



Curriculum vitae

Name and Surname: Mohammed Hamdan Edan Al-Issawi



Birth Date: 01/01/1978

Marriage status: Married

Number of children: 5

General and sub specialty: Field Crops / Plant Genetics

Career: Academic staff

Academic position: assist prof

Language: Arabic / English

Religion: Islam

Work address: University of Anbar/ College of agriculture/ Dept. of Field Crops

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Work contact number:07716146262

Email: ag.mohammed.hamdan@uoanbar.edu.iq

First: Scientific qualifications

| Education certificates | University | College | Date |
|------------------------|------------------------|------------------------|-------------|
| B.Sc. | University Of Anbar | College of agriculture | 2000 |
| M.Sc. | University Of Anbar | College of agriculture | 2004 |
| Ph.D. | University of Plymouth | School Of Science | 2013 |

Second: Career progression



| Seq. | Academic degree | Institution | Date |
|-------------|---------------------------|----------------------------|-------------|
| 1 | Assistant Lecturer | University Of Anbar | 2004 |
| 2 | Lecturer | University Of Anbar | 2013 |
| 3 | Assist prof | University Of Anbar | 2019 |

Third: Teaching Activities

| Seq. | Department | Subject | Year |
|-------------|-------------------|---------------------|-------------|
| 1 | Field Crops | Molecular Genetics | All Years |
| 2 | Field Crops | Experimental Design | All Years |
| 3 | Field Crops | Statistics | All Years |
| 4 | Animal Production | Experimental Design | All Years |
| 5 | Field Crops | Plant Genetics | 2020-2017 |
| 6 | Field Crops | Abiotic Stress | 2017 |
| 7 | Field Crops | Plant Antioxidant | 2023-2021 |

Fourth: Conferences and workshops

| Seq. | Title | Year | Venue | Type of participation |
|-------------|--|-------------|---------------------------------------|------------------------------|
| 1 | Efficient Water management (EWM) in IRAQ by switching to Climate Smart Agriculture (CSA) | 2019 | Netherland | Presence |
| 2 | (ICCMAT2021) 24-25 March, 2021. Erbil – Iraq | 2021 | College of agriculture / anbar/ Erbil | Scientific Committee |
| 3 | (ICCMAT2021) 24-25 March, 2021. Erbil – Iraq | 2023 | College of agriculture / anbar/ Erbil | Scientific Committee |



Fifth: Supervision

| Seq. | Type of study | Name of student | Topic | Department | Year |
|------|---------------|-----------------|--|-------------|------|
| 1 | Msc | Marwan Magid | Estimation of Genetic Diversity and Drought Tolerance Gene (LOS5/ABA3) Expression in Half Diallel Crosses of Maize (<i>Zea mays</i> L.) | Field Crops | 2017 |
| 2 | Msc | Nahlaa Jamal | Effect of Molybdenum on defence system of antioxidant and lipid peroxidation in mung bean (<i>vigna radiata</i> L.) under water stress | Field Crops | 2019 |
| 3 | Msc | Mariam Loaay | Estimation of DREB expression in new introduced wheat genotype to Anbar governorate under irrigation intervals effect. | Field Crops | 2020 |
| 4 | Msc | Ali Salim | Effect of Genotypes In Molybdo enzymes Content And Its Relation with growth And yield of wheat <i>Triticum aestivum</i> L. | Field Crops | 2021 |
| 5 | Msc | Lamiaa Faeq | Evaluating several wheat genotypes for stay green trait | Field Crops | 2022 |
| 6 | Msc | Haitham Mokhles | Characterisation of Low-Cadmium Accumulating Genotypes and Its Relationship with PCS1 Expression in Bread Wheat (<i>Triticum aestivum</i> L.) | Field Crops | 2023 |
| 7 | PhD | Marwan Magid | Effect of Melatonin and Molybdenum in cellular signaling and growth and yield traits under Cadmium stress in bread wheat | Field Crops | 2023 |



Sixth: Membership in local and international of scientific society or organization

