Curriculum Vitae

Prof. Dr. Salah El-Sayed El-Hendawy

1. Personal Details

Surname	**El-Hendawy**		
Family Name	**Salah** El-Sayed **El-Hendawy**		
Title	**Prof.**		
Gender	Male		
Address	Crop Production Department, Collage of Food and Agricultural Sciences, King Saud University		
Date of Birth	Day	Mo	Yr
	26	02	1971
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	+96614693310	+966535318364	
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2. Education

University	Degree	Year
Institute of Plant Nutrition, Department of Plant Sciences, **Technical University of Munich, Germany**	Ph. D.	2004
Agronomy Department, Faculty of Agriculture, Suez Canal University	M. Sc.	1998
Agronomy Department, Faculty of Agriculture, Suez Canal University	B. Sc.	1993

3. Employment History

Employer	Position	Dates (From – To)
Suez Canal University	Demonstrator	1994 – 1998
Suez Canal University	Assistant Lecturer	1999 – 2001
Technical University of Munich, Germany	**Research assistant**	**2001 – 2004**
Suez Canal University	Lecture	2005 – 2009
JIRCAS , Japan	**Researcher**	**2009 – 2010**
Suez Canal University	Prof	2010 – 2012

King Saud University	Prof.	2012- till now

4. Grants

	Names	Dates
1.	Post-Doctoral from Japan International Research Center for Agricultural	10/2009 to 3/2011
2.	Post-Doctoral from Deutscher Akademischer Austausch Dienst (DAAD)	07/2007 to 09/2007
3.	Post-Doctoral from Technical University of Munich, Germany	08/2004 to 02/2005
4.	Scholarship from World Laboratory Lausanne, Switzerland	07/2003 to 09/2004
5.	Channel System from Ministry of higher Education of Egypt	07/2001 to 06/2003

6. Presentation

1. 1st International Forum and Exhibition for Sustainable Agriculture "Agricultural Development with Optimal Use of Natural Resources". **Riyadh 20-22 November 2023**
2. The 9th International Conference on Climatic Changes, Challenges of Sustainable Development, Current and Advanced Research on Agriculture, food and Environment that has been held in Marsa Alam – Porto Ghalib from 6-10 October, 2022
3. The 8th international conference on planning, strategy, sustainability, and recent studies on food, agricultural environment 2022. **21-25 march 2022** Luxor – Aswan
4. International conference (33rd annual Meeting of the Saudi Biological Society) that has been held at Al-Baha University entitled "Sustainable Development in Al-Baha Region" during the period **9–11 March 2021**
5. 10th annual meeting of the Saudi Society for Agricultural Sciences, "T**he future of agriculture, water and the environment under the vision of the Kingdom 2030**" **Qassim Buraidah,** 14-15 February 2017.
6. 32th Annual meeting of Saudi Biological Society, **Um-AlQura University, Saudi Arabian**, 21-23 April, 2017
7. 30th Annual meeting of Saudi Biological Society, **Tabouk, Saudi Arabian**, April, 2015
8. 29th Annual meeting of Saudi Biological Society, **Al-Dmama, Saudi Arabian**, Feb., 2014
9. Attended the workshop "Pulp and paper production from lignocellulosic residues and wood available in Saudi Arabia and assessment of the produced paper" **Plant Production Dep., Collage of Food and Agriculture Sciences, King Saud University. 7-1-2014**
10. International Plant Breeding Congress, **ANTALYA, TURKEY, 10-14 NOVEMBER 2013**,

11. Meeting (Organic farming, Fertilization and bio control for diseases). **King Abdulaziz City for Science and Technology 3.12.2013**
12. Attended the workshop "phenotype characteristics of root nodulating bacteria isolated from woody legume tress grown in Saudi Arabia and their ability to nodulation" **Plant Production Dep., Collage of Food and Agriculture Sciences, King Saud University. 11-11-2013**
13. 28th Annual meeting of Saudi Biological Society, Hael, **Saudi Arabian, April., 2013**
14. Annual meeting of Crop Science Society of Japan, Hokkaido, **Japan**, July., **2010**
15. Annual meeting of Crop Science Society of Japan, Tsukuba, Ibaraki, **Japan**, Dec., **2009**
16. International workshop on "Water Resources in the Niddle East- Reality and Aspiration" held from 19 to 21 October **2008**, JUST University, Irbid**, Jordan**
17. International workshop on "Availability and quality management of water in the MENA region" held from 18 to 20 November **2007**, JUST University, Irbid, **Jordan**
18. The 8th International conference of the African Crop Science Society, held from 27 to 31 October **2007**, El-Minia University, **Egypt.**
19. The 5th conference of the Plant Breeding Society, held from 27 to 28 May **2007**, Cairo University**, Egypt**
20. International workshop on "Flood or Drought? In the Middle East" held from 26 to 28 November **2006**, JUST University, Irbid, **Jordan.**
21. The 4th conference of the Plant Breeding Society, held from 19 to 20 May **2004**, Suez Canal University, **Egypt**
22. 9. The 8th International conference of the Agronomy Science Society, held from 28 to 29 November **1998**, Suez Canal University**, Egypt**

