



بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ



**THE AGRICULTURAL
RESEARCH CORPORATION
CENTER OF CROP PROTECTION**

**THE 3rd PEST MANAGEMENT
CONFERENCE OF THE SUDAN,
ARC, WAD MEDANI, SUDAN,
February 3rd – 4th 2014**



Conference Program



**THE AGRICULTURAL RESEARCH
CORPORATION**

CENTER OF CROP PROTECTION

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OF THE SUDAN, ARC, WAD MEDANI,
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**THE 3rd PEST MANAGEMENT CONFERENCE OF THE SUDAN, ARC, WAD
MEDANI, SUDAN,**

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Conference Program

Day one, Monday, 3 February, 2014

Opening Session

7:00-9:00. Registration

9:00-10:20. Opening ceremony

Holly Quran

Statements: Organizing committee, DCPRC

DG, ARC

Minster of Agriculture

Waley, Gezira State

Chairperson: DG, ARC, Prof. Ibrahim Eldukheri

10:20-10:40. Keynote from the scientific committee.

Prof. Elamin M. Elamin *et al.*

**10:40-11:00. Plenary 1. Impact of agricultural policies and new concepts on
pests' management.**

Prof. Hamid H. Elfaki *et al*

11:00-11:30. Breakfast / Posters

Day one, Monday, 3 February, 2014

Room 1.

Session 1

Conference and plenary lectures .

- 11:30-11:45: **Conference lecture.** Entomology. Insect pests' management in Sudan, current status, challenges and future perspectives.
Tag Elsir E. Abdalla, Hassan O. Kannan, Susan M. El-Naziir, Ahmed H. Mohamed, Daffalla E. Yousof, Ensaf S. Idris, Khidir G. Musa and Ali E. Ali
- 11:45-12:00: **Conference lecture.** Plant pathology. Plant Diseases in Sudan: Current situation, challenges and future perspectives.
Nafisa E. Ahmed, Mutwakil A. Mahir, Gamal A. Elbadri, Abdelmagid A., Salah M Eltayb , Abdalla M.A. Kurmut and Omayma E. Mohamed,
- 12:00-12:15: **Conference lecture.** Weeds science. Weeds and weed problems in Sudan: Current challenges and future perspectives.
E. S. Mohamed, Mubarak H. A., D. A. Dawood, N. E. Ibrahim, K. A. M. Bedery, N. K. Abdalla, K. I. Idris, M. E. Elkhawad, E. A. Ahmed, A. S. Osman and A. A. El Awad
- 12:15-12:30: **Plenary 2.** Pests control strategy of the plant Protection Directorate.
Khidir Gibril Musa
- 12:30-12:45: **Plenary 3.** Interaction of weathers elements changes and insect pests dynamics. Hussein S. Adam, Tag Elsir E. Abdalla and Ahmed E. Mohamed
- 12:45-13:00: **Plenary 4.** Advantages of early season weed control in crop enhancement and yield management.
Chilenga Chama and Leon van Wyk (Syngenta Company).
- 13:00-13:15: **Plenary 5.** A new type formulation. Bayer Presentation.
- 13:15-13:30: Stewardship Vision 2020, Crop life. Ai Mohamed Ali

13:30 – 14:30 Prayer / Health Break

Date: Monday, 3 February 2014. Session 1 (1+2) / Time: 14:30 – 15:45

Time	Room 1- Hussein Idriss Hall	Room 2 - ARC Meeting Hall
	<u>1.1 Entomology</u> Biological Control (BC) Chairperson: Prof. Elamin M. Elamin	<u>1.2 Weed Science</u> CHEMICAL WEED CONTROL (WH)I Chairperson: Chilenga Chama
14:30-14:45	1.1.1 <i>Trichogramma</i> rearing technique in Sudan and effect of cold storage of host eggs on parasitism and of preimaginal parasitoids on adults' emergence. Tag Elsir E. Abdalla	1.2.1 Towards Responsible and Efficient Application of Herbicides in Mechanized Rainfed Farms- Eastern Sudan. Lotfie A. Yousif, Amin Khidder Balla and Magdi Ahmed Bakhiet
14:45-15:00	1.1.2 Establishment and parasitism efficiency of <i>Trichogramma principium</i> (Sugonyaev et Sorokina) on <i>Helicoverpa armigera</i> (Hb.), infesting cotton in Sudan. Tag Elsir E. Abdalla, Ahmed M. Elmustafa and Hassan A. Mubarak	1.2.2 Efficacy of pre-emergence herbicide atrazine for weed control in maize. Khogali Izzeldin Idris ¹ , Dafalla Ahmed Dawoud ² , Hassan Abdelgadir ² , Rwada Y. ElHabieb ² and Lubna E. Khidir ²
15:00-15:15	1.1.3 Sterile Insect technique (SIT): Successes, Challenges and constraints on an area wide basis. M. Msaad Guerfali	1,2.3 Efficacy and selectivity of S-metolachlor + terbuthylazine and S-metolachlor + atrazine for weed control in maize (<i>Zea mays</i> L.). ¹ Kamal, A. M. Bedry, ² N. E. K. Abdalla ¹ and ³ R. Y. El Habieb
15:15-15:30	1.1.4 Development of a fungal based-product for the control of western flower thrips, <i>Frankliniella occidentalis</i> (Pergande). Saliou Niassy, Sevgan Subramanian, Sunday Ekesi and Nguya K. Maniania	1.2.4 Effects of S. metolachlor 312.5/terbuthylazine 187.5 on pre emergence weed control in sorghum. Hassan Abdelgadir, Dafalla A.Dawoud, Mohammed Elkhawad, Lubna EL. Khidir and Rawda Y. EL Habieb
15:30-15:45	1.1.5 Parsimonious management of the Desert Locust, <i>Schistocerca gregaria</i> (Forsk.) nymphs by the use of the gregarious adult pheromone phenylacetone nitrile (PAN). Magzoub Omer Bashir	1.2.5 Effects of pre-sowing irrigation followed by glyphosate application on weed control and wheat yield. Abosofian S. Osman, M. El khawad and Dafalla A. Dawoud
15:40-16:00	1.1.6 Prospects of biological control of date palm green pit scale insect <i>Asterolecanium phoenicis</i> Rao. (Homoptera: Asterolecaniidae) in Sudan. Daffalla Elrayh Yousif, Mohammed E. E. Mahmoud and Ahmed Hassan Mohamed	1.2.6 Evaluation of pyroxsulam for post-emergence weeds control in wheat Kamal. A. M. Bedry ; L. El Khidir and R. Y. El Habieb
16:00- 17:00	Lunch Break/ Poster	