Seventh: Acknowledgments, prizes and appreciation certificate

| Seq. | Type of reward | Institution | Year |
|-------------|------------------------------|------------------------------|-------------|
| 1 | Certificates of Appreciation | Ministry of Higher Education | 2013 |
| 2 | Certificates of Appreciation | Ministry of Higher Education | 2019 |
| 3 | Certificates of Appreciation | Ministry of Higher Education | 2022 |
| 4 | Certificates of Appreciation | Ministry of Higher Education | 2022 |
| 5 | Certificates of Appreciation | University of Anbar | 2020 |
| 6 | Certificates of Appreciation | University of Anbar | 2020 |
| 7 | Certificates of Appreciation | University of Anbar | 2020 |
| 8 | Certificates of Appreciation | University of Anbar | 2019 |
| 9 | Certificates of Appreciation | University of Anbar | 2019 |
| 10 | Certificates of Appreciation | University of Anbar | 2018 |
| 11 | Certificates of Appreciation | University of Anbar | 2019 |
| 12 | Certificates of Appreciation | University of Anbar | 2022 |
| 13 | Certificates of Appreciation | University of Anbar | 2021 |
| 14 | Certificates of Appreciation | University of Anbar | 2020 |
| 15 | Certificates of Appreciation | University of Anbar | 2021 |
| 16 | Certificates of Appreciation | University of Anbar | 2019 |
| 17 | Certificates of Appreciation | University of Anbar | 2023 |
| 18 | Certificates of Appreciation | University of Anbar | 2022 |
| 19 | Certificates of Appreciation | University of Anbar | 2022 |



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| 20 | Certificates of Appreciation | University of Anbar | 2023 |
| 21 | Certificates of Appreciation | Kirkuk University | 2023 |
| 22 | Certificates of Appreciation | University of Anbar | 2023 |
| 23 | Certificates of Appreciation | College of Agriculture | 2023 |
| 24 | Certificates of Appreciation | College of Agriculture | 2023 |
| 25 | Certificates of Appreciation | College of Agriculture | 2016 |
| 26 | Certificates of Appreciation | College of Agriculture | 2020 |
| 27 | Certificates of Appreciation | College of Agriculture | 2020 |
| 28 | Certificates of Appreciation | College of Agriculture | 2019 |
| 29 | Certificates of Appreciation | College of Agriculture | 2019 |
| 30 | Certificates of Appreciation | College of Agriculture | 2019 |
| 31 | Certificates of Appreciation | College of Agriculture | 2022 |
| 32 | Certificates of Appreciation | Vice President of University for scientific affairs | 2023 |

Eighth: Books

| Seq. | Title of book | Published year |
|------|---------------|----------------|
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Ninth: Committees

| Seq. | Committee | Number of committees |
|------|---|----------------------|
| 1 | Examination Committee | 12 years |
| 2 | Student Discipline Committee | 4 years |
| 3 | Discussion Committee | 15 |
| 4 | Comprehensive Exam for PhD | 2 |
| 5 | Competitive exam for postgraduate student | 4 |
| 6 | Scientific Committee of conferences | 2 |
| 7 | Preparation committee of workshop | 1 |
| 8 | Preparation committee of conference | 1 |
| 9 | Intellectual property for thesis | 3 |
| 10 | Field visit of experiments | 4 |



Tenth: Publications

| Seq. | Title | Journal | Year |
|------|---|--|------|
| 1 | The effect of spraying with pinolene and potassium in characterize of growth of two varieties of sesame (<i>Sesamum indicum</i> L.) | Anbar journal of agricultural sciences | 2005 |
| 2 | Effect of spraying with pinolene and potassium on seed yield and its quality of two sesame varieties (<i>Sesamum indicum</i> L.) | Anbar journal of agricultural sciences | 2007 |
| 3 | Improvement of water-stressed Maize growth and yield by partitioning of phosphorus fertilizer. Iraqi Journal for desert studies | Iraqi Journal for desert studies | 2010 |
| 4 | Encapsulation of cauliflower (<i>Brassica oleracea</i> var <i>botrytis</i>) microshoots as artificial seeds and their conversion and growth in commercial substrates. | Plant Cell, Tissue and Organ Culture (PCTOC) | 2011 |
| 5 | Frost Hardiness Expression and Characterisation in Wheat at Ear Emergence. | Journal of Agronomy and Crop Science | 2013 |
| 6 | The effect of using PPM (plant preservative mixture) on the development of cauliflower microshoots and the quality of artificial seed produced. | Scientia horticultrae | 2012 |
| 7 | Germination of primed seed under NaCl stress in wheat | International Scholarly Research Notices | 2012 |
| 8 | Performance assessment of wheat cultivars under three locations using GGE-biplot | Journal of Genetic and Environmental Resources Conservation | 2013 |
| 9 | Exogenous application of molybdenum affects the expression of CBF14 and the development of frost tolerance in wheat | Plant Physiology and Biochemistry | 2013 |
| 10 | The effect of Molybdenum on the molecular control of cold tolerance in cauliflower artificial seeds | Plant cell Tiss Cult. | 2014 |
| 11 | Plant abiotic stress tolerance analysis in cauliflower using a curd micropropagation system. | In VIII International Symposium on In Vitro Culture and Horticultural Breeding | 2015 |
| 12 | Genetic variation and analysis of path coefficient of some traits of wheat under three plant densities | Anbar journal of agricultural sciences | 2015 |
| 13 | Frost Hardiness Of Iraqi wheat genotypes. | Diyala Agricultural Sciences Journal | 2015 |



