## PLANT ACHIEVES

Volume 19	Supplen	nent 1 January –	2019
TITLE		AUTHOR	PAGE NO.
The effect of agricultural fertilizer iq of hormone on some growth characteristic compounds of petroselinum hortense pla	stics, yield and active	Omar Ali Luaibi Al-Maliki <sup>*</sup> and Maher Zaki Faisal Al Shammari	1 – 7
The efficiency of marine algae, local gibberellic acid, and their interaction in syield characteristics and active compograveolens L. plant	fresh water algae and some of the growth and	Roa'a Muthna Dawood and Maher Zaki Faisal Al Shammari	8 – 17
The effect of the humic acid and interaction on growth, yield and active of Foenum-graecum L. plant		MaysamIhsan Ali Al-Hassany and Maher Zaki Faisal Al Shammari	18 – 23
Extraction and estimation of some hydrocarbons from some vegetable oils	e polycyclic aromatic	Luma Abdalalah Sagban Alabadi and Faiq F. Karam	24 – 30
Occurrence, identification, pathogeni neoscytalidium dimidiatum fungus, the canker on Eucalyptus camaldulensis in k	causal agent of sooty	Zeinab A. M. Al-Tememe, Adnan A. Lahuf, Rajaa G. Abdalmoohsin and Alaa T. Al-Amirry	31 – 38
Evaluation of effect of zno nano-particle with the biocontrol agent <i>tricoderma ha</i> damping off disease caused by <i>Rhizod</i> plants	arzianum for control of	Zainab L. Hameed and Baan M. Hassan	39 – 46
Possibility of the biocontrol of <i>Meloidog</i> fungus <i>Trichoderma harzianum</i> under gre	eenhouse condition	Yaser Albehadeli, Mojtaba Mamarabadi and Esmat MahdiKhani	47 – 51
The response of cowpea plant <i>Vigna</i> exposed it to amino acids and borouphosphorus to soil in some veget characteristics	n and the addition of	Khaleel Burhan Abbas and Fouad Abbas Salman	52 – 60
The effect of daily of dark hours and daylight hours in the production of f (Zinnia elegans JAC)		Lo'ayAbd-Elhameed H. Al-Rawy and HaithamMuhi M.Al- Abdaly	61 – 66
The effect of silicon, tillage and the interasome antioxidants and phytohormones of maize ( <i>Zea mays</i> L.) plants	during drought stress of	Evan Ibrahim Merhij, Wassan Mudher Abo Al Timmen and Ali Hussain Jasim	67 – 74
Effect of the infection of <i>Callosobruchus</i> proximate composition of legumes grain	maculatus (fab.) on the	Sadek J.T. and MunaAbd Al-Wahed Banian	75 – 77
Role of additive in mitigation of the ne water on cabbage ( <i>Brassica oleracea</i> val	r. capitata L.)	Duraid K.A.Al-Taey; Abdsrab H. Al- Janabi and Ahmed M. Rachid	78 – 85
A comparative study among three spec the ability of absorption and bio-accum metals on euphrates river in al-ramadi cit	ulation of some heavy	ShirinYasin Bdewi, Mahmoud Mustafa Al-Mahdawi and Sufyan Mohammed Shrtooh	86 – 93
Response of some traits of potato (So the addition of the ground palm remnants	compost	Abbas Khdhair Mijwel, Adilnaser Abed Al-redha and Tarif Hashim Bresim	94 – 97
Evaluation of the effect of camel mil aqueous extract of the <i>Peganum harmal</i> of <i>Entamoeba histolytica</i>	a plant in the treatment	Enas Abdul Kareem Jabbar, Bassad A. AL-Aboody, Nihad H. Mutlag and Ahmed S. Abdulhadi	98 – 101
Chemical study in leaf and fruit of some salix in diwaniyah governorate using gas spectrometry(gc-ms)	chromatography-mass	Zainab Allaway Woshayih Hassan AL- Saadiy and Azhar Abd AL-Amer Susa	102 – 111
Response of several genotypes of ma organic fertilizer (humic acid)		Muhanad Hikmat Sharif and Omar Hazem AL-Rawi	112 – 117
Phytochemistry and therapeutic uses of review	f Cardaria draba L. : A	Estabraq H. Naser, Mohammed F. Abo Khthr and Salam A. Abed	118 – 125
Improving the nutritive value of common treatment with <i>Pleurotus ostreatus</i>	-	Anmar A. Majeed Al-Wazeer, Aqeel Yousif Alshukri and Kamel Abbas Kathem	126 – 130
Impact of water mixing areas in que phytoplankton algae and some physico of water on a section of Tigris river, Iraq	chemical characteristics	Buthaina Abdul- Aziz Hassan, Thaier Mohamed Ibrahim, Ibrahim Mahdi AL- Salman	131 – 138
Removal of leishman's stain from aque natural nile rose plant (Eichhornia crassi)		Maysam AlaaBaiee, Saif Qahtan Salman, and Zeena AbdulelahAbd Ali	139 – 141

	T	
Study of certified wheat ( <i>Triticum aestivum</i> L.) cultivars response to different planting dates	Ali Muaid Shaker, Mizel Mahdi Salih and Al-Salim, Salih H.F.	142 – 145
Role of rhizobia ( <i>Rhizobium meliloti</i> ) of alfalfa in the bioremediation of contaminated soil with hydrocarbons	Hanan Abdul Qader Abdulilah, Edham Ali Abed Al-Asafi and Ashwaq Talib Hameed	146 – 152
New record of species <i>Stephanitis hoberlandti</i> hoberlandt 2000 in Baghdad province	Haneen Sabah Hussein and Awatif Abdul-Fatah Hamodi	153 – 155
Effectiveness of some plant extracts against the biofilm of Pseudomonas aeruginosa bacteria isolated from burns	Wassan Rodha Hassan Al-Shakarje and Hyiam Abdalrodha Al-Awad	156 – 159
Effect of hesperidin added to the diet in physiological traits and sex hormones of males and domestic chickens	Saad Attallah Abdal Sada	160 – 164
Effect of heavy metal stress on growth characters and enzymes activity in <i>Zea mays</i> L. plant	Intedhar Abbas Marhoon and Khitam Abbas Marhoon	165 – 168
The effect of foliar fertilization and root stimulate at growth of olive's (Olea europaea L.) saplings (Nabali and Ashraci)	Ammar Y. Kadhom Azawi and Auasama Y. SalihMajeed	169 – 175
The growth and yield response of five potato varieties (Solanum tuberosum L.)	Al-Fayadh Dia Zaeim and Al-Zubaidi Ali Hassen	176 – 179
Interaction between Cd and K on plant hormones concentrations of tomato ( <i>Lycopersicon esculentum</i> L.) leaves	Rihab Edan Kahdim	180 – 184
Effect of green tea extracts (Camellia sinensis) on alcoholic-induced liver disease in rabbits	Shihab A. Al-Bajari	185 – 191
Effect of weed control treatments on the growth, yield and quality of three cultivars of maize (Zea mays L.)	Ali Fadhil Salih Al-Rawi and Abdul- Lateef Mahmood Al-Kaisy	192 – 202
Combine harvester header losses as affected by reel and cutting indices	Almosawi, Abdulaziz, A.	203 – 207
Insecticidal effect of three essential oils loaded on nano against <i>Tribolium castaneum</i> (coleoptera: tenbrionidea)	Rasha Abdulrazaq Jwad; Fadhl Abd Alhussain Khalil and Hadi Mizael Al Rubaiee	208 – 213
Some effects of treated waste water of hilla textile factory on four species of cultivated plants	Shaymaa O.H. Al-Mamoori and Batool Mohammed Hassan AL-Adily	214 – 216
Molecular typing of <i>malassezia</i> species by RFLP-PCR and evaluate antifungal activities of some plant extracts	Saafa Abaas Abd.Al-Kahdum, Zaidan Khlaif Imran and Hadi Meziel Khdhier	217 – 221
