

Name: Mustafa Mohamed Drah

E-mail: m11al2drah@gmail.com

Date & Place of Birth: 11/11/1967 Misurata, Libya

Nationality: Libyan

Marital status: Married with 4 children

***Academic Qualification:***

- B.Sc. Degree in biology on 1990.
- M.Sc. In Zoology on 2005.
- PhD In Biotechnology on 2016.
- Academic rank: Assistant Professor

***Scientific Experience***

- Demonstrator at Biology department, Science College, Misurata, Libya: from 1991 – 2001.
- Assistant in teaching practical courses in Microbiology, Zoology, Cytology, Histology for undergraduate students in Science and Medicine.
- Technical experience in Microbiology, Haematology, Biochemistry, Histopathology and Blood bank at Misurata Central Hospital for the Period: 1990-2006.
- Assistant Lecturer at Biology Department, Misurata, Libya since 2006 teaching courses of Cytology, Histology and General Microbiology.
- Engaged in private Laboratory for Biochemical, haematological, Pathological, Immunological, Microbiological and hormonal analyses of sample from the patients. From 2001-to date.

- Postdoctoral Fellowship in Biotechnology Department at University of the Western Cape. From May 2016 to December 2017.
- Engaged in private scientific research unit at Misurata Central Laboratory for genetic, cytogenetic and proteomics, From September 2019 to date.
- Currently I am teaching Bioinformatics, tissues culture courses in the molecular biology department and molecular biology course in the Zoology Department, Faculty of sciences Misurata. Misurata University.
- A head of Zoology unit from 15/11/2018 to 1/12/2020 at faculty of sciences, Misurata University.
- Internal examiner of some Master thesis at Faculty of sciences, Misurata University.
- Member of the Permanent Scientific Advisory Committee of the National Commission for DNA Research and Analysis since 3-2021.
- A head of genetic and biotechnology department from 24/5/2022 to date at Faculty of sciences, Misurata University.
- Teaching Molecular Reproductive Biology course for MSc students from October 2022 to January 2023, in The Libyan Academy.
- Teaching Molecular and biotechnology course for MSc students from December 2022 to August 2023, at College of Medical Technology, Tripoli.

- Teaching Methods Concept Of Molecular Sciences course for MSc students from March 2023 to July 2023, at College of Medical Technology, Tripoli
- Teaching Bioinformatics course For MSc student from March 2023 to July 2023 at Libyan Academy for Postgraduate Student (Misurata branch).
- Teaching Molecular Biology course For MSc student from March 2023 to July 2023 at Libyan Academy for Postgraduate Student (Alkhums branch).
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### ***Scientific activities***

- Supervisor of graduation project for student of the Department of Genetics entitled “Detection of BRCA1 and BRCA2 mutation in some Libyan families with inherited breast cancer” 2019.
- Supervisor of graduation project for student of the Department of Genetics entitled “Detection of BRCA1 novel mutation causing breast cancer in Libyan family” 2019

- Cosupervisor of graduation project for student of the Department of Zoology entitled “Effect of Methotrexate on Recognition Memory and some of Liver Functions in Female Adult Mice” 2019
- Supervisor of graduation project for student of the Department of Genetics entitled “ Study of some BRCA1 mutations in families with inherited breast cancer in Misurata” 2020.
- Cosupervisor of graduation project for student of the Department of Zoology entitled “Studying the effect of some henna additives on liver and kidney functions in married women in Misurata city” 2020.
- Supervisor of graduation project for student of the Department of Zoology entitled “The effect of scorpion venom (Androctonus Austrararlis) on human blood” 2021
- Supervisor of graduation project for student of the Department of Zoology entitled “Isolation and identification of bacteria causing inflammation of the dialysis catheters in patients with renal failure” 2021.
- Examiner of some Libyan Innovation Prize presentation 12-2022.
- Won the Second prize of Libyan Innovation Prize of this research entitle . “Study of some BRCA1 mutations in families with

inherited breast cancer in Misurata” 19/22 December 2022, at Bab Albahr Hotel, Tripoli, Libya.

### ***Conferences attended***

Attending a number of Conferences held in Libya and abroad as follow:

- National Conference for Biotechnology, Tripoli, Libya, 21-24 April 2000.
- International Symposium on Tuberculosis (Tuberculosis New Challenge), Tripoli, Libya, 12-13 May 2001.
- Workshop on Medical laboratories techniques and Blood bank under the Supervision of World Health Organization, Tripoli, Libya. 28 January - 2 February 2003.
- Third Conference on Medical Laboratories Science, Tripoli Libya, 17-19 May 2005.
- The Second Basic Sciences Conference, Tripoli, Libya 4-8/11/2007.
- The Eleventh Arab Conference "Arab Med Lab", Damascus, Syria 29 April -2 May 2006.
- The Fourteen Symposium of the Union of Arab Biologists, Cairo, Egypt. 15-19 April 2007.
- The International Cell death symposium “ Cell death in Infectious Disease and Cancer” Misty Hills Country Hotel, Johannesburg, South Africa 5-8 June 2009.
- Poster presentation “The development of nanotechnology-based detection systems for the diagnosis of breast cancer” at the 4 International Conference on Nanoscience and Nanotechnology

1-4 April 2012 at University of the free state, Bloemfontein, South Africa.

