

CURRICULUM VITAE

:: DR. Ebtessam Hassan Omar Nafie ::

Personal Details

Name : Ebtessam Nafie
Date of birth: July 17th, 1983
Marital Status : Married
Nationality : Egyptian

Current position

Assistant professor
Zoology department
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:: ACADEMIC EDUCATION ::

1. Ph.D. (2013)

Major: Molecular Biology (Zoology) Ph.D of Philosophy of Sciences (Molecular Biology)

Thesis Title: Probable studies of genotoxic effect of some anticancer drugs and protected action of natural product in mice chromosomes.

Benha University, Egypt.

2. M.Sc. (2009)

Major: Molecular Biology (Zoology).

Thesis Title: Effects of certain contaminated food on some biological aspects of a fresh water fish.

Benha University, Egypt.

3. POST Graduate Diploma. (2005)

Major: (Molecular Biology).

Benha University, Egypt.

4. B.Sc. (2004)

BACHELOR OF SCIENCES ,Excellent with First Class Honour

Major: Biology (zoology).

Benha University, Egypt.

:: ACADEMIC POSITIONS ::

- July 2013- : Lecturer (Assistant Professor) at Zoology Department, Faculty of Sciences, Benha University, Benha, EGYPT.
- Jan 2010– May 2013 : Doctoral student and Teaching assistant at Zoology Department, Faculty of Sciences, Benha University, Benha, EGYPT.
- 2005-2009 : M. Sc. student and Demonstrator at Zoology Department Benha University, Benha, EGYPT.
- 2004-2009 : Demonstrator at Zoology Department, Faculty of Sciences, Benha University, Benha, EGYPT.

:: RESEARCH INTERESTS ::

My research interests focus on Molecular biology, Cancer Biology and cytogenetic. The primary goal of my current research is to attempt to make BCSCs (Breast Cancer stem cells) susceptible to chemotherapy, thus we could avoid tumour recurrence and save thousands of lives.

We are working in this project to achieve the following:

- ◆ **Isolation and characterization of BCSCs.**
- ◆ **Identification of genes responsible for BCSCs drug resistance in the Egyptian population.**
- ◆ **Sensitizing BCSCs to chemotherapy (Using RNAi technologies to knockdown the expression of the selected genes).**

While, in my Ph.D, I studied the genotoxic effect of some anticancer drugs(Methotrexate , Endoxan) and protected action of of natural product (Omega-3 Plus, Apple and psyllium) in mice. Conducting such a project has given me a strong experience of Cancer Biology, Cytogenetics and Molecular biology. As well as a wide range of skills in chromosome extraction, DNA extraction , measuring DNA damage, PCR, Haematology and biochemical analysis.

:: Core Qualification ::

- DNA Extraction
- Bacterial Culture
- Tissue preparations, and histochemical techniques
- RT-PCR
- Chromosome extraction
- SDS-PAGE Protein Electrophoresis
- Microbiology techniques

- Anatomy
- Spectrophotometer
- Food Processing and quality of product.
- Product sampling
- FPLC, and Size exclusion chromatography
- Haematology
- Tissue Culture for different human cell lines.
- Biochemical analysis.
- Blood analysis (Count RBCs, identify WBCs)
- Urine analysis.
- Microsoft Office.
- Working knowledge Programs of
- Statistics like SPSS
- R programing experience ([certificate](#))

:: THESIS/ DISSERTATION ::

Master dissertation:

- **Title:** Effects of certain contaminated food on molecular biological aspects of Tilapia fish.
- **Aim:** My master degree aimed to Study the effects of contaminated food with heavy metals (Cu or Cd or Cu and Cd) on Nile tilapia (*Oreochromis niloticus*):
- ◆ Shedding lights over the problem of metal- contaminated diet.
- ◆ Investigate the effect of contaminated diet on the total protein content in muscle and blood plasma, plasma albumin and globulin.
- ◆ Clarify the effect of contaminated diet on genetic metals by estimating the rate of chromosome aberrations.
- ◆ Investigate the effect of contaminated diet on Protein electrophoresis of epiaxial muscle.
- ◆ Clarify the effect of contaminated diet on NADH dehydrogenase gene using PCR-RFLPs technique.

PhD dissertation:

- **Title:** Probable studies of genotoxic effect of some anticancer drugs and protected action of natural product in mice chromosomes.
- **Aim:** My Ph.D degree aimed to evaluate the following:-
- ◆ The side effect of Methotrexate on chromosomes, sperms by Cytogenetic methods and DNA by molecular methods.
- ◆ The side effect of Endoxan on chromosomes, sperms by Cytogenetic methods and DNA by molecular methods.
- ◆ The protective role of Omega-3 Plus against Methotrexate and Endoxan.
- ◆ The protective role of Apple against Methotrexate and Endoxan.
- ◆ The protective role of Psyllium against Methotrexate and Endoxan.

:: EXPERIENCE ::

Lab Instructor/Teaching Assistant

December 2004 -2009.

Benha University

- Provided instruction to students in discussion periods, tutorials, labs or lectures.
- Marked student examinations, tests, and assignments under the direction of the course instructors.
- Invigilated examinations.
- Provided academic assistance to students during office hours.
- Assisted with teaching courses under the supervision of faculty.
- Teaching courses for undergraduate students.