Bacterial profile in patients with diabetic foot infections and its association with TNF- $\alpha$	Rasha Hadi Saleh and Bara Hamid Hadi	222 – 228
Evaluation of salicylic acid solution on fungus <i>Botrytis cinerea</i> that caused strawberry gray mold	Dina Yousif and Mohammed Yousif	229 – 238
Calendar of treatment fungal antibiotic, pharmaceutical and alcoholic extract of propolis on some fungi that cause tinea capitis in children	Athraa H. Mohsen	239 – 245
Response of some broad bean ( <i>Vicia faba</i> L.) varieties to bio and chemical fertilization on seed yield	Dalia Salman Khudair and Ali Hussein Jasim	246 – 251
Response of two oat ( <i>Avena sativa</i> L.) genotypes to ascorbic and salicylic acids spraying and their interactions with silicon spray	Sabreen H.A. Al-Rubaiee, Ali Hussein Jassim and Taha Y. Al-Edany	252 – 259
Water quality monitoring of Al-Gharraf river southern of Iraq by using GIS mapping based water quality parameters	WisamThamerJabbar Al-Mayah, Salman Rasool Salman, MadiWamey Alaidi and Shaheen Mohamed Al- Hirmizy	260 – 267
Reducing the Heart Biochemical and Histological effect of doxorubicin by artemisinin compound	Qassim. M. Hashym, Jinan M. Abed Al- Zahra and Naser J. Kadhim	268 – 271
Removing heavy metals by diatoms <i>Nitzschia palea</i> and <i>Navicula incerta</i> in their aqueous solutions	Duaa Oday Al-Quraishi and Ithar Kamil Abbas	272 – 278
The effect of substitution broken rice ( <i>Oryza sativa</i> ) for the yellow corn ( <i>Zea mays</i> ) on the performance of broiler Ross 308	Tariq S. Almrsomi, Aqeel Y. AlShukri and Ammar H. Areaaer	279 – 283
Effect of lead metal stress on antioxidant genes expression in leaves of sunflower ( <i>Helianthus annuus</i> L. cv. agmar) plants	Kamil M. AL-Jobori, Athar K. Kadhim and Amran M. AL-Erjan	284 – 292
Study of the effect of aqueous extract of (ginger) Zingiber officinale rosco in the histological structure of prostate gland of white male rabbits Oryctolagus cuniculus	Ensaf Saleh Abar and Jabbar Abadi Alaridhi	293 – 298
Toxico pathological study of copper sulfate modulate by zinc oxide and <i>Coriandrum sativum</i> plant treatment in mice	Eman Hashimyousif, Hashim M. Obaid, Abdulkarim Jafar Karim, Muna Sachit Hashim and Rajiha A. Al.Naimi	299 – 308

Impact of integrated plant nutrient management systems on soil Physical properties and productivity enhancement in maize (Zea mays L.)  Studies on influence of activated Em enriched composts on productivity enhancement in hybrid maize (Zea mays L.)  Efficiency of SSR markers system in accessing genetic variation for rice (Oryza sativa L.) genotypes  Utilizing waste materials procurement for adsorption of chromium onto bio-matrix from rice husk to minimize water contamination.  Changes in soil organic carbon concentration in tropical rainfed corplants: effect of changes in land use pattern and application of various soil amendments.  Effect of bio- and chemical fertilizers on green pods yield of some broad bean cultivars.  The role of priming technique with salicylic acid in the viability of melon (Cucumis melo L.) seeds stored for two years.  Cytotoxic, antioxidant and antibacterial activities of crude extract of syxygium aromaticum plant.  Evaluation of soil suitability for wheat using Kriging and remote sensing data.  Evaluation of soil suitability for wheat using Kriging and remote sensing data.  Evaluation of soil suitability for wheat using Kriging and remote sensing data.  Evaluation of soil suitability for wheat using Kriging and remote sensing data.  Evaluation of soil suitability for wheat using Kriging and remote sensing data.  Evaluation of soil suitability for wheat using Kriging and remote sensing data.  Evaluation of soil suitability for wheat using Kriging and remote sensing data.  Evaluation of soil suitability for wheat using Kriging and remote sensing data.  Evaluation of soil suitability for wheat using Kriging and remote sensing data.  Evaluation of soil suitability for wheat using Kriging and remote sensing data.  Evaluation of soil suitability for wheat using Kriging and remote sensing data.  Evaluation of soil suitability for wheat using Kriging and remote sensing data.  Evaluation of soil suitability for wheat using Kriging and remote sensing data.  Evaluation of soil suitability for whe			
Studies on influence of activated Em enriched composts on productivity enhancement in hybrid maize (Zea mays L.)  Efficiency of SSR markers system in accessing genetic variation for rice (Ciryza sativa L.) genotypes  Efficiency of rice (Ciryza sativa L.) genotypes  Liflizing waste materials procurement for adsorption of chromium onto bio-matrix from rice husk to minimize water contamination  Changes in soil organic carbon concentration in tropical rainted rondours soil amendments  Effect of Dio: and chemical fertilizers on green pods yield of some broad bean cultivars  The role of priming technique with salicylic acid in the viability of melon (Cucuriis melo L.) seeds stored for two years  Evaluation of soil suitability for wheat using Kriging and remote sensing data  Evaluation of soil suitability for wheat using Kriging and remote sensing data  Evaluation of soil suitability for wheat using Kriging and remote sensing data  Evaluation of soil suitability for wheat using Kriging and remote sensing data  Evaluation of chemical seed priming treatment to improve seed quality in Maize vo CO 1  Effect of vious seed halo-priming treatments on seed yield and quality in maize  Effect of loilar spray with potassium humate and green tea water of the water and effect on growth swamp morning glory with distant from level water and effect on growth swamp morning glory with distant from level water and effect on growth swamp morning glory with distant from level water and effect on growth swamp morning glory with distant from level water and effect on growth swamp morning glory with gloriant plants used by tribal community of Sangla  Phytochemical analysis of ethanolic extracts of leaves of some selected medicinal plants used by tribal community of Sangla  Phytochemical analysis of ethanolic extracts of leaves of some selected medicinal plants used by tribal community of Sangla  Phytochemical analysis of ethanolic extracts of leaves of some selected medicinal plants used by migratory shepherds in alpine area of Rakchham-Chit		Manimaran, G. Baradhan and S.M.	309 – 313
