

## Curriculum Vitae

### Personal

**Date:** 2025-9-8

Name: Hazem Diab Aref Sawalha  
Marital status: married  
Number of children: 4  
Address: Arab American University  
Jenin-Palestine  
B.O. Box  
E-mail: [hazem.sawalha@aaup.edu](mailto:hazem.sawalha@aaup.edu)  
[hjh\\_sawalha@yahoo.com](mailto:hjh_sawalha@yahoo.com)  
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### Education

⇒ Ph. D. in Molecular Virology  
University of Jordan  
Grade: very good  
Date of graduation: 2000  
Thesis title: Purification, Antiserum Production, Biological and Molecular Study of Tomato Yellow Leaf Curl Virus (TYLCV)

⇒ M.Sc. in Virology  
University of Jordan  
Grade: very good  
Date of graduation: 1995  
Theses title: Occurrence and Distribution of Alfalfa Mosaic Virus (AMV) in Alfalfa in Jordan

⇒ B.Sc. in Phytopathology  
University of Jordan  
Grade: good  
Date of graduation: 1992

### Work experience

⇒ *2016- to date*  
Full Professor

⇒ *2010- 2015*  
Associate Professor

⇒ *2004- 2009*  
Assistant Professor  
Department of Biology and Biotechnology  
Faculty of Arts and Sciences  
Arab American University of Jenin

⇒ 2003-2004

Head of Plant Protection and Production Department  
National Agricultural Research Center (NARC)  
Ministry of Agriculture  
Palestine

⇒ 2001-2006

Part time lecturer  
Al-Quds Open University  
Palestine

⇒ 2000-2001

Part time lecturer  
An-Najah National University  
Palestine

**Courses I taught at Arab American University:**

Microbiology (2004- to date), Environmental microbiology, Oral microbiology, Medical Microbiology, Microbial Ecology, Mycology, Virology, Microbial Biotechnology, Biotechnology, Industrial Biotechnology, Agricultural Biotechnology, Ecology, General Biology, Biological Research Methods .....etc.

<b><u>Published articles in scientific journals</u></b>
<b>Articles in the field of specialization</b>
1- Sawalha, H. and Mansour, A. (1996). Incidence of alfalfa mosaic virus in alfalfa fields in Jordan. <i>Derasat</i> . Vol. 23. No. 2. p. 81-83
2- Sawalha, H. and Mansour, A. (1996) Alfalfa mosaic virus in Jordan. <i>Mu'tah Lil-Buhooth Wa Al-Dirasat</i> . Vol. 11. No. 2. p. 163-166
3- Sawalha, H. (2009). Occurrence of tomato yellow leaf curl virus on volunteer tomato, jimsonweed and tobacco in North West Bank: Distribution of the virus natural reservoirs in summer season. <i>An - Najah Univ. J. Res. (N. Sc.)</i> Vol. 23. p. 73-91
4- Sawalha, H. (2009). Palestinian isolate of tomato yellow leaf curl virus: Capsid and nucleic acid retention in <i>Bemisia tabaci</i> , transmission and field study of virus association with the vector and non-vector insects. <i>An - Najah Univ. J. Res. (N. Sc.)</i> Vol. 23. p. 93-115.
5- Sawalha, H. (2010). Whitefly population and incidence of tomato yellow leaf curl virus in tomato fields grown in the northern regions of the West Bank. <i>Al-Aqsa University Journal (Natural Sciences Series)</i> , Vol.13, No.1, p. 7-24.
6- Sawalha, H. (2010). The use of crop rotation to control the soil-borne fungi