Date: Monday, 3 February 2014. Session 1(3+4) / Time: 14:30 – 15:45

Time	Room 3- Soil Hall	Room 4 - IPM Hall
	<u>1-3.Plant Pathology</u> Molecular Characterization (MC) <u>Chairperson: Prof. Mohamed</u> <u>Elfatih Khalid</u>	<u>1.4 – Pesticides 1</u> Chairperson: Elsir Omer
14:30-14:45	1.3.1 Plenary Paper. Evolution in virulence and pathogenicity of plant pathogens Nafisa E. Ahmed	1.4.1 Plenary Paper. Effect of Test temperature on the Values of Free Acidity, pH, Viscosity, Wettability, and Emulsion Stability on Emulsifiable Concentrates and Wettable Powders Formulations. Sit Elbanat M. A. Elmardi, Nabil H. H. Bashir, and Yousif O. H. Assad
14:45-15:00	1.3.2 RAPD analysis of <i>Radopholus similis</i> populations. G.A.A. Elbadri .	
15:00-15:15	1.3.3 Molecular Characterization of <i>Xanthomonas campestris</i> pv <i>malvacearum</i> Isolates Based on RAPD Markers in Sudan. S. M. Adam, N. E. Ahmed, M. O. Idris and A. M. Ali	1.4.2 The ameliorating effects of green tea extract against cyromazine and chlorpyrifos induced hepato, renal and reproductive toxicities in male rats Tarek M. Heikal
15:15-15:30	1.3.4 Influence of <i>VdNEP6</i> gene on <i>Verticilium dahliae</i> (Kleb) Cotton Isolates Divergence. S. M. Adam, L. Li, J. Y. Chen and X. F. Dai	1.4.3 Oxidative damage and nephrotoxicity induced by prallethrin in rat and the protective effect of <i>Origanum majorana</i> essential oil Amel Rafai, Amal Ramdan, Abdel-Tawab H. Mossa
15:30-15:45	1.3.5 PMC4. Genetic variability of <i>Fusarium oxysporum</i> f sp <i>ciceris</i> the causal agent of Fusarium wilt of chickpea in Sudan. Omya Elmahi Mohamed, Alaa Hamawieh, Nafisa Elmahi Ahmed and Seid Kemal Ahmed	1.4.4 Efficacy of some insecticide and fungicide seed dressing mixtures for the control of flea beetle, <i>Podagrica</i> spp and diseases on cotton. Hassan O. Kannan, Sami M. Adam, Gamal A. Elbadri, Abdalla A. Mohamed, Betijock J. Oraj, Khansa M. Mekki and Amani, E. Elhag
15:45-16:00	1.3.6 Finger prints of Some Indigenous Isolates of Sorghum Head Smut Pathogen <i>Sporisorium reilianum</i> in Sudan as revealed by RAPD Analysis. Elsafi Mustafa Mohamed Ahmed, Mohamed Elfatih Khalid Ali	1.4.5 Genotoxicity associated with lipid peroxidation and oxidative damage in the liver of rat exposed to prallethrin: the protective role of <i>origanum majorana</i> L. essential oil. ¹ Abdel-Tawab H. Mossa, ¹ Amel A. Refai, ² Amal Ramadan, and ³ Jalloul Bouajila
16:00- 17:00	Lunch Break/ Poster	

Date: Monday, 3 February 2014. Session 2 (1+2) Time: 17:00 – 8:30

Time	Room 1- Hussein Idriss Hall	Room 2 - ARC Meeting Hall
	<u>2-1.Entomology</u> Biological Control (BC) / IPM Chairperson: Prof. Magzoub O. Bashir	<u>2-2.Weed Science</u> CHEMICAL WEED CONTROL (WH)II Chairperson: Prof. Dafalla A. Dawoud
17:00-17:15	2.1.1 Biology of three <i>Trichogramma</i> species and their efficiency as biological control agents against <i>Helicoverpa armigera</i> Hub. and other pests in Sudan. Sara Kehail, Hayder Abdelgader and Olaf Zimmermann.	2.2.1 Chemical Control of Wild Sorghum (<i>Sorghum arundinaceum</i> (Del.) Stapf.) in Faba Bean (<i>Vicia faba</i> L.) in Northern Sudan Kamal. A. M. Bedry, Abbas E. M. Elamin and Ihsan A. Abbas
17:15-17:30	2.1.2 Response of <i>Trichogramma oleae</i> , (Hymenoptera: Trichogrammidae) to host pheromones, frass and scales extracts. Hayder Abdelgader and Basilios Mazomenos	2.2.2 The efficacy and selectivity of the herbicide oxyfluorfen for weed control in potato (<i>Solanum tuberosum</i> L.) in northern Sudan Kamal A. M. Bedry ¹ , R. Y. El Habieb, M. A. Ahmed and E. A. Abdelatif ²
17:30-17:45	2.1.3 Ecotoxicological studies on the gregarious Desert Locust pheromone phenylacetone nitrile (PAN) used alone and combined with the green muscle, <i>Metarhizium acridum</i> (GM). Magzoub O. Bashir, Ahmed H. Ali and Eltahir S. Badr	2.2.3 Selectivity of pendimethalin, oxyfluorfen and oxadiazon to onion as influenced by soil type and crop growth stage Nasr Eldin K. Abdalla and A.G.T. Babiker
17:45-18:00	2.1.4 Effects of <i>Metarhizium acridum</i> (Metch) and the Desert Locust <i>Schistocerca gregaria</i> (Forsk.) adult aggregation pheromone phenylacetone nitrile. Ishraga M. El Hassan and Magzoub O. Bashir	2.2.4 Studies on chemical weed control treatments in Guar (<i>Cyamopsis tetragonoloba</i> L.) Abbasy, M.A., S.T. El-deeb, M.A. Marzouk, F.S.I. Sabra, M.A.F. AbuZeid
18:00-18:15	2.1.5 The role of taxonomy in integrated pest management: A case study of psyllids (Hemiptera: Psylloidea) in Cameroon. Joseph Lebel Tamesse	2.2.5 Efficacy of some selected herbicides on mesquite as influenced by age, and application method. E.A. Ahmed and A. G.T. Babiker
18:15-18:30	2.1.6 Susceptibility of some varieties and breeding lines of tomato to <i>Liriomyza spp.</i> (Diptera: Agromizida) infestation in central Sudan. Faiza E. E. Salah, Elamin M. Elamin, Elameen M. A. Eltoun, Hayder Abdelgader and Dominique Bordat	2.2.6 Effects of thidiazuron 360 g/L+diuron 180g/L and thidiazuron on leaves of cotton defoliation Hassan Abdelgadir, Dafalla A. Dawoud and Mohamed ElKhawad
20:30	Public Lecture	

Date: Monday, 3 February 2014. Session 2 (3+4) / Time: 17:00 – 18:30

Time	Room 3- Soil Hall	Room 4 - IPM Hall
	<u>2-3. Plant Pathology</u> Epidemiology and Disease Management (EDM) <u>Chairperson: Prof. Nafisa E. Ahmed</u>	<u>2-4. Pesticides 2</u> Chairperson: Prof. Azhari O. Abdelbagi
17:00-17:15	2.3.1 Hyperparasites and Entomopathogenic microbes in Integrated Pest Management: opportunities, implication and research needs. Mutwakil Abdel Mageed Mahir and Elhadary Dawoud Elhassan	2.4.1 <u>Plenary Paper.</u> Risk assessment of pesticides. Salah A. Suliman.
17:15-17:30	2.3.2 Development of a web- based expert system for the virus and virus- like diseases that affects citrus production in Sudan. Mai abdalla Ali, and Dia Elhaq Abd Elrahman Ali Jali	
17:30-17:45	2.3.3 Risk Analysis of Brown Rot In Potato Seed Caused By Rulstonniu solunucerum Race 3 in Sudan. Salwa Balla Mohamed Ahmed Sunhori	2.4.2 Simultaneous analysis of fluopyran, tebuconazole, trifloxystrobin and their metabolite residues in soil by ultra performance liquid chromatography coupled to tandem mass spectrometry. Husham N. M. Hussan, Xingang Liu, Jun Xu, Fengshou Dong and Yongquan Zheng.
17:45-18:00	2.3.4 Occurrence and chemical control of grapevine downy mildew (<i>Plasmopara viticola</i>) in Khartoum Area. E. S. Mohammed and S. M. Elhassan	2.4.3 Effects of pheromone lures on mass trapping of tomato borer <i>Tuta absoluta</i> (Lepidoptera: Gelechiidae) in Sudan. Ensaf S. I. Mohamed
18:00-18:15	2.3.5 Characterization and biocontrol of <i>Neofusicoccum mangiferae</i> (Syd. & P.Syd.), the causal agent of trees branch wilt in Sudan. Howida Mohammed Hassan and Nafeesa Elmahi Ahmed	2.4.4 Evaluation of some insecticides for the control of majer insect pests of cotton. Hassan O. Kannan, Omer A. Elnour, khansa M. Mekki and Abdalla A. Mohamed
18:15-18:30	2.3.6 Evaluation of chitosan efficacy on tomato growth and control of early blight disease. Mohamed E A Elwagia and Soad Algam	2.4.5 Residues of phosphine (hydrogen phosphide) in sorghum Rawada Y. El Habieb. Ihsan A. Abbas, and Mohammed Gaafer Zorani Pesticides Residues Laboratory, Agricultural Research Corporation, Wad Medani
20:30	Public Lecture	

