



Sara Mina

Nationality: Lebanese **Date of birth:** 10/04/1987 **Gender:** Female

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Work: Faculty of Health Sciences Beirut Arab University, 11-5020 Beirut (Lebanon)

ABOUT ME

Assistant Professor at Beirut Arab University (Lebanon) with more than 10 years experience in teaching.

WORK EXPERIENCE

Assistant Prof. of Microbiology and Biotechnology (Full Timer)

Beirut Arab University, Faculty of Health Sciences [01/09/2016 – Current]

City: Tripoli | Country: Lebanon

- Teaching
- Research

Lecturer

Beirut Arab University, Faculty of Health Sciences [01/10/2014 – 31/08/2016]

City: Tripoli | Country: Lebanon

Teaching

Lecturer

Lebanese International University (LIU), Faculty of Arts and Sciences [01/10/2014 – 31/08/2016]

City: Tripoli | Country: Lebanon

Teaching

Assistant Prof. of Microbiology and Biotechnology (Part Timer)

Lebanese University (LU), Graduate School of Science and Technologies (EDST) Azm Center [01/10/2014 – 31/08/2016]

City: Tripoli | Country: Lebanon

- Teaching
- Research

EDUCATION AND TRAINING

Training in Bioinformatics

Institute of Biology in Health PBH-IRIS, Hospital University of Angers [01/01/2023 – 01/07/2023]

City: Angers | Country: France

- Coding
- RNA-seq
- Analysis of whole-genome sequence data

- Genome annotation
- Phylogenetic tree construction
- Phylogenetic analysis

Training in CRISPR-Cas9 technology

Institute of Biology in Health PBH-IRIS, Hospital University of Angers [01/06/2022 – 01/07/2023]

City: Angers | Country: France

Fungal genetics

Ph.D. in Microbiology, Immunology and Biotechnology

GEIHP, Institute of Biology in Health PBH-IRIS, University of Angers [01/10/2011 – 24/09/2014]

City: Angers | Country: France | Field(s) of study: Sciences | Thesis: The *Scedosporium* catalase A1, a tool for tools for serodiagnosis of *Scedosporium* infections "La catalase A1 de *Scedosporium boydii* un outil moléculaire pour le sérodiagnostic des scédosporioses"

- Production of recombinant proteins
- Production of monoclonal antibodies
- Walking PCR
- Real-Time PCR
- DNA and RNA extraction
- Gene cloning (Designing plasmid vector, transformation, colony screening)
- Two-dimensional gel electrophoresis
- Enzyme Linked Immunosorbent Assay
- Cell culture
- Affinity chromatography
- Ion exchange chromatography
- Gel exclusion chromatography
- Enzyme Kinetics

Masters in Medical Microbiology

Graduate School of Science and Technologies (EDST), Azm Center Lebanese University [01/10/2010 – 01/09/2011]

City: Tripoli | Country: Lebanon | Thesis: Study of the constituents of the germ tubes of *Scedosporium apiospermum* "Etude des constituants des tubes germinatifs de *Scedosporium apiospermum*"

Masters in Molecular Biology

Lebanese University (LU), Faculty of Sciences III [01/10/2009 – 01/09/2010]

City: Tripoli | Country: Lebanon

B.Sc. in Biology

Lebanese University (LU), Faculty of Sciences III [01/10/2005 – 01/09/2008]

DIGITAL SKILLS

Bioinformatics (Specie identification, Phylogenetic tree construction) / Python Language - Basic knowledge / Microsoft Office / Statistical analysis using SPSS & GraphPad

Bioinformatics

DNA & Protein Sequence Analysis, BLAST, FASTA, Protein Visualizaiton Tools, Ras Mol & Chimera / Phylogenetic Tools: BioEdit, MEGA, Clustal, Kakusan, MrBayes, IQTree, FigTree / NCBI tools (Genbank, BLAST)

LANGUAGE SKILLS

Mother tongue(s): Arabic

Other language(s):

French

LISTENING C2 READING C2 WRITING C2

SPOKEN PRODUCTION C2 SPOKEN INTERACTION C2

English

LISTENING C2 READING C2 WRITING C2

SPOKEN PRODUCTION C2 SPOKEN INTERACTION C2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

CONFERENCES AND SEMINARS

[11/11/2024 – 12/11/2024] London, UK

4th International Conference on Microbiology and Immunology

- Member of the organization committee
- Invited speaker: Oral presentation entitled: "Ecology of Scedosporium Species in Human Impacted Environments and Their Distribution in Soils of Northern Lebanon"

[06/11/2024 – 08/11/2024] Orléans, France

International 'Drought stress signaling' CEFIPRA Workshop

Papon N, Yaakoub H, Bidon B, Kabbara S, Landreau A, Godon C, Héricourt F, Carpin S, Dugé de Bernonville T, Courdavault V, **Mina S**, Hérivaux A. Evolution of Multistep Phosphorelay Signaling Systems in Eukaryotes: A Special Emphasis in the Fungal Kingdom.