Lecturer/Assistant Professor

July 2013-till now

Lecturer of Molecular Biology, Molecular Genetics in the department of Zoology, Faculty of Sciences, University of Benha, Egypt.

- Teaching the molecular biology courses, Genetics Courses, Cytogenetic , Cell biology , Cancer biology and Applied Biology to the undergraduate students.
- Supervise the Lab working and training the teaching members as demonstrators and teaching assistants to find the best way to teach undergraduate students.
- Marked student examinations, tests, and assignments under the direction of the course instructors.
- Supervising postgraduate students.
- Supervising two master students, who are doing research in Molecular Biology and Cytogenetics.

:: FELLOWSHIPS AND AWARDS ::

- Excellent BSc with First Class Honour, 2004, Benha University, Egypt.
- MSc Scholarship to get Master Degree, 2005-2009 Benha University, Egypt
- Graduate student award to do research for 4 months, 2006, Menoufiya University, Egypt.
- Graduate student award to do research for 4 month, 2007, National Center for Research, Egypt.
- PHD Scholarship to get PHD Degree, 2010-2013 Benha University, Egypt.
- Post-Doctor scholarship in (Florida State University, USA) from the cultural affairs & mission sector of Egyptian Government.

:: PUBLICATIONS ::

Nafie, Ebtesam. H.O.; Zowail, M.E.M. Sabry S. El-Serafy, M.E.M.; Awwad, and Abdel-Hamid, N.A.H. (Master 2009): Effects of certain contaminated food on some biological aspects of a fresh water fish.

Nafie, Ebtesam. H.O.Zowail, M.E.M.; Awwad, M.H.; Khater, E.H. and (2013): Probable studies of genotoxic effect of some anticancer drugs and protected action of natural product in mice chromosomes. (May 2013 Ph.D thesis, Faculty of Sciences, Benha University, Egypt).

Zowail, M.E.M.; Awwad, M.H.; Khater, E.H. and Nafie, Ebtesam. H.O. (2013): Administration of Three Natural Products as Protective Agents Against The Genotoxic And Cytotoxic Effect of Methotrexate in Mice (Mus Musculus). [The Egyptian Journal of Hospital Medicine \(Jan. 2013\) Vol. 50 , Page 78 – 102.](#)

Nafie, Ebtesam. H.O.; Awwad, M.H.; Khater, E.H. and Zowail, M.E.M. (2013): The protective effect of dietary supplements against the cytogenotoxic effect of cyclophamide in mice(mus musculus). [Journal of International Academic Research for Multidisciplinary \(Oct.2013\) Vol.1,Issue\(9\), page \(211-231\).](#)

Sabry S. El-Serafy, Mohamed E. Zowail, Nassr-Allah H. Abdel-Hameid1, Mohamed H. Awwad, Ebtesam H. O.Nafie.(2013): Effect of Dietborne Cu and Cd on Body Indices of Nile Tilapia (Oreochromis niloticus) with Emphasis on Protein Pattern. [Turkish Journal of Fisheries and Aquatic Sciences 13: 593-602 \(2013\).](#)

:: ACADEMIC TEACHING ::

Undergraduate Courses:

- 1-Molecular Biology
- 2-Advanced Molecular Genetics.
- 3-Cytogenetics
- 4-Animal Taxonomy
- 5-Histology
- 6-Gene Regulation

Graduate Supervision:

- 1-DNA extraction.
- 2-RNA extraction.
- 3-PCR reaction.
- 4-Chromosome extraction.
- 5-Karyotyping for chromosome.
- 6-Chromosome aberration.
- 7-sperm abnormalities
- 8-Biological analysis
- 9-Statistical Analysis
- 10- Tissue Culture for different human cell lines.

:: CONFERENCES AND SCHOOLS ATTENDED ::

Feb 2014: The 1st Annual Conference of The Center of Excellence in Cancer Research (CECR)(Next Generation Cancer Research and Diagnosis).Tanta, Egypt. 24 Feb 2014.

April 2014: BioVision Alexandria.Alexandria, Egypt.7-9 April 2014.

:: TALKS AT CONFERENCES AND SEMINARS::

- **Cytology and Molecular Biology: Effects of certain contaminated food on molecular biological aspects of Tilapia fish. Presentation for reviewer, Zoology department, Faculty of Sciences, Benha University, August, 9, 2009.**
- **Toxicology and Molecular Biology: Comparison of chromosomal aberrations and mutation of NADH dehydrogenase gene in Tilapia fish under dietary copper and cadmium exposure. Presentation for Benha University Journal Club, Zoology department, Faculty of Sciences, Benha University, October,8, 2011.**
- **Cytology and Molecular Biology: Probable studies of genotoxic effect of some anticancer drugs and protected action of natural product in mice chromosomes. Presentation for reviewer, Zoology department, Faculty of Sciences, Benha University, May, 27, 2013.**

:: MEMBERSHIP/ SCHOLARLY SOCIETIES ::

- Benha Faculty Members Club.
- Egyptian Scientists Union
- Referee in African Journal of Biotechnology.

References are available upon request