Date: Tuesday, 4 February 2014., Session 3 (1+2) / Time 09:00 – 10:15

Time	Room 1- Hussein Idriss Hall	Room 2 - ARC Meeting Hall
	3-1. Entomology IPM Chairperson: Khidir Gibril Musa	3-2. Weed Science Management of PARASITIC WEEDS (WPM) Chairperson: Prof E.S. Mohammed
9:00-9:15	3.1.1 Evaluation of onion (<i>Allium cepa</i>) varieties against thrips and Onion Yellow Dwarf Virus infestation in Khartoum state, Sudan. Ensaf S. I. Mohamed, Moawia E. Mohamed and Gaafar H. Mohamed.	3.2.1 The efficacy and selectivity of the herbicide imazethapyre for <i>Orobanche</i> control in faba bean in northern Sudan Kamal. A. M, Bedry, Elsadig S. Mohamed, and Ihsan, A. Abbas
9:00-9:15	3.1.2 The use of <i>Bacillus thuringiensis</i> and neem alternation on <i>Plutella xylostella</i> , (Lepidoptera: Plutellidae) and their effects on natural enemies in cabbage production. G. Sow, S. Niassy, D. sall-Sy, L. Arvanitakis, D. Bordat and K. Dirra	3.2.2 Effects of Chlorsulfuron and Nitrogen on <i>Striga</i> Incidence and Sorghum Growth and Yield <u>Rashida Abusin</u> , Alfatih Ahmed, Abdel Gabar Babiker
9:15-9:30	3.1.3 Efficacy of mixing <i>Metarhizium</i> and neem against the Tree Locust, <i>Anacridium melanorhodon melanorhodon</i> (Orthoptera: Acrididae). Wail M. Haroon, Abdalla M. Abdalla, Jean- Michel Vassal and Michel Lecoq	3.2.3 Chlorsulfuron + 2,4-D as herbicide mixture for <i>Striga control in sorghum</i> Abbasher A. A, Adam, G. A., Babekir, A, E., Zaroug. M. S, Ahmed, A. E
9:30-9:45	3.1.4 Relative resistance of some Maize genotypes (<i>Zea may</i> L.) against stem borers <i>Chilo partellus</i> and <i>Sesamia cretica</i> in central Sudan. Mohammedein B. Alhussein, Sara A.A, Kehail and Hashim A. Mohamed	3.2.4 Evaluation of resistance of upland rice varieties to <i>Striga hermonthica</i> through laboratory, pot and field experiments Hiroaki Samejima, Chizu Yoshimoto, Ahmed El Mustafa, Abdel Gabar T. Babiker and Yukihiro Sugimoto
9:45-10:00	3.1.5 Evaluation of maize varieties for resistance to <i>Chilo partellus</i> , (Swinhoe) in New Halfa Scheme. Hassbelrasul A. Mohammed, Hashim A. Mohamed and Mohammedein B. Alhussein	3.2.5 Integrated <i>Striga</i> Management to Improve Sorghum Productivity in subsistence farming system at marginal rainfed areas of the Sudan Dafalla A. Dawoud, E.A. Ahmed' A.H.A. Assar, A. ElSir and A.G.T. Babike
10:00-10:15	3.1.6 Control of cucurbits fruit flies using entomopathogenic fungi <i>Beauveria bassiana</i> (Bals) and <i>Metarhizium anisopliae</i> (Met.), and the botanical insecticide Neem Azal. M.O. Ishraga, A. E. Ali and C. P. W. Zebitz	3.2.6 Effects of Seed Placement in Soil on Virulence of <i>Orobanche crenata</i> on Faba Bean Amani, A; Hamid, S. A. and Babiker, A. G. T
10:15-11:30	Breakfast/Poster	

Date: Tuesday, 4 February 2014., Session 3 (3+4) / Time 09:00 – 10:15

Time	Room 3- Soil Hall	Room 4 - IPM Hall
	3-3. Plant Pathology Epidemiology and Disease Management (EDM) / Breeding for Disease Resistance (BR)	3-4. Pesticide 3 Chairperson: Kamau G.N.
9:00-9:15	3.3.1 Determining plant growth promoting and biocontrol factor of bacterial culture media. Aeshah Mhana Mohamed <i>et.al.</i>	3.4.1 Plenary. The Performance of formulated <i>Beauveria bassiana</i> , <i>Metarhizium anisopliae</i> , <i>Verticillium lecanii</i> alone and combined on controlling <i>Helicoverpa armigera</i> (Hubner) in cotton in Gezira and Rahad. Zaki S. E. Ahmed, Yousif O. H. M. Assad, and Nabil H. H. Bashir
9:00-9:15	3.3.2 Evaluation of some chickpea cultivars for resistance to Fusarium wilt caused by <i>Fusarium oxysporum</i> f sp <i>ciceris</i> . N.A.Ahmed, W.S.Suliman and A.A.Mohamed	3.4.2 Identification of some alkaloids in <i>Datura stramonium</i> (Saikaran, jimson weeds). Fatima B.D. Ibrahim
9:15-9:30	3.3.3 Evaluation of some sorghum genotypes for resistance to covered kernel smut disease . Salah M. Eltayb, Elsafi M. Mohamed, Nafisa E. Ahmed and Ibrahim N. Eldein3	3.4.3 <i>Bacterocera invadens</i> (Drew, Tsuruta and white) (Diptera: Tephritidae), seasonal abundance and control in Wad Medani Locality, Gezira state, the Sudan. Azmy I.M. Suliman, N. H.H. Bashir, and Y. O. H. Assad
9:30-9:45	3.3.4 Pearl millet genotypes resistant to Downy mildew. Salah M. Eltayb, Elsafi M. Mohamed , Adam M. Ali and Salah A. Ibrahim.	3.4.4 Fruit photochemical analysis and saponin toxicity effects of bitter apple (Hanzal), <i>Citrullus colocynthis</i> (L.) Schrad, on the Norway Rat, <i>Rattus norvegicus</i> (Berkenhout). Ehab Elsir Mohamed Alias, Mohammed H. Z. Elabdin, Nabil H. H. Bashir and Yousif O. H. Assad
9:45-10:00	3.3.5 Field assessment of wheat leaf rust major genes to prevailing wheat leaf rust disease in Sudan. A.M.A.Kurmut	3.4.5 Chemical analysis of the physic nut <i>Jatropha curcas</i> (L) seed extracts. Amani E. A. Abdelwahab and Ali E. Ali.
10:00-10:15	3.3.6 Reaction of some cotton (<i>G. barbadense</i>) lines to Fusarium wilt disease. AsrarE Elbashir and Mutwakil Mahir	3.4.6 The effects of UV- Llight, sun-light, temperature and PH on stability of neem seed extract. Luna E. K. Ahmed, Nabil H. H. Bashir and Mohand O. Babiker
10:15-11:30	Breakfast/Poster	

