



**University of Tripoli**  
Faculty of Medicine  
Department of Histology and genetics  
Tripoli, Libya

## *Curriculum Vitae (CV)*

### ***Abdul Hakim Elnfati, PhD***

Assistant professor of Molecular Embryology  
( Epigenetics, Genetics and proteoms)

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### **Academic Qualifications:**

- Oct – 2102 PhD in Molecular Embryology, School of Medicine, University of Leeds, Leeds, UK.
- Sep – 2005 MSc in Molecular and Analytical Toxicology, Faculty of Medicine, University of Jordan, Amman, Jordan.
- Mar –2002 MSc in Embryology, Zoology Department, Faculty of Science, University of Tripoli, Tripoli, Libya.
- Jul – 1994 BSc in Zoology, Zoology Department, Faculty of Science, University of Tripoli, Tripoli, Libya.
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### **Research of Interest:**

- Epigenetics of germ cells development ( spermatogenesis and oogenesis), and its role on early embryo development ( zygote to blastula).
  - Transgenerational effects of bisphenol free plastic on histogenesis of testis, ovary and brain.
  - *In silico* analysis, molecular landscape of epigenetic factors on the chromatin of spermatogenic cells.
  - Improving in vitro fertilization, and embryonic cell culture with local fertility clinic.
  - The role of molecular and genetic factors of germ cells ( sperm and oocyte) on male and female infertility among Libyan population.
  - Fertility/ infertility data analysis of Libyan population (distribution and causes).
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## Academic teaching skills certificates:

- Sep 24– oct 4, 2017 Teaching & Learning in Higher Education Module, University of Southampton, Southampton, UK
- 2010-2011 Academic teaching diploma courses, University of Leeds, Leeds, UK
- Course 1:"Demonstrating and Teaching in Labs."
  - Course 2: "Assessing Student Work."
  - Course 3:"Evaluating and Developing Your Own Teaching."
  - Course 4: "Learning &Teaching in Lectures."
  - Course 5: "Learning &Teaching in Tutorials, Seminars
  - Course 6: "Understanding Student Learning."
  - Course 7: "Working with Student Diversity".
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## Laboratory skills certificates and positions:

June- 2020	Manger of yashfeen Fertility and genetics center.
Apr-2018	IVF lab manger of yashfeen Fertility and genetics center.
Oct - 2011	Cell Culture Techniques, at XCellR8 Ltd, Core Technology Facility, Manchester, UK.
Nov - 2009	Working with genetic modified materials, University of Leeds, Uk.
Oct - 2009	Experimental animal housing, University of Leeds, UK.
Sep - 2004	Human Assisted reproduction techniques (In vitro vertilization, ICSI, Embryo culture, Embryonic cells manipulation ). Al-Hashimia University, Jordan.

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## Scientific Laboratory skills:

- **Tissue culture and cells manipulation:**
  - In vitro fertilization.
  - Oocyte in vitro maturation.
  - Embryonic cells manipulation and culture.
  - Gametes and Embryonic cells cryopreservation.
  - Tissue culture lab quality control management.
  - Working with embryonic cells of experimental models( bovine, mice, and Drosophila), and human.
- **Histology techniques:**

- Tissue processing, staining and assessment.
  - Immunocytochemistry.
  - Immunohistochemistry.
  
  - **Molecular biology techniques:**
    - DNA and RNA extraction and quality assessment.
    - Cellular protein extraction and profiling.
    - Chromatin immunoprecipitation (CHIP on chip technique).
    - Protein immunoprecipitation.
    - Western blot techniques.
    - Fluorescence in situ hybridization (**FISH**) technique
    - The enzyme-linked immunosorbent assay (**ELISA**)
  - **Bioinformatic analysis**
    - Good experience of dealing with main sources of molecular and cellular databases : USCS genome browser, Biomart, ensemble etc.
    - Micro array data analysis.
    - Gene ontology
    - RNA and protein profiling tools
    - Motifs binding site characterization
    - R commander programming.
    - SNP data analysis.
    - Galaxy tools for epigenetics.
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### **Taught courses:**

- General Embryology.
  - Experimental Embryology.
  - Forensic Toxicology.
  - Histology and genetics.
  - Molecular Biology of sperm and oocyte.(M.Sc)
  - Research Methodology and scientific writing (M.Sc)
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### **Current M.Sc students projects:**

- The role of ROS on hormones disruption infertile Libyan women.
- The role of reactive oxygen species on sperm nucleus abnormality and DNA fragmentation among Libyan infertile men.
- The effects of semen oxidation stress biomarkers on sperm acrosome quality.
- The effects of water pollution on fish fertility and gonads quality in Tripoli seaside.

