

Tarek Houri, Ph.D.

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EDUCATION

- 2007 - 2013** Faculty of Medicine & Pharmacy, Auvergne University, Clermont-Ferrand, France, Ph.D.
Major: Biology , Sensoryneural Biophysics, Neurosciences, Physiology.
Advisor: Pr. Michel Doly, Ph.D.
- 2006 - 2007** François Rabelais University, Tours, France, M.Sc.
Major: Physiology, Biomolecules & Therapeutics
Advisor: Pr. Jean Yves Le Guennec, Ph.D.
- 2001 - 2006** Faculty of Science, BAU, Beirut, Lebanon, Bachelor & M.Sc.
Major: Bachelor in Biology & Diploma in Graduate Studies

ACADEMIC EMPLOYMENT

- September 2025** Associate Professor & Researcher of Biology/ Department of Biological Sciences, BAU University, Lebanon
- January 2014 -** Assistant Professor & Researcher of Biology/ Department of Biological Sciences, BAU University, Lebanon
- August 2021** Teaching Biology & Biochemistry undergraduate & graduate students/ Academic Coordinator for Postgraduate Studies at the faculty of Science/ Contribute to developing Biology/Biochemistry programs, study plans and laboratories handbooks of the Department of Biological Sciences.

ADMINISTRATIVE EXPERIENCE

- 2025 – Present** Advisor for Biology & Biochemistry Students, BAU University, Faculty of Science, Tripoli Campus, Lebanon
- 2014 – 2021** Advisor for Biology & Biochemistry Students, BAU University, Faculty of Science, Tripoli Campus, Lebanon
- 2016 – 2021** Academic coordinator for Postgraduate Studies/ Faculty of Science, BAU University, Tripoli Campus, Lebanon
- 2015 – 2021** Member of the “Library & Quality committees” , BAU University, Tripoli Campus, Lebanon
- 2017 – 2021** Member of the international relations committee

HONORS AND AWARDS

2021 Qualified as “Maître de conférences” (Associate Professor) in Physiology (Section 66) from « MINISTRY OF HIGHER EDUCATION, RESEARCH AND INNOVATION », 25/02/2021, N°21266329023, France, Translated & Certified at the French Consulate.

PUBLICATIONS

PEER-REVIEWED JOURNAL ARTICLES

- Attention Modulation of P300 and MMN: A Pilot Study Using a 2-Electrode Oddball Paradigm. Ibrahim Rida Kassem, Katia Sawaya & **Tarek Houri**. IEEE 2026, (ICAISSET).
- The phytoremediator capacity of *Quercus cerris* L. against heavy metals contamination in the Ezer forest, Lebanon. Rola Najib, **Tarek Houri**, Yara Khairallah and Mahmoud I. Khalil. Forestry Studies, Volume 80 (2024): Issue 1.
- *Crithmum maritimum* L.: A General Review. **Tarek Houri***, Jana Kaddour, Kamar Al Charif, Bilal Osta. Submitted March 2024.
- QUERCUS CERRIS L.: ANTIBACTERIAL AND ANTIBIOFILM POTENTIAL, Rola Najib, Malak Mezher, **Tarek Houri**, Yara Khairallah, Mahmoud Khalil. Published 1. 12. 2023.
- “Effect of dust accumulation on *Quercus cerris* L. leaves in the Ezer forest, Lebanon”, Rola Najib, **Tarek Houri**, Yara Khairallah, Mahmoud Khalil. Published: Aug 23, 2022.
- “*Quercus cerris* L.: An Overview”. Rola Najib, **Tarek Houri**, Yara Khairallah, Mahmoud Khalil. Forestry Studies Journal, Accepted 26 February 2021.
- “WATERPIPE: A GLOBAL ALARMING PROBLEM”, **HOURI** et al., BAU Journal – Science and Technology, Volume 2, Issue 1, ISSN: 2706-784X. Accepted 15/07/2020.
- “Familial Mediterranean Fever: A General Review”. **T. HOURI**, B. OSTA and M. KHODER AGHA. BAU JOURNAL - HEALTH AND WELLBEING – Volume 2, Issue 1, BEIRUT ARAB UNIVERSITY, LEBANON, Online January 2020.
<https://digitalcommons.bau.edu.lb/cgi/viewcontent.cgi?article=1026&context=hwbjournal>
- “Heavy Metals Accumulation Effects on The Photosynthetic Performance of Geophytes in Mediterranean Reserve”. **Tarek Houri**, Yara Khairallah, Alaa Al Zahab, Bilal Osta, Dany Romanos, Georges Haddad. Journal of King Saud University – Science: Q1 Ranking; Accepted 16 April 2019, Available online 6 May 2019
- “Biomonitoring airborne pollution: a case study of “*Urginea maritima*” species in Benta el natural reserve –Lebanon”. Yara Khairallah, **Tarek Houri**, Bilal Osta, Dany Romanos, Georges Haddad. Journal of Taibah University for Science <https://doi.org/10.1080/16583655.2018.1507418> / August 2018
- “Biochemical profile of non-enzymatic stress markers in the plant species “*Urginea maritima*” in a Mediterranean natural reserve exposed to oxidative stress”. Yara Khairallah, **Tarek Houri**, Bilal Osta, Dany Romanos, Georges Haddad. June 2018 / Environmental Monitoring and Assessment 190(6) DOI: 10.1007/s10661-018-6729-9