Date: Tuesday, 4 February 2014, Session 4 (1+2) / Time 11:30 – 13:30

Time	Room 1- Hussein Idriss Hall	Room 2 - ARC Meeting Hall
	4-1. Entomology Plant Extract (EX) / Biology and Ecology (BE) Chairperson: Prof. Meriem M. Guerfali	4-2. Weed Science Biology and Ecology (WBE)/ BIOLOGICAL CONTROL OF PARASITIC WEEDS (WPB) Chairperson: Prof A.G.T. Babiker
11:30-11:45	4.1.1 Evaluation of neem seed kernel and leaf water extracts for the control of spotted stem borer <i>Chilo partellus</i> (Swinhoe), (Lepidoptera: Pyralidae) in sorghum at New Halfa, Sudan. Hassbelrasul A. Mohammed and Ali E. Ali	4.2.1 Biological control of <i>Striga hermonthica</i> by soil microorganisms Hassan, M.M', Abdelgani, M. E., Osman, A. G., Rugheim, A.M. and Babiker, A. G. T.
11:45-12:00	4.1.2 Field response of Tephritid Fruit flies, (Diptera: Tephritidae) to water extract of some botanicals. Mohammed E. E. Mohmoud, Mohammed A. o. Kambal, Sumaia M. A. Abukashowa, Sunday Ekesi and Elsadig M. Bilal	4.1.2 <i>Fusarium brachygibbosum</i> a plausible candidate for deployment as a bioagent for <i>Striga hermonthica</i> management in Sorghum. Rna, A.G. Babiker, Dagash, Y. M., Elhoussein, A.A, Abdel Elhalim, T. S. and Babiker, A.G.T.
12:00-12:15	4.1.3 Evaluation of <i>Jatropha curcas</i> (L) seed extract against <i>Aphis gossypii</i> , (Homoptera: Aphididae) in Sudan. Amani E. A Abdelwahab, Ali E. Ali, Nour A. Osman and Salah M. Nour	4.1.3 Fungi as Candidates for Biological Control of Broomrape (<i>Phelipanche ramosa</i> L.) in Tomato (<i>Solanium lycopersicon</i>). Yahia, M.A., Hassan, M.M., Ali, T.E., Rugheim, A.M., Osman, A. G., Abdelgani, M. E and Babiker, A.G.T.
12:15-12:30	4.1.4 Effects of Aqueous extracts of Basil, <i>Ocimum basilcum</i> L., Sodom's apple, <i>Calotropis procera</i> Ait and Coriander <i>Coriandrum sativum</i> L. on flea beetle <i>Podagrica</i> spp. (Coleoptera: Halticidae) in okra crop. Rehab E. H. Fadwal, Faiza E. E. Salah, Mohmmmed H. Z. Elabdeen and Elamin M.E.	4.1.4 Arbuscular mycorrhizal fungi have the potential to reduce infection caused by the parasitic weed <i>Phelipanche ramosa</i> L.(Pomel) in tomato. Tilal S. Abdelhalim, A.G. T Babiker and Maria R. Finckh
12:30-12:45	4.1.5 Biological and ecological studies of the mealybug <i>Planococcus citri</i> (Homoptera: Pseudococcidae) on citrus in the Gezira State, Sudan. Entisar A. Osman and Tag Elsir E. Abdalla.	4.1.5 Influence of root exudates of <i>Desmodium</i> sp on <i>Striga hermonthica</i> (Del.) Benth and <i>Orobanch. ramosa</i> L. germination Khogali. I. Idris, Zeyar R. Khan, and Abdel Gabar E. Babiker ³
13:00-13:15	4.1.6 Identification, damage, host rang, seasonal abundance and chemical control of mango fruit fly species in Sennar State, Sudan. Abdelaziz E. G. Babiker, Nabil H. H. Bashir and Yousif O. H. Assad	4.1.6 Germination, Attachment and Development of <i>Striga hermonthica</i> (Del.) Benth from Sudan with Host Crops and Non-host Crops Abbasher, A. Abbasher, Mohamed S. Zaroug, ¹ , Eldur B. Zahran, and Joachum Sauerborn
13:15-13:30	4.1.7 Field surveys, host specificity and life cycle of the mesquite seed feeding Bruchid, <i>Algarobius prosopis</i> (LeConte), (Coleoptera: Bruchidae). Mohamed A. S. Ahmed and Magzoub O. Bashir	4.1.7 Effects of powder and aqueous extracts of <i>Euphorbia hirta</i> on <i>Phelipanche ramosa</i> germination and haustorium initiation Tilal S. Abdelhalim, Babiker. A.G .T, Hiba A. Ali, Maria R. Finckh
13:30-14:00	Prayer / Health Break/Poster	

Date: Tuesday, 4 February 2014., Session 4 (3+4) / Time 11:30 – 13:30

Time	Room 3- Soil Hall	Room 4 - IPM Hall
	<u>4-3.Plant Pathology</u> New Emerging Diseases (NE) Chairperson: Prof. Ahmed Hashim	<u>4-4.Pesticide 4</u> Chairperson: Prof. Salah A. Suliman
11:30-11:45	4.3.1 A new aggressive bacterial disease on baladi lime in gedarif area. Siddig M Elhassan, Omer A. B. Abu Dibar and Nuha M. E. Yosif	4.4.1 Residues of confidor 200 SL (imidacloprid) on date Palm. Ihsan A. Abbas, R.Y. El Habieb, and Gaafer A. Zorgani
11:45-12:00	4.3.2 The prevalence and occurrence of some pests and diseases on the cultivated sunflower in Gezira area Sudan. Mai, Abdalla, Dalia S. Elsidig and Abelelah Badawie	4.4.2 Effects of Different Concentrations of Gezira Tannery Waste Water on Germination and Growth of Sorghum, Okra and Cotton. Mohamed M H Abdalla; Nabil H H Bashir, and Yousif O H Assad
12:00-12:15	4.3.3 Emergence of criniviruses in tomato and cucumber grown in greenhouses in Sudan. Abdelmagid Adlan	4.4.3 Susceptibility of the Cotton Flea Beetle, <i>Podagrica puncticollis</i> (Weise) (Coleoptera: Halticidae), to Imidacloprid and Thiamethoxam as Seedling Protectants M. O. M. Elamin, N. H. H. Bashir, Hayder. Abdelgader
12:15-12:30	4.3.4 Spatial and temporal spread of chickpea chlorotic dwarf virus (CpCDV) in chickpea in the River Nile State, north of Sudan. Abdelmagid Adlan Hamed.	4.4.4 Seasonality and Relative Distribution of <i>Chrysoperla carnea</i> (Stephens) among Different Crops and Locations in Merowe Locality, Northern Sudan. Abdalla Abdelrahim Satti and Nazar A. A. Bilal
12:30-12:45	4.3.5 The occurrence and characterization of viruses causing cassava mosaic disease in Sudan. Eslam. M. Gasmelseed1, Adam M.A. Gadelseed1, Gasim A. Dafalla1 and Stephan Winter	4.4.5 Efficacy of two seed dressing insecticide and neem seed extracts against aphid in faba bean in Northern Sudan. Mahdi A. Ahmed and Francis. L. Oji
13:00-13:15	4.3.6 Mango Seedlings Wilt: Causal Agent, symptoms, seed transmission and the effect of some seed treatments on its Incidence. Adel Awadelgeed Abdalla Ahmed, Yousif F. Mohamed and Gasim A. Dafalla	4.4.6 Environmental consideration in crop protection research. Hayder Abdelgader
13:15-13:30	4.3.7 Synergistic interaction in cucumber plants caused by dual infection of cucumber vein yellowing virus (ipomorium) and zucchini yellow mosaic virus (polyvivoro). Khalid Hamed, Adam M. A. Gadelseed, Gasim A. Daffaalla, Wulf Menzel and Stefan Winter.	4.4.7 Chromium III Tannery, Wastewater in Gezira , Wad Medani, Sudan Ammar M. S. Abdalla ¹ , Nabil H.H Bashir ² and Yousif O.H. Assad ²
13:30 -14:00	Prayer / Health Break/Poster	