- The impact of antioxidant capacity on oocyte quality within IVF Libyan cases.
  - The Effects of Black Seed (Nigella sativa L.) Oil Extract on Sperm Parameters and Testicular Architecture of Aged Mice.
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### **International cooperation:**

- Secondary Proposer of Integrating Mediterranean and Eastern European Biobanking in European Science project. (COST association – European Cooperation in Science and Technology).
  - Member of David miller lab teams (University of Leeds, UK).
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### **Scientific Societies membership :**

- The Society for Reproduction and Fertility (SRF), UK, 2009- present.
  - British Andrology Society (BAS), UK, 2009 – present.
  - Middle east Fertility society
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### **The activities inside the university:** (النشاطات داخل الجامعة )

- المشاركة في اعداد مقترح انشاء شعبة علوم الاحياء الجنائية وعضو اللجنة المؤسسة للشعبة بقسم علم الحيوان, 2013.
- منسق لجنة الجودة بقسم علم الحيوان وعضو لجنة الجودة بكلية العلوم , 2013-2018 .
- عضو لجنة انشاء المختبرات البيولوجية بمركز البحوث والاستشارات والتدريب بجامعة طرابلس , ربيع 2015 .
- عضو لجنة الدراسة و الامتحانات بقسم علم الحيوان, ربيع 2015- ربيع 2016.
- عضومؤسس لجنة التصنيف الدولي لجامعة طرابلس, 2016- 2018
- مدير مكلف لمكتب الجودة بجامعة طرابلس , سبتمبر 2017 .
- عضو ومقرر اللجنة العلمية الخاصة بندوات احتفالية الذكرى الستين لتأسيس جامعة طرابلس. 2017-2018
- منسق الفريق البحثي الخاص بتقييم الخصوبة في المجتمع الليبي بالمركز الوطني لمكافحة الامراض 2018 .
- عضو لجنة التدقيق الداخلي بكلية العلوم 2018.
- دورة التدقيق و اعتماد الجامعات ( المركز الوطني للجودة و الاعتماد) 2018.
- رئيس قسم اعتماد الشهادات بجامعة طرابلس (2019).
- منسق الدراسات العليا بقسم الانسجة و الوراثة بكلية الطب جامعة طرابلس ( 2019).

- رئيس قسم الانسجة و الوراثة بكلية الطب جامعة طرابلس (2020).
- عضو لجنة الاعتماد المحلي و الدولي لكلية الطب جامعة طرابلس (2020).
- عضو لجنة التخطيط الاستراتيجي لكلية الطب جامعة طرابلس (2020).
- عضو لجنة إعداد ميزانية كلية الطب بجامعة طرابلس (2020 – 2021).

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Conference/ workshops/ symposiums/ presentations

Jan 2020	Merck, infertility symposium, Cairo, Egypte.
Oct 2019	Attendance, annual conference of Middle east Fertility society, Cairo , Egypte.
May 2018	Presenter, Preparation of new academic programs, Faculty of Science, University of Tripoli.
Apr 2018	Presenter, Post graduate study challenges, University of Tripoli.

Dec 2017	Presenter, The Fertility, between science, lifestyle and politics, Faculty of science, University Of Tripoli.
Apr 2017	Presenter, University of Tripoli international Rankings, Presidency University, University of Tripoli.
Sep 2016	Presenter, Conflict of interest, Faculty of Science, Academy of higher studies, Tripoli, Libya.
Apr 2016	Presenter, Conflict of interest, Faculty of Science, University of Tripoli, Tripoli, Libya.
Jun 2015	Presenter, Vitamin D and its Relationship to infertility, Faculty of Science, University of Tripoli, Tripoli, Libya.
Jul 2013	Attendance, Establishment of Libyan Cancer Genomic Research Program (CGRP), at Biotechnology Research Centre (BTRC), Tripoli, Libya.
Apr 2013	Poster, The 6th National Conference of Biotechnology Research Centre (BTRC), Musrata, Libya.
Sep 2013	Presenter, 5th Florence-Utah Symposium on Genetics of Male Infertility, Italy.
Sep 2012	Presenter, British Andrology Society Annual General Meeting, University of Bradford.
Jun 2011	Poster, Symposium, The Society for Reproduction and Fertility (SRF), University of Edinburgh.
Apr 2010	Presenter, The LIGHT Postgraduate Symposium, University of Leeds.
Jun 2010	Attendance, Symposium, The Society for Reproduction and Fertility (SRF), University of Nottingham.