Villiking waste materials procurement for adsorption of chromium onto bic-matrix from rice husk to minimize water contamination.  Changes in soil organic carbon concentration in tropical rainted croplands: effect of changes in land use pattern and application of various soil amendments.  Effect of bio- and chemical fertilizers on green pods yield of some broad bean cultivars.  The role of priming technique with salicylic acid in the viability of melon ( <i>Cucumis melo</i> L.) seeds stored for two years.  Evaluation of soil suitability for wheat using Kriging and remote sensing data.  Evaluation of soil suitability for wheat using Kriging and remote sensing data.  Evaluation of soil suitability for wheat using Kriging and remote sensing data.  Studies on graded dose of NPK with different granular organic manures on growth attributes of lowland rice.  Influence of different granular organic manures with inorganic fertilizers for increasing the yield of hybrid maize ( <i>Zea mays</i> L.)  Standardization of chemical seed priming treatment to improve seed quality in Maize ov Co 1.  Effect of dietary Lentinus edodes on the enythrocyte and quality in maize.  Effect of dietary Lentinus edodes on the enythrocyte and placocyte count of male albino wistar rats.  Growth of some oil vielding crops under moisture stress effect.  The morphological characters of growth swamp morning glory with distant from level water and effect on growth swamp morning glory with distant from level water and effect on growth swamp morning glory with distant from level water and effect on growth swamp morning glory with distant from level water and effect on growth swamp morning glory with distant from level water and effect on growth swamp morning glory with distant from level water and effect on growth swamp morning glory with distant from level water and effect on growth swamp morning glory with distant from level water and effect on growth swamp morning glory with distant from level water and effect on growth swamp morning glory with distant from lev		Sudhakar, G. Bardhan and S. M. Suresh Kumar	314 – 317
chromium onto bio-matrix from rice husk to minimize water contamination  Changes in soil organic carbon concentration in tropical rainfed croplands: effect of changes in land use pattern and application of various soil amendments  Effect of bio- and chemical fertilizers on green pods yield of some broad bean cultivars  The role of priming technique with salicylic acid in the viability of melon ( <i>Cucunis melo</i> L.) seeds stored for two years  Cytotoxic, antioxidant and antibacterial activities of crude extract of syzygium aromaticum plant  Evaluation of soil suitability for wheat using Kriging and remote sensing data  Evaluation of soil suitability for wheat using Kriging and remote sensing data  Evaluation of soil suitability for wheat using Kriging and remote sensing data  Evaluation of graded dose of NPK with different granular organic manures with inorganic fertilizers for increasing the yield of hybrid maize ( <i>Zea mays</i> L.)  Standardization of chemical seed priming treatment to improve seed quality in Maize or CO 1  Effect of dietary Lentinus edodes on the erythrocyte and elucocyte count of male albino wistar rats  Erfect of dietary Lentinus edodes on the erythrocyte and elucocyte count of male albino wistar rats  Erfect of dietary Lentinus edodes on the erythrocyte and elucocyte count of male albino wistar rats  Erfect of dietary Lentinus edodes on the erythrocyte and elucocyte count of male albino wistar rats of the respective of the proposed propose		AL-Badeiry and Mohammed A.AL-	318 – 325
croplands : effect of changes in land use pattern and application of various soil amendments  Effect of bio- and chemical fertilizers on green pods yield of some broad bean cultivars  The role of priming technique with salicylic acid in the viability of melon (Cucumis melo L.) seeds stored for two years  Cytotoxic, antioxidant and antibacterial activities of crude extract of syzygium aromaticum plant  Evaluation of soil suitability for wheat using Kriging and remote sensing data  Evaluation of soil suitability for wheat using Kriging and remote sensing data  Evaluation of soil suitability for wheat using Kriging and remote sensing data  Evaluation of soil suitability for wheat using Kriging and remote sensing data  Evaluation of soil suitability for wheat using Kriging and remote sensing data  Evaluation of soil suitability for wheat using Kriging and remote sensing data  Evaluation of soil suitability for wheat using Kriging and remote sensing data  Evaluation of soil suitability for wheat using Kriging and remote sensing data  Evaluation of soil suitability for wheat using Kriging and remote sensing data  Evaluation of soil suitability for wheat using Kriging and remote sensing data  Evaluation of soil suitability for wheat using Kriging and remote sensing data  Evaluation of soil suitability for wheat using Kriging and remote sensing data  Evaluation of soil suitability for wheat using Kriging and remote sensing data  Evaluation of soil suitability for wheat using Kriging and remote sensing data  Studies on graded dose of NPK with different granular organic manures with inorganic fertilizers for increasing the yield of hybrid maize (Zea mays L.)  Standardization of chemical seed priming treatment to improve seed quality in Maize vo CO1  Effect of of of soil and the vibridity of the vibridity	chromium onto bio-matrix from rice husk to minimize water contamination		326 – 332
Some broad bean cultivars The role of priming technique with salicylic acid in the viability of melon ( <i>Cucumis melo</i> L.) seeds stored for two years  Nehia N. Hussein J. Hussein Asaoon, Ghassan M. Sulaiman, Ayad A., Ali A. Taha and Kareem H. Jwad Evaluation of soil suitability for wheat using Kriging and remote sensing data  Evaluation of soil suitability for wheat using Kriging and remote sensing data  Studies on graded dose of NPK with different granular organic manures on growth attributes of lowland rice  Studies on graded dose of NPK with different granular organic manures with inorganic fertilizers for increasing the yield of hybrid maize ( <i>Zea mays</i> L.).  Standardization of chemical seed priming treatment to improve seed quality in Maize ov CO 1  Effect of dietary <i>Lentinus edodes</i> on the erythrocyte and leucocyte count of male albino wistar rats  Growth of some oil yielding crops under moisture stress effect  Genetic evaluation of lordian mustard ( <i>Brassica juncea</i> L.)  Seffect of foliar spray with potassium humate and green tealected medicinal plants used by tribal community of Sangla valley, district Kinnaur, Himachal Pradesh  Genetic evaluation of Indian mustard ( <i>Brassica juncea</i> L.)  Genetic evaluation of Indian mustard ( <i>Brassica juncea</i> L.) genotypes for yield and quality parameters  Assessment of wild medicinal plant used by migratory sephends in alpine area of Rakchham-Chitku wild life sanctuary of district Kinnaur in Himachal Pradesh  Effect of foliar concocition on growth, yield and quality of the ecofriendly components against sheath blight ( <i>Rhizoctonia solani</i> ) kuhn and sheath rot ( <i>Saracladium oryzae</i> ) sawada games  Effect of foliar concocition on growth, yield and quality of the ecofriendly components against sheath blight ( <i>Rhizoctonia solani</i> ) kuhn and sheath rot ( <i>Saracladium oryzae</i> ) sawada games	croplands: effect of changes in land use pattern and application	Shriya Mehrotra and Nandita Ghoshal	333 – 338
