

CURRICULUM VITA



Name : Prof. Dr. Dawoud Hussein Dawoud Soliaman
Nationality : Sudanese
Sex : Male
Date of Birth : 1958
Marital Status: Married, with four daughters

Language Skills:

Language	Speaking	Reading	Writing
Arabic	Excellent	Excellent	Excellent
English	V. Good	V. Good	V. Good

E-Mail address:
dawoudhussien @ gmail.com

Title: Horticulture expert

Education: Degree obtained and Institution:

1978: BSc. (Honors) Pomology (very good), Faculty of Agriculture, Alexandria University

1982: M.Sc. Faculty of Agriculture, University of Khartoum

Thesis Title: Effect of different Citrus rootstocks on yield, fruit quality and nutrient up-take, under Jabel Marra conditions

Ph.D. : May 1989. Faculty of Agriculture, University of Khartoum

Thesis Title: Comparative studies of two cultivars of date- palm (*Phoenix dactylifera*) with respect to some phenotypic, cytologic and propagation aspects.

Professional Experience

1978: Appointed as a research assistant at Nefertiti research station, Jabel Marra Developmental project. Applied Fruit Research Unit

1982 -1983: Promoted to Horticulture Research scientist

1985: Transferred to Gezira Research Station. Horticulture Research Section

1986: Transferred to New Halfa Research Station.

1990: Promoted to Associate professor, New Halfa Research Station.

1992: Transferred to Khartoum as a Director of National Date palm Research and Development project, ARC (Suba Research Station)

1996: National coordinator of Date palm Network for Research and development. ACSAD

1998-2002: On secondment to Al Zaaem Al Azhari University, Faculty of Agriculture

1999-2004: Agricultural consultant for Malaysian African Agricultural Company for Date palm, Citrus and Gum Arabic plantation in Sudan, Saudi Arabia and Senegal.

2004-2008: Director, Shambat Research Station, ARC

2008: Promoted to Professor of Fruit production, ARC

2007 To date: National Coordinator for Fruits and Ornamental plants program.

2020- FAO expert (production and post-harvest operations of date palm in Sudan) in (Development of Date palm products and By- products value chains in Sudan) program period of 18 months

Scientific awards

- 1- Winner of Khalifa international award for date palm and Agricultural innovation, for the best service of the date palm sector in Sudan and also for the best applied research conducted in Sudan on date palm. (December 2017)**
- 2- Also from Khalifa international award for date palm and Agricultural innovation, I won the publication of a book on the strategy of planting date varieties in Sudan. (December 2021)**

Professional Achievement:

Scientific Agricultural Recommendations Released through Agriculture Research corporation committees:-

(A) Through National Varieties Release Committee;-

- 1- Grape fruit cultivars for release at Jabal Marra – 17/9/1995. By: Dawoud H. D., M.M.Ali Khairy and. T Biely.**
- 2- Citrus Root Stocks for release at Jabal Marra - 17/9/1995. By: Dawoud H. D., M.M.Ali Khairy and. T Biely.**
- 3- Proposing lemon and lime cultivars for release at Jabal Marra- 17/9/1995. By: Dawoud H. D., M.M.Ali Khairy and. T Biely.**
- 4- Mandarin cultivars for release at Jabal Marra- 17/9/1995. By: Dawoud H. D., M.M.Ali Khairy and. T Biely**
- 5- Sweet orange cultivars for release at Jabal Marra -17/9/1995. By: Dawoud H. D., M.M.Ali Khairy and. T Biely**
- 6- Navel orange cultivars for release at Jabal Marra -17/9/1995. Dawoud H. D., M.M.Ali Khairy and. T Biely**
- 7- Sweet orange cultivars for release at New Halfa area 25/9/1996. Dawoud H. D.& Fatima A.A. Ahmed**
- 8- Grape fruit cultivars for release at New Halfa area 25/9/1996. Dawoud H. D. & Fatima A. Ahmed A.**
- 9- *Phaseolus vulgaris* lines, for Release at New Halfa area 1998, By: Dawoud H.D, & others.**
- 10- Performance of some Dutch Potato varieties in Sudan. Submitted for Sudan national varieties Release Committee By: Dawoud H.D, & others.**
- 11- Evaluation and Identification of seedling date palm females – growing at Kutom Valley Proposed for Release at North Darfur area (10/9/1997).**
- 12- Evaluation of physio- chemical characteristics and yield of some mango (*Mangifera indica* L) Proposed for Release (2015)**

- 13- Evaluation and Identification of seedling date palm males used in pollination and their Metazenic effect on Mishrig Wad Laggai and Mishrig Wad Khatiab date palm cultivar. Proposed for release at New Halfa area (2007)