Apr 2010	Poster, The LIGHT Postgraduate Symposium, University of Leeds
Jun 2009	Attendance, Symposium, The Society for Reproduction and Fertility (SRF), University of Cambridge

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## Journal Publications

Mohamed A Al-Griw, Rabia O Alghazeer, Naser M Salama, Bashir A Lwaleed, Areej A. Eskandrani, Wafa S Alansari, Afnan M Alnajeebi, Nouf A Babteen, Ghalia Shamlan, Abdul Hakim Elnfati. (2021). Paternal bisphenol A exposure induces testis and sperm pathologies in mice offspring: Possibly due to oxidative stress?. *Saudi Journal of Biological Sciences* 28 (1), 948-955

R Alghazeer, S Elgahmasi, B Aljazzaf, WS Alansari, M Al-Griw, M Sidati, A. Elnfati (2020). Investigation Of The Potential Anti-Fertility Activity Of *Arbutus Pavarii* In Male Mice. *Acta Poloniae Pharmaceutica* 77 (5), 725-735.

Rabia Alghazeer, Sana Elgahmasi, Abdul Elnfati, Mohamed Elhensheri, Mohamed Al-Griw, Nuri Awayn, Mariuma El- Nami: *Antioxidant Activity and Hepatoprotective Potential of Flavonoids from Arbutus pavarii against CCl4 Induced Hepatic Damage*. DOI:10.9734/BJI/2018/39528

Elnfati, A.H, David Iles, David Miller: *Nucleosomal chromatin in the mature sperm of Drosophila melanogaster*. *Genomics Data* 12/2016; 7(C)., DOI:10.1016/j.gdata.2016.12.021

Elnfati, A.H. and Al-Griw, M.A. (2015). Possible Developmental Epigenetic Interaction Between Motifs and Histones of Human Sperm. Part I: Identification of Motifs Sequence Within Histones Enriched Chromatin. *Journal of Basic and Applied Sciences*. 21(1): 1-10.

Mohamed A Al-Griw, Massaud S Maamar, Naser M Salama, Lubna N Algadi, Abdul Hakim, S Elnfati, Emad M Bennour: *Maternal Exposure of Mouse to Low-Dose of Trichloroethane is Associated with Increased Birth Weight and Early Neonatal Neurobehavioral Abnormalities*.

Mohamed A. Al-Griw, NM Salama, SA Treesh, LN Algadi, AH Elnfati: *Cell Death in Mouse Brain following Early Exposure to Trichloroethane (TCE)*. *International Journal of Advanced Research* 05/2015; 3(6):1424-1430.

M A Al-Griw, S A Al-Azreg, E M Bennour, S A M El-Mahgiubi, A R Al-Attar, N M Salama, A Elnfati, Abdul Hakim Elnfati: *Fertility and Reproductive Outcome in Mice Following Trichloroethane (TCE) Exposure*.

Mohamed A Al-Griw, Naser M Salama, Soad A Treesh, Abdul Hakim Elnfati, Abdul Hakim: *Transgenerational Genetic Effect of Trichloroethane (TCE) on Phenotypic Variation of Acrosomal Proteolytic Enzyme and Male Infertility Risk*. DOI:10.11648/j.ijgg.20150305.11

Mohamed A Al-Griw, Abdul Hakim, S Elnfati, Monir M Ali: *Gene Delivery Using Adenoviral Vector into the Organotypic Culture System of the Chick Retinae.*

Myriam Saida, David Iles, Abdul Elnfati, Martin Brinkworth, David Miller: *Key gene regulatory sequences with distinctive ontological signatures associate with differentially endonuclease-accessible mouse sperm chromatin.* *Reproduction* 04/2011; 142(1):73-86., DOI:10.1530/REP-10-0536