causing vascular wilt of watermelon in the plain of Sanoor, Palestine. <i>Jordan Journal of Agricultural Sciences</i> . Vol 6, No 3 (2010)
7- Sawalha, H. (2011). Detection of Three honeybee Viruses in Palestine using RT-PCR. <i>Journal of Al-Quds Open University for Research and Studies - No.22</i> . p. 27-41
8- Sawalha, H. 2011. Studying the effect of varying the number of Folicur (250EC) applications to control powdery mildew on grapes in Hebron district in Palestine. . <i>Jordan Journal of Agricultural Sciences</i> . <i>Jordan Journal of Agricultural Sciences</i> , Vol. 7, No. 4. p. 763-769.
9- Sawalha, H. 2011. Incidence of viral diseases on pepper in Palestine; A case study on potato virus Y on hot pepper in the Northern regions of the West Bank using RT-PCR. <i>Jordan Journal of Agricultural Sciences</i> . <i>Jordan Journal of Agricultural Sciences</i> , Vol.7, No.3 , p. 549-557.
10- Sawalha, H. 2011. Occurrence of straw itch mite ( <i>Pyemotes tritici</i> , Acari, Pyemotidae) in the south western regions of Jenin, Palestine. <i>Al-Azhar Journal of Pharmaceutical Sciences</i> . <i>Az. J. Pharm. Sci.</i> Vol. 43. p. 365-375.
11- Sawalha, H. 2011. Incidence and Genetic Variability of <i>Erysiphe cichoracearum</i> , the Causal Agent of Powdery Mildew on Squash and Cucumber in Tubas and Jenin. <i>An - Najah Univ. J. Res. (N. Sc.)</i> Vol. 25. p. 105-121
12- Sawalha, H. 2012. Misuse of pesticides by vegetable farmers in Palestinian Territories and recommendations for their proper use. <i>IUG Journal of Natural and Engineering Studies</i> , Vol.20, No.1, pp 41-54 (Cited by 2).
13- Sawalha, H. 2012. The use of watermelon (Baladi cultivar) grafting on bottle gourd and pumpkin rootstocks to control the soil-borne fungi causing vascular wilt disease of watermelon in the Plain of Sanoor in Palestine. <i>Al-Aqsa University Journal (Natural Sciences Series)</i> , Vol.16, No.1, p. 39-54
14- Sawalha, H. 2012. Occurrence and prevalence of four viruses infecting tomatoes in Northern districts of West Bank, Palestinian Territories. <i>Advances in Pure and Applied Chemistry (APAC)</i> 98 Vol. 2, No. 1, p. 98-101
15- Sawalha, H., Al-Badawi, S., Hamdan, H. and Houshia, O.. 2013. Chemical Antibacterial Agents Used to Disinfect Cultivation Tools against the Crown Gall Disease of Stone Fruits. <i>Journal of Biology, Agriculture and Healthcare</i> , Vol.3, No.11,p. 30-40
16- Sawalha, H. 2013. Epidemiology of Tomato Yellow Leaf Curl Virus in the Northern Regions of the West Bank, Palestine. <i>The Open Agriculture Journal</i> , Vol. 7, p. 80-85.
17- Sawalha, H. 2014. Quantitative Effects of Single and Multiple Infections with Four Viruses on Tomato. <i>Annual Research &amp; Review in Biology</i> 4(18): 2804-2814
18- Sawalha, H. Ma'ali, R. and Hussein, A. 2016. Landfill leachates as an abiotic disease factor affecting solanaceous crops and olive trees. <i>Journal of Advances in Agriculture</i> , Vol. 5, p. 767-774.
19- Sawalha, Tarsha, N., Hussein, A. and Abu Al-Hassan, E. 2016. The effect of wild boars on agricultural crops and their control in Salfit governorate in Palestine. <i>Syrian Journal of Agricultural Research</i> , vol. 3. p. 30-38.
20- Hazem Sawalha, Lamyia Shalabi, Anan Hussein, and Nasser Sholi. 2019. Limestone Dust as an Abiotic Disease Factor Affecting Vegetables and Olives in