Date: Tuesday, 4 February 2014, Session 5 (1+2) / Time 14:00 – 15:45

Time	Room 1- Hussein Idriss Hall	Room 2 - ARC Meeting Hall
	<u>5-1. Entomology</u> Biology and Ecology (BE) Chairperson: Prof. Tag Elsir E. Abdalla	<u>5.-2. Weed Science</u> Biology and Ecology of Parasitic weeds(WPE)/ MISELENEOUS (WM) Chairperson: Prof. Hassan A. Mubarak
14:00-14:15	5.1.1 Effects of sowing date on the incidence of spotted stem borer, <i>Chilo partellus</i> (Swinhoe) (Lepidoptera: pyralidae) in two sorghum cultivars (<i>Sorghum bicolor</i> (L.) at New Halfa, Sudan. <i>Hassbelrasul A. Mohammed and Ail E. Ali</i>	5.2.1 Mycotoxins produced by <i>Fusarium</i> spp. isolated from <i>Striga hermonthica</i> (Del.) Benth. in Sudan Mohukker R.I., Hetwer, U., Ahmed, N.E., and Karlovsky, P.
14:15-14:30	5.1.2 Studies on the Bio-Ecology of the Senegalese grasshopper (Orthoptera: Acrididae) in kordofan region. <i>Abdelmanan E. H. Elamin and Abdalla M. Abdalla</i>	5.2.2 <i>Fusarium nygamai</i> and <i>Fusarium</i> Abuharaz selected for biocontrol of <i>Striga hermonthica</i> (Del.) Benth in Sudan produce fumonisins B. Mohukker R.I., Hetwer, U., Ahmed, N.E., and Karlovsky, P.
14:30-14:45	5.1.3 Geographical distribution, host range and seasonal abundance of fruit fly species in the Blue Nile State, Sudan. <i>Anas A. Fadlemula and Eltyeb B. M. Ali</i>	5.2.3 Inhibition of <i>Striga</i> -seed Germination by phenazine-1-carboxylic acid and phenazine-1-carboxamide. Mohukker R.I., Hetwer, U., Ahmed, N.E., and Karlovsky, P.
14:45-15:00	5.1.4 Studies on the bio-ecology of the tree locust, <i>Anacridium melanorhodon melanorhodon</i> (Orthoptera: Acrididae) on gum Arabic tree (<i>Acacia Senegal</i> L. Willd) in Kordofan. <i>Ibrahim, M. Mohamed and Abdalla, M. Abdalla</i>	5.2.4 Distribution and host range of mistletoe (<i>Tapinanthus globiferus</i>) (A. Rich.) van Tieghan) along the Blue Nile Banks in Central Sudan. Zaroug, M. S.; Abbasher, A. A.; Zahran, E. B
15:00-15:15	5.1.5 Seasonal abundance of the fruit fly, <i>Bactrocera invadens</i> , (Diptera: Tephritidae) in mango and guava orchards in three states of Central Sudan. <i>Omer A.A. Sidahmed, Awad K. Taha and Gasim A. Hassan</i>	5.2.5 Determination of weed flora and abundance index in New Halfa Agricultural Scheme. Mohamed ElKhawad and Abosofian S. Osman
15:15-15:30	5.1.6 Biology and host performance of the melon worm <i>Diaphania hyalinata</i> L. (Lipidoptera: Pyralidae) on cucurbits in the Gezira State, Sudan. <i>Mohaned M. A. Mohammed, Faiza E.E. Salah and Mohammed, H. Z. Elabdeen</i>	5.2.6 Critical period of weed control in direct seeded onion. Nasr Eldin Khairi Abdalla and A.G.T. Babiker
15:30-15:45	5.1.7 Disribution of date palm dust mite <i>Oligonychus afrasiaticus</i> Meg. (Acarida: Tetranychidae) in Northern states of Sudan and its impact on productivity of dates` fruits. Daffa E. Yousof and Mohammed E.E. Mahmoud	5.2.7 Allelopathy in mesquite (<i>Prosopis juliflora</i>): A factor in invasiveness and dominance of the species Abdalla, M. Z., Tilal Abdelhalim, Babiker A. G. T. and Fujii Y
15:45-16:30	Lunch Break/ Poster	

Date: Tuesday, 4 February 2014, Session 5 (3+4) / Time 14:00 – 15:45

Time	Room 3- Soil Hall	Room 4 - IPM Hall
	5-3. Plant Pathology General Topics (G) / Antimicrobial Plant Metabolites Chairperson: Prof. Yousif FadlAllah	5-4 Entomology Hosts Resistance (HR) Chairperson: Prof. Khafaga
14:00-14:15	5.3.1 Current status of aflatoxin contamination of Groundnut (<i>Arachis hypogea L</i>) in sandy belt of southern Kordofan State. Ali Musa Mahady Suliman, MG Zorgani and N E Ahmed.	5.4.1 Differential response of some sorghum varieties and planting date on sorghum stemborar, <i>Chilo partellus</i> (Colepidoptera) incidence in South Kordofan. Eisa Y. Adam and Ali E. Ali
14:15-14:30	5.3.2 Potentialities of some <i>Penicillium</i> species indigenous to Sudanese soil for antibiotic production. Khalid E.M.Idris, Elnur Elamin and Nafisa E.Ahmed	5.4.2 Studies on sorghum resistance to central shootfly, <i>Atherigona citalies</i> , (Rondani) under Gedarif rainfed conditions. Elnayer H. Suliman and Nabil H. H. Bashir
14:30-14:45	5.3.3 Effects of the Nematophagous Fungi <i>Arthrobotrys oligospora</i> Fresen on nematodes infecting lime plants. Suad A. Gamiel Mohamed	5.4.3 Varietal susceptibility of potato to the black cutworm, <i>Agrotis ipsilon</i> (HFN) (Lepidopreta: Noctuidae). Fiza E. E. Salah, Abdien M. Zain Elabdien, Elamin M. Elamin, Hayder Abdalgader and Amdam K. Azrag
14:45-15:00	5.3.4 Morphological characteristic of dagger nematode (<i>Xiphinema spp.</i>). Amna. E. Elbaghir, G. A. A. Elbadri and O. O. A. Elbashir	5.4.4 Host plant range, resistant tomato varieties and natural enemies of potato tuber moth, <i>Phthorimaea operculella</i> (Zeller) Gelechiidae, in Gezira, Sudan. Elgaili E. Elmubarak, Ali E. Ali
15:00-15:15	5.3.5 Bio-efficacy of plant extracts to control <i>Natrasia mangiferae</i> in date palm. Muntasir Adam.M.	5.4.5 Survey for natural enemies and varietal susceptibility of the date palm green pit scale and their natural enemies in Northern Sudan. Mahdi A. Ahmed
15:15-15:30	5.3.6 Seed priming in Hargal shoot powder aqueous extract (<i>Solenostemma argel</i> (Del) Hayne) to control downy mildew disease on millet under traditional rain-fed conditions in North Kordofan, Sudan. Hatim Guma Mard	5.4.6 Differential responses of some cotton cultivars to aphid infestation, <i>Aphis gossypii</i> (Homoptera: Aphididae). Omer A. Elnour and Hassan O. Kannan
15:30 – 15:45		5.4.7 The economic importance and control of potato tuber moth <i>Phthorimaea operculella</i> (Zeller), (Lepidoptera: Gelechiidae) on tomato in Gezira, Sudan. Elgaili, E. Elmubarak and Ali E Ali
15:45-16:30	Lunch Break/ Poster	