melon ( <i>Cucumis melo</i> L.) seeds stored for two years  Nehia N. Hussein, Raghad K. Maeah, Zahraa A. Sharba, Buthenia Aasoon, Ghassan M. Sulaiman, Ayad A., Ali A. Taha and Kareem H. Jwad Studies on graded dose of NPK with different granular organic manures on growth attributes of lowland rice  Studies on graded dose of NPK with different granular organic manures on growth attributes of lowland rice  Influence of different granular organic fertilizers for increasing the yield of hybrid maize ( <i>Zea mays</i> L.)  Standardization of chemical seed priming treatment to improve seed quality in Maize cv CO 1  Effect of various seed halo-priming treatments on seed yield and quality in maize  Effect of dietary <i>Lentinus edodes</i> on the erythrocyte and leucocyte count of male albino wistar rats  Growth of some oil yielding crops under moisture stress effect  The morphological characters of growth swamp morning glory with distant from level water and effect on growth of common reed  Phytochemical analysis of ethanolic extracts of leaves of some selected medicinal plants used by tribal community of Sangla valley, district Kinnaur, Himachal Pradesh  Effect of foliar spray with potassium humate and green tea extract on some of the vegetative characteristics of guava ( <i>Psidium guajava</i> L. cv. local) seedlings  Certain studies on the management of <i>P. aphanidermatum</i> causing rhizome rot of turmeric by using fungicides and bio incoculants  Genetic evaluation of Indian mustard ( <i>Brassica juncea</i> L.) genotypes for yield and quality parameters  Assessment of wild medicinal plant used by migratory shepherds in alpine area of Rakchham-Chitkul wild life sanctuary of district Kinnaur in Himachal Pradesh  Bole of defense enzyme induced by the ecofriendly components against sheath blight ( <i>Rhizoctonia solani</i> ) kuhn and sheath rot ( <i>Saracladium oryzaa</i> ) swaada games	some broad bean cultivars		339 – 343
Cytotoxic, antioxidant and antibacterial activities of crude extract of syzygium aromaticum plant  Evaluation of soil suitability for wheat using Kriging and remote sensing data  Studies on graded dose of NPK with different granular organic manures on growth attributes of lowland rice  Studies on graded dose of NPK with different granular organic manures on growth attributes of lowland rice  Influence of different granular organic manures with inorganic fertilizers for increasing the yield of hybrid maize (Zea mays L.)  Standardization of chemical seed priming treatment to improve seed quality in Maize or CO 1  Effect of various seed halo-priming treatments on seed yield and quality in maize  Effect of dietary Lentinus edodes on the erythrocyte and leucocyte count of male albino wistar rats  The morphological characters of growth swamp morning glory with distant from level water and effect on growth of common reed  Phytochemical analysis of ethanolic extracts of leaves of some selected medicinal plants used by tribal community of Sangla valley, district Kinnaur, Himachal Pradesh  Effect of foliar spray with potassium humate and green tea extract on some of the vegetative characteristics of guava (Psidum quajava L. ov.) cola) seedlings  Certain studies on the management of P. aphanidermatum causing rhizome rot of turmeric by using fungicides and bio inoculants  Genetic evaluation of Indian mustard (Brassica juncea L.) genotypes for yield and quality parameters  Assessment of wild medicinal plant used by migratory shepherds in alpine area of Rakchham-Chitkul wild life sanctuary of district Kinnaur in Himachal Pradesh  Bole of defense enzyme induced by the ecofriendly components against sheath blight (Rhizoctonia solani) kuhn and sheath rot (Saracladum oryzaye) sawada games  Effect of foliar concoction on growth, yield and quality of P. Sowmiwa and P. Karupnaish.  275 Jaha A. Sharba, Mubara, Mubara, Mubara, Muhanand Jaha Padular plant used by migratory sheath rot (Saracladum oryzaye) sawada games	The role of priming technique with salicylic acid in the viability of melon ( <i>Cucumis melo</i> L.) seeds stored for two years		344 – 349
Sensing data  Taha AL Waeli  Studies on graded dose of NPK with different granular organic manures on growth attributes of lowland rice  G. Baradhan, S.M. Suresh Kumar, A. Muthuamizharasi, S. Manimaran and P. Sudhakar  Influence of different granular organic manures with inorganic fertilizers for increasing the yield of hybrid maize (Zea mays L.)  Standardization of chemical seed priming treatment to improve seed quality in Maize cv CO 1  Standardization of chemical seed priming treatment to improve seed quality in Maize cv CO 1  Effect of various seed halo-priming treatments on seed yield and quality in maize  Effect of dietary Lentinus edodes on the erythrocyte and leucocyte count of male albino wistar rats  Growth of some oil yielding crops under moisture stress effect  The morphological characters of growth swamp morning glory with distant from level water and effect on growth of common reed  The morphological characters of growth swamp morning glory with distant from level water and effect on growth of common reed  The morphological characters of growth swamp morning glory with distant from level water and effect on growth of common reed  The morphological characters of growth swamp morning glory with distant from level water and effect on growth of common reed  The morphological characters of growth swamp morning glory with distant from level water and effect on growth of common reed  The morphological characters of growth swamp and Albandar Abdul Hussein Ibrahim  Taha AL Waeli  S.M. Suresh Kumar, A. Muthuamizharasi, S. Manimaran and P. Sudhakar and S. Manimaran and P. Sudhakar and S. Manimaran and P. Sudhakar and S. Manimaran And S. Marimaran And S. Mari		Zahraa A. Sharba, Buthenia Aasoon, Ghassan M. Sulaiman, Ayad A., Ali A.	350 – 355