Palestine. Syrian Journal of Agricultural Research – SJAR 6(2): 534-547.
<b>Articles in the major field of study</b>
21- Sawalha, H. and Abu Mowais, M 2012. Bacterial Contamination of Paper Banknotes in Circulation; a Case Study in the Jenin District, Palestine. <i>Journal of Science (JOS)</i> 36 Vol. 1, No. 2, p. 36-39
22- Sawalha, H., Houshia, O., Hussein, A., Mahariq, Q. and Khader, A. 2014. Scope of Using Treated Olive Mill Wastewater in Tomato Production. <i>International Journal of Agriculture and Forestry</i> , 4(4): 304-309
23- Sawalha, H., Abu-Alrub, M., Abu-Alrub, B. and Kmail, A. 2024. Epidemiology and Diagnostic Insights into Orf Virus Infection in Palestinian Sheep and Goats: A Histopathological and Serological Study. <i>Journal of Animal Health and Production</i> , Vol. 12, Iss. 4, 258-653. DOI   <a href="http://dx.doi.org/10.17582/journal.jahp/2024/12.4.601.609">http://dx.doi.org/10.17582/journal.jahp/2024/12.4.601.609</a>
24- Sawalha, H., Khasib, S., Mansour, B., Awwad, Y., Abu Arra, Z. and Kmail, A. 2024. Phytochemical characterization and antibacterial evaluation of crude saps from medicinal plants in Palestinian cuisine. <i>Canrea Journal: Food Technology, Nutritions, and Culinary Journal</i> , 7(1), 15–32. <a href="https://doi.org/10.20956/canrea.v7i1.1133">https://doi.org/10.20956/canrea.v7i1.1133</a>
25- Sawalha, H., Qalalweh, Q., Nazzal, H., Kmail, A. and Qoraan, I. 2025. Antibacterial Potential of Plant Extracts against Foodborne Pathogenic Bacteria: A Phytochemical and Bioactive Analysis. <i>J Pure Appl Microbiol</i> ;19(3):2211-2226. <a href="https://doi.org/10.22207/JPAM.19.3.48">https://doi.org/10.22207/JPAM.19.3.48</a>

<b><u>Published and reviewed books.</u></b>
1- Sawalha, H. (2009). <u>Practical Course of Viruses</u> . Al-Jamea'yah Bookshop Press, Nablus, Palestine
2- Sawalha, H. 2014. <u>Laboratory Manual of Mycology</u> . Al-Jamea'yah Bookshop Press, Nablus, Palestine

<b><u>Published articles in scientific conference journals</u></b>
1. Sawalha, H. and Mansour, A. (1997). Incidence of alfalfa mosaic virus in alfalfa fields in Jordan. Sixth Arab Congress of Plant Protection. Oct. 27-31. Beirut, Lebanon
2. Sawalha, H., Mansour, A. and El-Khateeb (2000). Serological and PCR detection of tomato yellow leaf curl virus from infected plant tissues and whiteflies. Seventh Arab Congress of Plant Protection. Oct. 22-26. Amman, Jordan.
3. Sawalha, H. 2006. The present situation of sewage use in vegetable farming in Palestine. The 2 <sup>nd</sup> Water Reuse Conference, 6-9 June 2005, Marriott, Amman – Jordan
4. Sawalha, H. 2009. The use of PCR, IC-PCR, TAS-ELISA, TBIA, and biological