(B) Through Crop Husbandry Committee:-

- 14- Propagation of small off shoots of Gondaila date palm by using new techniques of planting methods. Dawoud H.D & Fatima A. Ahmed, 2003
- 15- Effect of different levels of elemental Sulphur fertilizer on the growth rate, fruit quality, yield and nutrient levels in the leaves of Mishrig Wad Laggai date palm cultivar under Al Mukabrab condition. Dawoud H.D & Fatima A. Ahmed, 2003
- 16- Effect of different day -time of pollination on fruit set and fruit quality of Mishrig Wad Laggai Date palm under Khartoum conditions. Dawoud H.D & Fatima A. Ahmed, 2003
- 17- Effect of different pruning levels on yield and fruit quality of Mishrig Wad Laggai date palm under Khartoum conditions. By: Dawoud H.D & Fatima A. Ahmed, 2003.
- 18- Optimum levels of Nitrogen on the growth rate, yield and fruit quality of two cultivars of Mishrig Wad Laggai and Mishrig Wad Khateeb date palm. Under New Halfa and Khartoum conditions. Dawoud H.D, Fatima A. Ahmed &, A.A. Salih 1996.
- 19- Effect of different irrigation intervals on the growth rate, yield and fruit quality, of Mishrig Wad Laggai and Mishrig Wad Khateeb date palm cultivars under New Halfa and Khartoum conditions. Dawoud H.D Fatima A. Ahmed, & A.A. Salih, 1996.
- 20- Some factors affecting growth rate and success of Date palm off- shoots. Dawoud H.D. & Fatima A. Ahmed. 1996.
- 21- Effect of different thinning practices on fruit quality and yield of Mishrig Wad Laggai and Mishrig Wad Khateeb date palm cultivars, under New Halfa and Khartoum conditions. Dawoud H.D. & Fatima A. Ahmed. 1997.
- 22- Effect of bagging female inflorescence, after pollination of Mishrig Wad Laggai and Mishrig Wad Khateeb date palm cultivars, on fruit set, fruit quality and yield. Dawoud H.D. & Fatima A. Ahmed. 1997
- 23- Optimum time for detachment and transplanting of Mishrig Wad Laggai and Mishrig Wad Khateeb date palm cultivars . Dawoud H.D. & Fatima A. Ahmed. 1997
- 24- New technique and planting method for propagation of date palm off -shoots. Dawoud H.D. & Fatima A. Ahmed. 1997.
- 25- Optimum time to apply chelated nutrients, to Foster grapefruit trees. Dawoud H.D, A.A. Salih & Fatima A. Ahmed, 1996.
- 26- Effect of different nitrogen levels on bearing and none bearing trees of Foster grapefruit at New Halfa. Dawoud H.D, A.A. Salih & Fatima A. Ahmed, 1996.
- 27- Effect of different methods of irrigation, on vegetative growth, yield, and fruit quality of citrus trees growing under New Halfa conditions. Dawoud H.D, Fatima A. Ahmed & A.A. Salih, 1996
- 28- Effect of budding time on the budding sprouting success and the scion growth rate of different citrus spp. Dawoud H.D & Fatima A. Ahmed, 2003
- 29- Effect of different types of planting containers on bud sprouting success and the scion growth rate of different citrus spp. By Dawoud H.D & Fatima A. Ahmed, 2003
- 30- Effect of various thicknesses of the rootstocks on the bud sprouting and the scion growth rate of different citrus spp. Dawoud H.D & Fatima A. Ahmed, 2003

- 31- Effect of different intercropping systems on Dwarf Cavendish banana under Nahr Atbara conditions. Dawoud H.D. & Fatima A. Ahmed.1996
- 32- Effect of different levels of Nitrogen on growth rate, fruit quality and yield, of Dwarf Cavendish banana. Dawoud H.D. & Fatima A. Ahmed.1997
- 33- Effect of different Nitrogen levels on growth rate, fruit quality and yield of Guava. Dawoud H.D, A.A. Salih & Fatima A. Ahmed, 2003
- 34- Effect of rejuvenation techniques on yield and fruit quality of old trees of Mango cvs Alphonse and Qalb Altour. Dawoud H.D, &Fatima A. Ahmed, 2012
- 35- Rejuvenating old and changing undesirable mango cultivars Techniques. Dawoud H.D, &Fatima A. Ahmed, 2012
- 36- Effects of Stage of DE suckering on Growth, Yield and Yield Components of Banana AL-Beily, Dawoud H.D, &Fatima A. Ahmed, 2012
- 37- E valuation of the performance of banana (*Musa Cavendish*)Albeily cultivar propagated by conventional and tissue culture techniques , Dawoud H.D, &Fatima A. Ahmed, 2012
- 38- How to prepare probably traditional pollen grain Dawoud H.D &Fatima A. Ahmed, 2003
- 39- The proper time to bending Barhi Date palm bunches under Khartoum conditions. Dawoud H.D &Fatima A. Ahmed, 2003
- 40- The effect of different nitrogen sources on the quality and yield of Barhi date palm under the conditions of Khartoum state Dawoud H.D &Fatima A. Ahmed, 2005
- 41- The effect of adding some nutrients on reducing the un fertilized phenomenon on the fruits and their quality on the Barhi fruit variety under Khartoum conditions Dawoud H.D &Fatima A. Ahmed, 2005
- 42- Metazinec effect of sugar palm spath (*P. silvistris*) compared to date palm stallions (*P. dactylifera*) on the characteristics of the fruits of the varieties (Al-Barhi, Majhoul, Mashreq, Wad laggi) Dawoud H.D &Fatima A. Ahmed, 2019
- 43- The effect of potassium fertilizer on reducing the wilting phenomenon (Karmush) on the Berkawi cultivar, Dawoud H.D &Fatima A. Ahmed, 2003
- 44 -How to avoiding effect of rains on palm fruits under rainy areas Dawoud H.D &Fatima A. Ahmed, 2019
- 45 Effect of colors the cover bags on the quality of fruits and yield of Barhi and Majhool dates under Khartoum conditions Dawoud H.D &Fatima A. Ahmed, 2017
- 46 Effect of bagging female inflorescence, after pollination of Barhi and Majhoole date palm cultivars, on fruit set, fruit quality and yield. Dawoud H.D. & Fatima A. Ahmed.2009

Publications in Journals:

- 1- Response of dwarf Cavendish banana to nitrogen fertilization on heavy clay soils. Sudan Journal of Agricultural Research VOL, 2, December 1999
Dawoud H.D.,A.A.Salih and I.A.Ali
- 2-Effect of different nitrogen rates on growth and yield of Guava (*Psidium guajava* L) at New Halfa. Sudan Journal of Agricultural Research VOL., 11, 2008, Dawoud H.D., Fatima A.Ahmed and A.Ali Salih
- 3 -Isolation and Pathogenicity of the Causal Fungus of Black Scorch Disease in Sudanese Date palm.U.of K.J. Agric. Sci 16(1), 109-124, 2008. Awadalla I.A.Irabi, Siddig M.Elhassan, Dawoud H.D,