7. Field of interest

My research concentrates on the intersection between plant and environmental stress with emphasis on drought, salt and submergence stress and agricultural water management. Improving Egyptian wheat genotypes for salt tolerance was elucidated (El-Hendawy et al., 2005). Response of field crops to different agronomic practices was studied (El-Hendawy et al., 2009 and 2010). Sensitive reactions of gramineous plants to salt stress were elucidated with a particular focus on physiological and chemical characteristics (El-Hendawy et al., 2007). Recent attempts concentrate on non-destructive techniques to characterise with high through-put relevant traits of droughted and salinised plants under field conditions (Precision Phenotyping) (El-Hendawy et al., 2014, 2015). The other major research topic deals with optimizing water management implementing novel methods in plant cultivation.

The following are the main field of interest:

1. Using Hyperspectral Reflectance for phenotyping and evaluating wheat genotypes for salt and drought stress.
2. Improving crop production under environmental stress
3. Using friendly environmental chemicals for improving crop production under stress.

8. Research program/Project building

1. **PI for project** "***Applying new integrated agronomic techniques for sustainable agriculture in drought prone areas in Saudi Arabia***" **funded from National Science, Technology and Innovation Plan, Kingdom Abd-Alziz city for Science and Technology**. Saudi Arabia, 2014.
2. **PI for project** "***Potential of high throughput precision phenotyping techniques for improving salt tolerance of spring wheat under field conditions***" **funded from National Science, Technology and Innovation Plan, Kingdom Abd-Alziz city for Science and Technology**. Saudi Arabia, 2014.
3. **Co-investigator** in the project "***Molecular and high-throughput field phenotyping approaches to wheat improvement for drought tolerance***" **funded from National Science, Technology and Innovation Plan, Kingdom Abd-Alziz city for Science and Technology. Saudi Arabia, 2013**
4. **Co-investigator** in the project "***Effects of composted municipal and agricultural waste products on grain production and soils in Saudi Arabia***" **funded from National Science, Technology and Innovation Plan, Kingdom Abd-Alziz city for Science and Technology. Saudi Arabia, 2013**
5. **Co-investigator** in the project **"*Using Treated Wastewater in Irrigation Energy Crops Production under Arid and Semiarid Conditions*" funded from National Science, Technology and Innovation Plan, Kingdom Abd-Alziz city for Science and Technology. Saudi Arabia, 2013**

9. Published Book

1- Arbuscular mycorrhizal remediation of heavy metals contaminated soils, In: Bio-organic Amendments for Heavy Metal Remediation, 2024.

2- Book Title: **Ecology and physiology of field crops**. (In Arabic). Deanship of Scientific Research. Publisher King Saud Univ. 2019. -603-507-591-6 ردمك: (1438/9671 رقم الإيداع) بيئة وفسيولوجيا المحاصيل الحقلية 978

3- Book Title: **Modern sustainable production approaches for field crops in dry environment**. (In Arabic). Deanship of Scientific Research. Publisher King Saud Univ. 2019. الاتجاهات الحديثة للإنتاج المستدام للمحاصيل الحقلية في البيئة الجافة (رقم الإيداع: 1441/1943- ردمك: 978-603-507-808-5

10. Supervision of PhD Thesis

1- Application of certain integrated agronomic practices for enhancing the growth, yield, and water use efficiency of wheat crop under limited irrigation water supply conditions

2- Assessment of the Salt Tolerance of Contrasting Wheat Genotypes Based on Agro-Physiological Parameters, Spectral Reflectance Indices, and Associated SSR Markers