[06/06/2024 – 07/06/2024] Angers, France

Sixth Meeting of the ECMM/ISHAM Working group Fungal respiratory infections in Cystic Fibrosis

Oral presentation entitled "Scedosporium species in Lebanon: First environmental survey"

[27/04/2024 – 27/04/2024] American University of Beirut, Lebanon

National Research Day 2024

Poster presentation entitled: "Concomitant Infection of Helicobacter pylori and Intestinal Parasites: Burden, Sociodemographic and Clinical Characteristics in Hospitalized Children and Adolescents in Northern Lebanon"

[20/04/2024 – 20/04/2024] Beirut Arab University, Tripoli campus, Lebanon

Insights into Geriatric Care and Healthy Ageing

Member of the organization committee

[28/10/2022 – 28/10/2022] Beirut Arab University, Beirut campus, Lebanon

Scientific Research Day: Emerging Concepts, and Ethical Challenges

[30/06/2022 – 01/07/2022] Angers, France

Meeting of the ECMM/ISHAM working groups on Scedosporium/Lomentospora infections (SLI) and Fungal respiratory infections in Cystic Fibrosis (Fri-CF)

[20/02/2020 – 20/02/2020] Beirut Arab University, Tripoli campus, Lebanon

Viruses of the Century Symposium

Lecture on Hepatitis B virus to increase awareness on the virus, its routes of infection and transmission, treatment strategies, vaccines, and the misconceptions related to cure and recovery.

[06/04/2019 – 06/04/2019] Beirut Arab University, Tripoli campus, Lebanon

Infectious Diseases: Epidemiology and Clinical Insights

Oral presentation entitled: "Fungal agents from research to application"

[30/06/2018 – 04/07/2018] Amsterdam, The Netherlands

20th Congress of the International Society for Human and Animal Mycology

- Oral presentation delivered by Pr. Jean-Philippe Bouchara entitled: "Enzymatic antioxidant defense systems in *Scedosporium* species"
- Poster presentation (PP3.218) entitled: "Production of *Scedosporium boydii* CatA1 and SodC recombinant proteins: another step towards a standardized test for serodiagnosis of *Scedosporium* infections"

[04/05/2015 – 08/05/2015] Melbourne, Australia

19th Congress of International Society for Human and Animal Mycology

Poster presentations:

- C. Staerck, **S. Mina**, S.M. d'Almeida, A. Marot, S. Giraud, Y. Delneste, J-P Bouchara, J. Tabiasco and M.J.J. Fleury. *Scedosporium apiospermum* defense systems against oxidative stress.
- C. Staerck, **S. Mina**, A. Marot, C. Godon, S. Giraud, J-P Bouchara and M.J.J. Fleury. Catalase A1 and Cu-Zn SOD recombinant proteins from *Scedosporium apiospermum* complex are useful tools for serodiagnosis of *Scedosporium* infection

[23/03/2015 – 25/03/2015] Institut Pasteur, Paris, France

11ème Congrès National de la Société Française de Microbiologie

- Oral presentations:
 - **Mina S.**, Staerck C., Godon C., Marot A., Bouchara J.P. et Fleury M.J.J. Développement d'un test sérodiagnostique pour les infections à *Scedosporium apiospermum*
 - Staerck C., **Mina S.**, d'Almeida S.M., Marot A., Delneste Y., Bouchara J.P., Tabiasco J. et Fleury M.J.J. Etude de la réponse de *Scedosporium apiospermum* au stress oxydatif

[18/02/2015 – 20/02/2015] Paris, France

9th European Cystic Fibrosis Young Investigator Meeting

- Oral presentation: **Mina S.**, Staerck C., Marot A., Godon C., Bouchara J.P. et Fleury M.J.J. *Scedosporium apiospermum* complex Catalase A1 and Cu-Zn SOD recombinant proteins are useful tools for serodiagnosis of *Scedosporium* infection.
- Poster presentation: **S. Mina**, C. Staerck, A. Marot, C. Godon, J-P Bouchara and M.J.J. Fleury. *Scedosporium apiospermum* complex Catalase A1 and Cu-Zn SOD recombinant proteins are useful tools for serodiagnosis of *Scedosporium* infection 9th European CF Young Investigator Meeting, Paris, 18-20 February 2015

[17/02/2015 – 17/02/2015] Paris, France

16ème colloque Français des jeunes chercheurs en mucoviscidose

- Oral presentations:
 - Staerck C., **Mina S.**, d'Almeida S.M., Marot A., Delneste Y., Bouchara J-P, Tabiasco J. et Fleury M.J.J. Etude de l'implication des gènes codant la catalase A1 et la Cu,Zn-superoxyde dismutase de *Scedosporium apiospermum* dans sa défense contre le stress oxydant.
 - **Mina S.**, Staerck C., Godon C., Marot A., Bouchara J-P et Fleury M.J.J. Développement d'un test sérodiagnostique aux infections à *Scedosporium apiospermum* chez les patients atteints de mucoviscidose.

