Saeb Aliwaini

Personal Details

Full name: Saeb H. Aliwaini

Citizenship: Palestinian

Passport number: 2363738

Date of birth: 11.05.1975

Current Address: Al Bassa, Deer Al Balah, Gaza. Palestine

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Current Positions:

Title Head of Biology and Biotechnology Department, Faculty of Science, Islamic University of Gaza (2016- present).

Title: Assistant professor, Cell Biology.

Place/s: 1 - Department of Biology and Biotechnology, the Islamic University of Gaza.

2 - Faculty of Medicine, the Islamic University of Gaza.

3- Department of Laboratory Medical Science, Al Aqsa university-Gaza (part time).

Academic Qualifications

Ph.D., 2014, Cell Biology, University of Cape Town (UCT).

Thesis " *Identification and characterization of novel palladacycle, AJ-5, to treat advanced melanoma and breast cancer*".

MSc. 2006, Biological Sciences, Islamic University of Gaza (*graded as %92.3)*.

Thesis *"A Study on the Effect of Some Plant Extracts on Certain Malignant Cell Lines in Vitro*".

The Master degree also involved post-graduate courses in: *Molecular Biology of the cell, Advanced Physiology of nervous system muscles, and sense organs, Biochemistry, Physiology of Respiration and Excretion, Endocrinology, Biostatistics, Immunology, Pharmacology, Animal Diseases and Animal nutrition.*

Higher diploma. 2003, Physiology, Al-Aqsa University, Palestine.

B.S., 1999, Bachelor of Science, Islamic University of Gaza, Palestine.

Diploma. 1999, Medical Technology, College of Science and Technology, Palestine.

General Certificate Examination., **1994,** from AKKA Secondary School, Khan Younis Gaza.

Academic Experiences

- Currently: Assistant professor, Islamic University of Gaza.

2011-2013: Lecturer for 3rd years Medical students, Department of Human Biology University of Cape Town (UCT). During this period I taught *Molecular cell biology courses*.

2010-2012: Demonstrator for first and second years Medical students, Department of Human Biology UCT.

2006-2010: Lecturer in the Department of Biology, Islamic University of Gaza, Palestine. Teacher and supervisor of undergraduate students on various topics of Biology including *parasitology*, *General Biology, Human Physiology, Comparative animal Physiology, Tissue culture techniques, and Biochemistry.*

1999-2006: Teaching Assistant in the Department of Biology, the Islamic University of Gaza.

Managerial Experiences

- Currently: Head of Biology and Biotechnology Department, Islamic University of Gaza (2016-present).

- 2014 - 2016: Biological Science Master Program Coordinator, the Islamic University of Gaza.

- 2014-2015: Deputy Head of Biology and Biotechnology Department, the Islamic University of Gaza.

Teaching Experiences

-Graduate Courses

Cancer biology

Molecular cell biology

Animal tissue culture

-Undergraduate Course

Molecular biology of cancer for medical technology students

Molecular biology for second-year medical students.

Cancer biology and tissue culture for third and fourth –year biotechnology and biology students.

Research output

A- Full articles:

1- **Aliwaini, S**. (2017). TBX3 Role in Colorectal Cancer Treatment. IUG J. Nat. Stud., 25. http://journals.iugaza.edu.ps/index.php/IUGNS/article/view/2607/1812

2- **Aliwaini, S**., Dawas, S., Abu Tayem, H., Aljoujou, S., & Al-qatati, A. S. (2017). Combined Caffeine and Cisplatin Treatment Induces Synergistic Cytotoxicity in HeLa cell Line. IUG J. Nat. Stud., 25: 250–256. http://journals.iugaza.edu.ps/index.php/IUGNS/article/view/2602

3- Al-Qatati A. and **Aliwaini S**. Combined pitavastatin and dacarbazine treatment activates apoptosis and autophagy resulting in synergistic cytotoxicity in melanoma cells. Oncology Letters 2016. **(Accepted article).**

4- **Aliwaini S**, Bleloch J, Kimani S, Prince S. Chapter 12 – Induction of Autophagy and Apoptosis in Melanoma Treated With Palladacycle Complexes. Autophagy Cancer, Other Pathol. Inflammation, Immunity, Infect. Aging. 2016. p. 231–47. http://www.lehigh.edu/bio/Faculty/Falk/PDF/41Ch19_HayatAutophagy_052015_chapteronly.pdf

5- **Aliwaini S**. Alcohol induces chemo-resistance mechanisms in breast cancer cells. IUG, Second International Conference on the miracles of the Qur'an and prophetic Sunnah. 2016 http://scqs.iugaza.edu.ps/en

6- **Aliwaini S**, Lubbad AM. Anti-carcinogenic Effect of Roman nettle against chemical induced colon cancer in Sprague – Dawley Rats. IUG J. Nat. Stud. 2016; 24:1–6. http://journals.iugaza.edu.ps/index.php/IUGNS/article/viewFile/1952/1647

