Dr. Fawzi Al-Razem's CV

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PREFACE

1. Teaching the following courses at Palestine Polytechnic University:
   - Molecular Biology (for undergraduate students)
   - Biochemistry (for undergraduate programs)
   - Advanced Biochemistry (for graduate MSc biotechnology students)

2. Running active research program in the following areas:
   - Food Biosafety. Pathogen selection media development.
   - Cloning important genes and gene expression

UNIVERSITY EDUCATION

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

PROFESSIONAL AND RESEARCH EXPERIENCE

1. **September 2017-present.** Dean & Assistant Professor, College of Applied Science, Palestine Polytechnic University.
2. **August 2016-August 2017.** Head & Assistant Professor, Applied Chemistry and Applied Biology Unit, College of Applied Sciences, Palestine Polytechnic University.
3. **2014-Present**. Assistant Professor. College of Applied Science, Palestine Polytechnic University.
4. **2009-2016**. Researcher at Palestine-Korea Research Center, Palestine Polytechnic University.
5. **2006-2008**. Assistant Professor, University of Manitoba, Canada.
6. **2003-2006**. Post-doctoral Fellow. University of Manitoba, Canada.

RESEARCH GRANTS AND AWARDS

1. **2019-2021**. Research grant received from the FAO ($20,000). Developing diagnostic kits for aflatoxin. Role: (Director).
2. **2019**. First Prize received from the "Palestine Higher Council for Innovation and Excellence" for Best Applied Health related research in Palestine.
3. **2018**. First Prize for the Best Research Group from Palestine Islamic Bank ($4000).
4. **Zuhair Hijjawi Award** for best student graduation projects (received 3 years for my students from 2016, 2017, 2018).
5. **Student Innovation prizes** for my students (6 prizes won from 2013-2018)
6. **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).

7. **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).
8. **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).
9. **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).
10. **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).
11. **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).
12. **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.
13. **2007**. NSERC-Discovery grant ($29,660 per year for 5 years).
14. **2007**. Agriculture and Agri-Food Canada ARDI grant ($33,000.
15. **2007**. NSERC-Research Tools and Instruments grant ($34,000) to purchase particle delivery system for gene transfer.
16. **2003**. Robert and Ruth Lumsden Graduate Award. Granted by the College of Science for academic excellence, University of Western Ontario.
17. **2003**. Nominated for Graduate Teaching Award, Dean, Faculty of Graduate Studies, University of Western Ontario.
18. **2002**. Recipient of the 2002 JD Detwiler Award in Biological Sciences for demonstrated excellence in Plant Biology, University of Western Ontario.
19. **2002**. A free membership to join ASPB for the outstanding work in the field of plant biology, ASPB News, 29 (4): 11.
20. **2002**. George H. Duff Student Travel Award, CSPP Annual Meeting in Calgary, June 08, 2002.
21. **1999-2003**. Special University Scholarship, University of Western Ontario.

PUBLICATIONS (Selected)

1. Talahmeh N, Al-Razem F (**2019**). Development of a selective and differential media for the isolation and enumeration of *Bacillus cereus* from food samples. *Journal of Applied Microbiology* **(Working on revisions). (SCOPUS).**
2. 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**. (SCOPUS).**
3. 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. (SCOPUS).**
4. 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. **(SCOPUS).**
5. 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.
6. 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
7. 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
8. 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. **Elsevier. Indexed by SCOPUS.**
9. Abu-Issa D, Al-Razem F (**2012**). Cloning and Expression of Phytase (*PhyA*) Gene for supplementation of Poultry. The 3rd Conference on Biotechnology Research and Applications in Palestine.
10. Al-Manasra A, Al-Razem F (**2010**). Cloning and expression of a bacteriophage DNA ligase for molecular cloning. The 2nd Conference on Biotechnology Research and Applications in Palestine. Abstract Book 38-39.
11. Al-Razem F, Hill RD (**2009**). Binding Assays for Abscisic Acid Receptors. *Methods in Molecular Biology* 495:1-11.
12. Al-Razem F (**2008**). An Overview of Hydrogen Peroxide Production and Cellular Determination in Plants.

Hebron University Research Journal 3(2): 84-96.

13. Al-Razem F, Hill RD (**2007**). Hydrogen peroxide affects abscisic acid binding to ABAP1 inbarley aleurones. *Biochemistry and Cell Biology* 85: 628-637.
14. Al-Razem F, Baron K, Hill RD (**2006**). Turning on gibberellin and abscisic acid signaling. *Current Opinion in Plant Biology* 9: 454-459.**(Invited review**).
15. Al-Razem F, Luo M, Liu J-H, Abrams SR, Hill RD (**2004**). Purification and characterization of a barley aleurone abscisic acid-binding protein. *Journal of Biological Chemistry* 279: 9922-9929.
16. Bernards MA, Summerhurst DK, Al-Razem F (**2004**). Oxidases, peroxidases and hydrogen peroxide: The suberin connection. *Phytochemistry Reviews* 3:113-126. (**Invited Review**).
17. 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.
18. 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.
19. 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.
20. Bernards MA, Al-Razem F (**2001**). The poly(phenolic) domain of potato suberin: a non-lignin cell wall bio-polymer. *Phytochemistry* 57(7): 1115-1122.
21. Al-Razem F, Davis AR (**1999**). Anatomical and ultrastructural changes of the floral nectary of *Pisumsativum* L. during flower development. *Protoplasma* 206: 57-72.