- 4- Performance of Sweet Orange Varieties under Jabel Marra Conditions. Sudan Journal of Agricultural Research VOL., 13 -2009, Dawoud H.D. Fatima A.El-Rauof and M. E. Biely
- 5 -Evaluation of Pollination ability and metazenic effects of date palm males, on two females cultivars Mishrig Wad Laggai and Mishrig Wad Khatiab at New Halfa Sudan Journal of Agricultural Research VOL.,12-2008, Dawoud H.D.and Fatima A.El-Rauof.
- 6- Effect of pollination day time on fruit set and quality of Date palm cultivar Mishrig Wad Laggai under Khartoum Conditions Sudan Journal of Agricultural Research VOL., 12-2008, Dawoud H.D.and Fatima A.El-Rauof
- 7 -Receptivity of Pistilate flowers of Mishrig Wad Laggai Date Palm Grown under Khartoum Conditions. Sudan Journal of Agricultural Research VOL.,14-2009. Dawoud H.D. and Fatima A.El-Rauof.
- 8- Effect of Pruning on Yield andFruit Quality of Date Palm cultivar Mishrig Wad Laggai under Khartoum Conditions. Sudan Journal of Agricultural Research VOL., 13-2009. Dawoud H.D. and Fatima A.El-Rauof.
- 9- Top –working techniques to change undesirable mango cultivars. Sudan Journal of Agricultural Research Vol., 23-2014 , page 65-74 Dawoud H.D.and Fatima A.El-Rauof.
- 10- Performance of Valencia Orange Varieties under Khartoum Conditions. Dawoud H.D. and Fatima A.El-Rauof.
- 11- Seasonal Fluctuation in Nutrient Levels of Bearing and Non-bearing Terminals in Redblush grapefruit. Journal of Advanced and Innovative Research Vol., 4, Issue 4, April, 2015, Dawoud H.D.and Fatima A.El-Rauof.
- 12- Evaluation study of some table Grape Genotypes selected from Khartoum orchards, Journal of Network communications and Emerging Technologies, Volume 2, Issue 2, June (2015), Dawoud H.D.and Fatima A.El-Rauof.
- 13- Effects of pollen type on fruit-setting yield and some physical fruit properties of Barhi and Majdole Date palm Cultivars. International Journal of Engineering Associates .Vol., 4, Issue 4, Dawoud H.D. and Fatima A.El-Rauof.
- 14- Nutrition Survey of Fruit Trees Growing In Khartoum State. International Journal of Engineering Associates .Vol., 4, Issue 4, Dawoud H.D.and Fatima A.El-Rauof.
- 15- Effect of Foliar Application of Micronutrients on Yield and Fruit Quality of Citrus.Proc.2nd Sudanese-Egyptian Workshop on Micronutrients and Plant Nutrition.Dec.1992 Wad Medani - Sudan Eds: M.M.El-Fouly and A.I.Rezk,pp.:69-70 (1995) . Dawoud H.D.
- 16- Performance of Red blush grape fruit Budded on Different Citrus rootstocks under Shambat Conditions. Sudan Journal of Agricultural Research VOL., 12-2008. Dawoud H.D. and Fatima A.El-Rauof.
- 17- Improving nutritional status, yield and fruit quality of Barhi Date palm cultivar by using different levels of elemental sulphur fertilization under Soba Conditions. Journal of Network communications and Emerging Technologies. Volume 2, Issue 2, June (2015) Dawoud H.D.and Fatima A.El-Rauof.
- 18- Evaluation of physio- chemical characteristics and yield of some mango (Mangifera indica L) Sudan Journal of Agricultural Sciences. Volume 2 Issue1 ISSN 1858-6414 July 2015. Dawoud H.D. El Shafa A.A.and Fatima A.El-Rauof.
- 19- Evaluation of some seedlings date palm cultivars grown along Wadi Kutom. Journal of Advanced and Innovative Research .Vol. 4, Issue 4, April, 2015. Dawoud H.D.and Fatima A.El Rauof.

20- Effect of Rejuvenation Techniques on Yield and Fruit Quality of Old trees of Mango cvs Alphonse and Qualb Altour. International Journal of Engineering Associates. Vol., 4, Issue 4, April, 2015. Dawoud H.D.and Fatima A.El-Rauof.

21- Effect of different nitrogen sources on yield and quality of date palm Barhi cv. grown on heavy alkaline soils ,Sudan Journal of Agricultural Research VOL., 22- 2017, Dawoud H.D.and Fatima A.El-Rauof.

22-Effect of different rates of Potassium sulfate fertilizer on Al–Beilly Banana(*Musa cavendishi* L) under Khartoum Conditions. Sudan Journal of Agricultural Research VOL., 28(1)- 2018. -Dawoud H.D and Fatima A.El Rauof.

23- Performance of Red blush grape fruit budded on different Citrus rootstocks under Shambat Conditions, Sudan Journal of Agricultural Research VOL., 28- 2018, Dawoud H.D. and Fatima A.El-Rauof.

24- Response of Guava (*Psidium guajava* L) to Different Rates of Potassium Sulfate Fertilizer on Growth and Yield under Khartoum State conditions. Sudan Journal of Agricultural Research VOL.19- 20176, Dawoud H.D. and Fatima A.El-Rauof.

25- Comparative Study between Different Propagation Method of Guava in the Sudan, Sudan Journal of Agricultural Research VOL., 21- 2017 Dawoud H.D. and Fatima A.El Rauof.

26- Effect of different levels of elemental Sulpher fertilizer on the growth, fruit quality, yield, and nutrient levels in the leaves of Red blush grape fruit cultivar under southern Khartoum condition, Sudan Journal of Agricultural Research VOL., 18(1)- 2018, Dawoud H .D.and Fatima A.El Rauof.

27- Effect of different rates of Potassium sulfate fertilizer on Mango,(*Mangifera indica* L) under Khartoum Conditions Sudan J. of Agric. Research VOL., 27(2)- 2017, Dawoud H.D. and Fatima A.El Rauof.

28- Effect of different levels of elemental Sulpher fertilizer on the growth, fruit quality, yield, and nutrient levels in the leaves of Red blush grape fruit cultivar under southern Khartoum condition, Sudan Journal of Agricultural Research VOL., 28(1)- 2018, Dawoud H.D. and Fatima A.El Rauof.

29- Effectiveness and suitability of vapor heat treatment in disinfestation of export mango fruit ,cultivar Abu Samaka, from fruit flies, Gezira journal of agricultural science Vol.15(1) 2017, Dawoud H.D. Ahmed H M. and Fatima A.El-Rauof.

30- Effect of Delaying Pollination on Receptivity of Pistilate flowers, Fruit Quality and yield of Barhi Date Palm Grown under Khartoum Conditions, Sudan Journal of Agricultural Research Vol., 26(2)-2016, Dawoud H.D. and Fatima A.El-Rauof.

31- Metazenia effect of sex males on Maturity period, Quality and yield of Barhi Date Palm variety under Khartoum condition Sudan Journal of Agricultural Research Vol., 27(1)-2017, Dawoud H.D. and Fatima A.El-Rauof.

32- Performance of some polyembryonic mango rootstocks under nursery conditions, Sudan Journal of Agricultural Research Vol.,26(1) 2016, Dawoud H.D. and Fatima A .El-Rauof.