<p>methods to determine the time needed to detect TYLCV in inoculated jimsonweeds. <i>The First Conference on Biotechnology Research and Application in Palestine</i>. 3-4 April, 2009, Furno Hall, Bethlehem University, Bethlehem, Palestine (Cited by 3).</p>
<p>5. Sawalha, H. and Khasib, S. 2010. Antibacterial activities of several plant saps collected from the Palestinian environment. <i>The First International Conference on Basic &amp; Applied Sciences (ICBAS 2010)</i></p>
<p>6. Sawalha, H. 2010. The use of Immunocaptured Polymerase Chain Reaction (IC-PCR) to Study the Translocation of Tomato Yellow Leaf Curl Virus (TYLCV) in Tomato Plants. <i>Second Conference on biotechnology research and applications in Palestine</i>". p. 103-104</p>
<p>7. Sawalha, H. 2011. Occurrence of <i>Phytophthora</i>-root rot on sycamore trees in Jericho. Jericho and the Jordan Valley Environmental Conference, Reality and Challenges, 30-31 May 2011. The Palestinian Academy for Security Sciences.</p>
<p>8. Ma'ali, R. and Sawalha, H. 2011. Landfill leachate as an abiotic disease factor affecting agricultural crops in the Jenin District Scientific Conference for Agricultural Research (SCAR). An-Najah National University. p. 17</p>
<p>9. Sawalha, F. and Sawalha, H. 2011. The effect of using phosphorus, nitrogen and potassium in separate forms or in combination on the growth, development and production of faba bean crop. The Fourth International Conference of Science and Development, Faculty of Science, Islamic University-Gaza, 22-23/11/2011.</p>
<p>10. Daraghmi, M. and Sawalha, H. 2011. The use of olive trees in home garden coordination in Palestine. The First Conference on Olive in Palestine: Status and Challenges (ICOPSC), February 8-10, 2011. p 54.</p>
<p>11. Sawalha, H., Houshia, O., Hussein, A. Mahariq, Q., and Khader, A. 2014. Using Treated Olive Mill Wastewater in Tomato Production. The Food Security" Prospective and Challenge" Conference. An-Najah National University. p. 21.</p>
<p>12. Sawalha, H. and Khasib, S. 2016. Antibacterial activities of several plant saps collected from the Palestinian environment. 7<sup>th</sup> International Conference on Drug Discovery and Therapy, 15-18 Feb., University of Al-Sharjah, UAE</p>
<p>13. Sawalha, H, 2016. Biotechnology - The use of PCR, IC-PCR, TAS-ELISA, TBIA, and biological methods to determine the time needed to detect TYLCV in inoculated jimsonweeds. 3rd Middle East Molecular Biology Congress and Exhibition (held in Research Complex - Qatar University - Doha, from 14 to 17 Nov. 2016).</p>
<p>14. Sawalha, H. 2017. The use of PCR, IC-PCR, TAS-ELISA, TBIA, and biological methods to determine the time needed to detect TYLCV in inoculated jimsonweeds. World Congress on Cell Science and Molecular Biology. April 6-8, 2017. Dubai, UAE.</p>
<p>15. Sawalha, H. and Al-Khaseeb, S. 2017. Cultivated and natural plant flora with antibacterial action collected from Palestine. 1st Molecules Medicinal Chemistry Symposium. 8 September 2017, Barcelona, Spain.</p>
<p>16. Sawalha, H. 2019. Inhibiting bacterial causative agent of human serious infectious diseases using crude saps of plants growing in Palestinian environment. 11<sup>th</sup> Euro-Global Conference on Infectious Diseases. London, UK.</p>

<b>Research in Progress</b>
1- Screening of medicinal plants of Palestine
2- Anti-bacterial action of Black Calla, <i>Arum palaestinum</i> on three human opportunistic pathogenic bacteria
3- Extraction and purification of material with anti-microbial action extracted from Black Calla, <i>Arum palaestinum</i>
4- The anti-bacterial action of original and non original honey produced in Palestinian environment
5- Crude extracts of <i>Inula viscosa</i> (L.) with anti-microbial action against <i>E. coli</i>
6- Anti-cancer activity of crude saps extracted from <i>Arum palaestinum</i>

<b>External examiner of MSc. dissertation and supervisor of research works</b>	<b>Activity</b>
1. Khaleeliah, W. (2001). Screening for Anticancer Activity of Palestinian Plants. M.Sc. thesis. An-Najah National University. Nablus, Palestine	External examiner
2. Al-Assali, A. (2002). Antimicrobial Activity of Palestinian Medicinal Plants against Propionibacterium acnes, a Causative Agent of Acne. M.Sc. thesis. An-Najah National University. Nablus, Palestine	External examiner
3. Aslan, N. (2002). Occurrence of Aflatoxins and Aflatoxin-Producing Strains of <i>Aspergillus flavus</i> in Cereals. Faculty of Graduate Studies, An-Najah National University, Nablus-Palestine	External examiner
4. Rahman, S. 2002. Fig Fruits Mycobiota with Special Emphasis on Aflatoxigenic <i>Aspergillus flavus</i> . M.Sc. thesis. An-Najah National University. Nablus, Palestine	External examiner
5. Daoud, R. (2008). Studies on Folkloric Medicinal Plants Used by Palestinians in the Qalqilia District. Faculty of Graduate Studies, An-Najah National University, Nablus-Palestine	External examiner
6. Al-Thaher, H. (2008). The Use of Multivariate Analysis of Variance to Aid Species Separation in the Genus Pythium. M.Sc. thesis. An-Najah National University. Nablus, Palestine	External examiner
7. Mubaslat, A. (2013) Genetic Diversity among Palestinian Fig Varieties ( <i>Ficus caracal</i> L.) Using ISSR, and RADP Markers". Faculty of Graduate Studies, An-Najah National University, Nablus-Palestine	External examiner
8. Ea'layat, B. (2013). Production of Compost under greenhouse Conditions. Deir Abu Daef Secondary School.	Supervisor
9. Maali, R. (2015). Evaluation of Sanitary Status of Tap Water in Nablus District. Faculty of Graduate Studies, An-Najah National University, Nablus-Palestine	External examiner