- Poster presentation “The development of nanotechnology-based detection systems for the diagnosis of breast cancer” at the 2<sup>nd</sup> Biotechnology world congress 18-21 February 2013 at Dubai Women’s College. Dubai. Second prize won.
- Poster presentation “The development of nanotechnology-based detection systems for the diagnosis of breast cancer” at the ninth National cancer research institute NCRI 3-6<sup>th</sup> November 2013 at the BT convention centre, Liverpool, UK.
- Poster presentation “ The use of gold nanoparticles for the targeted delivery of embelin to cancer cells” BioNanoMed 2014 at the 5<sup>th</sup> international Congress 26-28 March 2014, Krems/ Austria.
- International Centre for Genetic Engineering and Biotechnology (ICGEB) “Advances in Prostate and Breast Cancer Research” October 13-17-2014. The Commodore Hotel Portwood Road, V&A Waterfront, Cape Town, South Africa.
- Poster presentation “MAM-14 international symposium on macro-and supramolecular architectures and materials” 23-27 November 2014, Peermont hotels casino resorts, Johannesburg, South Africa.
- 1<sup>st</sup> Nanotechnology-Cancer Symposium 4 December 2014, SANBI Seminar Rooms, New Sciences Building, university of the Western Cape, Cape Town, South Africa.
- Poster presentation “Investigation of the antimicrobial activity of medicinal plants from Libya” Maghrebian- Finnish biotechnology Symposium (MFBS) 19-23 March 2018, Tryffelikeskus- Truffle Center, Juva City, Finland.

- Poster presentation “The development of nanotechnology-based detection systems for the diagnosis of breast cancer” at the Second Mediterranean Congress on bioticechnology (MCB2) 16<sup>th</sup> -20<sup>th</sup> March, 2019. Hotel Saphir Palace Hammamet, Tunisia.
- The 3<sup>rd</sup> Maghreb congress of medical biology 3-5 October 2019. Hotel Laico, Hammamet, Tunisia.
- Oral presentation “ The Applications of polymerase chain reaction “ at the 3<sup>rd</sup> Medical forum on Techniques of Molecular Analysis. Jun 15<sup>th</sup>- 16<sup>th</sup> 2022 Zawia Libya.
- The Seventh Libyan Conference for Medical Sciences 11-13/10/2022 Zawia Libya.
- The 1<sup>st</sup> Tripoli Conference on Medical Technologies -TCMT on 15/10/2022 at the Faculty of Medical Technology, University of Tripoli, Libya.
- Poster presentation "Detection of MUTYH gene mutations in heredity Colorectal Cancer in Libyan’s families" at The Fourth Conference of the Maghreb Union of Medical Laboratory Associations (4<sup>th</sup> COMUMLA) , March 3<sup>th</sup> – 5<sup>th</sup> -2023 , at Libyan Iron & steel Company, Misurata Libya, won the first prize.

### ***Workshops attended***

- The 2<sup>nd</sup> DST/Mintek NIC workshop 24-25<sup>th</sup> September 2009 at University of Johannesburg.
- The First aid training course level 2, 5-8 July 2010 at University of the Western Cape.

- The laboratory safety and hazardous chemical training course 14-17 June 2010 at University of the Western Cape.
- The 3<sup>rd</sup> DST/Mintek NIC workshop 23-24 November 2010 at University of the Western Cape, South Africa.
- Oral/poster presentation “The development of nanotechnology-based detection system for the diagnosis of breast cancer “at the 4<sup>th</sup> DST/Mintek NIC workshop 22-23 November 2011 at Mintek in Johannesburg, South Africa.
- Roche Diagnostic training on Capillary LightCycler, University of the Western Cape. 17-18 May 2012.
- Introduction to Bioinformatics workshop, Gene diagnostics, University of Stellenbosch, 23-24 May 2012.
- Fluorescence Live Cell Imaging Microscopy Course, University of Stellenbosch, 1&2 November 2012.
- Confocal microscope workshop, University of Cape Town, 17&18 October 2013
- Oral/presentation “The development of nanotechnology-based detection system for the diagnosis of breast cancer using QDs “ at the BROD-Biotechnology research day 4 September 2012 at University of the Western Cape.
- Oral presentation “The application of Molecular beacon for the diagnosis of breast cancer “at the 5<sup>th</sup> DST/Mintek NIC workshop 21-22 September 2012 at MRC in Cape town, South Africa. Second prize won.
- Poster presentation “The application of quantum dots in the diagnosis of breast cancer” at the BROD-Biotechnology research open day 30 October 2013 at University of the Western Cape. First prize won.]