Influence of different granular organic manures with inorganic fertilizers for increasing the yield of hybrid maize (Zea mays L.)  Standardization of chemical seed priming treatment to improve seed quality in Maize or CO 1  Effect of various seed halo-priming treatments on seed yield and quality in maize  Effect of dietary Lentinus edodes on the erythrocyte and leucocyte count of male albino wistar rats  Growth of some oil yielding crops under moisture stress effect  Phytochemical analysis of ethanolic extracts of leaves of some selected medicinal plants used by tribal community of Sangla valley, district Kinnaur, Himachal Pradesh  Effect of olicar spray with potassium humate and green tea extract on some of the vegetative characteristics of guava (Psidium guajava L. cv. local) seedlings  Genetic evaluation of Indian mustard (Brassica juncea L.) genotypes for yield and quality parameters  Assessment of wild medicinal plant used by migratory shepherds in alpine area of Rakchham-Chitkul wild life sanctuary of district Kinnaur in Himachal Pradesh  Role of defense enzyme induced by the ecofriendly components against sheath blight (Rhizoctonia solani) kuhn and sheath rot (Saracladium oryzae) sawada games  Muthuamizharasi, S. Manimaran and P. Sudhakar and S. Manimaran (S. Mscursh Kumar, G. Baradhan, V. Saravanan, P. Sudhakar and S. Manimaran  S. M. Suresh Kumar, G. Baradhan, V. Saravanan, G. Suvarna, G. Baradhan and B. Sunil Kumar (G. Sathiya Narayanan, G. Suvarna, G. Baradhan and M. Prakash  372 – 376  Raghad M. Mirry  AbbassMhson Salman Al- Hmadawi, Rasha AbdulrazzakJawad Al-Taie, Zainab RehmanJassim AL- Malikshah and Afrah Abdul Hussein Ibrahim  384 – 386  Raghad M. Mirry  AbbassMhson Salman Al- Hmadami, Rasha AbdulrazzakJawad Al-Taie, Zainab RehmanJassim AL- Malikshah and Afrah Abdul Hussein Ibrahim  Adalu Abdulhameed Ibrahim and Eman Abdulali Al-Sereh  Majid Abdulhameed Ibrahim and Eman Abdulali Al-Sereh  M. Thamaraíselvi, L. Darwin Christdhas Henry and L. Vengadesh  M. Thamaraíselvi, L. Darwin Christdhas Henry	Evaluation of soil suitability for wheat using Kriging and remote sensing data	Taha AL Waeli	356 – 363
Standardization of chemical seed priming treatment to improve seed quality in Maize cv CO 1  Effect of various seed halo-priming treatments on seed yield and quality in maize  Effect of dietary Lentinus edodes on the erythrocyte and leucocyte count of male albino wistar rats  Growth of some oil yielding crops under moisture stress effect  The morphological characters of growth swamp morning glory with distant from level water and effect on growth of common reed  Phytochemical analysis of ethanolic extracts of leaves of some selected medicinal plants used by tribal community of Sangla valley, district Kinnaur, Himachal Pradesh  Effect of foliar spray with potassium humate and green tea extract on some of the vegetative characteristics of guava (Psidium guajava L. cv. local) seedlings  Genetic evaluation of Indian mustard (Brassica juncea L.) genotypes for yield and quality parameters  Assessment of wild medicinal plant used by migratory shepherds in alpine area of Rakchham-Chitkul wild life sanctuary of district Kinnaur in Himachal Pradesh  Role of defense enzyme induced by the ecofriendly components against sheath blight (Rhizoctonia solani) kunhan and sheath rot (Saracladium onyzae) sawada games  Effect of foliar concoction on growth, yield and quality of Effect of foliar concocction on growth, yield and quality of P. Sowmiva and P. Karunnaiah.  Sarawanan, P. Sudhakar and S. Manimaran, G. Sathiya Narayanan, G. Suvarna, G. Baradhan and B. Sunil Kumar  G. Sathiya Narayanan, G. Suvarna, G. Baradhan and B. Sunil Kumar  G. Sathiya Narayanan, G. Suvarna, G. Baradhan and B. Sunil Kumar  G. Sathiya Narayanan, G. Suvarna, G. Baradhan and M. Prakash  C. Kannan  Ragha M. Mirry  AbbassMhson Salman Al- Hmadawi, Rasha AbdulrazzakJawad Al-Taie, Zainab RehmanJassim AL- Maliskhaha and Afrah Abdul Hussein Ibrahim  Badha and Sunil Puri  M. ThamaraiSelvi, L. Darwin Christdhas Henry and L. Vengadesh  M. Thamarpreet Singh, M. Sravani, K. Rajaneesh and A. H. Madakemohekar  Assessment of wild medicinal plant used by migratory shepher		Muthuamizharasi, S. Manimaran and	364 – 367
Effect of various seed halo-priming treatments on seed yield and quality in maize 2  Effect of various seed halo-priming treatments on seed yield and quality in maize 2  Effect of dietary Lentinus edodes on the erythrocyte and leucocyte count of male albino wistar rats  Growth of some oil yielding crops under moisture stress effect 7  The morphological characters of growth swamp morning glory with distant from level water and effect on growth of common reed 7  Phytochemical analysis of ethanolic extracts of leaves of some selected medicinal plants used by tribal community of Sangla valley, district Kinnaur, Himachal Pradesh 8  Effect of foliar spray with potassium humate and green tea extract on some of the vegetative characteristics of guava (Psidium guajava L. cv. local) seedlings 7  Certain studies on the management of P. aphanidermatum causing rhizome rot of turmeric by using fungicides and bio inoculants 8  Genetic evaluation of Indian mustard (Brassica juncea L.) genotypes for yield and quality parameters 7  Ragha and B. Sunil Kumar 3  377 – 383  384 – 386  C. Kannan 8  Raghad M. Mirry 4  AbbassMhson Salman Al- Hmadawi, Rasha AbdulrazzakJawad Al-Taie, Zainab RehmanJassim AL- Malikshah and Afrah Abdul Hussein Ibrahim 8  Radha and Sunil Puri 397 – 403  404 – 408  Majid Abdulhameed Ibrahim and Eman Abdulali Al-Sereh 409 – 412  M. ThamaraiSelvi, L. Darwin Christdhas Henry and L. Vengadesh 6  M. ThamaraiSelvi, L. Darwin Christdhas Henry and L. Vengadesh 6  M. Swetha, Harmeet Singh Janeja, Harmanpreet Singh, M. Sravani, K. Rajaneesh and A. H. Madakemohekar 413 – 417  Radha and Sunil Puri 414 – 429  D.E. Kavi Newton and D. John Christopher 8  Effect of foliar concoction on growth, yield and quality of P. Sowmiva and P. Karuppaiah 435 – 440		Saravanan, P. Sudhakar and S.	368 – 371
