



Curriculum Vitae

PERSONAL INFORMATION

First name: Shaimaa moustafa mahdye Mohamed

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Professional title: Lecturer

HOME INSTITUTION: Biological application Department-Nuclear Research Center- Atomic Energy Authority Egypt.

EDUCATIONAL QUALIFICATIONS

1-PHD degree of science (Biochemistry): Zagazig University, Faculty of Science, Chemistry department.

Thesis title: The Therapeutic Effect of Radiation and Some Different Factors on Wound Healing in Diabetic Albino Rats, Year: 2017

2-Master degree of science (Biochemistry): Zagazig University, Faculty of Science, Chemistry department.

Thesis title: The Effect of Some Mineral Salts in Water on Nephrotoxicity Induced by Ethylene Glycol in Adult Male Albino Rats. Year: 2014

Research experience:

- 1-Measuring plasma dose in lab.
- 2-Using plasma jet in Sterilization.
- 3-Acceleration of blood coagulation by non-thermal plasma jet.
- 4-Generation of plasma activated water (PAW).
- 5-Using of PAW in different biomedical applications.
- 6-Optimization of non-thermal plasma factors for accelerating wound Healing.
- 7- Rats models, Electrophoreses, Histology and histochemistry
- 8-Diabetic models, wounded models and Plant extraction with different methods
- 9-Isolation of microorganismes form different wounds
- 10-Induction of diabetes and nephrotoxicity in albino rats.
- 11-Optimization of different treatments on diabetic wound healing.
- 12-Studying the effect of minerals salts in water to protect kidney from nephrotoxicity.

Scientific publications:

- 1-Shaimaa M.Eldeighdy (2017):** The Therapeutic effect of radiation and some different factors on wound healing in diabetic albino rats. A thesis submitted to the University of Zagzag,faculty of Science for the PHD in Biochemistry
- 2- Sh. M. Eldeighdy, Kamal M. Ahmed, T. M. Allam, W. F.Hassanin, (2018):** "Power Density Measurements to Optimize AC Plasma Jet Operation in Blood Coagulation", (j. Australasian physical &Engineering Sciences in Medicine (2018).
- 3- Shaimaa M. Eldeighdye, Tarek M. Allam and Hanaa A. El- sayed,(2020): Non-thermal plasma applications:** Impact of non-thermal plasma treated water on some biological functions in albino rats, World Journal of Pharmacy and Pharmaceutical Sciences, vol. 9, no. 9, 2020, pp. DoI: 10.20959/ wjpps 202010-1717, 1-17.
- 4- Shaimaa M. Eldeighdye, Tarek M. Allam and Hanaa A. El- sayed,(2020):** Non-thermal plasma applications: Effect of alkaline water on calcium oxalate stones induced in male albino rats. European Journal of Biomedical and Pharmaceutical sciences,(7),298-306.
- 5- Shaimaa M. Eldeighdye, Abdel-Khalek L.G., Taha M.S., T. M. Allam. (2016):** The Therapeutic Effect of Purslane (PORTULACA OLERACEA) Extract on Wound Healing in Diabetic Albino Rats. World Journal of Pharmacy and Pharmaceutical Sciences (5), 1454-1469.
- 6- Shaimaa M. Eldeighdye, Abdel-Khalek L.G., Taha M.S., T. M. Allam. (2016):** Role of Purslane (PORTULACA OLERACEA) in the wound healing and its impact on biochemical paramters in diabetic albino rats. International journal of biology, pharmacy and allied sciences 5 (7).
- 7- Sh. M. Eldeighdy, K. M. Ahmed, T. M. Allam, W. F. Hassanin, ,** "Bacterial Inactivation using Air Atmospheric Non-Thermal Plasma Jet to accelerate diabetic wound healing ", to be published
- 8- Shaimaa M. Eldeighdye, Abdel-Khalek L.G., Taha M.S., T. M. Allam.,** "Accelerated Wound Healing by Air non-Thermal Plasma Jet of Diabetic Albino Rats", to be published.
- 9- Shaimaa M. Eldeighdy, K. M. Ahmed, T. M. Allam, W. F. Hassanin, ,** "Bacterial Inactivation using Air Atmospheric Non-Thermal Plasma Jet to accelerate diabetic wound healing ", to be published
- 10- Shaimaa M. Eldeighdye, Abdel-Khalek L.G., Taha M.S., T. M. Allam.,** Accelerated Wound Healing by Air non-Thermal Plasma Jet of Diabetic Albino Rats, to be published.
- 11-Shaimaa M. Eldeighdye, Tarek M. Allam, Hanaa A. El- sayed, and Kamal M. Ahmed,** "Effect of air plasma on human hepatocellular carcinoma (HepG2) and normal liver (THLE2) cells", to be published.
- 12- Shaimaa M., Eldeighdy (2014):** The Effect of Some Mineral Salts in Water on Nephrotoxicity Induced by Ethylene Glycol in Adult Male Albino Rats, Faculty of science at chemistry Department. Zagzig University- Egypt

Current research interests:

- 1-Using PAW in cancer treatments.**
- 2-Using non-thermal plasma in treatment of bleeding**
- 3- Detection of the main active species of non-thermal plasma and the role of each species**
- 4-Detection the side effects of non-thermal plasma direct treatment .**
- 5-The molecular effects of non-thermal plasma on animal models during long run treatments.**
- 6-Detailed studies on the use of cold plasma in some biological applications**
- 7--Study the production of cold plasma activated water for use in medical applications**
- 8--Study the the effect of cold plasma on sterilization**
- 9--Study the development of the use of cold plasma in the treatment of wounds**
- 10-The use of cold plasma in the treatment of some types of cancer**
- 11-Employing plasma properties in medical and therapeutic fields**

Training courses and Workshops:

- 1-Using radiation sources, radioactive materials and protection from the dangers of ionizing radiations (college level) at the Egyptian Atomic Energy Authority (EAEA) in 2015.
- 2-The radiological applications for the chromatographic analysis (Basics-Types-Applications) at Zagizag unviersity in 2008.
- 3-Applications of Genetic Engineering, Biotechnology and Radioactive Isotopes in the Fields of Biology at Zagizag unviersity at 2011
- 4- Practical Application of Medical Laboratory Investigations at the Medical Training Department in Zagizige Teaching Hospital in 2011.

Conferences :

- 1-Attended the International Conference of Biotechnology and environmental safety held at national research center, Giza, Egypt during 6 – 8 May 2014.
- 2-Attended 5th Plasma School 2020, Spring Plasma School at Port Said (SPSP)-March 2020.

Communication skills:

Good ability to communicate at different levels.

Successfully completed and attended a number of training programs and courses in the field of human development such as:

Development of thinking and managerial skills at the Center for advancement of postgraduate studies and research in bioinformatiques sciences, faculty of veterinary medicine, Zagizag university in 2015.

.Personal Attributes: Enjoy working in a team environment, taking on new challenges and learning new skills

Computer skills :

ICDL (International Computer Driving License) from faculty of sciencies zagziag univeristity.
Good knowledge of Word, Exel, Powerpoint and Spss.

Language skills :

Arabic : Mother language

English : Very good written and spoken English

Passed toeful test with grade 606

French : fair

References are furnished upon requests