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|  | **Personal Information** |

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|  | NIHAD GHASAN ISSA ALSMAIRAT | **Name** |
|  | September,11,1962 /Fuheis-Jordan | **Place and date of birth** |
|  | School of Agriculture/The University of Jordan<http://eacademic.ju.edu.jo/drnihad/default.aspx> | **Faculty** |
|  | Department of Horticulture and Crop Science | **Department** |
|  | [drnihad@ju.edu.jo](mailto:drnihad@ju.edu.jo)drnihad2@yahoo.com | **Email** |

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|  | **Qualifications** |

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|  | **Date** | University of donor rank | **Specialization** | Qualification |
|  | 1985 | The University of Jordan | Plant Production | B.Sc., |
|  | 1988 | The University of Jordan | Horticulture | M.Sc., |
|  | 2002 | The University of Jordan | Horticulture | Ph.D., |

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|  | **Specialization and domain of interest** |

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|  | Horticulture | **Specialization** |
|  | Postharvest Physiology and Technology of Fresh Fruits | **Domain of interest** |

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|  | **Title and abstract of the doctoral thesis (within 150 words)** |
|  | This study was carried out to compare root ability of terminal , median and basal stem cutting (15 cm long) of two apple clone rootstocks; the hard-to-root East Malling 9 (M.9) and the easy -to-root Malling - Merton 106 (MM.106) during November and December (2000) , January and February (2001) and again during November and December (2001) , January and February (2002). Total phenol, auxin, carbohydrate, nitrogen and C/N ratio determined at each sampling date. In addition , the anatomical structure of the stem cutting was studied at time of preparing the cuttings and again six weeks later .For each sampling date , rooting experiments were carried out in a glasshouse of Al- Hussein Agriculture station , Baqa’a , Jordan. The results indicated that the anatomical structure of MM.106 and M.9 was basically the same for terminal, median and basal stem cutting. Groups of brachysclereids built in MM.106 and M.9 stem cuttings on the periphery of phloem. For the two rootstocks, the cambial activity was highest in November to be declined gradually and to remain low through February. |

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|  | **Career Experience** |

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| **Date** | **Place of Work** | **Job title** |
| March  2019-Presesnt | Faculty of Agriculture/The University of Jordan | Professor/ Department of Horticulture and Crop Science / The School of Agriculture -The University of Jordan |
| 2014-2019 | Faculty of Agriculture/The University of Jordan | Associate prof. / Department of Horticulture and Crop Science / School of Agriculture –The University of Jordan |
| October  2011-2014 | Faculty of Agriculture/The University of Jordan | Assistant prof / Department of Horticulture and Crop Science / Faculty of Agriculture – The University of Jordan |
| June  2011-2014 | Faculty of Agriculture/The University of Jordan | Lecturer / Department of Horticulture and Crop Science / Faculty of Agriculture – University of Jordan |
| June  2009-2010 | Michigan State University , MI, USA | Post doctorate – Postharvest lab / College of Plant and Soil Science / Horticultural Department/ Michigan State University, MI,USA |
| June  2008-2009 | Faculty of Agriculture, The University of Jordan, Jordan. | Manager of agricultural research stations. |
| 2004-2007 | World bank , Amman , Jordan | Team leader for Technology Transfer Specialist. Horticultural Export Promotion and Technology Transfer project “HEPTTP’ hosted by NCAR. |
| 2003-2004 | Jordan valley | Manager of Agricultural Integrated Input Management Project in the Jordan valley hosted by Strategic Studying Center/ The University of Jordan |
| 1998-2002 | The University of Jordan | Devoted my-self to get the Ph.D. degree |
| 1996-1998 | Private sector | Cold stores Consultant |
| 1996 | National Centre for Agriculture Research and Technology Transfer (NCARTT), Almshagar Centre | Fruit Trees Researcher |
| 1992-1995 | Agricultural Marketing and Processing Company of Jordan , Jordan | Quality Control in Al-Qastal Cold Stores for Fruits and Vegetables |
| 1990-1992 | Private sector | Fruit Trees orchards |
| 1988-1990 | Force army, Amman , Jordan | Agricultural Engineering in the Martyr Memorial |
| 1985-1986 | Faculty of Agriculture, University of Jordan | Assistance in Plant Propagation and Floriculture lab |
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|  | **Administrative works and committees** |

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|  | **Date** | **Administrative work and committee** |
|  | 2022-Present | Vice Dean-School of Agriculture |
|  | 2021-2022 | Head of Horticulture and and Crop Science Department |
|  | 2016-2021 | The University of Jordan learning outcome Committee |
|  | 2013-2018 | Assistant Dean for Quality and Development Affairs |
|  | 2014-2015 | Establishment a Botanical Garden in the Agricultural Research Station in Ghour Area-Jordan |