and quality in maize  Effect of dietary Lentinus edodes on the erythrocyte and leucocyte count of male albino wistar rats  Growth of some oil yielding crops under moisture stress effect  The morphological characters of growth swamp morning glory with distant from level water and effect on growth of common reed  The morphological characters of growth swamp morning glory with distant from level water and effect on growth of common reed  Phytochemical analysis of ethanolic extracts of leaves of some selected medicinal plants used by tribal community of Sangla valley, district Kinnaur, Himachal Pradesh  Effect of foliar spray with potassium humate and green tea extract on some of the vegetative characteristics of guava (Psidium guajava L. cv. local) seedlings  Certain studies on the management of P. aphanidermatum causing rhizome rot of turmeric by using fungicides and bio inoculants  Genetic evaluation of Indian mustard (Brassica juncea L.) genotypes for yield and quality parameters  Assessment of wild medicinal plant used by migratory shepherds in alpine area of Rakchham-Chitkul wild life sanctuary of district Kinnaur in Himachal Pradesh  Role of defense enzyme induced by the ecofriendly components against sheath blight (Rhizoctonia solani) kuhn and sheath rot (Saracladium oryzae) sawada games  Effect of foliar conocction on growth, yield and quality of P. Sowmiya and P. Karuppaigh  435 – 440			372 – 376
Raghad M. Mirry   Say - 390	and quality in maize		377 – 383
The morphological characters of growth swamp morning glory with distant from level water and effect on growth of common reed  Phytochemical analysis of ethanolic extracts of leaves of some selected medicinal plants used by tribal community of Sangla valley, district Kinnaur, Himachal Pradesh  Effect of foliar spray with potassium humate and green tea extract on some of the vegetative characteristics of guava (Psidium guajava L. cv. local) seedlings  Certain studies on the management of P. aphanidermatum causing rhizome rot of turmeric by using fungicides and bio inoculants  Genetic evaluation of Indian mustard (Brassica juncea L.) genotypes for yield and quality parameters  Assessment of wild medicinal plant used by migratory shepherds in alpine area of Rakchham-Chitkul wild life sanctuary of district Kinnaur in Himachal Pradesh  Role of defense enzyme induced by the ecofriendly components against sheath blight (Rhizoctonia solani) kuhn and sheath rot (Saracladium oryzae) sawada games  AbbassMhson Salman Al- Hadawi, Rasha AbdulrazzakJawad Al-Taie, Zainab RehmanJassim AL- Malikshah and Afrah Abdul Hussein Ibrahim  Radha and Sunil Puri  404 – 408  Majid Abdulhameed Ibrahim and Eman Abdulali Al-Sereh  M. ThamaraiSelvi, L. Darwin Christdhas Henry and L. Vengadesh  M. Swetha, Harmeet Singh Janeja, Harmanpreet Singh, M. Sravani, K. Rajaneesh and A. H. Madakemohekar  Radha and Sunil Puri  413 – 417  Backham AbdulrazzakJawad Al-Taie, Zainab RehmanJassim AL-Malikshah and Afrah Abdul Hussein Ibrahim  Abdullai Al-Sereh  M. ThamaraiSelvi, L. Darwin Christdhas Henry and L. Vengadesh  M. Swetha, Harmeet Singh Janeja, Harmanpreet Singh, M. Sravani, K. Rajaneesh and A. H. Madakemohekar  Pole of defense enzyme induced by the ecofriendly components against sheath blight (Rhizoctonia solani) kuhn and sheath rot (Saracladium oryzae) sawada games  Effect of foliar concoction on growth, yield and quality of P. Sowmiva and P. Karupnaish	leucocyte count of male albino wistar rats	C. Kannan	
The morphological characters of growth swarip morning glory with distant from level water and effect on growth of common reed  Phytochemical analysis of ethanolic extracts of leaves of some selected medicinal plants used by tribal community of Sangla valley, district Kinnaur, Himachal Pradesh  Effect of foliar spray with potassium humate and green tea extract on some of the vegetative characteristics of guava (Psidium guajava L. cv. local) seedlings  Certain studies on the management of P. aphanidermatum causing rhizome rot of turmeric by using fungicides and bio inoculants  Genetic evaluation of Indian mustard (Brassica juncea L.) genotypes for yield and quality parameters  Assessment of wild medicinal plant used by migratory shepherds in alpine area of Rakchham-Chitkul wild life sanctuary of district Kinnaur in Himachal Pradesh  Role of defense enzyme induced by the ecofriendly components against sheath blight (Rhizoctonia solani) kuhn and sheath rot (Saracladium oryzae) sawada games  Effect of foliar concoction on growth, yield and quality of Effect of foliar concoction on growth, yield and quality of Effect of foliar concoction on growth, yield and quality of Effect of foliar concoction on growth, yield and quality of Effect of foliar concoction on growth, yield and quality of Effect of foliar concoction on growth, yield and quality of Effect of foliar concoction on growth, yield and quality of Effect of foliar concoction on growth, yield and quality of Effect of foliar concoction on growth, yield and quality of Effect of foliar concoction on growth, yield and quality of East AbdulrazzakJava Al-Xaliak AbdulrazzakJava Al-Xali	Growth of some oil yielding crops under moisture stress effect	Raghad M. Mirry	387 – 391
selected medicinal plants used by tribal community of Sangla valley, district Kinnaur, Himachal Pradesh  Effect of foliar spray with potassium humate and green tea extract on some of the vegetative characteristics of guava (Psidium guajava L. cv. local) seedlings  Certain studies on the management of P. aphanidermatum causing rhizome rot of turmeric by using fungicides and bio inoculants  Genetic evaluation of Indian mustard (Brassica juncea L.) genotypes for yield and quality parameters  Assessment of wild medicinal plant used by migratory shepherds in alpine area of Rakchham-Chitkul wild life sanctuary of district Kinnaur in Himachal Pradesh  Role of defense enzyme induced by the ecofriendly components against sheath blight (Rhizoctonia solani) kuhn and sheath rot (Saracladium oryzae) sawada games  Effect of foliar concoction on growth, yield and quality of P. Sowmiya and P. Karunnaiah  Majid Abdulhameed Ibrahim and Eman Abdulali Al-Sereh  M. ThamaraiSelvi, L. Darwin Christdhas Henry and L. Vengadesh  M. Swetha, Harmeet Singh Janeja, Harmanpreet Singh, M. Sravani, K. Rajaneesh and A. H. Madakemohekar  413 – 417  P. Sowmiya and P. Karunnaiah  424 – 408  Assessment of of oliar concoction on growth, yield and quality of P. Sowmiya and P. Karunnaiah	with distant from level water and effect on growth of common	Rasha AbdulrazzakJawad Al-Taie, Zainab RehmanJassim AL- Malikshah	392 – 396