3- Phenotyping Root System Architecture and Expression Profiling of Auxin-Related Genes under Water Stress in Spring Bread Wheat

4- Combining Thermal and digital Imaging Indices with Physio-chemical Parameters to Evaluate the Salt Tolerance of Advanced Bread Wheat Lines

5- Comparative Performance of Spectral Reflectance and Agro-Morphological Parameters for Evaluating Salt Tolerance of Advanced Bread Wheat Lines

6- Deciphering Salinity Stress Tolerance in Barley (Hordeum vulgare L.) Using Phenotypic, Genetic, and Transcriptomic Assessments

7- The Integration between Methods and Times of Salicylic Acid and Plant Nutrients Application to Enhance Growth, Production, and Water Use Efficiency of Wheat Crop under Limited Irrigation Water Supply Conditions

List of publication

Papers published in refereed international journals

1) Tahir, M.U.; El-Hendawy, S.; Al-Suhaibani, N. Comparative Performance of Ionic and AgroPhysiological Traits for Detecting Salt Tolerance in Wheat Genotypes Grown in Real Field Conditions. Life 2024, 14, 1487.

2) El-Hendawy, S.; Tahir, M.U.; Al-Suhaibani, N.; Elsayed, S.; Elsherbiny, O.; Elsharawy, H. Potential of Thermal and RGB Imaging Combined with Artificial Neural Networks for Assessing Salt Tolerance of Wheat Genotypes Grown in Real-Field Conditions. *Agronomy* **2024**, *14*, 1390.

3) Zayed, B.A.; El-Hendawy, S.; Hu, Y.; Okasha, A.M.; Abdelhamed, M.M.; Ghazy, H.A.; Aamer, S.M.; El-Sharnobi, D.E.; Soltan, S.A.; Gaber, A.A.; et al. Enhancing the Photosynthetic and Yield Performance of Rice in Saline Soil by Foliar-Applying Cost-Effective Compounds as Sources of

Carbon Dioxide and Potassium. *Agronomy* **2024**, *14*, 2850

4) Kumari, M.; Prakash, D.; Sheoran, S.; Yadav, P.K.; Ankit; Yadav, H.K.; Apurva; Gupta, R.K.; El-Hendawy, S.; Mattar, M.A. Long-Term Manuring and Fertilization Influence on Soil Properties and Wheat Productivity in Semi-Arid Regions. *Agronomy* **2024**, *14*, 2383.

5) Marimuthu, S.; Navamaniraj, K.N.; Kathiravan, M.; Balasubramanian, P.; Surendran, U.; El-Hendawy, S.; Mattar, M.A. Response of Blackgram (*Vigna mungo* L.) Cultivars for Nipping and Graded Levels of Nitrogen for Higher Productivity under Irrigated Conditions. *Agronomy* **2024**, *14*, 1474

6) Marimuthu, S.; Vanitha, C.; Surendran, U.; El-Hendawy, S.; Mattar, M.A. Conception of Improved Blackgram (*Vigna mungo* L.) Production Technology and its Propagation among Farmers for the Development of a Sustainable Seeds Production Strategy. *Sustainability* **2024**, *16*, 4750

7) El-Hendawy, S.; Mohammed, N.; Al-Suhaibani, N. Enhancing Wheat Growth, Physiology, Yield, and Water Use Efficiency under Deficit Irrigation by Integrating Foliar Application of Salicylic Acid and Nutrients at Critical Growth Stages. *Plants* **2024**, *13*, 1490. https://doi.org/10.3390/plants13111490

8) Kamara, M.M.; Mansour, E.; Khalaf, A.E.A.; Eid, M.A.M.; Hassanin, A.A.; Abdelghany, A.M.; Kheir, A.M.S.; Galal, A.A.; Behiry, S.I.; Silvar, C.; et al. Molecular Diversity and Combining Ability in Newly Developed Maize Inbred Lines under Low-Nitrogen Conditions. *Life* **2024**, *14*, 641

9) Mubushar, M**.; El-Hendawy, S.;** Dewir, Y.H.; Al-Suhaibani, N. Ability of Different Growth Indicators to Detect Salt Tolerance of Advanced Spring Wheat Lines Grown in Real Field Conditions. Plants **2024**, 13, 882.