<b><u>Activities within the university</u></b>
<b>1. A dean of the faculty of Arts and Sciences/Arab American University of Jenin (aauj) (2013-2014)</b>
2. Preparing of a proposal for the extension of the building of the faculty of Arts and Sciences (2014)
<b>3. Supervisor of the committee for preparation of the undergraduate program of Physical Education (2014)</b>
4. A supervisor of the committee for preparation of the undergraduate program of Geography (2014)
<b>5. A supervisor of the committee for preparation of the master program of Public Relation (2014)</b>
6. A supervisor of the committee for preparation of the undergraduate program of Physical Education (2014)
<b>7. Preparing a proposal of the master program in Biology and Biotechnology (2013)</b>
<b>8. A chair of the Biology and Biotechnology Department (2011- 2013)</b>
9. A member of scientific committee of the Faculty of Arts and Sciences/ Arab American University (2012 - 2013)
10. A member of ISO committee of the Faculty of Arts and Sciences/ Arab American University (2012 - 2013)
11. A member of academic promotion committee of the Faculty of Arts and Sciences/ Arab American University (2012 - 2013)
12. Preparing a proposal for establishment of a Center of Rural Studies (SRS) (2012)
13. A member of the Health and Environment Committee of the Arab American University (2010 - 2011)
14. A member in the council of Arts & Sciences faculty (2009 - 2014)
15. A member of the committee which is responsible for preparation of course plans and outlines in the Department of Biological Sciences and Biotechnology (2009/3/18).
16. A member of the Committee responsible for publicizing and dissemination the Department of Biological Sciences and Biotechnology locally (2009/3/18)
17. A member of the Cultural Committee of the Faculty of Arts and Sciences (2009 - present)
18. A member in the TRA (teaching and research assistant) committee in the faculty of Arts & Sciences which is responsible for determining the job description of teaching and research assistants (2009 - present)
19. A member of the council of Department of Biological Sciences and Biotechnology (2004 – now).
20. An academic advisor for students in the Department of Biological Sciences and

Biotechnology (2004 – now).
21. Establish a Mycology Laboratory and preparing microscopic slides and various fungal isolates and preserve lab samples
22. Preparing a laboratory manual of Mycology for the students of in the Department of Biological Sciences and Biotechnology
23. Preparing a laboratory manual of Virology for the students of in the Department of Biological Sciences and Biotechnology
24. Development of biology labs by collecting many samples of plant and animal, classification and preservation of these samples under lab conditions
25.

<b>Activities outside the university:</b>
→ <b>First:</b> General Activities
1. A member of the Agricultural Engineers Association (1995 - now)
2. A member of the Agency of Agricultural Marketing (2003 - now)
3. Training for environmental awareness committees in the villages of the northern West Bank / Centre for Development in Primary Health Care / Al-Quds University(2004-2005)
4. A member of the administrative committee of the Palestinian Red Crescent (2005 - now)
5. A member of the Palestinian Oil Council (2009 - present)
→ <b>Second:</b> Participation in the training courses
1. - Participation in the training program to build capacity in project planning, organized by the Japanese Agency for International Cooperation (JICA) in the training program in a third country and executed by GARDNE in Amman - Jordan in the period of 16 / 7 to 28/7/2005. The program included training in the following topics: a - The goals and standards development at the United Nations in the third millennium b- Determine the development projects at the national level with a focus on agricultural projects c- Steps of the project planning d- Monitoring and evaluation from the perspective of project planning
2. Participation in the training course for lecturers to prepare educational media support in educational media production center of the Al Quds Open University/Masyon - Ramallah in 29-30/8/2006
3. Participation in the training program in the Center of Peace and Reconciliation Studies (CPRS) at the Coventry University/United Kingdom (3/9 – 3/10/2013). The program included: a- Conflict Resolution b- Peace Building
4. Participation in the 7 <sup>th</sup> Conference of Drug Discovery and Therapy. University