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|  | **Recent Publications within last few years** |

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|  | **Research title, Publisher, Date** | **Name of researcher** |
|  | Title: Anatomical assessment of skin separation in date palm (*Phoenix dactylifera* L. var. Mejhoul) date palm fruit during maturation and ripening stages  Publisher: MDPI,agriculture  **Year: 2022** | Nihad Alsmairat, Yahia Othman\*, Jamal Ayad, Malik Al-Ajlouni, Jamal Sawwan, Najib El-Assi |
|  | **Title:** Controlled-release nitrogen fertilizers for improving yield and fruit quality of young Apricot trees  **Publisher** :**Elsevier**  **Year** : **2022** | Abd El-Rahman Khasawneha, **Nihad Alsmairat**, Yahia A. Othmana,\*, Jamal Y. Ayada, Hashem Al-Hajajb, Issam M. Qrunflehc |
|  | **Title:** Influence of nitrogen source on physiology, yield and fruit quality of young Apricot trees.  **Publisher:** **Taylor and Francis**  **Year: 2021** | Abd El-Rahman Khasawneh, **Nihad Alsmairat**, Yahia A. Othman, Jamal Y. Ayad, Tamara Al-Qudah & Daniel I. Leskovar |
|  | **Title:** Effect of Drying Process on Physical and Chemical Properties of 'Medjool' Date Palm Fruits  **Publisher: PSP**  **Year : 2019** | **Nihad Alsmairat**, Tamara Al-Qudah, Najib El-Assi, Ghadeer Mehyar, Issa Gammoh, Yahia Othman, Salah-Eddin Araj, Tawifiq Al-Antary |
|  | **Title**: Soilless culture: Management of growing substrate, water, nutrient, salinity, microorganism and product quality  **Publisher: PSP**  **Year :2019** | Yahia Othman, Khaled Bataineh, Malik Al-Ajlouni, **Nihad Alsmairat**, Jamal Ayad, Safwan Shiyab, Basam Al-Qarallah, Rolston St Hilaire |
|  | **Title**: Composition of soilless substrates affect the physiology and fruit quality of two strawberry (Fragaria × ananassa Duch.) cultivars  **Publisher:** **Taylor and Francis**  **Year: 2019** | **Alsmairat,Nihad** Al-Ajlouni,Malik Ayad,Jamal Othman,Yahia St.Hilaire,Rolston |
|  | **Title:** Changes in free amino acid content in the flesh and peel of ‘Cavendish’ banana fruit as related to branched-chain ester production, ripening, and senescence  **Publisher :** American Society for Horticultural Science, USA  **Year: 2018** | **Alsmairat N.**, Engelgau P., and Randolph B |
|  | **Title:** Influence of greenhouse shade techniques on pests numbers, leaf-level physiology, fruit yield and quality of cucumber  **Publisher**: Parlar Scientific Publication Freising, Germany  **Year: 2018** | Salah-Eddin Araj;Mahmoud Kasrawi; **Nihad** **Alsmairat**; Yahia Othman; Nida Salem and Mohammad Tabieh |
|  | **Title:** Photosynthesis, Gas Exchange and Yield of Two Strawberries ((Fragaria X ananassa Duch.)cv. in response of gibberlic acid  **Publisher** **:** Parlar Scientific Publication Freising, Germany  **Year:2018** | Jamal, Y., Ayad, A., Othman, Malik, G. Al-Ajlouni, and **Nihad G. Alsmairat** |
|  | **Title :** Pre-storage Conditioning and Diphenylamine Improve Resistance to Controlled-atmosphere-related Injury in "Honey-crisp" Apples  **Publisher:**American Society for Horticultural Science  **Year:** **2014** | Contreras, C., **Alsmairat,N.**, and Beaudry, R |
|  | **Title:** Disease Management of Organic Tomato under Greenhouse Conditions in the Jordan Valley  **Publisher:** ELSEVIER  **Year: 2014** | Akel Mansour, Luma Al-Bana,Nida' Salem, **Nihad Alsmairat** |
|  | **Title:** Effect of Edible Coatings on Fruit Maturity and Fungal Growth on Berhi Dates  **Publisher:** Wiley  **Year: 2014** | Mehyar G.F.,Najib M. El Asssi, **Nihad G. Alsmairat** and Richard A.Holley |
|  | **Title :** Enhancement of Edibility of "Barhi" and "Medjool" Date Palm Cultivars at Khalal Mature Stage  **Publisher**:Asian Network for Scientific Information  **Year: 2013** | **Nihad G. Alsmairat**,Najib M. El Assi,Ayed M. Al Abdallat and Gadeer F. Mehyar |
|  | **Title**: Genetic diversity of red-fleshed apple (Malus)  **Publisher:** Springer  **Title : 2012** | Noker,S.,Berry,G.,Najdawski,J.,Michelutti,R.,Luffman,M.,Forsline,P.,**Alsmairat,N.**,Beaudry,R.,Nair,M.,and Ordidge M. |
|  | **Title**: Use of Commercially-Relevant O2 and CO2 Partial Pressures to Evaluate the Sensitivity of Nine High-bush Blueberry Fruit Cultivars to Controlled Atmospheres  **Publisher**: American Society for Horticultural Science  **Year** : **2011** | **Nihad Alsmairat**,Carolina Contreras,James Hancock,Pete Callow,and Randolph Beaudry. |