Date: Tuesday, 4 February 2014, Session 6 (1+2) / Time 16:30 – 17:45

Time	Room 1- Hussein Idriss Hall	Room 2 - ARC Meeting Hall
	6-1 Entomology General Topics (GT) Chairperson: Prof. Ahmed E.M. Hassan	6-2. Entomology General Topics (GT) Chairperson: Prof. Hassan O. Kannan
16:30-16:45	6.1.1 Resurgence of the cotton stemborer, <i>Sphenoptera gossypii</i> Conte (Coleoptera:Buprestidae) as a serious pest in the irrigated schemes in Sudan. Tag Elsir E. Abdalla, Abdelmagid A. Hamad, Usama M. Ahmed and Omer A. Elnour	6.2.1 Biological performance of the African bollworm <i>Helicoverpa armigera</i> (Hundner) (Lepidoptera: Noctuidae) fed on cotton cultivars containing gossypol. Mohammed Eltayeb Abdo Gadu, Rudwan M. Khafagi and Ahmed Elbashir M. Hassan
16:45-17:00	6.1.2 First record of the Sorghum chafer, <i>Pachnoda interrupta</i> Olivier, outbreak on sorghum, pearl millet and sunflower in Sudan. Tag Elsir Elamin Abdalla, Sara Abdelraheem Babiker and Mohamed Yonis Mohamed	6.2.2 Studies on the ecology and management of the fruit flies, <i>Ceratitis</i> spp. (Diptera: Tephritidae) on Guava at Sennar state. Mahadi Mohamed Zein Ahmed and Hassan O. Kannan
17:00-17:15	6.1.3 Tomato russet mite <i>Aculops lycopersici</i> (Masse) (Acarida: Eriophyidae), Anew serious pest of tomato in the Sudan. Tag Elsir Elamin Abdalla	6.2.3 Use of solar energy for disinfecting stored dates. Susan M.A. El Nazir and Abdelhafeez Gebreldar .
17:15-17:30	6.1.4 Insect pest complex and natural enemies associated with cowpea <i>Vigna unguiculata</i> (L. Walp) in a subtropical agro-ecosystem, South Africa. A.S. Niba.	6.2.4 Determination of the development time of <i>Encarsia lutea</i> (Masi) (Hymenoptera: Aphelinidae), at different temperatures. Amir Abdullhi Yousif Malik, Kamil Karut and Cengiz Kazak
17:30:17:45	6.1.5 Towards better understanding and management of the African bollworm, <i>Helicoverpa armigera</i> , (Lepidoptere: Noctuidae): Economic target or academic challenge. Hassan O. Kannan	6.2.5 Cultural practices: the hidden role on management of Tephritid fruit flies (Dipteral: Tephritidae). Faiza M. A. Magid, Eltigani E. Ali, Amani M. Khair and Mohammed E. E. Mahmoud.
20:00	Conference Dinner	

Date: Tuesday, 4 February 2014, Session 6 (3+4) / Time 16:30 – 17:45

Time	Room 3- Soil Hall	Room 4 - IPM Hall
	6-3. Plant Pathology Antimicrobial plant metabolites (PM) Chairperson: Prof. Gamal A. Albadry	6-4. Pesticide Malaria vector (V) Chairperson: Bayer Representative
16:30-16:45	6.3.1 Chemical composition and antimould activities of essential oils from selected aromatic plants. Josphat C. Matasyoh, Isabel N. Wagara and Jesca L. Nakavwna	6.4.1 Seasonal abundance and characterization of larval habitats for mosquito fauna (Culicidae) prevalent in the Gezira irrigated area of central Sudan. Mostafa M. M. Ibrahim and Yousif E. Himeidan
16:45-17:00	6.3.2 Antibacterial Activity Of Chemical Constituents Of <i>Datura metel</i> Against Phytopathogenic bacteria <i>Xanthomonas campestris</i> pv. <i>Malvacearum</i> . Roghaya A.E. , Salah A.E. , Nafisa E.A. and Nour A.O.	6.4.2 Larvicidal potentialities of <i>Solenostemma argel</i> extracts against the malaria vector mosquito <i>Anopheles arabiensis</i> Patton (Diptera: Culicidae). Amal Elsayed Edriss, Abdalla Abdelrahim Satti and Zuhair Alfadel Alabjar
17:00-17:15	6.3.3 Antibacterial activity of <i>Prosopis juliflora</i> against tomato bacterial leaf spot disease (<i>xanthomonas campestris</i> pv <i>vesicatoria</i>). Wafaa Mohamed, N E Ahmed S A Elhussein ³ and N A Osman	6.4.3 Snails`population dynamics and their parasitic infections with trematod in Barakat canal , Gezira Scheme, Sudan. Arwa O. Y. Ibrahim
17:15-17:30	6.3.4 Inhibition of rhizoctonia solani by seed oil and extracts of <i>Xanthium strumarium</i> . SE Esideeg, N E Ahmed S A Elhussein and N A Osman	6.4.4 Monitoring of insecticide resistance in <i>Anopheles arabiensis</i> Patton (Diptera: Culicidae) in Karima, Merowe and Eldabba area, Northern State, Sudan. Nadia A. Elsammani, Abdelhameed D. Nugud and Yousif E. Himeidan.
17:30-17:45	6.3.5 <i>In vitro</i> evaluation of four plant leaves extracts against colony growth of <i>Xanthomonas campestris</i> pathovars (<i>malvacearum</i> , <i>phasoli</i> , and <i>vasicatoria</i>). Samia Abuobeida Hassan Saeed ¹ , Omer Osman Ahmed ^{*1} and Yousif O. H. Assad	6.4.5 Resistance of <i>Anopheles arabiensis</i> Patton mosquito to DDT, fenitrothion, deltamethrin, permethrin and bendiocarb in Dongola and Elburgahe localities, Northern State, Sudan. Ibrahim E. Ibrahim, Abdelhameed D. Nugud and Yousif E. Himeidan
20:00	Conference Dinner	

Posters

Entomology Posters

Ps 1: Studies on the economic threshold level of jassid
Omer A. Elnour. Hassan O. Kannan and Abbas E. M.Elamin

Ps 2: Susceptibility of the red flour beetle, *Tribolium castanum* (Herbst), to Phosphine: Can Phosphine ever stand as a magical fumigant?
Esam E. B. M. Kabbashi; Shereen M. Awad and Mohamed E. Shazali

Ps 3: Survey for fruit fly Species (Diptera: Tephritidae) in Sennar State
Mahadi M. Zein and Hassan O.Kannan

Ps 4: The effects of feeding by pollen substitutes on Sudanese honeybee activities
Faiza H. M.A Akasha

Ps 5: Fruit fly species (Diptera: Tephritidae) on some fruit trees and vegetables in the Gezira State, Sudan
Rania M. Elaraky, Faiza E. E. Salah and M. H. Z. Elabedeen

Ps 6: Geographical distribution and abundance of the sorghum midge, *Stenodiplosisorghicola* Cop., (Diptera: Cecidomyiidae) in rainfed area, Sudan
Anas A. Fadlelmula¹ and Ahmed E. M.Hassan²

Ps 7: Action of the Sudanese, the Chinese and the Egyptian garlic oils against *Callosobruchus maculatus* (Coleoptera: Bruchidae)
Hayat M. A. Hamid¹ and Azhari O. Abdelbagi²

Ps 8: Efficacy of two seed dressing insecticides and Neem seed extracts against aphids, *Aphis craccivora* (Homoptera: Aphididae) in faba bean in Northern Sudan
Mahadi A. Ahmed¹ and Francis L. Oji²