33- Physico-chemical Evaluation of Some Introduced Date Fruits Cultivars grown under Sudanese conditions , Persian Gulf Crop Protection, March 2014 , Volume 3 Issue 1 ,Dawoud H.D ,Fatima A.El-Rauof, and Islam K. Saeed

34-, Nutritional changes of Barakawi dates cv infested by date palm dust mite *Oligonychus afrasiaticus* Meg., as measured by Physical and chemical parameters. Persian Gulf Crop Protection, June 2014 , Volume 3 Issue 5, Dawoud H.D ,Fatima A.E Rauof, and Islam K. Saeed

- 35- The Status of Urban and Peri-urban Agriculture in Khartoum, Sudan. Tropentag, 11-13, 2006, Bonn. Kamal El- Siddig, Jens G., Hussein Dawoud, Andreas Buerkert.
- 36-, Performance of Red blush grape fruit Budded on Different Citrus rootstocks under Shambat Conditions, Sudan Journal of Agricultural Research Vol., 21-2017, Dawoud H.D. and Fatima A.El-Rauof.
- 37- Effect of Different pollination techniques on fruit set, fruit quality and yield of Barhi date palm cultivar, Sudan Journal of Agricultural Research Vol., 30(1)-2020 ,Dawoud H.D. and Fatima A.El-Rauof .
- 38- Improving of Fruit Quality and Yield of Barhi Date Palm Cultivar (*Phoenix dactylifera* L.) by Thinning Practices, Sudan Journal of Agricultural Research Sudan Journal of Agricultural Research Vol., 29-2019 -53-64,Dawoud H.D. and Fatima A.El-Rauof.
- 39- Effect of different levels of elemental Sulpher fertilizer on the growth, fruit quality, yield, and nutrient levels in the leaves of Red blush grape fruit cultivar under southern Khartoum condition, Sudan Journal of Agricultural Research Vol., 21-2017, Dawoud H.D. and Fatima A.El Rauof.
- 40- The effect of bagging the Spathes after pollination on Yield and quality of Barhi and Majdool Dates under Khartoum condition-Sudan, Sudan Journal of Agricultural Research 2019 - Vol., 29 (1) 43-52, Dawoud H.D. and Fatima A.El-Rauof.
- 41- Effect of foliar and soil application fertilizers on fruit quality, yield and nutrients uptake of mango (*Mangifera indica* L) under Khartoum Conditions. Sudan Journal of Agricultural Research Vol., 21-2017, Dawoud H.D. and Fatima A.El-Rauof.
- 42- Effect of different levels of elemental Sulpher fertilizer on the growth, fruit quality, yield, and nutrient levels in the leaves of Red blush grape fruit cultivar under southern Khartoum condition. Sudan Journal of Agricultural Research Vol., 28 (1) 2018, Dawoud H.D. and Fatima A.El-Rauof.
- 43- Effect of different rates of Potassium sulfate fertilizer on Al-Beilly Banana (*Musa cavendishi* L) under Khartoum Conditions, Sudan Journal of Agricultural Research Vol., 28(1)-2018, Dawoud H.D. and Fatima A.El-Rauof.
- 44- Response of Guava (*Psidium guajava* L) to Different Rates of Potassium Sulfate Fertilizer on Growth, fruit quality and Yield, Under Khartoum State Conditions. Sudan Journal of Agricultural Research Vol.28 (1)-2018, Dawoud H.D. and Fatima A.El-Rauof.
- 45- تقييم وتوصيف نخيل التمر بوادي كتم ،مجلة الشجرة المباركة جائزة الخليفة الدولية العدد03 المجلد الحادي عشر، أكتوبر 2019 ص.60-74 داود حسين داود وفاطمة عبد الرؤوف أحمد .
- 46- الأثر الميئازيني لسبعه أفل مختلفة علي الخصائص الثمريه وفترة نضج ثمار تمور المجهول تحت ظروف الخرطوم،مجلة الشجرة المباركة جائزة الخليفة الدولية العدد02 المجلد العاشر، أكتوبر 2018 ص. 36-44، داود حسين داود وفاطمة عبد الرؤوف أحمد .
- 47 - العمليات الفلاحية المتبعة لرفع إنتاجية نخيل التمر في السودان،مجلة الشجرة المباركة جائزة الخليفة الدولية العدد03 المجلد التاسع،ديسمبر 2017 ص. 116-144 ، داود حسين داود وفاطمة عبد الرؤوف أحمد.

48- كيفية إنشاء بستان نخيل التمر بالسودان مجلة الشجرة المباركة جائزة الخليفة الدولية المجلد الرابع عشر ، عدد أغسطس 2022 ، فاطمة عبد الرؤوف أحمد و داود حسين داود .

49- حزمة تقانات للنهوض بصنف المجهول في السودان مجلة الشجرة المباركة جائزة الخليفة الدولية المجلد الثالث عشر، العدد02 أكتوبر2021 ،داود حسين داود .

50 - أثر إضافة بعض العناصر الغذائية علي تقليل ظاهرة شيص ثمار البرحي وجودتها تحت ظروف الخرطوم مجلة الشجرة المباركة جائزة الخليفة الدولية المجلد الثالث عشر، العدد01 مارس2021 ،داود حسين داود .

51 - Effect of different pollen sources on yield and fruit quality of Barhi (*Phoenix dactylifera L.*) Date Palm Cultivar under Sudan conditions, Egyptian International Journal of Palms, Volume 1 issue July 2021-On lineISSN2735-5152, -page34-42, Dawoud H.D. and Fatima A.El-Rauof.

52- Improving of fruit quality and yield of Barhi(*Phoenix dactylifera L.*) Date Palm Cultivar by Thinning practices, Egyptian International Journal of Palms. Volume 1 issue July 2021-On lineISSN2735-5152, page43-50, Dawoud H.D. and Fatima A.El-Rauof.

53- The effect of bagging the Spathes after pollination on Yield and quality of Barhi and Majdool Dates under Khartoum conditions –Sudan, Egyptian International Journal of Palms. Volume 1 issue July 2202-On lineISSN2735-515

54- Avoiding the Effects of Climate Risks on Some Types of Sudanese date. The Blessed Tree magazine, Vol. No 14-IssueNo.04 , November 2022 pag 39-48 ,Khalifa international Award for Date palm and Agricultural innovation. Dawoud H.D. and Fatima A.El-Rauof

Publications as proceeding

1- Effect of Foliar Application of Micronutrients on Yield and Fruit Quality of Citrus.Proc.2nd Sudanese-Egyptian Workshop on Micronutrients and Plant Nutrition.Dec.1992 Wad Medani-Sudan Eds: M.M.El-Fouly and A.I.Rezk, pp.:69-70 (1995), Dawoud H.D..

