

# CURRICULUM VITAE

## Personal information

- *Personal*
  - Professor MAHDI Djahida
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## Education

- **University habilitation (HDR)** in Biology (2010, university Annaba)
- **Doctorate of Sciences in** Animal Biology (2008, university Annaba)
- **Master's degree** in Cellular and Systemic Physiology (1988 , USA)
- **Diploma of higher studies (D.E.S)** in Animal Biology and Physiology (1985, Constantine university)

## Scientific recognitions and awards

1. A scholarship to study in the USA was given by the Algerian higher ministry of education and research in 1985
- 2- Honored by the University of Constantine in 1985 for graduating in the major position in 1985, at the Constantine University
- 3- Honored by Gamma delta Phi Sigma society in 1988. This organization in the USA designates a student as member, who have obtained excellent academic results and who have started research in biological sciences
- 4- My research work entitled: "Relationship between follicle growth and circulation gonadotrophin levels during postnatal development of sheep" was chosen to participate in obtaining the prize in reproductive biomedicine and stem cells fields (10th Royan international Research Award) by Royan institute, IRAN. 2009 .
- 5-Best research work presented as "Poster", 21-24 December 2015, at The 5th Maghreb conference on desalination and water treatment, Tunisia: Trad A and Co author MAHDI D. Effect of internal and external parameters on the performance of solar still.

## Functions and Affiliations

- **Professor since 19 January 2019**
- Member in **Research Laboratory** of Natural Resources and Management of Sensitive Environments, University of Oum El Bouaghi (2003-2016); Member in Research Laboratory of Animal Ecophysiology, university Annaba (201-

2022); Member in Research Laboratory of Natural Substances, Biomolecules and Biotechnological Applications, University of Oum El Bouaghi (from 2022 till now)

- Head of department of natural sciences (E.N.S. Oum El Bouaghi;
- AT the university center larbi Ben m'hidi Oum El Bouaghi: Head of department of the first year study (tronc commun) of the institute of natural and life sciences; Head of Department of Biology and Animal Physiology; Head of department of Microbiology at the C.U. Larbi Ben M'hidi Oum El Bouaghi.
- Head of department of Natural and Life Sciences (LMD), Faculty of Exact Sciences and Natural and Life Sciences at the University Larbi Ben M'Hidi Oum El Bouaghi.
- Member of disciplinary comity at the higher normal school (ENS) in Oum El Bouaghi from 1990 until 1995, and from 15 February 1997 until 1999.
- Supervision of many students (**Diploma of higher education; Masters and PhD students**).
- Head and Member in many Research Projects on small ruminant's physiology and use of natural and bioactive substances in therapy and in detoxification:
- **Project of research:**

**1-** 2000-2004: Member of project CNEPRU, Code : 0401/01/2000. Title: Postnatal development and physiological maturity of the ovary of Ouled Djellel sheep.

**2-** 2011-2014: Head of project : CNEPRU, Code : G03020100035. The postnatal development and physiological maturity of the genital apparatus of Ouled Djellel sheep.

**3-** 2015-2018: Head of project: CNEPRU, Code: D01N01UN040120140013. Effect of physiological stage on different blood parameters in goats reared in the semi-arid areas.

**4-**2018-2021: Member of project: PRFU, Code: D01N01UN040120180002. Valorization of biomolecules of the Algerian propolis with pharmacological activities: anti Alzheimer and anti-infectious.

**5-** 2022-2026: Head of project: PRFU, Code: D01N01UN040120180002: The protective effect of bioactive and natural substances against cisplatin-induced organ toxicity in vivo (Rat as experimental model).

## Teaching modules

Animal biology (course + laboratory courses, 1st year, 1<sup>st</sup> year biology, ENS, Bachelor level); Animal physiology and endocrinology (course+ laboratory) (3rd year, diploma of higher education; D.E.S: animal biology and physiology); Anatomy and physiology of the major functions in vertebrates (course+ laboratory) (3<sup>rd</sup> year for diploma of higher education; D.E.S); General endocrinology (course+ laboratory) (4th year, DES), Micro-techniques; graduate course (1st year Master (magistère.; graduate courses) option: Zooparasitology); Psychophysiology (2nd year: LMD in psychology and speech therapy; Neurobiology (3rd year LMD (Bachelor level) : course+ laboratory ); Comparative aspects of major functions in vertebrates, fundamental subject (Master, course + laboratory); Animal biology (laboratory, LMD 1<sup>st</sup> year biology); General endocrinology (Course+TD, Master); Microtechnology (Course+ laboratory, Master); Reproductive endocrinology (Course+TD, Master); Analysis of

articles (Course+TD, Master); Nervous Physiology ((3rd year; Bachelor level LMD: course+ TD); Analysis of scientific articles in English (2<sup>nd</sup> year Master); Micro-techniques (2<sup>nd</sup> year Master).

