1. The 2nd edition of the International Congress on: "Wetlands - Watersheds and Local Development". From 25 to 27 April 2019 at the Multidisciplinary Faculty of Nador Morocco.
2. Global Forum 5 (Regional Forum of Tetouan); June 2-5, 2013
3. 2nd edition of the Green Week in the city of Nador
4. *The Rif* in Non-Colonial/Travel Narratives: Language, Culture and Identity, May 3rd and 4th, 2019

Additional training courses

- **The Article Publishing Process: An Elsevier Author Workshop (120 minutes)**
- **The Book Publishing Process: An Elsevier Author Workshop(120 minutes)**
- **The Article Publishing Process: An Elsevier Author Workshop(120 minutes)**
- **Enhanced efficiency in finding literature, organizing references, measuring research performance and identifying quality Journals**
- **Comment affiner les resultats de ma recherche sur ScienceDirect? (60 minutes)**

- Scientific Research - Theses (90 minutes)
- Supporting the development of scientific research - PartI (90 minutes)
- Supporting the development of scientific research - Part II (90 minutes)
- Scientific Research - Moroccan Journals (90 minutes)
- Certificate for attending the "Manuscript Preparation" webinar for 2.5 hours on May 19th, 2020 from 11am to 1:30pm (GMT) via WebEx.
- Certificate for For attending the "Journal Selection" webinar for 2 hours on May 21st, 2020 from 11am to 1pm (GMT) via WebEx.
- Conversational English Skills : an online non-credit course authorized by Tsinghua University and offered through Coursera
- Training in Mendely ;
- Training in document preparation with LaTeX ;
- Training in Poster presentation;
- Training in dynamic oral presentation;

LANGUAGES AND COMPUTING

✓ LANGUAGES :

French: Good
English: Good

Arabic: Good
Spanish: Good

✓ COMPUTERS :

■ SOFTWARE :

•Arcgis •Latex •Map-info •Surfer
• **SPSS** •ENVI •CAO •Ms Office

CENTER OF INTEREST

📖 **Hobbies:** Mathematical puzzles, Internet, Reading, Travel

🏃 **Sports:** Football, Basketball, Running ...