2. The Status of Urban and Peri-urban Agriculture in Khartoum, Sudan.Tropentag, 11-13, 2006, Bonn , Kamal El-Siddig, Jens G., Hussein Dawoud, Andreas Buerkert. Conferences and Workshop Publications

1 -Banana Research Activities in the Sudan. Uganda, 1998, International Network for improvement Banana plantain (8-10/3/1998

2- The First International Date Palm Conference in the United Arab Emirates - Al Ain University (8-10 Marsh1998), I participated with 4 papers:

*Evaluation of Nine Seeding date palm males used in pollination and their Metazenic effect on two female cultivars Mishrig Wad Laggai and Mishrig Wad Khatiab at New Halfa area.

*Effect of different irrigation intervals on the growth rate , yield and fruit quality of Mishrig Wad Laggai and Mishrig Wad Khatiab

* Factors affecting growth and rooting of date palm offshoots

*Study on some phenotypic variation between Mishrig Wad Lagga& Mishrig Wad Khatiab

3 - The Second International Date Palm Conference in the United Arab Emirates - Al Ain University (8-10 March 2004), I participated with a paper:

*Effect of different nitrogen sources on yield and quality of date palm Barhi cv. grown on heavy alkaline soils

The First International Scientific Conference for the Development of Date Palm and 4- Dates sector in the Arab World. Riyadh, KSA 2011. I participated with a paper:

*Effect of different levels of elemental sulfur fertilizer on the Growth, fruit quality, yield, and nutrient levels in the leaves of Mishrig Wad laggai date palm cultivar under Al Mukabrab Conditions. Arab Palm Conference Riyadh, KSA 2011

5 -The Seventh International Date Palm Conference in the United Arab Emirates - Al Ain University (14-16 March 2022)

*The current situation and future prospects for manufacturing date products and palm waste In Sudan

General papers in Different conferences and work shops

- 1- تقانات النخيل وأفاق التوسع في زراعته في السودان
- 2- الندوة القومية حول استخدام الحزم التقنية لتحسين إنتاج النخيل ، البحرين ، (المنامة). 1998 المنظمة العربية للتنمية الزراعية
- 3- الأشجار المثمرة في السودان، لقاء مسؤلى الأشجار المثمرة لمناقشة وثيقة مشروع تطوير الأشجار المثمرة ووقايتها،بيروت الجمهورية اللبنانية، 1996
- 4 -ندوة زراعة النخيل في المدن، هيئة تطوير مركز الخرطوم 2000/10/10
- 5 - الجهود البحثية المبذولة لإنتاج المانجو في السودان. ورشة عمل مستقبل المانجو في السودان 2005 وزارة الزراعة والغابات، إدارة القطاع البستاني الخرطوم
- 6 أداء أصناف الحمضيات وأنوعها المختلفة تحت الظروف المناخية المختلفة في السودان (1969-2004)
- 7 ورشة عمل مستقبل زراعة الحمضيات في السودان وزارة الزراعة والغابات، إدارة القطاع البستاني الخرطوم، بالاشتراك مع الباحث فاطمة عبد الروؤف
- 8 ورشة العمل الإقليمية حول مشاكل النخيل في السودان. جامعة السودان للعلوم والتكنولوجيا. قاعة الشهداء للمؤتمرات. 2003. وشاركت بتقديم أوراق وهي
- * العمليات الفلاحية لنخلة التمر مع د. محمد بدوى حسين بجامعة السودان
- * المقتنات المائية لنخلة التمر مع ب أحمد على صالح
9. الحشرة القشرية الخضراء للنخيل بالولاية الشمالية. بالاشتراك مع د. موسى عبد الله و د. أحمد حسن
- 10 أفاق التوسع في زراعة المانجو في السودان -2008- وزارة الزراعة والغابات، إدارة القطاع البستاني الخرطوم، بالاشتراك مع الباحث فاطمة عبد الروؤف
- 11- التقانات الحديثة لإنتاج شتول الفاكهة في السودان وأهمية تطبيق قانون المشاتل 2011 وزارة الزراعة والغابات، إدارة القطاع البستاني الخرطوم
- 12 تطور أصناف المانجو السودانية والتي أستقدمت بواسطة (مستر ثرور 1942) قاعة هيئة البحوث الزراعية مدني 2015
- 13 قضايا وأفاق التمور الرطبة وامكانيات النهوض بها في السودان محاضرة افتراضية عبر التقنية المرئية – ورشة عمل – معاملات ما بعد الحصاد للتمور الرطبة وشبه الرطبة في الوطن العربي – اتحاد مجالس البحث العلمي العربية. 2021/6/
- 14 -إستراتيجية زراعة النخيل وتوزيع الأصناف الهامة في السودان (محاضرة افتراضية. دولة الإمارات العربية المتحدة – جائزة خليفة لنخيل التمر والابتكار الزراعي. 18 نوفمبر 2020
- 15 - ورشة تقييم وتطوير صادر المنتجات البستانية -الأمكانيات المتاحة لإنتاج وتصدير الفاكهة الهيئة العامة للمواصفات والمقاييس -قاعة الشارقة – 2022/10/11
- 16- التغير المناخي علي نخيل التمر ومواجهة آثاره السالبة بالممارسات الزراعية الجيدة في السودان (ورقة المنظمه العربية للتنمية الزراعية) داود حسين داود -محاضرة علمية -المؤتمر الرابع لنخيل التمر- جائزة خليفة الدولية- قاعة الصداقة 2022/12/1