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| 14 | Molybdenum application enhances antioxidant enzyme activity and COR15a protein expression under cold stress in wheat | Journal of Plant interactions | 2016 |
| 15 | Foliar application of Iron and Potassium Enhances Growth and Yield of Mung bean. | Diyala Agricultural Sciences Journal | 2016 |
| 16 | Genetic diversity estimation using ssr markers and some yield components in seven forage sorghum (sorghum bicolor (L.) moench). | Pakistan Journal Of Biotechnology | 2017 |
| 17 | Upregulation of CBF/DREB1 and cold tolerance in artificial seeds of cauliflower (Brassica oleracea var. botrytis) | Scientia Horticulturae | 2017 |
| 18 | An analysis of the development of cauliflower seed as a model to improve the molecular mechanism of abiotic stress tolerance in cauliflower artificial seeds | Plant Physiology and Biochemistry | 2017 |
| 19 | Advances in physiological and molecular aspects of plant cold tolerance. | Journal of Plant Interactions | 2017 |
| 20 | Identification of the genetic diversity and physiological response of five inbred lines and their half diallel crosses under water stress | Anbar journal of agricultural sciences | 2017 |
| 21 | Effect of seed priming and molybdenum foliar application in some physiological and anatomical traits in wheat crop (Triticum aestivum) | Journal Tikrit Univ | 2017 |
| 22 | Irrigation intervals affect dhn1 expression and some physiological parameters in stay green and non-stay-green sorghum. | Biochemical and Cellular Archives | 2018 |
| 23 | Stimulation of LOS5/ABA3 and antioxidant enzymes of half diallel crosses of maize under water stress conditions | Research Journal Of Biotechnology. | 2019 |
| 24 | Detection of genes associated with qualitative characteristics of gluten. | Вестник Российского университета дружбы народов. Серия: Агрономия и животноводство | 2019 |
| 25 | Effect of molybdenum on some growth and yield characteristics of mung bean (Vigna radiate L.) under water stress conditions. | Anbar Journal of Agricultural Sciences, | 2019 |
| 26 | Analysis of genotype-environment interaction in fennel using Sudoku design | AJAB. Asian J Agric & Biol | 2020 |
| 27 | Molybdenum Induces Growth, Yield, and Defence System Mechanisms of the Mung Bean (Vigna radiata L.) under Water Stress Conditions | International Journal of Agronomy | 2020 |



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| 28 | Using of Molybdenum to improve some of anatomical characteristics and mitigation induced drought damage by PEG-6000 in mung bean seedlings (<i>Vigna radiate</i> L.). | Anbar Journal of Agricultural Sciences | 2021 |
| 29 | Estimation of DREB Gene Expression in Wheat Genotypes (<i>Triticum aestivum</i> L.) Introduced to Anbar Governorate Under Water Stress | IOP Conference Series: Earth and Environmental Science | 2021 |
| 30 | Isolation and diagnosis of cadmium-resistant bacteria and its potential phytoremediation with the broad bean plant. | SABRAO Journal of Breeding and Genetics | 2022 |
| 31 | USING OF MOLYBDENUM TO IMPROVE SOME OF ANATOMICAL CHARACTERISTICS AND MITIGATION INDUCED DROUGHT DAMAGE BY PEG-6000 IN MUNG BEAN SEEDLINGS (<i>VIGNARADIATE</i> L.) | Anbar Journal of Agricultural Sciences | 2021 |
| 32 | Introducing several wheat genotypes and testing them for planting under western parts of Iraq conditions | Anbar Journal of Agricultural Sciences | 2022 |
| 33 | Chlorophyll Content Variation in Wheat Genotypes Planted in Semi-Arid Region | IOP Conference Series: Earth and Environmental Science | 2023 |

Eleventh: Skills

1. English language skill (speaking, writing, listening).

