

Dr. Fawzi Al-Razem's CV

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PREFACE

1. Teaching the following courses at Palestine Polytechnic University:
 - Molecular Biology
 - Biochemistry
2. Running active research program in the following areas:
 - Bacteriophage Isolation and phage therapy
 - Pathogen selection media development.
 - Antibody production using IgY
 - Cloning important genes and gene expression

PROFESSIONAL AND RESEARCH EXPERIENCE

1. **2021 to date.** Associate Professor, College of Medicine and Health Sciences, Palestine Polytechnic University.
2. **2019-2021.** Dean, College of Medicine & Health Sciences, Palestine Polytechnic University.
3. **2016-2019.** Dean, College of Applied Science, Palestine Polytechnic University.
4. **2009-2016.** Researcher at Palestine-Korea Research Center, Palestine Polytechnic University.
5. **2003-2008.** Post-doctoral Fellow. University of Manitoba, Canada.

UNIVERSITY EDUCATION

1. September 1999-April 2003. **Ph.D.** (Biochemistry), University of Western Ontario, London, Ontario, Canada.
2. September 1995-February 1998. **M.Sc.** (Biochemistry), University of Saskatchewan, Saskatoon, Canada.
3. September 1989-November 1993. **B.Sc.** (Biology), Department of Biology, Hebron University, West Bank, Palestine.

STUDENTS THESIS SUPERVISION

1. Total 6 MSc. thesis supervised (all single supervision) at Palestine Polytechnic University.
2. Total 25 undergraduate graduation projects supervised (15 single supervision) at Palestine Polytechnic University.
3. External and Internal MSc examination (total 8)

RESEARCH GRANTS AND AWARDS

1. **2020.** First Prize for the Best-Applied Research from Palestine Islamic Bank (\$2000).
2. **2020-2023.** Funds received from Global Ties-USA (\$261,000). This fund supports a project entitled: DM in the Agri-food Industries. Role: (Shared with Mr. Amjad Al-Natsheh (Director)).
3. **2019.** First Prize received from the "Palestine Higher Council for Innovation and Excellence" for Best Applied Health related research in Palestine (PI). (\$10,000)
4. **2019-2021.** Research grant received from the FAO (\$10,000). Developing diagnostic kits for aflatoxin. Role: (Director).
5. **2017.** First Prize for the Best Research Group from Palestine Islamic Bank (\$4000) (PI).
6. **Zuhair Hijjawi Award** for best student graduation projects (received 3 years for my students from 2016, 2017, 2018).
7. **Student Innovation prizes** for my students (6 prizes won from 2013-2018)

8. **2013-2016.** Quality Improvement Fund (QIF) (\$250,000) from the World Bank. This fund supports a project entitled: Increasing student employability and entrepreneurial skills through a modified problem-based learning model derived from the real life needs of the labor market. Role: (PI & Director).
9. **2013-2016.** Funds from the Ministry of Agriculture (\$78,000). This fund supports a project entitled: Production of antibodies for disease diagnosis. Role: (PI & Director).
10. **2013-2015.** Palestine Universities Funds-Arab League (\$21,000). This fund supports a project entitled: Towards the Development of the First Palestinian Biotechnology Platform for Producing Diagnostics Antibodies for Plant and Animal viruses” Role: (PI & Director).
11. **2010-2011.** IIRG grant-Palestine Polytechnic University (JD 6,000). This is supporting a project entitled: Towards the establishment of an automated protein purification system at Palestine Polytechnic University Role: (PI & Director).
12. **2009-2010.** IIRG grant-Palestine Polytechnic University (JD 5,000). This is supporting a project entitled: Cloning and expression of a bacteriophage T4DNA ligase for research and training purposes at Palestine Polytechnic University. Role: (PI & Director).
13. **2008.** Canada Foundation of Innovation (\$380,000). This is an infrastructure grant to support the purchase of equipment aimed at establishing functional genomics research unit. Role: (PI & Director).
14. **2006.** Husky Energy grant (\$179,000 per year for 5 years). This grant funds a research to modify starch biosynthesis in winter wheat to develop a cereal feedstock for biofuel production.
15. **2007.** NSERC-Discovery grant (\$29,660 per year for 5 years).
16. **2007.** Agriculture and Agri-Food Canada ARDI grant (\$33,000).
17. **2007.** NSERC-Research Tools and Instruments grant (\$34,000) to purchase particle delivery system for gene transfer.
18. **2003.** Robert and Ruth Lumsden Graduate Award. Granted by the College of Science for academic excellence, University of Western Ontario.
19. **2003.** Nominated for Graduate Teaching Award, Dean, Faculty of Graduate Studies, University of Western Ontario.
20. **2002.** Recipient of the 2002 JD Detwiler Award in Biological Sciences for demonstrated excellence in Plant Biology, University of Western Ontario.
21. **2002.** A free membership to join ASPB for the outstanding work in the field of plant biology, ASPB News, 29 (4): 11.
22. **2002.** George H. Duff Student Travel Award, CSPP Annual Meeting in Calgary, June 08, 2002.
23. **1999-2003.** Special University Scholarship, University of Western Ontario.

