

Ahmed Mostafa Ata

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Address: 195A Hadayek El Ahram – Khofo gate
Military status: Exempted

Education

June 2017 **M.Sc. in Biochemistry**

Faculty of Science – Cairo University

Thesis title “**Role of stem cell in delaying induced apoptosis and function loss of retinal photoreceptor cell in rabbits by argon laser as a model of retinitis pigmentosa**”

2007 – 2011 **B.Sc. in Chemistry/Biochemistry GPA: 3.5 / 5 (Excellent with honour grade)**

Faculty of Science – Cairo University

Career History

2012 – Present **Biochemist** at Biochemistry and Pharmacology unit at
Research Institute of Ophthalmology

2018 – Present **Biochemist** at Stem cell laboratory – Cornea Unit at
Research Institute of Ophthalmology

2013 – 2014 **Working as a chemist** at NSA Diagnostic laboratory

Professional Experience

Teaching Experience

Organize and working as an instructor in an annual workshop for undergraduate students and young researchers, held theoretical lectures and laboratory hands-on sessions.

Duties and professional skills

- Conducting laboratory techniques and experiments for identification of different Biochemical parameters by (Spectrophotometric and ELISA methods).
- Separation of serum and tissue proteins by gel electrophoresis.
- Dealing with experimental animals (drugs and stem cells injection, anaesthesia and blood sampling) and eye dissection for isolation of different tissues.
- Writing manuscripts and research protocols.
- Isolation, expansion and identification of Mesenchymal stem cells from experimental animals' bone marrow, adipose tissue and peripheral blood.
- Isolation and expansion of limbal stem cells from human limbal tissue.
- Performing Statistical analyses by using SPSS software and Microsoft excel.

- Research Projects**
- Evaluation of In-Situ Hydro-gel as a Topical Ocular Drug Delivery System for controlling Experimentally Induced Models of Diseases of the Anterior Segment
 - Chemical and Pharmacological chaperones: A potential therapeutic strategy for diabetic ocular complications.
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 - Risk of Exposure to Environmental Pollution of Calcium Dust on Cataract in Helwan Cement Company.
 - Isolation and expansion of ex-vivo limbal stem cells for treating corneal wound by generating new epithelial corneal layer.

Speaker at Conferences

- May 2016** Presented a research poster at the Biochemistry and Molecular biology society conference, Ain Shams University, Cairo –Egypt
entitled **“A new strategy therapy for retinitis pigmentosa induced by argon laser in rabbits by adult stem cells”** – low dose
- Sept. 2016** Held an oral and technical presentation at the 18th International Conference on Stem Cells and Regenerative Medicine held by World Academy of Science Engineering and Technology , Dubai-UAE
entitled **“A strategy therapy for retinitis pigmentosa induced by argon laser in rabbits by adult stem cells”** – high dose
- Feb. 2018** Held an oral and technical presentation at the 6th international conference of the Arab Society for Medical Research (ASMR) – Luxor – Egypt
“Biochemical changes and oxidative stress associated with cataract in Egyptians”

- Publications**
- **“Potential prophylactic effect of chemical chaperones for alleviation of endoplasmic reticulum stress in experimental diabetic cataract”**
at *Bulletin of the National Research Centre journal*, April 2019.
 - **“Effects of 4-phenylbutyric acid on the development of diabetic retinopathy in diabetic rats: Regulation of endoplasmic reticulum stress-oxidative activation”**
At *Archives of Physiology and Biochemistry journal*, February 2021.

Under peer review Publication **“A Potential Treatment for Retinitis Pigmentosa by Using Three Million Dose of Mesenchymal Stem cells In Male Rabbit Model”**

Internship and Training

- Feb 2019** **Hands-on Flow Cytometer techniques workshop**
Held and organized by Global centre for Scientific Research
- Dec. 2018** **Stem Cell, Tissue culture, isolation & Characterization Workshop**
Held and organized by Nile centre for Experimental Research
Accredited by USA Embassy in Egypt.
- May 2013** **HCV Workshop** presented by “**Prof.Dr. George Wu**” sponsored by
National Research Centre and FULBRIGHT commission
- Mar 2013** **Stem cells Workshop** at “Medical Biochemistry and Molecular Biology
department ,Kasr el Aini " Faculty of Medicine – Cairo University

Other Skills

- Computer Skills* ICDL Certificate
Graphics certificate in Photoshop, corel draw, free hand
- Language Skills* Arabic (Native)
English Cambridge Certificate (Conversation level 3 of 4 levels)
TOEFL international IBT score 88

References

Upon requested