extract on some of the vegetative characteristics of guava (Psidium guajava L. cv. local) seedlings  Certain studies on the management of P. aphanidermatum causing rhizome rot of turmeric by using fungicides and bio inoculants  Genetic evaluation of Indian mustard (Brassica juncea L.) genotypes for yield and quality parameters  Assessment of wild medicinal plant used by migratory shepherds in alpine area of Rakchham-Chitkul wild life sanctuary of district Kinnaur in Himachal Pradesh  Role of defense enzyme induced by the ecofriendly components against sheath blight (Rhizoctonia solani) kuhn and sheath rot (Saracladium oryzae) sawada games  [M. ThamaraiSelvi, L. Darwin Christdhas Henry and L. Vengadesh  M. Swetha, Harmeet Singh Janeja, Harmanpreet Singh, M. Sravani, K. Rajaneesh and A. H. Madakemohekar  [Add – 408]  404 – 408  404 – 408  409 – 412  413 – 417  413 – 417  Radha and Sunil Puri  D.E. Kavi Newton and D. John Christopher  [Add – 408]  404 – 408  404 – 408  404 – 408  404 – 408  405 – 410  409 – 412  409 – 412  413 – 417  413 – 417  413 – 429  416 – 429  418 – 429  418 – 429  420 – 418  418 – 429  421 – 408  422 – 418  423 – 434	selected medicinal plants used by tribal community of Sangla valley, district Kinnaur, Himachal Pradesh	Radha and Sunil Puri	397 – 403
Certain studies on the management of <i>P. aphanidermatum</i> causing rhizome rot of turmeric by using fungicides and bio inoculants  M. ThamaraiSelvi, L. Darwin Christdhas Henry and L. Vengadesh  M. ThamaraiSelvi, L. Darwin Christdhas Henry and L. Vengadesh  M. ThamaraiSelvi, L. Darwin Christdhas Henry and L. Vengadesh  M. Swetha, Harmeet Singh Janeja, Harmanpreet Singh, M. Sravani, K. Rajaneesh and A. H. Madakemohekar  Assessment of wild medicinal plant used by migratory shepherds in alpine area of Rakchham-Chitkul wild life sanctuary of district Kinnaur in Himachal Pradesh  Role of defense enzyme induced by the ecofriendly components against sheath blight ( <i>Rhizoctonia solani</i> ) kuhn and sheath rot ( <i>Saracladium oryzae</i> ) sawada games  Effect of foliar concoction on growth, yield and quality of P. Sowmiya and P. Karuppajah  409 – 412  413 – 417	extract on some of the vegetative characteristics of guava	,	404 – 408
Assessment of wild medicinal plant used by migratory shepherds in alpine area of Rakchham-Chitkul wild life sanctuary of district Kinnaur in Himachal Pradesh  Role of defense enzyme induced by the ecofriendly components against sheath blight ( <i>Rhizoctonia solani</i> ) kuhn and sheath rot ( <i>Saracladium oryzae</i> ) sawada games  Effect of foliar concoction on growth, yield and quality of P. Sowmiva and P. Karuppajah  413 – 417  Harmanpreet Singh, M. Sravani, K. Rajaneesh and A. H. Madakemohekar  413 – 417  Assessment of wild medicinal plant used by migratory shepherds in alpine area of Rakchham-Chitkul wild life sanctuary of district Kinnaur in Himachal Pradesh  D.E. Kavi Newton and D. John Christopher  430 – 434	Certain studies on the management of <i>P. aphanidermatum</i> causing rhizome rot of turmeric by using fungicides and bio		409 – 412
shepherds in alpine area of Rakchham-Chitkul wild life sanctuary of district Kinnaur in Himachal Pradesh  Role of defense enzyme induced by the ecofriendly components against sheath blight ( <i>Rhizoctonia solani</i> ) kuhn and sheath rot ( <i>Saracladium oryzae</i> ) sawada games  Effect of foliar concoction on growth, yield and quality of P. Sowmiya and P. Karuppajah	Genetic evaluation of Indian mustard ( <i>Brassica juncea</i> L.) genotypes for yield and quality parameters	Harmanpreet Singh, M. Sravani, K.	413 – 417
components against sheath blight ( <i>Rhizoctonia solani</i> ) kuhn and sheath rot ( <i>Saracladium oryzae</i> ) sawada games  Effect of foliar concoction on growth, yield and quality of P. Sowmiya and P. Karuppajah  430 – 434	shepherds in alpine area of Rakchham-Chitkul wild life sanctuary of district Kinnaur in Himachal Pradesh	Radha and Sunil Puri	418 – 429
	components against sheath blight ( <i>Rhizoctonia solani</i> ) kuhn and sheath rot ( <i>Saracladium oryzae</i> ) sawada games		430 – 434
		P. Sowmiya and P. Karuppaiah	435 – 440

Influence of integrated nutrient management practices on growth and yield of Rice-Greengram cropping system	G.B. Sudhagar Rao, G. Baradhan, S.M. Sureshkumar, R. Rex Immanuel and S. Ramesh	441 – 443
Physiological responses of multipurpose tree seedlings to induced water stress	Rex Immanuel, R., M. Ganapathy, M. Thiruppathi, G.B. Sudhagar Rao and J. Nambi	444 – 447
Generation mean analysis for yield and component traits in tomato ( <i>Lycopersican esculentum</i> Mill.)	R. Ebenezer Babu Rajan, C. Praveen Sampath Kumar, J.L. Joshi and Ajish Muraleedharan	448 – 451
The reasons related to the stop of farmers to adopt the technique of plastic houses in Diwaniyah province of Iraq	RanaSadeq Al-Fatlaw and HussainKhudair Al Taiy	452 – 457
Effect of different doses of nitrogen on growth and yield of chickpea (Cicer arietinum)	Puyam Binita Devi, Mayur S. Darvhankar, Ajeet Prakash and Diptanu Banik	458 – 460
Effect of different control methods on <i>Cuscuta campestris</i> , and growth and productivity of eggplant ( <i>Solanum melongena</i> )	Bashar K.H. Al-Gburi, Fadhil H. Al- Sahaf, Fadhal A. Al-fadhal, Akeel E. Mohammed and Juan P.Del-Monte	461 – 469
Effect of certain plant products against <i>Macrophomina</i> phaseolina (Tassi) goid. causing dry root rot in sunflower	L. Darwin Christdhas Henry, M. ThamaraiSelvi and R. Sutha Raja Kumar	470 – 472
Effect of use of different levels of caraway seed ( <i>Carum carvi</i> L.) powder on some physiological characteristics of Japanese quail	D.K. Seger, Khalid C.K Al-Salhie and Hatim A.J. AL-Shwilly	473 – 476
Survey of ethnomedicinal plants used by migratory shepherds in Shimla district of Himachal Pradesh	Radha and Sunil Puri	477 – 482
Determination of antioxidant activity, total phenolic content in different parts of medicinal fern, <i>Blenchum orientale</i>	Hind S. Jasim, Muhaned Mohammed Eteya and Ibtihaj Ahmed kadhim	483–489
Study of the effects of the <i>aloe vera</i> gel on soft tissue injury regeneration: an experimental study on rabbits	Sena a Malik Hussein	490–495
Sustenance of soil microbial biomass, the basis of soil fertility in the agro-ecosystems: influence of pesticide and soil amendments	Pratibha Singh and Sheo Mohan Prasad	496 – 507
Effect of osmo priming seed treatments on seed quality in certain minor millets	D.S. Balaji and G. Sathiya Narayanan	508 – 514
Chemical constituents, antimicrobial potential and antioxidant efficacy of essential oil from <i>Boesenbergia pulcherrima</i> (wall.) kuntze	Santoshkumar D. Byahatti and Devarajan Thangadurai	515 – 521
Identification of essential oil components from <i>amomum</i> species using GC-MS analysis	Santoshkumar D. Byahatti and Devarajan Thangadurai	522 – 525