[05/06/2014 – 06/06/2014] Angers, France

3rd meeting of ECMM/ISHAM working group on Fungal respiratory infections in Cystic Fibrosis

Oral presentation: **Mina S.**, Staerck C., Godon C., Marot A., Bouchara J-P. and Fleury M.J.J. Recombinant protein from *Scedosporium* for serodiagnosis

[18/02/2014 – 18/02/2014] Paris, France

15ème colloque des jeunes chercheurs en mucoviscidose

Oral presentation: **Mina S.**, Marot A., Fleury M.J.J., Bouchara J-P. et Robert R. Identification et caractérisation d'une catalase de *Pseudallescheria boydii*, évaluation de son intérêt pour le sérodiagnostic des infections à *Pseudallescheria/Scedosporium* chez les patients atteints de mucoviscidose

[09/12/2013 – 10/12/2013] Nantes, France

Journées Scientifiques de l'Ecole Doctorale Biologie-Santé Nantes Angers

Poster presentation: **Mina S.**, Marot A., Fleury M.J.J., Robert R. et Bouchara J-P. Towards a standardized test for serodiagnosis of scedosporiosis.

[16/05/2013 – 18/05/2013] Innsbruck, Austria

4th International Workshop on Pseudallescheria/Scedosporium Infections

Oral presentation: **Mina S.**, Marot A., Fleury M.J.J., Cimon B, Bouchara J-P. et Robert R. Towards a standardized test for serodiagnosis of scedosporiosis

[26/02/2013 – 26/02/2013] Paris, France

14ème colloque des jeunes chercheurs en mucoviscidose

Poster presentation: **Mina S.**, Marot A., Fleury M.J.J., Bouchara J-P. et Robert R. Marqueurs diagnostics des scedosporioses : Catalase cytosolique et/ou excrétée.

[06/12/2012 – 07/12/2012] La Pommeraye, France

Journées Scientifiques de l'Ecole Doctorale Biologie-Santé Nantes Angers

Poster presentation: **Mina S.**, Marot A., Fleury M.J.J., Robert R. et Bouchara J-P. Purification et Caractérisation d'une catalase cytosolique de *Scedosporium apiospermum*.

PUBLICATIONS

[2025]

First environmental survey of Scedosporium species in Lebanon

Mina, S., Yaakoub, H., Razafimandimby, B., et al. (2025) First environmental survey of *Scedosporium* species in Lebanon. *Front. Cell. Infect. Microbiol.* 15:1547800.

[2025]

Assessment of Helicobacter pylori infection in Lebanon: endoscopic and histopathological findings. Journal of Infection and Public Health

Joumaa, H., Azakir, B., Itani, R., Nasreddine, W., Mina, S. (2025). Assessment of *Helicobacter pylori* infection in Lebanon: endoscopic and histopathological findings. *J. Infect. Public Health.*, 18(3), 102656.

[2024]

Concomitant Infection of Helicobacter pylori and Intestinal Parasites: Burden, Sociodemographic and Clinical Characteristics in Hospitalized Children and Adolescents in Northern Lebanon

Mina, S., Daher, S., Mina, N., Khoder G. (2024) Concomitant Infection of *Helicobacter pylori* and Intestinal Parasites: Burden, Sociodemographic and Clinical Characteristics in Hospitalized Children and Adolescents in Northern

[2024]

Helicobacter pylori Infection and Its Association with Mediterranean Diet Adherence in Lebanese Children and Adolescents: A Cross-sectional Study

Mina S, Khoder G, Mitri R. (2024). Helicobacter pylori Infection and Its Association with Mediterranean Diet Adherence in Lebanese Children and Adolescents: A Cross-sectional Study. Arch Pediatr Infect Dis.,13(1):e146931.

[2024]

Seasonal assessment of surface water and sediments pollution in Rachiine River, Northern Lebanon, using multivariate statistical analysis

Mansour, R., Halwani, J., El-Dakdouki, M. H., & Mina, S. (2024). Seasonal assessment of surface water and sediments pollution in Rachiine River, Northern Lebanon, using multivariate statistical analysis. Heliyon, 10(19), e39016.

[2024]

Structure and distribution of sensor histidine kinases in the fungal kingdom

Mina, S., Hérivaux, A., Yaakoub, H., Courdavault, V., Wéry, M., & Papon, N. (2024). Structure and distribution of sensor histidine kinases in the fungal kingdom. Current genetics, 70(1), 17.

