

## Hadeer Al-Mulla

6<sup>th</sup> October City – Giza, Egypt

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### Education

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**Master student – Institute of Chemistry – Saint Petersburg State University** (Present)

"Interdepartmental Laboratory of Biomedical Chemistry "

**Bachelor's Degree - Faculty of Pharmacy & Pharmaceutical Science -** (July 2016)  
**Ahram Canadian University, Giza, Egypt.**

- Accumulative GPA: 3.236 UK standard, With a General Grade " Very Good "

**Final year graduation project:** Application of Biosensors

Graded: excellent, Under supervision Prof. Dr. Rania Shebl, Microbiology and Immunology Department.

- We prepared an analytical device (Biosensor), which incorporates a biological sensing element integrated within a physicochemical transducer.
- The characterization, biosensor is to produce an electronic signal, which is proportional to the interaction of analytes with the sensing element.
- The effect of sensor is investigated from detection of analytes label-free, by transform molecular interaction into digital signal.
- Biosensors recommended their application in detection of analytical ranging from small drug molecules to food- and waterborne microorganism as well as biowarfare pathogen

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### Employment History

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**Quality Assurance Specialist:** (April 2018 – August 2018)

*Sigma Tec Pharmaceutical Industries – Quality Assurance Department (In Process Control)*

**Pharmacist at Ministry of Health:** (November 2017 – August 2018)

*Ministry of Health – Sinehwa Hospital*

**Volunteer Research Assistant:** (June 2017 – September 2017)

*Zewail City of Science and Technology – Center for Aging and Associated Diseases (CAAD)*

Designing an experimental setup for the treatment of glioblastoma cells with Nicotine:

- Trained on Cell Culture Experiments
    - Culturing, passaging, and cryo-preservation of adherent cells using different cell types treated and untreated with Nicotine
  - RNA Extraction of the adherent cells using Trizol
  - Detection of the RNA Extraction using FLUO star Omega Plate reader
  - Trained on Reverse transcription polymerase chain reaction (RT-PCR)
  - Trained on agarose gel electrophoresis (using agarose gel equipment)
    - Using device that has UV light, visualize DNA fragments
  - Trained on Q-PCR (Real time-PCR)
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