### International publications

1. **D. Mahdi**, K. Khallili. Relationship between follicle growth and circulating gonadotrophin levels during postnatal development of sheep. (Class A). **Animal Reproduction Science** 106 (2008) 100–112.  
<https://doi.org/10.1016/j.anireprosci.2007.04.008> .
- 2- **D. Mahdi**, D, Monniaux. Follicle growth in relation to circulating gonadotrophins during postnatal development of sheep. Book of Abstracts. Reproduction in Domestic Animals. Workshop abstracts, Poster abstracts, Editor in chief: Heriberto Rodriguez-Martinez. **Wiley-Blackwell**. Vol 43, Supplement 3, **July 2008**. p.83 Special Issue: Proceedings of the 16<sup>th</sup> Annual Conference of the European Society for Domestic Animal Reproduction (ESDAR). PDF] Reproduction in Domestic Animals - Facultad de Ciencias Veterinarias <https://onlinelibrary.wiley.com/toc/14390531/2008/43/s3>
- 3- **Mahdi D.**, Khalili K., Dhimi A. Relationship between follicle growth and circulating gonadotrophin levels during postnatal development of sheep. **2009. Cell journal** (yakhteh) fall 2009, Volume 11, SUPPL. 1; Page(s) 25 - 26.  
<http://www.sid.ir/en/journal/ViewPaper.aspx?ID=152942>
- 4- **D. Mahdi**, K. Khelili. **2010 (Class A)** Circulating gonadotropins levels and contribution of different large antral follicles to isofolliculosa in sheep. **Animal Reproduction Science** 118 (2010) 25-31.  
<https://doi.org/10.1016/j.anireprosci.2009.05.020>
- 5- Abderachid Trad, **Djahida Mahdi**. July 2017 (classA). Simulation of the solar still under real operating conditions. **Desalination and Water Treatment**. 2017, 83, 176–183. DOI: <https://doi.org/10.5004/dwt.2017.21085>
- 6- Sofia Amel Allaoua and, **Djahida Mahdi**, **2018 (Class A)** Plasma biochemical and minerals parameters in Arbia goats of a semi-arid region of North-Eastern Algeria during different stages of production. **VETERINARSKI ARHIV** 2018, 88 (5), 643-660. <http://vetarhiv.vet.unizg.hr/papers/2018-88-5-5.pdf> doi: 10.24099/vet.arhiv.0018
- 7- Khel Saida, **Mahdi Djahida**. March 2018. (Class B). The Postnatal Development of the Ouled Djellel Ram Testis of Semi-Arid Zones. **World Journal of Environmental Biosciences**. 2018, Volume7, Issue 1: 100-103.  
<http://www.environmentaljournal.org/index/AbstractView/243>
- 8- Sofia Amel Allaoua, **Djahida Mahdi** April 2018 (Class B) Minerio-Biochemical Profiles of Arbia Goats Reared Traditionally Under the Semi-Arid Environment of North–Eastern Algeria During Peri-Parturient Period. **World Journal of Environmental Biosciences**. 2018, 7, 2:95-101. <http://www.environmentaljournal.org/index/AbstractView/238>
- 9- Amel Benbott, **Djahida Mahdi**, Kamel Derouiche, Karouche Saida, Ammar Zellagui. July 2018 (Class B). Nephrotoxicity of Crude Alkaloids Extract of Peganum Harmala Seeds in Rats. **World Journal of Environmental Biosciences**. 2018, 7, 3:63-66.  
<http://www.environmentaljournal.org/admin/articles/DownloadArchivePDF/WJEB-2018-7-3-133.pdf>
10. A. Benbott, D. Mahdi, A. Zellagui, Y. Moumen and C. Mosbah Décembre 2018 (Class B). Effect of Alkaloids Extract of Peganum harmala Seeds on Histo-Function of Rat's Testes. **Journal of New Technology and Materials**. Vol. 08, N°02 (2018)70-76.  
<https://sites.google.com/site/jntmjournal/vol-8n2-dec-2018>
- 11- Allaoua S.A., **MAHDI D**. Décembre 2016. **Actes édité 0** Variations de paramètres biochimiques et minéraux durant le pré-partum, le post-partum et la période sèche chez la chèvre de race locale (Arbia) des zones semi-arides de l'Est Algérie. Actes édité : **Actes des 23<sup>ème</sup> Rencontres Recherches Ruminants 2016**, INRA, édition Institut de l'élevage, p 23. N° ISBN: 978-2-36343-779-2 9782363437792 <http://www.journees3r.fr/spip.php?article4313>
- 12- A. TRAD, **D. MAHDI**. 17-20 December, 2017. **Proceeding books**. Simulation of the solar still under real operating conditions. Selected papers presented at the 5th Maghreb Conference on Desalination and Water Treatment — CMTDE 2015, December 21–24, 2015, Hammamet, Tunisia. **Proceeding book** was published during 6<sup>th</sup> Maghreb Conference on Desalination and Water Treatment — CMTDE 2015, December 17-20 December, 2017, Hammamet, Tunisia. <http://www.deswater.com/83toc.pdf>