10) Azab, O.; Ben Romdhane, W.; **El-Hendawy, S**.; Ghazy, A.; Zakri, A.M.; Abd-ElGawad, A.M.; Al-Doss, A. Ectopic Expression of a Wheat R2R3-Type MYB Gene in Transgenic Tobacco Enhances Osmotic Stress Tolerance via Maintaining ROS Balance and Improving Root System Architecture. Biology **2024**, 13, 128.

11) Junaid, M.B.; El-Hendawy, S.; Al-Ashkar, I.; Al-Suhaibani, N.; Alotaibi, M. Integrating AgroMorpho-Physiological Traits and SSR Markers for Detecting the Salt Tolerance of Advanced Spring Wheat Lines under Field Conditions. Agriculture 2023, 13, 2135

12) Madugundu, R.; Al-Gaadi, K.A.; Tola, E.; **El-Hendawy, S.;** Marey, S.A. Mapping of Evapotranspiration and Determination of the Water Footprint of a Potato Crop Grown in Hyper-Arid Regions in Saudi Arabia. *Sustainability* **2023**, *15*, 12201.

13) Elsayed, S.; **El-Hendawy, S.;** Elsherbiny, O.; Okasha, A.M.; Elmetwalli, A.H.; Elwakeel, A.E.; Memon, M.S.; Ibrahim, M.E.M.; Ibrahim, H.H. Estimating Chlorophyll Content, Production, and Quality of Sugar Beet under Various Nitrogen Levels Using Machine Learning Models and Novel Spectral Indices. Agronomy 2023, 13, 2743.

14) **El-Hendawy, S.;** Alsamin, B.; Mohammed, N.; Refay, Y. Improving Morpho- Physiological Indicators, Yield, and Water Productivity of Wheat through an Optimal Combination of Mulching and Planting Patterns in Arid Farming Systems**. Agronomy 2023**, 13, 1660.

15) Alotaibi, M.; **El-Hendawy, S.;** Mohammed, N.; Alsamin, B.; Al-Suhaibani, N.; Refay, Y. Effects of Salicylic Acid and Macro- and Micronutrients through Foliar and Soil Applications on the Agronomic Performance, Physiological Attributes, and Water Productivity of Wheat under Normal and Limited Irrigation in Dry Climatic Conditions. **Plants 2023**, 12, 2389

16) Mansour, E.; El-Sobky, E.-S.E.A.; Abdul-Hamid, M.I.E.; Abdallah, E.; Zedan, A.M.I.; Serag, A.M.; Silvar, C.; El-Hendawy, S.; Desoky, E.-S.M. Enhancing Drought Tolerance and Water Productivity of Diverse Maize Hybrids (*Zea mays*) Using Exogenously Applied Biostimulants

under Varying Irrigation Levels. *Agronomy* **2023**, *13*, 1320.

17) El-Temsah, M.E.; Abd-Elkrem, Y.M.; El-Gabry, Y.A.; Abdelkader, M.A.; Morsi, N.A.A.; Taha, N.M.; Abd-Elrahman, S.H.; Hashem, F.A.E.; Shahin, M.G.; Abd El-Samad, G.A.; Boudiar, A.; Silvar, C.; **El-Hendawy, S.;** Mansour, E.; Abd El-Hady, M.A.. Response of Diverse Peanut Cultivars to Nano and Conventional Calcium Forms under Alkaline Sandy Soil. **Plants 2023**, 12, 2598.

18) Alotaibi, M.; **El-Hendawy, S.;** Mohammed, N.; Alsamin, B.; Refay, Y. Appropriate Application Methods for Salicylic Acid and Plant Nutrients Combinations to Promote Morpho-Physiological Traits, Production, and Water Use Efficiency of Wheat under Normal and Deficit Irrigation in an Arid Climate. **Plants 2023**, 12, 1368.

19) Mohammed, N.; **El-Hendawy, S.;** Alsamin, B.; Mubushar, M.; Dewir, Y.H. Integrating Application Methods and Concentrations of Salicylic Acid as an Avenue to Enhance Growth, Production, and Water Use Efficiency of Wheat under Full and Deficit Irrigation in Arid Countries. *Plants* **2023**, *12*, 1019.

20) Morsi, N.A.A.; Hashem, O.S.M.; El-Hady, M.A.A.; Abd-Elkrem, Y.M.; El-temsah, M.E.; Galal, E.G.; Gad, K.I.; Boudiar, R.; Silvar, C.; **El-Hendawy, S.;** et al. Assessing Drought Tolerance of Newly Developed Tissue-Cultured Canola Genotypes under Varying Irrigation Regimes. *Agronomy* **2023**, *13*, 836.