Ps 9: Evaluation of Pyrifos-Elnasr (chlorpyrifos) 48% EC against cotton aphid, *Aphis gossypii* Glover (Homoptera: Aphididae) on potato crop
Mahadi A. Ahmed

Ps 10: Efficacy of Imidoc 70 WS, a new formulation of imidacloprid seed dressing insecticide against aphids, *Aphis craccivora*, (Homoptera: Aphididae) in faba bean in Northern Sudan

Mahadi A. Ahmed

Ps 11: Efficacy of some insecticides against cotton aphid, *Aphis gossypii* Glover, (Homoptera: Aphididae) on potato crop

Mahdi A. Ahmed

Ps 12: The occurrence of some insect pests and diseases on sunflower (*Helianthus annuus* L.) in Gezira, Sudan

Mai A. Ali¹, Dalia S. Eshag¹ and Abdelelah Badawie²

Ps 13: Seasonal abundance and characterization of larval habitats for mosquito fauna (*Culicidae*) prevalent in the Gezira irrigated area of central Sudan

Mostafa M. Ibrahim¹ and Yousif E. Himeidan²

Ps 14: Studies on *Corcyra cephalonica* (Stainton) (Lepidoptera: Pyralidae), as facultitious host for *Trichogramma* mass rearing

Tag Elsir E. Abdalla

Ps 15: Application of the insecticide. Confidor 200 S Lagainst green scale, *Palmaspis phoenicis*' Hoein., on date palm

Salah E. Elamin¹, Gamal A. Mohamed²

Ps 16: The Biology of *Caryedon serratus* Olivier (Coleoptera: Bruchidae) on seeds of some Acacia trees in Damazin Area, Blue Nile State, Sudan

¹Abbas A. El Sheikh and Ali E. Ali²

Ps 17: Changes on physical, chemical and nutritional value of infested date palm fruits (barakawi) c.v with date palm dust mite, *Oligonychus afrasiaticus* Meg.

Islam K. Saeed¹ and Dafalla E. Yousof²

Ps 18: Use of some natural and chemical products for control of *Caryedon serratus* Olivier (Coleoptera Bruchidae) on seeds of *Acacia Senegal* (Hashab) trees in Damazin Area, Blue Nile State, Sudan

¹Abbas A. E. Sheikh and Ali E. Ali²

Ps 19: Survey. damage assessment and control of insect pests on seeds of some Acacia trees in Damazin Area, Blue Nile State , Sudan

¹Abbas A. E. Sheikh and ²Ali E.i Ali

Ps 20: Efficacy of Hargel ,*Solanostemma argel* (Del) hayne, shoot extract for the control of the cowpea beetle, *Callosobruchus maculatus*, (Coleoptera:Bruchidae) Mohammed O. S. El Khatim¹, Azhari O. Abdelbagi²

Ps 21: Evaluation of Hargal shoot powder aqueous extract (*Solenostemma argel* (Del) Hayne) against whitefly, *Bemisia tabaci*, (Homoptera: Aleyrodidae) on tomato

Hatim G. Mardi and Abdelatif A. Suliman

Ps 22: Evaluation of the seed dressing insecticide Cruiser® 350 FS (thiamexom) against the green bug, *Schizaphis graminum* (Homoptera: Aphididae)

Hassbelrasul A. Mohamed¹, Mohammed E.E. Mohmoud²and Suliman A. Ibrahim²

Ps 23: Efficacy of Defender 2% WS (tebuconazole) and Imidal 70 WS imidacloprid) to control damping-off diseases and early insect pests in Sesame Elsafi M. Mohammed¹and Anas A. Fdadelmula²

Elsafi M. Mohammed¹and Anas A. Fdadelmula²

Ps 24: Towards ameliorated locusts and grasshoppers management in Western Sudan

Abdalla M. Abdalla

Ps 25: Natural enemies of the tomato leaf miner,*Tuta absoulta*, (Lepidoptera:Gelechiidae)in Kassala State, Sudan

Mohammed E.E. Mahmoud

Ps26: Effects of Basil (*Ocimumbasilicum*) leaves powder and ethanolic extract on the 3rd larval instars of *Anophelesarabiensis*, (Diptera :Culicidae)

Hiba E. M. A. Mahmoud¹, Nabil H. H. Bashir¹, Yousif O. H. Assad²

Ps 27: The efficacy of extracts of the plant *Argemone mexicana* on mosquito species, *Anopheles arabiensis* (Diptera: Culicidae)

Elfahal. A.¹ Abdelgader. H, Elhussein, S.A. and Osman, N. A.²

Ps 28: The impact of insecticide treated bed nets on malaria parasite transmission potential in Kamul district, Uganda: where is Uganda on the road to elimination

Fredrick Kabbate¹, Anne Akol¹, Enock Matovu² and Ambrose Onapa³

Ps 29: Molecular Identification of savannah form of *Anopheles Gambiae* sensu strict in Kamuli District, Uganda

Kabbale F.G¹, Akol. A.M., Matovu², Kazibwe A.2, Yadouleton A.³, Andonapa. A⁴

Ps 30: Farmer' knowledge about fruit flies problem and their control in guava and mango orchards in three States in Sudan

Omar A.A. Sidahmed¹, Ishtiag Abdalla², Ahmed H. Allagabo³ and Awad K. Taha⁴

Ps 31: Fruit insect pests of guava (*Psidium guajava* L.) and mango (*Mangifera indica* L.) and their control in Sudan. A Historic Review

Esameldin B.M. Kabbashi

Ps 32: Vegetable leafminers *Liromyza spp.* incidence in squash (*Cucurbita pepo* L.) and identification of its natural enemies in Gezira, Sudan

El hadary D. E. Abdulla¹, Faiza E. E. Salah² and Ahmed E. M. Hassan³

Ps 33: Egg laying and feeding behaviour of potato tuber, *Phthorimaea operculella* ((Zeller), (Lepidoptera: Gelechiidae) Gelechiidae in Gezira, Sudan

Elgaili, E. Elmubarak¹, Ali.E. Ali²

PS 34: Seasonal abundance of major fruit flies (Diptera: Tephritidae) in Khartoum, Kassala and South Kordofan States, Sudan

Mohammed E.E. Mahmoud¹, Mohamed A.O. Kambal², M.A. Abukashwa³, Abdelrahman Bakheit.

Ps 35: Studies on biology of the fruit fly, *Ceratitis capitata*, (Diptera: Tephritidae) on guava *Psidium* at Sinnar State

Mahadi M. Z. Ahmed and Hassan O. Kannan

Ps 36: Movable-circle frame hives in beekeeping development programmes in Sudan

Faiza H.E.M. A. Akasha

Ps 37: Preventive and curative measures to control flea beetle, *Podagrica spp.*, (Diptera: Halticidae) on cotton in the Sudan

Hayder Abdelgader

Ps 38: First report on the occurrence of the peach fruit fly, *Bactorcera zonata* (Saunders) (Diptera: Tephritidae) in Sudan

Faiza E.E. Salah¹, Hayder Abdelgader² and DE Villiers, Marelize³

Ps 39: Evaluation of some plant extracts against Khapra beetle, *Trogoderma granarium* Everts (Coleoptera: Dermastidae)

Ayman M. E. A. Rajab and Awad K. Taha

Ps 40: Seasonal and relative distribution of *Chrysoperla spp.* (Stephens) among different crops and locations in Merowe locality, Northern Sudan

Abdalla A. Satti and Nazar A. A. Bilal

Ps 41: Studies on action threshold level of the African bollworm, *Helicoverpa armigera* (Hubner) (Lepidoptera: Noctuidae) on cotton at different stages of plant growth