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- Possibilities of Improving fruit culture in Somaliland consultation mission –FAO-May July2012
- Feasibility study for Kenana and Rahad II Irrigation projects, Horticulture, Rahad II, Lahmeyer international 2007
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- Participation in the development of an investment map for Sennar State (IFAD)
- Technical, Financial and Economic Feasibility study for Kannar Agricultural Project North state of Sudan,2015 Arab Authority Center for Consulting Services (AACCS)
- Technical, Financial and Social Economical Feasibility study for Tordat El Rahad-North Kordfan State-2012, Council Ministers, of Sudan Government
- Feasibility study for Sondus Agricultural project, Proposed Horticultural crops, Golder Company, South Africa 2007.
- A prefeasibility study of lime export project –Sudan- June 2016 .
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- دراسة تحليلية للأنظمة الزراعية في مناطق النخيل التقليدية وتقييم المنعكسات الاقتصادية والاجتماعية للمعوقات الفنية التي تجابه قطاع النخيل في جمهورية السودان. المركز العربي لدراسات المناطق الجافة والأراضي القاحلة . شبكة بحوث وتطوير النخيل. 1997
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- تقانات النخيل وأفاق التوسع في زراعته في السودان
- الندوة القومية حول استخدام الحزم التقنية لتحسين إنتاج النخيل. البحرين، (المنامة). 1998 المنظمة العربية للتنمية الزراعية.
- الأشجار المثمرة في السودان، لقاء مسؤلى الأشجار المثمرة لمناقشة وثيقة مشروع تطوير الأشجار المثمرة ووقايتها، بيروت الجمهورية اللبنانية، 1996
- أداء أصناف الحمضيات وأنوعها المختلفة تحت الظروف المناخية المختلفة في السودان (1992-2004) ورشة عمل مستقبل زراعة الحمضيات في السودان وزارة الزراعة والغابات، بالاشتراك مع الباحث فاطمة عبد الرؤوف.

Technical Books and Booklets (In Arabic)

1. تقانات إنتاج وزراعة نخيل التمر في السودان.وزارة العلوم والتكنولوجيا،هيئة البحوث الزراعية.2006
2. أساسيات زراعة وإنتاج الفاكهة في السودان،الجزء الأول،جامعة السودان المفتوحة،برنامج التربية. 2007
- 3- الموالح، تقانات زراعتها والأسس العلمية لإنتاجها. وزارة العلوم والتكنولوجيا،هيئة البحوث الزراعية. 2007
- 4- تقانات إنتاج وإنضاج الموز في السودان. وزارة العلوم والتكنولوجيا،هيئة البحوث الزراعية. 2008
- 5 -أهم نباتات الزينة في السودان.تكاثرها وطرق تنسيقها. هيئة البحوث الزراعية2005
- 6 أهم تقانات النخيل وأفاق التوسع في زراعته في السودان
- 7 الندوة القومية حول استخدام الحزم التقنية لتحسين إنتاج النخيل. البحرين، (المنامة). 1998 المنظمة العربية للتنمية الزراعية.
- 8 الأشجار المثمرة في السودان،لقاء مسؤلى الأشجار المثمرة لمناقشة وثيقة مشروع تطوير الأشجار المثمرة ووقايتها، بيروت الجمهورية اللبنانية، 1996
- 9 أداء أصناف الحمضيات وأنوعها المختلفة تحت الظروف المناخية المختلفة في السودان (1992-2004) أصناف وسلالات المانجو في السودان

- 10 تقانات زراعة الحمضيات و إنتاج الشتول الخالية من الأمراض في السودان هيئة البحوث الزراعية. 2016
- 11 تقانات زراعة وأنتاج المانجو في السودان هيئة البحوث الزراعية. 2017
- 12 زراعة التمور وأنتاج النخيل في السودان
- 13 - دليل نقص العناصر الغذائية علي أوراق وثمار أشجار الفاكهة وبرامج التسميد الموصي بها وكيفية أخذ عينات الأوراق والتربة للتحليل 2020 مركز بحوث المحاصيل البستانية هيئة البحوث الزراعية
- 14 -زراعة نخيل التمر.الولاية الشمالية وزارة الزراعة والثروة الحيوانية. هيئة البحوث الزراعية
- 15 تقويم لأهم تقنيات إنتاج التمور. الولاية الشمالية وزارة الزراعة والثروة الحيوانية. هيئة البحوث الزراعية.
- 16 تقويم تقانات زراعة النخيل بوادي كتم. جمعية الإرشاد الزراعي والتنمية بوادي كتم مشروع الأمن الغذائي
- 17 النخيل والأسس العلمية لزراعته. ولاية الخرطوم وزارة الزراعة والثروة الحيوانية والري. الإدارة العامة لنقل النقانة والإرشاد.
- 18 النخيل و تقانات زراعته تحت ظروف البحر الأحمر منظمة تنمية ساحل البحر الأحمر وشرق السودان (SOS)
- 19 المانجو - ولاية الخرطوم وزارة الزراعة والثروة الحيوانية والري. الإدارة العامة لنقل النقانة والإرشاد.
- 20 الجوافة ولاية الخرطوم وزارة الزراعة والثروة الحيوانية والري. الإدارة العامة لنقل النقانة والإرشاد.
- 21 الموز. ولاية الخرطوم وزارة الزراعة والثروة الحيوانية والري. الإدارة العامة لنقل النقانة والإرشاد.
- 22 دليل زراعة وإنتاج العنب. ولاية الخرطوم. وزارة الزراعة والري بالتعاون مع هيئة البحوث الزراعية.
- 23 دليل زراعة وإنتاج الحمضيات (ولاية الخرطوم). وزارة الزراعة والثروة الحيوانية والري بالتعاون مع هيئة البحوث الزراعية
- 24 لدليل الأسترشادي العربي لتداول ثمار الفاكهة الحمضيات " الموالح" - بالاشتراك مع أ.د. هشام علي علام (مصر) وم. هيثم حمدان حمدان (الاردن) . جامعة الدول العربية، الخرطوم. المنظمة العربية للتنمية الزراعية الخرطوم - أب- أغسطس 2017
- 25 الدليل الأسترشادي العربي لنقص العناصر الغذائية علي أشجار الفاكهة - بالاشتراك مع أ.د. فاطمة عبد الرؤوف أحمد) . جامعة الدول العربية، الخرطوم. المنظمة العربية للتنمية الزراعية الخرطوم 2022
- 26 الدليل الأسترشادي المصور عن تقنيات زراعة وأنتاج وأنضاج الموز بالسودان . وزارة الزراعة والثروة الحيوانية والري بالتعاون مع هيئة البحوث الزراعية

26- Through program of (Development of Date palm products and by products value chains in Sudan) FAO, I have wrote these Booklets to improve the situation of Date palm in the Sudan (In Arabic)