PUBLICATIONS

1. Alzeer J, Al-Razem F (2021). Hypotheses: Implementation of Le Chatelier's principle as a potential integrative method to prevent and or cure coronavirus. *Journal of Public Health & Emergency.* (in Press).
2. Al-Razem F, Al-Aloul H, Ishnaiwer M, Qadi R. (2022). Isolation and partial characterization of Salmonella Gallinarum bacteriophage. *Saudi Journal of Biological Sciences* (in Press).
3. Alzeer J, Hadeed KA, Basar H, Al-Razem F, Abdel-Wahhab M, Alhamdan Y. (2021). Cannabis and its permissibility status. *Cannabis and Cannabinoid Research* (in Press).
4. Talahmeh N, Sanabel Abu-Rumeileh, Al-Razem F (2020). Development of a selective and differential media for the isolation and enumeration of *Bacillus cereus* from food samples. *Journal of Applied Microbiology* 128, 1440-1447.
5. Fakhoury, H, Juneidi, O, Muhtaseb, H., Ishnaiwer M, Al-Razem F (2019). Isolation and characterization of a bacteriophage that hosts on Avian-pathogenic *Escherichia coli* (APEC). *International Journal of Poultry Science* 18(5): 223-230.
6. Amro WA, Qaisi W, Al-Razem F (2018). Production and purification of IgY antibodies from chicken egg yolk. *Journal of Genetic Engineering and Biotechnology.* Volume 16:99-103.
7. Al-Razem F, Abu Zena BMA, Abu Issa D (2017). Cloning and Sequence Comparisons of Phytase (Phy) Genes from *Aspergillus niger* and *Bacillus atrophaeus*. *Annual Research & Review in Biology.* Volume 16(1): 1-8, 2017; Article no.ARRB.35856. ISSN: 2347-565X, NLM ID: 101632869.
8. Salah M, et al., Al-Razem F (2017). Prevalence of nosocomial infections in Hebron-Palestine hospitals. *Journal of Advances in Medicine and Medical Research.* Volume 23(4): 1-7, 2017; Article no.JAMMR.35383 ISSN: 2456-8899.
9. Khaizaran Z, Al-Razem F (2014). Analysis of Selected Milk Traits in Palestinian Holstein-Friesian Cattle in Relative to Genetic Polymorphism. *Journal of Cell and Animal Biology*, 2014(April), Vol 8(5): 74-85. Academic Journals: <http://www.academicjournals.org/journal/JCAB>

10. Ishnaiwer M, Al-Razem F (2013). Isolation and Characterization of Bacteriophages from Laban Jameed. *Food and Nutrition Sciences*, 2013 (Nov), 4, 56-66. Scientific Research: <http://www.scirp.org/Journal/Home.aspx?IssueID=3899>
11. Al-Manasra M, Al-Razem F (2012). Cloning and expression of a new bacteriophage (SHPH) ligase isolated from sewage. *Journal of Genetic Engineering and Biotechnology*, 2012, 10:177-184.
12. Al-Razem F, Hill RD (2009). Binding Assays for Abscisic Acid Receptors. Protocol in *Methods in Molecular Biology* 495:1-11.
13. Al-Razem F (2008). An Overview of Hydrogen Peroxide Production and Cellular Determination in Plants. *Hebron University Research Journal* 3(2): 84-96.
14. Al-Razem F, Baron K, Hill RD (2006). Turning on gibberellin and abscisic acid signaling. *Current Opinion in Plant Biology* 9: 454-459
15. Bernards MA, Summerhurst DK, Al-Razem F (2004). Oxidases, peroxidases and hydrogen peroxide: The suberin connection. *Phytochemistry Reviews* 3:113-126. (Invited Review).
16. Al-Razem F, Bernards MA (2003). Reactive oxygen species production in association with suberization: Evidence for an NADPH-dependent oxidase. *Journal of Experimental Botany* 54 (384): 935-941.
17. Alrazem F, Bernards MA. (2002). Hydrogen peroxide is required for the poly(phenolic) domain formation during wound-induced suberization. *Journal of Agricultural and Food Chemistry* 50(5): 1009-1015.
18. Alrazem F, Davis AR (2002). Stomatal frequency, maturity and index on the developing bracts of four abscisic-acid mutants and the wild-type plants of *Arabidopsis thaliana*. *Environmental and Experimental Botany* 48(3): 247-256.
19. Bernards MA, Al-Razem F (2001). The poly(phenolic) domain of potato suberin: a non-lignin cell wall biopolymer. *Phytochemistry* 57(7): 1115-1122.
20. Al-Razem F, Davis AR (1999). Anatomical and ultrastructural changes of the floral nectary of *Pisumsativum* L. during flower development. *Protoplasma* 206: 57-72. <https://doi.org/10.1007/BF01279253>