Amir A. Y. Malik and Elamin M. Elamin

Ps 42: Integrated pest management (cotton) in India

M.S. Kairon

Ps 43: Impact of spraying Diafenthruon (*urea-derivative*) on different levels of whitefly incidence, *Bemisia tabaci* (Genn), (Homoptera: Aleyrodidae), quality and yield of cotton

Khansa M. Mekki¹, Hassan O. Kannan¹ and Ahmed E. M. Hassan²

Ps 44: The effects of sowing dates and varieties on the infestation with the sesame webworm, *Antigastra catalaunalis* Duponchel (Lepidoptera: Phycitidae) in sesame

Nazik A. abdalla, Ahmed H. Mohamed

Ps 45: The joint action of liquid soap and water extract of some plant products against four stored grain insect beetles

Susan Mohamed Abdalla El-Nazir
Shambat Research Station

Ps 46: Susceptibility of five cultivars of stored date fruits to the date moth, *Ephestia calidella* (Guen.) (Lepidoptera: Pyralidae), *Oryzaephilus surinamensis* (L.) and *O. mercator* (Fauv.) (Coleoptera: Silvanidae)

Susan Mohamed Abdalla El-Nazir

Ps 47 Pesticide application technique aerial application Vs ground application

Magdi A. ElMedani¹ and Abdelatti Suliman²

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Weed Science Posters

Ps 48 Morphology of *Xanthium strumarium*

Mohamed A Morgan, A G T Babiker and N H Bashir

Ps 49 Evaluation of clethodium for Weed Control in Alfalfa (*Medicago sativa* L.)

Khogali I. Idris and Gawahir M. Dongola

Ps 50 Impact of Field dodder (*Cuscuta campestris* Yuncker) on onion (*Allium cepa* L) growth and yield

Eldur B. Zahran^{*}, Mohamed S. Zaroug; Abbasher A. Abbasher and Eltahir A. Abed Aliem

Ps 51 Linkage map saturation and fine mapping of *Striga* resistant QTLs in Sorghum (*Sorghum bicolor* (L.) Moench using (N13x E36-1) RIL population
Rasha Ali¹, Abdalla H. Mohamed¹, S.Deshpande², Adil A.Elhussein³, C. Mugoya⁴,
C. Masiga⁴, D. Kiambi⁵, G.A. Elbadri¹ and C.T. Hash,²

Plant Pathology Posters

Ps 53 Characterization of the casual agent of powdery mildew of okra (*Abelmoschus esculentus* L.) and evaluation of some varieties and land races for resistance

Amira. N. O , Omer. O. A, Yousif. F. M, Muna. E. S.

Ps 54 *Fusarium acutatum* a causal pathogen of chickpea root rot at New Halfa, Sudan

A.M.A. Kurmut¹

Ps 55 Identification and molecular characterization of some yellowing - inducing virus (es) and virus-like disease on faba bean (*Vicia faba*) in Gezira area –Sudan
Mai abdalla Ali¹, Ebrahim Abd Elhameed Saeed¹ and EL Shafie E. EL Shafie¹

Ps 56 Control of Tomato Leaf Curl Virus Disease in Shambat area, Sudan

Fawzia Salih Hadda.

Ps 57 Seed-borne fungi of groundnut (*Arachis hypogaea* l.) in Sudan with special emphasis on *macrophomina phaseolina*. (tassi)(goid)

Sara Hamad Shomo Sharaf Eldin¹ and Ahmed Mohamed Baghdadi²

Ps 58 Cultural and morphological variation in *Fusarium oxysporum* f. sp. *ciceris* causing wilt of Chickpea in Sudan

Omyma Elmahi Mohamed¹, Nafisa Elmahi Ahmed¹ and Seid Kemal Ahmed²

Ps 59 Efficacy of Nine Selected Plant Extracts against Juveniles of *Meloidogyne javanica*

(Treub, 1885)

Nigood M.Omer¹, Gamal A.A. Elbadri², and Adam M.A. Gadeseed³

Ps 60 Assessment of mango Anthracnose disease in Southern Kordofan, Sudan.

Hatim Guma Mardi

Ps 61 Simultaneous analysis of Fluopyram, Tebuconazole, Trifloxystrobin and its metabolite residues in soil by Ultra Performance Liquid Chromatography coupled to tandem mass spectrometry

Husham N. M. Hussan^a, Xingang Liu^b, Jun Xu^b, Fengshou Dong^b, and Yongquan Zheng^{b*}.

Ps 62 Plant parasitic nematodes associated with sugarcane (*Saccharum* spp.) and their density in Guneid Estate

G. A. A. Elbadri¹; P. Wani²; K. Bukhari² and A. E. Elnour¹

Ps 63 Efficacy of fungicide Defender 2% WS (Tebuconazole) and Imidal 70 WS to control damping-off diseases and early insect pests in Sesame

¹Elsafi Mustafa Mohammed, ²Anas Ahmed Fdadelmula

Ps 64 Effects of sowing date, tillage and pre- watering on head smut disease incidence of sorghum

Elsafi Mustafa Mohamed Ahmed¹ and Mohamed Elfatih Khalid ali²

Ps 65 Efficacy of the systemic fungicide Raxil 2% WS (Tebuconazole) to control covered kernel smut disease in sorghum

¹Elsafi M. Mohamed., ²Salah M. Eltayb. And Nafisa E. Ahmed.

Ps 66 Efficacy of Apron Star 42% WS on control of covered, kernel and loose smut diseases in sorghum

¹Salah M. Eltayb, Elsafi M. Mohamed And Nafisa E. Ahmed. ¹Crop Protection Centre, plant

Ps 67 Evaluation of some sorghum genotypes for resistance to sorghum head smut disease

Elsafi Mustafa Mohamed Ahmed

Ps 68 *Ganoderma zonatum* a serious problem of date palm in Sudan

Altaf M.Elhassn. Merowi Research Station, ARC. Sudan

Ps 69 Spread of *Thielviopsis paradoxa* causing date bunch fading disorder in Sudan

Altaf M. Elhassan. Merowi Research Station, ARC. Sudan

Ps 70 Short note on first record of alfalfa mosaic viruses and potato virus M on potato

¹Nafisa Hussein Baldo ²Siddig Mohammed Elhassan ²Mustafa Mohammed Ali Elbella

Ps 71 DNA analysis of Tomato Leaf Curl Virus (TLCV) isolates from Sudan.

Elnazeer, O.M¹; Elbadri, G.A.A².; Idris A. M³; Isam, M. E. ¹ and Yassin, A.M¹

Ps 72 Survey of plant parasitic Nematodes associated with Banana in Sennar and Kassala States.

Duria A. Eltahir¹; Gamal A. Elbadri² and Ibrahim Saeed³

Ps 73 Fungi and mycotoxins in stored sorghum in Sudan

Nafisa E Ahmed¹, Ibtihag Bur Eltom², Adam Ali Mohamed³

Ps 74 Identification and characterization of mango (*Mangifera indica*) malformation in Central Sudan

Mai Abdalla Ali¹, Maha Yousif Ahmed Abuadil² Yousif fadlalla¹, Gasim A.Dafalla¹, and Elamin Ismail²

Ps 75 Incidence of cotton bacterial blight on Sudanese opened cotton cultivars in comparison with introduced opened and hybrid *Bt* cotton cultivars in Rahad scheme

Eltayeb¹, S.M; Ibrahim, S.A.¹ and Elbadri, G.A.A.²

Ps 76 Inhibition of *Meloidogyne javanica* Eggs hatching by Botanical Extract
Nigood M.Omer¹, Gamal A.A. Elbadri², and Adam M.A. Gadeseed³