Booklet or Extension Pamphlet for date palm growers	سلسلة النشرات الإرشادية لنخلة التمر	
Improvement of date palm harvesting practices	ترقية حصاد التمور في السودان	1
Varieties of Sudanese dates	أصناف التمور السودانية	2
Cleaning, and pruning practices of date palm trees in Sudan	نظافة وتقليم وتكريب النخيل في السودان	3
Abnormal physiological phenomena - on the Sudanese date palm	الظواهر الفسيولوجية الشاذة في بساتين نخيل التمرفي السودان	4
Pollination practices and male selection of date palms in Sudan	التلقيح وانتخاب الأفلح في السودان	5
Thinning , bending and covering of the bunch in of date palm in Sudan	خف وتدلية عذوق النخيل في السودان	6
Irrigation practices of date palm orchard in Sudan	ري بساتين النخيل في السودان	7
Fertilizer application practices in date palm orchards in Sudan	تسميد بساتين النخيل في السودان	8
Propagation practices of date palms in Sudan	أكثر نخيل التمر في السودان	9

Establishment of date palm orchards in Sudan	إنشاء بساتين نخيل التمر في السودان	10
Food Industry products from date palm in Sudan	صناعات ومنتجات التمور الغذائية في السودان	11
Secondary by-products of Date palm in Sudan	المنتجات الثانوية للنخيل في السودان	12

*400 copies of each publication were printed and distributed to palm growers in Sudan

27- Khalifa international award for date palm and Agricultural innovation , asked me to participate in the Fifty Book Award, and I issued a book titled “Strategy for Cultivation of Date Varieties in Sudan” In Arabic (استراتيجية زراعة أصناف التمور في السودان)

28-Also they asked me to write a subject in a book about (Al Majhoole variety) and I have wrote a (the success of cultivating the Majdool variety in Sudan)

Membership in Professional Associations and Publications:

- Member of Sudanese of Horticultural Society.
- Member of the Sudanese Date Palm Society.
- Member of Sudanese Environment Society.
- Member of Board of Sudan Academy of Science (SAS).

Training & Workshops Activities:-

1. Jointly with NGO’S,) Oxfam Agro- Action, SOS and G.T.Z.) Training workshops were conducted to raise the stander and to train the local leaders and extension the new modern techniques of fruit cultural practices as follows:
2. How to improve the yield and quality of date palm growing at Kutom Valley –GTZ May 7-15\2007 –Kutom .
3. How to planting Date palm off shoots with water table levels to avoid draught period at Northern Kordufan. Oxfam Feb. 5-20-2007
4. How to control the green scale insects by cultural practices-Dongola-Oxfam, Sep 6-17-2008
5. How to improve the fruit nursery techniques at Northern Darfur German Agro-Action Feb. 10-17-2006
6. Training course for agricultural operations of the date palm. Palm Development Center in Al -Greaf Garb 3-28/Jun/2006
7. Training course for nursery technicians and workers, on the reproduction of fruit trees. In coordination with the Agricultural Extension Department, North Darfur, 20-30 October 2005
8. Training course for Agricultural operations of the date palm and its relationship to palm diseases and pests. Palm Development Center in Greif Garb 25-29 June 2007
9. Training course for Imry’ project farmers on the most important agricultural operations for fruit trees October 5-12, 2008
10. Training course for controlling insects and pests on date palm by improving agricultural operations for fruits and palm trees Marwy (Northern state) 11--14/7/2007
11. Training course for controlling insects and pests on date palm by improving agricultural operations for fruits and palm trees Dongla (Northern state) 17-21/7/2007
12. The first training course on land scape ,ornamental plants and flower arranging at Shambat station 3-9/10/2004
13. Training course on grape pruning and production in North Omdurman 4-7/10/2006
14. Training course for nursery technicians and workers, on the reproduction of fruit trees. In coordination with the Department of Agricultural Extension 5-8/November 2009

15. Training course for technicians, nurseries workers and specifications officials to produce standard citrus and mango seedlings in coordination with the Standards and Metrology Organization 10/27-11/2007
16. The second training course on land scape ,ornamental plants and flower arranging at Shambat station 3-9/10/2005
17. Training course for producers of date paste in River Nile State 15-20/7/2009 in coordination with the Technology Transfer Department of the Federal Ministry of Agriculture
18. Training course for orchards and nurseries inspectors, on the propagation of citrus and mango trees in the states of Blue Nile, South Kordofan and River Nile States, in coordination with FAO, (month per state) 2010
19. Training course for Nile River Date growers to produce Agwa from semi soft dates 15-20/7/2008 in coordination with the Technology Transfer Department at the Federal Ministry of Agriculture.
20. A training program for the training of trainers from the Date palm societies from all over Sudan date palm production states (Northern State, River Nile State, Red Sea State, North Darfur State, Khartoum State) in the period from (1-5 December 2021) In coordination with the Sudanese Date Palm Society the training aim to:
 - *Develop the Date Palm Products and By-products Value Chains in Sudan
 - *Building the capacity of trainees to adopt modern technologies
 - *Promoting the maximum benefit from date products and other parts of the palm tree.

Training:-

- Graduation projects (B.Sc) Faculty of Agriculture, University of Khartoum,
- Dongola, Zalingi, Omdurman Islamic University, Sudan University of Science &Technology. etc (73 students)
- Training of graduate and under graduate from different Universities coming every year Shambat Research station (Pomology &Flower culture)
Supervision (including Internal and external examiner)
- M.Sc. Thesis, Zad Eltagwa M.M.2007 (Characterization of some Bougainvillea varieties in Sudan).Sudan Academy of Science (SAS).Agricultural Research Council
- M.Sc. Thesis, Aiman I.I. (2007) Studies on Mango propagation Techniques. Sudan Academy of Science (SAS).Agricultural Research Council
- M.Sc. Thesis Fadwa M.A.A 2008,,Studies on the vegetative propagation of dwarf lantana (*Lantana montevidensis*) Sudan Academy of Science (SAS).Agricultural Research Council
- Ph.D. Thesis ElShafa A.A. 2008. Characterization of 45 cultivars of Mangoes) Sudan Academy of Science (SAS).Agricultural Research Council
- M.Sc. Thesis Awadalla I.A.Irabi, 2005, Isolation and Pathogenicity of the Causal Fungus of Black Scorch Disease in Sudanese Date palm University of Khartoum.
- M.Sc. Thesis, 2005 Osman A.O.E., Botanical Description, Yield Fruit Quality of Five Date palm cultivars grown in The Northern State, Sudan. University of Gazira
- M.Sc. Thesis, Randa S.M.H.2003.Ivestigation on the causal of Dieback of Twigs and Branches of citrus orchards in Khartoum state .University of Khartoum. Sudan Academy of Science (SAS).Agricultural Research Council
- Ph.D. Thesis. Nagwa Yagoub. 2011. Studies on Cultural practices of in-door Plants used in houses decoration. Sudan Academy of Science (SAS).Agricultural Research Council