of Sharja, United Arab Emirates (UAE) (15-18 Feb. 2016).
→ <b>Third:</b> Academic activities
1. Part-time lecturer at Al Najah University (2000-2001)
2. Part-time lecturer at Al Quds Open University (2000-2006)
3. Part-time lecturer at Al Quds Open University (2012-now)
4. Supervising BSc. students doing graduation projects in Al Quds Open University. The projects are entitled as: 1 - Toxicity of drugs used in chicken production and their effect on human health, (2003). 2 - Types of pesticides, fertilizers and hormones used in agriculture and their effect on humans and the environment, (2003). 3 – Brucellosis in Palestine (2003).
5. A member in the preparation and scientific committee of the Scientific Conference for Agricultural Research (SCAR). An-Najah National University (2011).
6. A member in the scientific committee of The Second International Conference on Olive in Palestine' (SICOP). Palestine Technical University - Kadoorie (PTUK), Tulkarm, Palestine (2013).
7. A member in the scientific committee of The First Conference of Biology. The Ministry of Education/Palestine (2014)
8. A member in the scientific committee of The Agricultural Development Conference in The Jordan Valley/Al-Quds Open University/ Jericho (2014).
→ <b>Forth:</b> Attending workshops and/or conferences
1. Frontiers in Molecular Biology and Biomedicine, ) Birzeit University (Marc 10-20, 2010)
2. Global Campaign for Education. Arab American University / Palestine (12/10/2010)
3. Leadership in Higher Education (workshop)/Birzeit University (28/1/2012).
4. Post-Harvest Technology (conference)/ Palestine Technical University (PTUK) (11/3/2012).
5. Teaching Botany in Palestine Universities: Needs for Innovative Methods. Bethlehem University ( June 28-29, 2012)
6. The reality of the Agricultural Sector in the Northern West Bank. General Federation Hall of Trade Unions of Palestine / Nablus (2012).
7. Workshop on Efficiency of Olive Oil Mills and Olive Oil Quality in Palestine. City In/ Ramallah (March 6, 2013)
8. Second International Conference on Olive in Palestine (2013)/ Palestine Technical University (PTUK)
9. Modern Practicum system and its Reflections on Education in Palestine (2014)/Arab American university/Jenin
10. Freedom of Expression in the websites:/ Palestine Technical University (2014)
11. The Palestinian Forum for Israeli Studies: The Israeli Scene Supplement (al-mash-had al-Israeli) (2014).

12. The reality of livestock and pastures and agricultural extension in the Jordan Valley (2015).
13. The Forth Conference on Biotechnology Research and Application in Palestine. 21 April, 2016, Arab American University, Jenin, Palestine
14. Workshop on Studying the proposed operational plan for the matrix of research programs. Dec. 3. 2018. NARC, Palestine
15. تقييم مشاريع مشاركة في معرض فلسطين المركزي للعلوم والتكنولوجيا. وزارة التربية والتعليم ومديرية التربية والتعليم في قلقيلية. <b>2019/3/10</b>
16. دور الحركة الوطنية في الداخل في ترسيخ الهوية الوطنية الفلسطينية. 2019/3/16. قاعة المؤتمرات. الجامعة العربية الامريكية
17. التحليل الجنائي الحيوي: أهميته وجودة أداءه من خلال المادة الوراثية. الجامعة العربية الامريكية 2019/10/21

Updated on 2025-9-8