- Can the damage caused by anthropogenic activities on *Urginea maritima* in Bentaël natural reserve be a signal of health problems?" Yara Khairallah, **Tarek Houri**, Georges Haddad, Rajaa Fakhoury, Bilal Osta, Danny Romanos. October 2016 DOI: 10.1109/MECBME.2016.7745396 Biomedical Engineering (MECBME) Volume: Healthcare Information Systems and e-Health.
- Rôle des caspases au cours de la photodégénérescence rétinienne. September 2016. **Dr. TAREK HOURI**. Publisher: Presses Académiques Francophones ISBN:978-3-8381-4525-9. <http://www.idref.fr/181594625#070>.

CONFERENCE PRESENTATIONS

- The SFAR National Congress 24/25/26 September 2020, "FERRIC CARBOXYMALTOSIS (FERINJECT®) in postoperative cardiac surgery: Effects on the correction of anemia and transfusion needs Prospective randomized controlled study", Anesthesia / Pain. M. Houry1,*J. Tohmé1, W. Bou Gebrail 1, **T. Houri** 2, K. Jabbour 1, A. Gerges 1, F. Haddad1, G. Hayeck 1, G. Sleilaty 1, S. Madi Jebara 1. (1Hotel Dieu De France - Beyrouth (Liban), 2Beirut Arab University - Beyrouth (Liban))
- 1st Student Innovation and Research Conference for Arab Universities and Schools (SIRCAUS) / 27-03-2018 / BAU- Debbieh Campus.
- Biomedical Research Between Sciences and Engineering /Friday February 2, 2018 / Beirut Arab University- Tripoli Campus in Cooperation with Doctoral School for Science and Technology (DSST), Faculty of Engineering, Lebanese University & IEEE EMBS Lebanon Chapter.
- MECBME 2016, Middle East Conference on Biomedical Engineering (MECBME'16). 2016-10-06 - 2016-10-07. IEEE. Yara Khairallah, **Tarek Houri**, Georges Haddad, Rajaa Fakhoury, Bilal Osta, Danny Romanos.
- 22nd Scientific International Conference: The Social Avenues of the Research. April 14 & 15, 2016. Holy Spirit University of Kaslik, Lebanon.
- JED-Clermont Ferrand-2011: Poster "Role of Caspases in Light Induced Retinal Degeneration" (**Houry T.**, Doly M., Perche O., Ranchon-Cole I.), Sensorineural Biophysics Laboratory of Sensory Disabilities, School of Medicine, University of Clermont 1, Clermont-Ferrand, France. JED: Doctoral School Day, Clermont Ferrand, France.
- ARVO-Florida-2009: Poster "Do Caspase-12 play a role in light induced retinal degeneration" (Doly M., Perche O., Cercy C., **Houry T.**, Ranchon-Cole I.), Neurosciences/Sensorineural Biophysics Laboratory of Sensory Disabilities, School of Medicine, University of Clermont 1, Clermont-Ferrand, France. ARVO: The Association for Research in Vision and Ophthalmology.