- Ph.D. Thesis Mariam A.A.,2011 Evaluation and Identification of seedling date palm females- growing at Marawi area ,(Northern Sudan).Sudan Academy of Science (SAS).Agricultural Research Council
- Ph.D. Thesis, Fatima A.A.2011 , Evaluation and Identification of seedling date palm males used in pollination and their Metazenic effect on Mishrig Wad Laggai, Barakawi and Gondiala date palm cultivar. Sudan Academy of Science (SAS).Agricultural Research Council
- Ph.D. Thesis, Salah D.A.M .,2012. Effect of different poly embryonic mango rootstocks on success of grafting and growth rate of Abu Samaka seedlings. Sudan Academy of Science (SAS).Agricultural Research Council
- Ph.D. Thesis, Salah Babiker. 2006. Evaluation of introduced Cavendish Banana(Muse AAA) Clones grown at Ksssala, Sudan. Gezira University, Wad Medani
- Ph.D. Thesis, Mohamed Y.I 2008. Important Citrus diseases in Sudan University of Khartoum.
- Ph.D. Thesis, Baballa A.Ali, 2010 Effect of Different levels of Nitrogen and water on growth rate of Date palm offshoots under River Nile conditions. River Nile University
- M.Sc. Thesis. Mohamed E.K.2003.Photoperiod response in varieties of Sesame. University of Khartoum.
- M.Sc.Thesis.,Tilal S. A.2008,Causes of chlorosis in(*Ixora coccinea.l*) in specific sites in Khartoum and Kenana, Sudan. University of Khartoum.
- M.Sc. Thesis, Eiman M.A. 2008,Effect of Argel to the soil on Flowering &Yield of Dry Date palm Culture .Sudan University of Science &Technology .
- M.Sc. Thesis Salah D.A.M .,2008.Effect of different methods of vegetative propagation on success percent of Abu samaka Mango. Sudan University of Science &Technology.
- M.Sc. Thesis. Nagwa Yagoub. 2008 Studies on Roses (*Rosa hybrida, L*) propagation Techniques. University of Khartoum.
- M.Sc., Thesis. Nagla Gabr Alla M.. 2008 Effect of Different levels of Nitrogen on growth rate of lime seedlings under Shambat conditions. University of Khartoum.
- M.Sc. Thesis. Sumaya E.M.E. 2006 Studies on Lime (*Citrus auratifolia, L*) propagation Techniques. University of Khartoum.
- M.Sc. Thesis. Hussein A.A. 2005 Effect of different levels of Potassium fertilizer on growth rate, fruit quality and yield of Dwarf Cavendish Banana. University of Khartoum.
- M.Sc. Thesis Intisar M.A.2005 Studies on Banana production under heavy clay soil ,University of al-Gezira
- M.Sc. Thesis. Mohamed M.F., 2005 Evaluation of different Lines of Beladi Lime under Khartoum North conditions, University of Khartoum.
- M.Sc. Thesis. Ayat Sulieman Essa Hamad, 2012, Performance of four date palm (*Phoenix dactylifera L.*) cultivars under Field Condition at Shambat, University of Khartoum.
- M.Sc. Thesis. Salih Ali Abdalla Abdrahman .2012, Factors Affecting Productivity of Guava (*Psidium guajava L.*) and Mango (*Mangifera indica L.*) in Khartoum North District. Sudan University of Science & Technology.
- Ph.D. Thesis, 2011, Afaf Abdelrahim Elgozouli, Characterization and Evaluation of Selected Mango (*Mangifera indica L.*) Cultivars in Sudan using Morphological Descriptors and DNA Molecular Markers, University of Khartoum
- M.Sc.Thesis.2018, Suhair Mohamed-Elamin Hassan Saad. Shambat, University of Khartoum.

- **M.Sc. Thesis 2016, Ahmed Mohamed Golba. Characterization of 25 cultivars of Mangoes at Southern Kadogly) Sudan Academy of Science (SAS).Agricultural Research Council**
- **M.Sc. Thesis.2017, Fakhr El Din Adam Ahmed. Characterization of 20 cultivars of Al Geinaina area) Sudan Academy of Science (SAS).Agricultural Research Council**
- **M.Sc. Thesis 2016, Ahmed Mohamed Kolba. Characterization of 25 cultivars of Mangoes at Southern Kadogly) Sudan Academy of Science (SAS).Agricultural Research Council**
- **M.Sc. Thesis.2018, Awad Mohamed Zain. Characterization of 20 cultivars of Geasn ,Blue Nile State) Sudan Academy of Science (SAS).Agricultural Research Council**
- **Ph.D. Thesis, 2022, Seif Elnasr El Nour Abdalla Ali Selection and Evaluation of Some polyembryonic Mango (*Mangifera indica* L.) Rootstocks as Dwarfing Rootstocks, Omdurman Islamic University.**
- **Ph.D. Thesis, 2022, Ayat Suleiman Essa - Characteristic Seedling Date Palm (*Phoenix dactylifera* L.) Cultivar Grown at Karima Locality, Northern State of the Sudan University of al-Gezira**
- ماجستير ، محمد عبد الله احمد ، 2005 . أثر عمليات فلاحيه مختلفة على إنضاج الموز المتقزم .جامعة امدرمان الإسلامية
- ماجستير، نهلة نجم الدين حسن، 2008، نحو تناسق فعلى للحدائق مع البنيات المعمارية في المؤسسات العامة Sudan Academy of Science (SAS).Agricultural Research Council
- **Ph.D. Thesis, Zad Eltagwa M.M.. 2022, Growth and flowering responses of *Wedelia trilobata* L. Hitch Plant to Nutritional Regimes in Khartoum State .Sudan University of Science &Technology**