[2024]

Phylogenetic group distribution and antibiotic resistance of Escherichia coli isolates in aquatic environments of a highly populated area

Mansour, R., El-Dakdouki, MH., Mina S. (2024) Phylogenetic group distribution and antibiotic resistance of Escherichia coli isolates in aquatic environments of a highly populated area. AIMS Microbiology, 10(2): 340-362.

[2023]

A Stress Hub in Scedosporium apiospermum: The High Osmolarity Glycerol (HOG) Pathway

Yaakoub, H., Mina, S., Marot, A., Papon, N., Calenda, A., Bouchara, J.-P. (2023). A Stress Hub in Scedosporium apiospermum: The High Osmolarity Glycerol (HOG) Pathway. Kinases Phosphatases, 1, 4-13.

[2022]

Healthcare workers perceptions regarding antibiotic use during COVID-19 pandemic in Lebanon: a cross-sectional study

Mina, S., & Azakir, B. (2022). Healthcare workers perceptions regarding antibiotic use during COVID-19 pandemic in Lebanon: a cross-sectional study. BAU Journal - Health and Wellbeing, 4(2), 10.

[2022]

COVID-19 and Fungal infections: a double debacle

Mina, S., Yaakoub, H., Annweiler, C., Dubée, V., & Papon, N. (2022). COVID-19 and Fungal infections: a double debacle. Microbes and infection, 24(8), 105039.

[2022]

Oxidative stress response pathways in fungi

Yaakoub, H., Mina, S., Calenda, A., Bouchara, J. P., & Papon, N. (2022). Oxidative stress response pathways in fungi. Cellular and molecular life sciences : CMLS, 79(6), 333.

[2021]

Repurposing of auranofin and honokiol as antifungals against Scedosporium species and the related fungus Lomentospora prolificans

Yaakoub, H., Staerck, C., Mina, S., et al (2021). Repurposing of auranofin and honokiol as antifungals against Scedosporium species and the related fungus Lomentospora prolificans. Virulence,12(1),1076-1090

[2021]

Helicobacter pylori Infection in Tripoli, North Lebanon: Assessment and Risk Factors

Khoder, G., Mina, S., Mahmoud, I., Muhammad, J. S., Harati, R., & Burucoa, C. (2021). Helicobacter pylori Infection in Tripoli, North Lebanon: Assessment and Risk Factors. *Biology*, 10(7), 599.

[2017]

Scedosporium boydii CatA1 and SODC recombinant proteins, new tools for serodiagnosis of Scedosporium infection of patients with cystic fibrosis

Mina, S., Staerck, C., Marot, A., et al. (2017). Scedosporium boydii CatA1 and SODC recombinant proteins, new tools for serodiagnosis of Scedosporium infection of patients with cystic fibrosis. *Diagn Microbiol Infect Dis*, 89(4), 282–287.

[2015]

Identification of Scedosporium boydii catalase A1 gene, a reactive oxygen species detoxification factor highly expressed in response to oxidative stress and phagocytic cells.

Mina, S., Staerck, C., d'Almeida, S. M., et al. (2015). Identification of Scedosporium boydii catalase A1 gene, a reactive oxygen species detoxification factor highly expressed in response to oxidative stress and phagocytic cells. *Fungal Biol.*, 119(12)

[2015]

Purification and characterization of a mycelial catalase from Scedosporium boydii, a useful tool for specific antibody detection in patients with cystic fibrosis

Mina, S., Marot-Leblond, A., Cimon, B., et al. (2015). Purification and characterization of a mycelial catalase from Scedosporium boydii, a useful tool for specific antibody detection in patients with cystic fibrosis. *Clin Vaccine Immunol.* 22(1),37–45

[2014]

Proposed nomenclature for Pseudallescheria, Scedosporium and related genera

Lackner, M., Mina, S., ... Issakainen, J. (2014) "Proposed nomenclature for Pseudallescheria, Scedosporium and related genera", *Fungal Diversity*, Vol. 67, pp. 1-10.

GRANTS

[01/06/2023 – 01/07/2023]

International mobility Grant-University of Angers, France

Project: Structure and Distribution of Sensor Histidine Kinases in the Fungal Kingdom

[01/06/2022 – 01/07/2022]

Séjour Scientifique de Haut Niveau (SSHN)/France Excellence scholarship by the French embassy in Lebanon

Project: The pseurotin and ovalicin synthesis gene supercluster and its implications in the pathogenesis of Scedosporium apiospermum infections

[01/08/2018 – 01/08/2021]

CNRS-BAU Grant

Project: Ecology of *Scedosporium apiospermum* species complex in North Lebanon

NETWORKS AND MEMBERSHIPS

Member of the ISHAM working group (International Society for Human and Animal Mycology)

Member of the "Société Française de la Microbiologie" (SFM)

Former Member of the French association "Vaincre la mucoviscidose"