7- Kichaoui AY El, Ayesh BM, **Aliwaini S**. The use of some plant extracts as an alternative approaches for treatment of certain malignant cell lines. J. Med. plant Stud. 2016; 4:174–88. http://www.plantsjournal.com/archives/?year=2016&vol=4&issue=4&part=C&ArticleId=393

8- **Aliwaini S**, Peres J, Kröger WL, Blanckenberg A, de la Mare J, Edkins AL, et al. The palladacycle, AJ-5, exhibits anti-tumour and anti-cancer stem cell activity in breast cancer cells. Cancer Lett. Elsevier Ireland Ltd; 2015; 357:206–18. https://www.ncbi.nlm.nih.gov/pubmed/25444915

9- **Aliwaini S**, Swarts AJ, Blanckenberg A, Mapolie S, Prince S. A novel binuclear palladacycle complex inhibits melanoma growth in vitro and in vivo through apoptosis and autophagy. Biochem. Pharmacol. Elsevier Inc.; 2013; 86:1650–62. https://www.ncbi.nlm.nih.gov/pubmed/24099796

B- Abstracts

1- **Aliwaini S** and Aljoujou S. Anticancer properties of Saussurea lappa**.** The sixth international conference for science and development, Faculty of science, the Islamic university of Gaza.14-15March (2017).

2- **Aliwaini S** and Ghunaim M. Biological Evaluation of Novel Pyrazolotriazolopyrimidine Derivatives as Candidate of EGFR Inhibitors in Different Types of Cancer. The sixth international conference for science and development, Faculty of science, the Islamic university of Gaza.14-15March (2017)

3- Bleloch J, Ballim R, **Aliwaini S**, Mapolie S, Prince S. Investigating a novel binuclear palladacycle complex for anti-cancer activity in rhabdomyosarcoma cells. Eur. J. Cancer. Elsevier; 2016; 61:S138.
http://www.ejcancer.com/article/S0959-8049(16)61487-9/abstract

4- **Aliwaini S**, Mapolie S and Prince S. A novel binuclear palladacycle complex inhibits breast cancer, mechanism of action. The fifth international conference for science and development, Faculty of science, the Islamic university of Gaza.25-26Feb **(2014)**.

5- **Aliwaini** S, Mapolie S and Prince S. **(2013)**. A novel binuclear palladacycle complex inhibits melanoma growth through apoptosis and autophagy. Departments of Clinical Laboratory Sciences and Human Biology research day, University of Cape Town.

6- **Aliwaini S**, Mapolie S and Prince S. **(2013)**. A novel binuclear palladacycle complex inhibits melanoma growth in vitro and in vivo through apoptosis and autophagy. 18th Meeting of the European Society for Pigment Cell Research, Lisbon, Portugal (PE5).

7- **Oral presentation titled**: The mechanism by which a novel palladacycle AJ-5 exerts its anti-tumour activity in breast cancer cells involves apoptosis and autophagy, was presented at the international cell death conference "Metabolism of Cell Death: Its Ramifications for Therapeutics and Drug Development" June 29-July 1, **2012**, Singapore.

8- **Poster presentation titled**: Identification and characterization of a binuclear palladacycle complex (AJ-5) as a novel anti-cancer drug in the treatment of human breast cancer at SASBMB-FASBMB congress **2012**, South Africa.

9- UCT 4th Postgraduate Clinical Laboratory Sciences Research Day in September **2011**, where I was awarded the 2nd Prize for poster Presentation.

Research Grants

1- Medical Relief Grant for chronic diseases (2016-2017).

2- AdGenCouncil (Palestinian Universities Supporting Fund) Grant (2016-2017).

3- Interpal Research grant (2016-2017) for two master student projects.

4- Qatar charity Research Grant "Ibhath" for the following projects (2015-2017).

a- Identification of new targets for breast cancer diagnosis and therapy.

b- Design, Synthesis and Biological Evaluation of Novel Inhibitors Targeting EGFR in Breast and Lung Cancers.

c- New Approaches Towards Molecular Diagnosis of Type 2 Diabetes Mellitus.

Awards

1 -2nd Prize for poster presentation at the UCT CLS 4th Postgraduate Research Day in September 2011.

2- The Islamic University Research Grant for year 2008.

3- The Islamic University Research Grant for year 2005.

Supervision

PhD:

- Jenna Bleloch, *Anticancer Activity Of Palladium Based Compounds In Sarcoma*. 2015

Master:

- Rashaa Qishta: *Optimization of Breast Cancer Chemotherapy in Gaza Strip*.
- Maysoon Abu Mustafa: *Effect of Caffeine on Efficacy of Breast Cancer Chemotherapies*.
- Mariam Ghuniem: Biological evaluation of novel EGFR inhibitors in breast cancer cells.
- Husam Taiem: TBX3 role in Breast cancer progression and treatment.
- Eman Atallah; Tbx2 role in Breast cancer progression and treatment.

Bachelor:

- Salsabeel Aljojo and Sanabel Dawas, Cytotoxic activity of nettle extract on normal cells in comparison to cancer cells.

Professional Societies

Member of:

- International Cell Death Society.
- South African Society of Biochemistry and Molecular Biology (SASBMB).