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|  | **Scientific conferences and symposia** |

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| **Type of participation** | **Place and date of conference** | **Conference Title** |
| Attendance | **Abu Dhabi-UAE**  March-2022 | The Seventh International Conference on Date Palm |
| **Speaker** “Changes in Free Amino Acid Content in the Flesh and Peel of ‘Cavendish’ Banana Fruit As Related to Branched-Chain Ester Production, Ripening, and Senescence” | **Washington DC-USA**  August**-**2018 | ASHS 2018 Annual Conference - Washington, DC |
| Attendance | **Warsaw -Poland** June- 2017 | International Controlled and Modified Atmosphere Research Conference (**CAMA)** |
| **Speaker**: “Use of Modified Atmosphere Packaging to Measure and Model Respiration and Ethylene Production at Super-atmospheric O2 Concentrations” | **Terrane**- **Italy**  June- 2014 | International Controlled & Modified Atmosphere Research Conference |
| **Speaker**: “Kinetics of Volatile Synthesis Following Cellular Disruption Associated with Masticated and Cut Fresh Apple Fruit".Beaudry, R.M.;Al Smairat, N. ;and Contreras, C”. | **Portugal** - **Lisbon** August -2012 | 28th International Horticultural Congress in Lisbon |
| **Speaker:** “Use of Combinations of Commercially-Relevant O2 and CO2 Partial Pressures to Evaluate the Sensitivity of Nine Highbush Blueberry Cultivars to Modified Atmospheres” | **Waikoloa, Hawaii**  August-2011 | American Society for Horticultural Science (**ASHS)** |

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|  | **Training courses** |

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|  | **Date** | **Name of course** |
|  | March 2017 | Evaluation of Students’ learning without tests/ Accreditation and Quality Assurance Center |
|  | April 2016 | Quality Assurance Procedures and Models/ Accreditations and Quality Assurance Centre |
|  | October 2016 | Advanced Targeted Learning Outcomes/Accreditation and Quality Assurance Center |
|  | March 2016 | Excerption detection/ Accreditation and Quality Assurance Centre |
|  | October 2016 | Designing National Qualifications framework /Accreditation and Quality Assurance Centre |

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|  | **Teaching activities** |

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| **Graduate** | **Bachelor** | **Taught Courses** |
| ❑ | ❑ | Harvesting , Handling and Storage of Horticultural Crops |
| ❑ | ❑ | Fruit Trees Production |
| ❑ | ❑ | Practical Training in Horticulture and Field Crops/ Fruit Trees |
| ❑ | ❑ | Principles of Plant Production |
| ❑ | ❑ | Agriculture in Jordan |
| ❑ | ❑ | Home Gardening |

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|  | **Membership in scientific and professional bodies and societies** |

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|  | **Date** | **Name and place of scientific body and society** |
|  | 2017-Present | American Society for Horticultural Science (ASHS) |
|  | 2012-Present | International Society for Horticulture Science (ISHS) |
|  | 2006-Present | Jordan Society for Scientific Research (JSSR) |
|  | 2005-Present | Jordan Exporters and Producers Association for Fruits and Vegetables (JEPA) |

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|  | **Awards** |

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|  | **Date** | **Donor and place of award** | **Name of Award** |
|  | November 2022 | Khalifa International Award for Date Palm and Agricultural Innovation- Jordan.  Research Title: Effect OF DRYING PROCESS ON PHYSICAL AND CHEMICAL PROPERTIES OF 'MEDJOOL' DATE PALM FRUITS  Researchers: Nihad Alsmairat, Tamara Al-Qudah, Najib El-Assi, Ghadeer Mehyar, Issa Gammoh, Yahia Othman, Salah-Eddin Araj, Tawifiq Al-Antary. | Best Applied Scientific Research on Date Palm- 4Date Palm Festival in Amman |
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|  | 2012 | 28th International Congress in Lisbon | Gold Prize “Kinetics of Portugal Volatile Synthesis Following Cellular Disruption Associated with Masticated and Freshly cut Apple Fruits |
|  | 2012 | Presidency of The University of Jordan | Distinguished Research Prize |