21) Abdelmoteleb, A.; Moreno-Ramírez, L.; Valdez-Salas, B.; Seleiman, M.F.; **El-Hendawy, S.**; Aldhuwaib, K.J.; Alotaibi, M.; González-Mendoza, D. New Bacillus subtilis Strains Isolated from Prosopis glandulosa Rhizosphere for Suppressing Fusarium Spp. and Enhancing Growth of Gossypium hirsutum L. **Biology 2022, 12, 73**

22) **El-Hendawy, S.;** Al-Suhaibani, N.; Mubushar, M.; Tahir, M.U.; Marey, S.; Refay, Y.; Tola, E. Combining Hyperspectral Reflectance and Multivariate Regression Models to Estimate Plant Biomass of Advanced Spring Wheat Lines in Diverse Phenological Stages under Salinity Conditions. **Appl. Sci. 2022, 12, 1983**.

23) Al-Gaadi, K.A. Madugundu, R. Tola, E.; **El-Hendawy, S.;** Marey, S. Satellite-Based Determination of the Water Footprint of Carrots and Onions Grown in the Arid Climate of Saudi Arabia. **Remote Sens. 2022, 14, 5962.**

24) **El-Hendawy, S.;** Dewir, Y.H.; Elsayed, S.; Schmidhalter, U.; Al-Gaadi, K.; Tola, E.; Refay, Y.; Tahir, M.U.; Hassan, W.M. Combining Hyperspectral Reflectance Indices and Multivariate Analysis to Estimate Different Units of Chlorophyll Content of Spring Wheat under Salinity Conditions. **Plants 2022, 11, 456. (Q1)**

25) **El-Hendawy, S.;** Alsamin, B.; Mohammed, N.; Al-Suhaibani, N.; Refay, Y.; Alotaibi, M.; Tola, E.; Mattar, M.A. Combining Planting Patterns with Mulching Bolsters the Soil Water Content, Growth, Yield, and Water Use Efficiency of Spring Wheat under Limited Water Supply in Arid Regions. **Agronomy 2022, 12, 1298.**

26) Mubushar, M.; **El-Hendawy, S.**; Tahir, M.U.; Alotaibi, M.; Mohammed, N.; Refay, Y.; Tola, E. Assessing the Suitability of Multivariate Analysis for Stress Tolerance Indices, Biomass, and Grain Yield for Detecting Salt Tolerance in Advanced Spring Wheat Lines Irrigated with Saline Water under Field Conditions. **Agronomy 2022, 12, 3084.**

27) Javed, M.M.; Al-Doss, A.A.; Tahir, M.U.; Khan, M.A.; **El-Hendawy, S.** Assessing the Suitability of Selection Approaches and Genetic Diversity Analysis for Early Detection of Salt Tolerance of Barley Genotypes. Agronomy 2022, 12, 3217.

28) Alsamin, B.; **El-Hendawy, S.;** Refay, Y.; Tola, E.; Mattar, M.A.; Marey, S. Integrating Tillage and

Mulching Practices as an Avenue to Promote Soil Water Storage, Growth, Production, and Water Productivity of Wheat under Deficit Irrigation in Arid Countries. **Agronomy 2022, 12, 2235.**

29) Gangaram, S.; Naidoo, Y.; Dewir, Y.H.; **El-Hendawy, S (2021).** Phytochemicals and Biological Activities of Barleria (Acanthaceae). **Plants 2021, 11, 82.**

30) **El-Hendawy, S**.; Al-Suhaibani, N.; Mubushar, M.; Tahir, M.U.; Refay, Y.; Tola, E **(2021).** Potential Use of Hyperspectral Reflectance as a High-Throughput Nondestructive Phenotyping Tool for Assessing Salt Tolerance in Advanced Spring Wheat Lines under Field Conditions. **Plants 2021, 10, 2512.**

31) Al-Suhaibani, N.; Seleiman, M.F.; **El-Hendawy, S**.; Abdella, K.; Alotaibi, M.; Alderfasi, A **(2021).** Integrative Effects of Treated Wastewater and Synthetic Fertilizers on Productivity, Energy Characteristics, and Elements Uptake of Potential Energy Crops in an Arid Agro-Ecosystem. **Agronomy 2021, 11, 2250.**