- The MIQE guidelines: Minimum Information for Publication of Quantitative Real-Time PCR Experiments. 11-12 March 2015 University of Stellenbosch. Tygerberg Campus, Fisan building. Cape Town, South Africa.
- The DST/MINTEK NIC- 7<sup>th</sup> annual workshop programme 15-16 January 2017 University of the Western Cape. SA Medical Research Council (MRC). Cape Town.
- The 1<sup>st</sup> international workshop on inflammatory breast cancer (IBC-IC). September 25<sup>th</sup>-26<sup>th</sup> 2019 Tunis Arana Centre Lake of Tunis.
- Oral presentation “ Tests and research based on molecular analysis techniques and the possibility of providing them in Libya” at the 2<sup>nd</sup> Medical forum on Techniques of Molecular Analysis. Jun 19<sup>th</sup>- 20<sup>th</sup> 2021 Zuwara Libya.
- The 1<sup>st</sup> Libyan Diagnostics Experts Meeting. (ROCHE). May 23<sup>th</sup>-24<sup>th</sup> 2022 Hotel Fairmont Quasar, Istanbul, Turkey.
- Ibtikar tentative project workshop. November 28<sup>th</sup> – December 2<sup>nd</sup> 2022 Hotel Carthage Thalasso Resort, Tunis.
- Ibtikar Training Visit workshop 8<sup>th</sup> -11<sup>th</sup> May 2023 University of Salento, Italy.
- Regional Public-private Laboratory Consortium for biosafety and Biosecurity workshop 17<sup>th</sup> -19<sup>th</sup> July 2023 Laico Hotel Tunis, Tunisia

### ***Publications***

- The effect of Al-facron, Decis and Lannate on the opercular movement and gill tissues of the freshwater fish *Tilapia florida*. *Al-Sattel*. Vol.2, 20-25, 2007.
- Nicole Sibuyi, Ntevheleni Thovhogi, Kwazikwakhe Gabuza, Miche Meyer, **Mustafa Drah**, Martin Onani, Amanda Skepu, Abram Madiehe and Mervin Meyer. Peptide functionalized nanoparticles for the selective induction of apoptosis in target cells. *Nanomedicine Journal*. Accepted for publication. May 2017.
- A.Simo, **Mustafa Drah**, Nicole Sibuyi, M.Nkosi, M.Meyer and M.Maaza. Hydrothermal synthesis of cobalt-doped vanadium oxides: Antimicrobial activity study. *Ceramics International*. Volume 44, Issue 7, May 2018, Pages 7716-7722.
- Altaher Mustafa AlHubge , **Mustafa Mohammed Drah** , Mona Salah Dogman , Randa Mohammed Alsahy, Fatma Milad Alzain. Seroprevalence of Herpes simplex virus in Misurata, Libya. Special Issue for The 2nd Annual Conference on Theories and Applications of Basic and Biosciences September, 1st , 2018.
- Abuddabous A, **Drah M**, Aldehmani M, Parker I, Aqawi O. Kars mutations profiling in patients with Colorectal Cancer. *La Tunisie Medicale*. Vol 196 (04).p.p 196 -197, 2018.
- Nevena Vidovic, Fathia Faid, Ana Pantovic, Marina Nikolic, Jasmina Debeljak- Martacic, Milica Zekovic, Jelena Milesevic, **Mustafa Mohamed Drah** & Manja Zec. Vitamin D and cardio-metabolic biomarkers: small- scale comparative study

between Libyan migrants and resident women in Serbia. Libyan Journal of Medicine. Volume 14(1), Dec 2019.

- **Drah, M. M.**, Lahmer, R. A., & Yunita, D. (2023, May). Study of sewage wells' contamination with intestinal bacteria in the city of Misurata, Libya. In *IOP Conference Series: Earth and Environmental Science* (Vol. 1183, No. 1, p. 012068). IOP Publishing.
  
- Asma A. Abudabbous, Ehsan M. Idris, Afaf M. Aburwais, Halima A. Haded, Eman M. Kerwad, Fatima A. Aldeeb, Hajer M. Elshibani, Fatima A. Abulsharud & **Mustafa M. Drah** . Detection of *MUTYH* gene mutations in hereditary colorectal cancer Libyan families. Scientific Journal for the Faculty of Science-Sirte University Vol. 3, No. 2 (2023) 162-166