- 13- Asma Berkani, **Djahida Mahdi**, Sofia Amel Allaoua, Amel Benbott. Dec 2018 (Class B). Changes in Blood Biochemical and Mineral Parameters of Ouled Djellal Ewes under the Semi-Arid . Environment of North–Eastern Algeria during Late Pregnancy and Early Post-Partum. World Journal of Environmental Biosciences. 2018, 7, 4:71-76.  
[https://environmentaljournal.org/en/issue/volume\\_7\\_2018\\_issue\\_4](https://environmentaljournal.org/en/issue/volume_7_2018_issue_4)
- 14- Mouna Menakh, **Djahida Mahdi**, Saber Boutellaa, Amar Zelligui, Mesbah Lahouel, Chawki Bensouici 2020 (Class B). *In vitro* antioxidant activity and protective effect of *Hertia cheirifolia* L. n-butanol extract against liver and heart mitochondrial oxidative stress in rat. Acta Scientifica Naturalis. ASN, Vol. 7, No 1, Pages 33–45, 2020.  
DOI: <https://doi.org/10.2478/asn-2020-0005>
15. Hamdouche Nadira, Sifi Yamina, **Mahdi Djahida**, Dalichaouche Imen, Sifi Karima, Abadi Nouredine, M' Zahem Abderrahim, Satta Dalila. 2020. Molecular Analysis of Algerian Patients with Duchenne and Becker Muscular Dystrophy. South Asian J Exp Biol; 10 (3): 176-182; 2020 [DOI: 10.38150/sajeb.10(3).p176-182]
16. Nadira Hamdouche, Yamina Sifi, Djahida Mahdi, Karima Sifi, Abdelmadjid hamri, Nouredin Abadi, Imene Dalichaouche , 2020. Analyse du gène DMD chez des patients Algériens atteints de dystrophinopathies Journées de Neurologie de Langue Française 2020, *Revue Neurologique* **Volume 176, Supplement**, September 2020, Page S23.  
<https://doi.org/10.1016/j.neurol.2020.01.103>
- 17- Houria Boubellouta, Fatima Khelifi Touhami, **Djahida Mahdi** (2021). (Class B) 2020. *In vivo and in vitro* hepatoprotective effect of three endemic plants against carbon tetrachloride-induced liver damage in rats. Acta Scientifica Naturalis ASN, Vol. 8, No 1, Pages 15–36, DOI: 10.2478/asn-2021-0003.
18. Allaoua, S.A., **Mahdi, D.**, Zerari, A. Rouar, S. (2021) Establishment of blood chemistry reference intervals for Arbia goats, including values in phases of reproduction. Comp Clin Pathol vol 30, Issu 2 <https://doi.org/10.1007/s00580-021-03243-y>
19. Zerari Aicha, **Mahdi Djahida**, Allaoua Sofia Amel, Rouar Salim (2021). Effect of gender on hematological parameters in growing Ouled Djellal sheep of semi arid zones of Northeastern Algeria. South Asian J Exp Biol; Vol. 11, Issue 4 Page 407-417 .[DOI: 10.38150/sajeb.11(4).p407-417] <https://sajeb.org/index.php/sajeb/article/view/478>
20. Mouna Menakh, Saber Boutellaa, **Djahida Mahdi**, Amar Zelligui, Mesbah Lahouel, Mehmet Öztürk (2021). Hepatoprotective Effects of *Hertia cheirifolia* Butanolic Extract and Selenium against CCl<sub>4</sub>-induced Toxicity in Rats. Journal of Reports in Pharmaceutical Sciences | Volume 10 | Issue 2 | July-December 2021. DOI: 10.4103/jrptps.JRPTPS\_25\_20
21. Benbott Amel, Camellia Mosbeh, Saida Karouche, Nadira Hamadouche, **Djahida Mahdi** ( Class B 2022). Subacute hepatotoxicity of alkaloids extracts of Peganum harmala L. seeds in Wistar albino rats. Notulae Scientia Biologicae . Volume 14 (issue2, article number: 1121. Online 30 May 2022: DOI: [10.55779/nsb14211211](https://doi.org/10.55779/nsb14211211).
22. S Boutellaa, M Menakh, **D Mahdi**, A Zelligui, N Bouzit, F Leknouche (class B, 2022). Nephroprotective Effect of Hertia cheirifolia Polar Fraction with Selenium against Carbon Tetrachloride in Rats. Annals of the Romanian Society for Cell Biology 26 (01), 3032-3049