TEACHING PORTFOLIO

Course Name	Brief description
Biology I BIOL231	An introduction to the science of biology is first presented along with the hierarchical organization of living systems. The chemical context of life is then presented, including the role of Water, Carbon and large biological molecules in the living organisms
Biology II BIOL232	An introduction to the anatomy, physiology & diversity of plants and animals is first presented; Followed by their structure, growth, nutrition, transport, reproduction, development, and control systems. A tour of the Invertebrates & Vertebrates is also presented covering their structure, physiology & interaction with their environment
Foundation biology BIOL121	This course is designed to give students a working knowledge of the anatomy & morphology of the major organs: Eye & vision, Ear & Hearing, Nose & Smell, Tongue & taste. Anatomy and physiology of the major systems
Biol433 Developmental Biology	The embryonic layers are then presented, including the fate of blastopore & coelom formation. The structures of gametes are also presented in details with the steps of recognition between eggs and sperms. The acrosomal reaction, the cortical reaction, the capacitation, and the internal fertilization in mammals are examined also using the latest figures adopted from recent technologies
Cell Signaling BCHM412	An introduction to general principles in cellular communication is first presented. The molecular mechanisms of action of various extracellular mediators including hormones, neurotransmitters, growth factors, cytokines, etc. and cell signaling events are then presented
Membrane biology BIOL207	The structural components of biomembranes and the forces that dictate membrane structure are presented. General membrane functions such as compartmentalization and membrane transport are analyzed in view of the principles of membrane structure
Seminar in Biology Biol435, BCHM435	Seminar for Final Years Bio/Biochem
Biol223 Basic Biology-Health	An introduction to the science of biology is first presented along with the hierarchical organization of living systems. The chemical context of life is then presented, including the role of Water, Carbon and large biological molecules in the living organisms.
Biochemical & Molecular Toxicology BCHM 447	Uptake, distribution and excretion of xenobiotic compound (toxicokinetics). Xenobiotic action mechanisms on molecular, cellular, tissue, organ and organism levels (toxicodynamics). Introduction to toxicology and toxicological chemistry, dose – response relationship, relative toxicities, reversibility and sensitivity, xenobiotic and endogenous substances, teratogenesis, carcinogenesis, immune system effects, and reproductive effects, health hazards, toxic chemicals: inorganic & organic

Senior Project BIOL444, BCHM444	Senior Projects for Final Year Bio/BIOCHEM
Biol336 Plant Physiology	The relation between the water molecule & the plant is then presented, including its physical & chemical properties. The detailed processes cellular respiration & photosynthesis are also presented along with the enzymes affecting those pathways. This course treat also the transport in plants, the soil a plant nutrition, the angiosperm reproduction & biotechnology, & the plant responses to internal & external signals
Ecology BIOL432	This course aims to provide an understanding of the principles which underpin contemporary ecological science, wildlife conservation and habitat management; and to provide a practical and theoretical grounding in the wide range of field techniques and skills employed in the study of plant and animal communities and practical experience in data collection, analysis and interpretation
BIOL741	Advanced Topics in Biological Sciences, Topics may vary from semester to semester and may include topics such as human development, epidemiology or plant physiology. (For Phd Students).
BIOL682	Research Techniques, For Master's Students: Different useful techniques for the students.
BIOL626	Biodiversity & Pollution, This course will provide an introduction to the basic principles of conservation and biodiversity, The wildlife value in different communities will also be considered, and the different levels on which protection of species can take place will be explored.
ENVI002 Natural Hazards	This course discusses the events associated with normal geophysical and biological processes that cause death, injury or loss of home, property or income. The intensity of the hazard may be influenced by human modifications of the landscape (e.g. deforestation and urbanization influence flood frequency and magnitudes) or climate (e.g. heat waves in urban areas)
TSHS341 Teaching Strategies	This course provides pedagogical content knowledge and curriculum knowledge for high school teachers in the fields of science. By the end of the course, students should be able to prepare a successful lesson plan and handle different teaching strategies and assessment techniques and they should integrate technology in teaching by the use of useful educational software and perform and interpret a scientific experiment