32) Elsayed, S.; **El-Hendawy, S.;** Dewir, Y.H.; Schmidhalter, U.; Ibrahim, H.H.; Ibrahim, M.M.; Elsherbiny, O.; Farouk, M **(2021).** Estimating the Leaf Water Status and Grain Yield of Wheat under Different Irrigation Regimes Using Optimized Two- and Three-Band Hyperspectral Indices and Multivariate Regression Models. **Water 2021, 13, 2666.**

33) Khadr, M.; Gad, M.; **El-Hendawy, S.;** Al-Suhaibani, N.; Dewir, Y.H.; Tahir, M.U.; Mubushar, M.; Elsayed, S **(2021).** The Integration of Multivariate Statistical Approaches, Hyperspectral Reflectance, and Data-Driven Modeling for Assessing the Quality and Suitability of Groundwater for Irrigation. **Water 2021, 13, 35.**

34) Elsayed, S.; **El-Hendawy, S.;** Khadr, M.; Elsherbiny, O.; Al-Suhaibani, N.; Alotaibi, M.; Tahir, M.U.; Darwish, W **(2021).** Combining Thermal and RGB Imaging Indices with Multivariate and Data-Driven Modeling to Estimate the Growth, Water Status, and Yield of Potato under Different Drip Irrigation Regimes. **Remote Sens. 2021, 13, 1679**

35) Azab, O.; Al-Doss, A.; Alshahrani, T.; **El-Hendawy, S**.; Zakri, A.M.; Abd-ElGawad, A.M **(2021).** Root System Architecture Plasticity of Bread Wheat in Response to Oxidative Burst under Extended Osmotic Stress. **Plants 2021, 10, 939**.

36) Naidoo, C.M.; Naidoo, Y.; Dewir, Y.H.; Murthy, H.N.; **El-Hendawy, S.;** Al-Suhaibani, N **(2021).** Major Bioactive Alkaloids and Biological Activities of Tabernaemontana Species (Apocynaceae). **Plants 2021, 10, 313**.

37) **El-Hendawy, S.;** Elsayed, S.; Al-Suhaibani, N.; Alotaibi, M.; Tahir, M.U.; Mubushar, M.; Attia, A.; Hassan, W.M **(2021).** Use of Hyperspectral Reflectance Sensing for Assessing Growth and Chlorophyll Content of Spring Wheat Grown under Simulated Saline Field Conditions. **Plants 2021, 10, 101.**

38) Attia, A.; **El-Hendawy, S.;** Nasser Al-Suhaibani, Muhammad Usman Tahir, Muhammad Mubushar, Murilo dos Santos Vianna, Hayat Ullah, Elsayed Mansour, Avishek Datta (**2021**). Sensitivity of the DSSAT model in simulating maize yield and soil carbon dynamics in arid Mediterranean climate: Effect of soil, genotype and crop management. **Field Crops Research**, 260, 107981.

39) Seleiman, M.F.; Al-Suhaibani, N.; **El-Hendawy, S**.; Abdella, K.; Alotaibi, M.; Alderfasi, A. **(2021).** Impacts of Long- and Short-Term of Irrigation with Treated Wastewater and Synthetic Fertilizers on the Growth, Biomass, Heavy Metal Content, and Energy Traits of Three Potential Bioenergy Crops in Arid Regions. **Energies 2021, 14, 3037.**

40) Elsayed, S.; **El-Hendawy, S**.; Khadr, M.; Elsherbiny, O.; Al-Suhaibani, N.; Dewir, Y.H.; Tahir, M.U.; Mubushar, M.; Darwish, W **(2021).** Integration of Spectral Reflectance Indices and Adaptive Neuro-Fuzzy Inference System for Assessing the Growth Performance and Yield of Potato under Different Drip Irrigation Regimes. **Chemosensors 2021, 9, 55.**

41) Barakat, M., Al-Doss, A., **El-Hendawy, S**., Al-Suhaibani, N.; Abdella, K., Al-Ashkar, I. **(2021**). Deciphering novel QTL for spectral reflectance indices in spring wheat. **Cereal Research Communications, 2021, 49(4), 649–66**

42) Hosakatte Niranjana Murthy, Dayanand Dalawai, Udachappa Mamatha, Nagartna Basavaraj Angadi, Yaser Hassan Dewirc, Nasser A. Al-Suhaibani, **Salah ElHendawy**, Ali Mohsen Al-Ali **(2021).** Bioactive constituents and nutritional composition of Bridelia stipularis L. Blume fruits. **International Journal of food properties 2021, VOL. 24, NO. 1, 796–805**