#### **National Publications:**

23. **D. Mahdi**, BA., Horowitz. 2004. Effect of norepinephrine on the Krebs cycle intermediates of brown adipose tissue in Mesocricetus auratus hamster. *Revue des Sciences et de la Technologie, Synthèse*. Editeur : Publication de l'université Badji Mokhtar-Annaba. ISSN : 1111-4924. Volume N°13, **juin 2004**. pages 45-51.  
DOI: <https://doi.org/10.5004/dwt.2017.21085>
24. **D. Mahdi**. 2011 Patterns of circulating FSH and LH in Ouled Djellal ewe lambs during postnatal development. *Revue Sciences & Technologie C*, Université Constantine 1 N°33 Juin (2011), pp.9-15.  
<http://revue.umc.edu.dz/index.php/c/issue/view/41/showToc>
25. Daoudi Farida, **Mahdi Djahida**, Beddar Leila, Benbott Amel, Allaoua Sofia Amel, Zerari Aicha. Protective effect of aqueous extract of *Teucrium polium* against hemato-hepatotoxicity and inflammation induced by acrylamide. Proceeding of 1<sup>st</sup> National seminar

Biotechnology of Medicinal Plants and their Involvement in the Pharmaceutical and Food Industries, December 13th and 14<sup>th</sup>, 2021, University of Oum-El-Bouaghi ISBN 978-9931-9827-4-6.

26. TRAD Abderachid, **Mahdi Djahida**, Khacheb Mohamed Achraf (2022) Effect Of Thermal Energy Storage By Phase-Changing Material On The Performance of A Solar Still 'Comparison Study' .Proceeding ISBN:978-9931-9471-6-5, 1st International Conference on Modern Electrical Engineering and Technology February 18th – 19th 2022 Mohamed Cherif Messaidia University, Souk Ahras, Algeria

### Interests and Qualifications

– **Interests:**

1-Small ruminant physiology and production (goats and sheep)

2-Use of natural and bioactive substances to protect organs from different toxic xenobiotic compounds

3- Use of natural and bioactive substances to protect from organ toxic side effects of chemotherapy; Use of natural and bioactive substances for cancer therapy.

Qualifications: different histology techniques, Elisa, Radioimmunoassay, histochemie, different studies in vivo, oxidative stress biomarkers,

4- Thermogenesis

- **Qualifications:** Different techniques in histology, Elisa, Radioimmunoassay, histochemistry. different studies in vivo using ratsoxidative stress biomarkers, Phytotherapy, markers of fertility.....,

- Other: data analysis, statistical software; writing scientific articles