43) Attia, A., **El-Hendawy, S.,** Al-Suhaibani, N.,Tahir, M.U., Kamal, K.Y. **(2021).** Evaluating deficit irrigation scheduling strategies to improve yield and water productivity of maize in arid environment using simulation. **Agricultural Water Management, 2021, 249, 106812**

44) Al-suhaibani, N., Selim, M., Alderfasi, A., **El-hendawy, S. (2021).** Integrated application of composted agricultural wastes, chemical fertilizers and biofertilizers as an avenue to promote growth, yield and quality of maize in an arid agro-ecosystem. **Sustainability, 2021, 13(13), 7439**

45) **Salah El-Hendawy**, Nasser Al-Suhaibani, Ibrahim Al-Ashkar, Majed Alotaibi, Muhammad Usman Tahir, Talaat Solieman, Wael M Hassan **(2020).** Combining Genetic Analysis and Multivariate Modeling to Evaluate Spectral Reflectance Indices as Indirect Selection Tools in Wheat Breeding under Water Deficit Stress Conditions. **Remote sensing**, 12 (9), 1480.

46) Elsayed Mansour, Ehab SA Moustafa, El-Sayed M Desoky, Mohamed Ali, Mohamed AT Yasin, Ahmed Attia, Nasser Alsuhaibani, Muhammad Usman Tahir, **Salah El-Hendawy (2020).** Multidimensional Evaluation for Detecting Salt Tolerance of Bread Wheat Genotypes Under Actual Saline Field Growing Conditions. **Plants** 9(10), 1324.

47) Nasser Al-Suhaibani, Mostafa Selim, Ali Alderfasi**, Salah El-Hendawy (2020).** Comparative Performance of Integrated Nutrient Management between Composted Agricultural Wastes, Chemical Fertilizers, and Biofertilizers in Improving Soil Quantitative and Qualitative Properties and Crop Yields under Arid Conditions. **Agronomy** 10 (10), 1503.

48) Mohamed Gad, **Salah El-Hendawy**, Nasser Al-Suhaibani, Muhammad Usman Tahir, Muhammad Mubushar, Salah Elsayed **(2020).** Combining Hydrogeochemical Characterization and a Hyperspectral Reflectance Tool for Assessing Quality and Suitability of Two Groundwater Resources for Irrigation in Egypt. **Water 12 (8), 2169**.

49) Mahmoud F Seleiman, Shafaqat Ali, Yahya Refay, Muhammad Rizwan, Bushra Ahmed Alhammad, **Salah E El-Hendawy (2020).** Chromium resistant microbes and melatonin reduced Cr uptake and toxicity, improved physio-biochemical traits and yield of wheat in contaminated soil. **Chemosphere, 250, 126239**.

50) Aaqib Shaheen, Munawar Ali, Naveed Ahmad, Yaser Hassan Dewir, **Salah El-Hendawy**, Abd-El Gawad, M Ahmed **(2020).** Micropropagation of licorice (Glycyrrhiza glabra L.) by using intermediate nodal explants. **Chilean journal of agricultural research, 80 (3), 326-333.**

51) Asma Alhussein Alawaadh, Yaser Hassan Dewir, Mona S Alwihibi, Abdulhakim A Aldubai, **Salah El-Hendawy,** Yougasphree Naidoo **(2020).** Micropropagation of Lacy Tree Philodendron (Philodendron bipinnatifidum Schott ex Endl.). **HortScience, 55 (3), 294-299.**

52) Yaser Hassan Dewir, Abdulhakim A Aldubai, Mafatlal M Kher, Abdullah A Alsadon, **Salah El-Hendawy, N**asser A Al-Suhaibani **(2020).** Optimization of media formulation for axillary shoot multiplication of the red-peeled sweet potato (Ipomoea batatas [L.] Lam.)'Abees'. **Chilean journal of agricultural research, 80 (1), 3-10.**

53) asha Al-Rikabi, Hanady Al-Shmgani, Yaser Hassan Dewir, **Salah El-Hendawy (2020).** In vivo and in vitro Evaluation of the Protective Effects of Hesperidin in Lipopolysaccharide-Induced Inflammation and Cytotoxicity of Cell. **Molecules, 25 (3), 478.**

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