Response of sunflower to integrated nutrient and weed management practices on weeds, growth and yield, quality and nutrient uptake	Kalaiyarasan, C., V. Vaiyapuri, K.Suseendran and S.Jawahar	526 – 533
Effect of organic fertilizer and mycorrhiza fungi on some physical and chemical properties of soils	AlaaRaheemAtea and Falah Hasan Issa	534 – 537
Effect of atorvastatin against new castle disease virus in chicken embryo fibroblast cells	HayderAbd AI emeerZballa Almremdhy and Emad Jawad Khamas	538 – 544
The effect of storage period and heat exposure of hatching eggs before or during storing on the hatching characteristics of hatching eggs of broiler breeder (Ross 308)	Ammar H. Areaaer and Basil M. Ibrahim	545 – 551
Nano fertilizers and optimum crop productivity : A review	Ali JasimHadi AL-Tameemi, Yousif Ahmad Mahmood AL-Aloosy and Sinan Sameer Jumaa	552 – 554
The effect of planting dates and the levels of npk fertilizers on some vegetative and fruits characters of fennel <i>Foeniculum vulgare</i> L.	Noura S. M. albukhder and Shaimaa I.M. Al-Refai	555 – 561
Effects of supplementation <i>cinnamon cassia</i> and <i>Zingiber officinale</i> powder on reproductive performance of broiler breeder male	Ammar Qahtanshanoon Mohammed and Abdulrahem Mohammed Qana H Amin	562 – 567
Effects of climate factors on radioactive contamination of heavy elements	Ibtihaj Ahmed Kadhim	568 – 574
Effect of treating seed with different levels of salicylic acid in soil tolerance to salinity stress for different cultivars of wheat crop ( <i>Triticum aestivum</i> L).	Saba A. Al-Zubaidi, Basim Hassan Khudair, Mustafa Jawad Neamah, Hussein Ali K. Al- Hasnawi and Hakim Razak Zagi	575 – 579

_	
N.B. Misal, R.G. Patil and Krittika	580 – 584
Jaiganesh V. and Kannan C.	585 – 587
Jaiganesh, V. and Kannan C.	588 – 592
Ajish Muraleedharan, K. Sha, R. Ebenezer Babu Rajan, C. Praveen Sampath Kumar and J. L. Joshi	593 – 595
R. Ramakrishnan and T. Selvamuthukumaran	596 – 598
Vandana Verma, O.P. Chauhan and C. Nanjappa	599 – 607
Rashmi Srivastava, Neha Mishra, Swati Agarwal and Neetu Mishra	608 – 615
Ali R.R., A.A. Abd El-Kader, E.F. Essa and Mohamed A.E. AbdelRahman	616 – 621
M. Ismail and R.R. Ali	622 – 627
H.A. Mansour and Sabreen Kh Pibars	628 – 635
Sabreen Kh Pibars and H. A. Mansour	636 – 643
Hani A. Mansour, Sameh K. Abd- Elmabod and B. A. Engel	644 – 651
Waleed M.F. Abd-El-Hady, El-Metwally M. Selim and Naema I. El-Sayed	652 – 664
Kassem A.S. Mohammed <sup>1</sup> , Safaa. S. Abozed <sup>2</sup> , Hanan H. Abdel-kader <sup>1</sup> and Abdel Khalek Selim	665 – 673
Ebtessam A. Youssef and Ali Mohamed Ali Hozayen	674 – 683
Ali Hozayen	684 – 694
Mohamed R. El-Gogary, Ayman Y. El- Khateeband Asmaa M. Megahed	695 – 705
Tayel, M.Y.; S.M. Shaaban and H.A. Mansour	706 – 710
Tarek A. Mahmoud, Ebtessam A. Youssef, Sameh B. El-harouny and Manal A. M. AboEid	711 – 720
Samir S. Attia, Abdel-Ghany M. El- Gindy Hani A. Mansour, Soha E. Kalil and Yasser E. Arafa	721 – 731
Shawer, S.S.	732 – 737
A.M. Aziz, Sahar, A. Shahin E.F. Essa and M. Abd El-Hady	738 – 744
Hedidi Djahida, Saidi Djamel, Belhacini Fatima and Boughalia Mohammed	745 – 749
R. Gobi, Chirom Surajkumar Singh, A. Balasubramanian, S. Sathiyamurthi and P.Stalin	750 – 752
A. Balasubramanian, I. Manikandan, R. Gobi, N. Senthil Kumar and P. Stalin	753 – 756
R. Udhayakumar, K. Rajamohan, S. Sanjaygandhi and L. Vengadeshkumar	757 – 761
R. Kanagarajan, M. Ayyamperumal and	
	Jaiganesh V. and Kannan C.  Jaiganesh, V. and Kannan C.  Ajish Muraleedharan, K. Sha, R. Ebenezer Babu Rajan, C. Praveen Sampath Kumar and J. L. Joshi R. Ramakrishnan and T. Selvamuthukumaran and T. Selvamuthukumaran and T. Selvamuthukumaran Ali R.R., A.A. Abd El-Kader, E.F. Essa and Mohamed A.E. AbdelRahman M. Ismail and R.R. Ali H.A. Mansour and Sabreen Kh Pibars  Sabreen Kh Pibars and H. A. Mansour Hani A. Mansour, Sameh K. Abd-Elmabod and B. A. Engel Waleed M.F. Abd-El-Hady, El-Metwally M. Selim and Naema I. El-Sayed Kassem A.S. Mohammed', Safaa. S. Abozed², Hanan H. Abdel-kader¹ and Abdel Khalek Selim  Ebtessam A. Youssef and Ali Mohamed Ali Hozayen  Ebtessam A. Youssef and Ali Mohamed Ali Hozayen  Mohamed R. El-Gogary, Ayman Y. El-Khateeband Asmaa M. Megahed  Tayel, M.Y.; S.M. Shaaban and H.A. Mansour  Tarek A. Mahmoud, Ebtessam A. Youssef, Sameh B. El-harouny and Manal A. M. AboEid  Samir S. Attia, Abdel-Ghany M. El-Gindy Hani A. Mansour, Soha E. Kalii and Yasser E. Arafa  Shawer, S.S.  A.M. Aziz, Sahar, A. Shahin E.F. Essa and M. Abd El-Hady Hedidi Djahida, Saidi Djamel, Belhacini Fatima and Boughalia Mohammed R. Gobi, Chirom Surajkumar Singh, A. Balasubramanian, S. Sathiyamurthi and P. Stalin A. Balasubramanian, I. Manikandan, R. Gobi, N. Senthil Kumar and P. Stalin R. Udhayakumar, K. Rajamohan, S.

Antimicrobial, physicochemical and sensory characteristics of honey treated cream	Ebtisam F. Mousa, Shaymaa saady lafta and Asmaa Sabah Ahmaed	764 – 772
Effect of irrigation water quality and nitrogen fertilizer in the growth of barley crop ( <i>Hordeum vulgare</i> L.) and some physical and chemical soil traits in Dhi Qar province, southern Iraq	Saba Ali Al-Zubaidi	773 – 779
Biological effect of some aromatic plant oils against aphids oleander <i>Aphis nerii</i> (Aphidae : homoptera)	Amal Kamal Suleman	780 – 784
Study of wild medicinal plants used by tribal migratory shepherds in hills of Shimla district, Himachal Pradesh	Radha and Sunil Puri	785 – 790
Effect of adding different levels of organic manure and potassium fertilizer in the yield growth of wheat ( <i>Triticum aestivum</i> L.)	Zaid A.Z. Ali AlJanabi, Ameer A. Jafaar, Israahikmatabd and Ali H. Abd Al Hassan	791 – 795
Effect of integrated nutrient and weed management practices on weeds, growth and yield of sunflower	Kalaiyarasan, C. and V. Vaiyapuri	796 – 801
Effect of organic inputs on yield and quality of grapes cv. Muscat	M. Rajkumar, K.P. Iswarya, R. Suresh Kumar and R. Senthilnathan	802 – 804
Combining ability analysis for quantitative traits in bottle gourd [Lagenaria siceraria (Mol.) Standl.]	Avnish Kumar Yadav, G.C. Yadav and R.C. Jaiswal	805 – 807
Soil moisture sensor based drip irrigation on sugarcane at different fertilizer levels	N. Ramesh, G. Baradhan and S.M. Suresh Kumar	808 – 812
Study of the movement of moisture and nitrogen concentration in soil with drip irrigation system in okra crop	Krittika, A.K. Jain and N.B. Misal	813 – 816
Response of tomato (Lycopersicum esculentum) to cobalt supplement	Sh.Sh, Holah, S.T. Abou Zeid, Nadia Gad and Abbas. M.M.	817 – 822
Mitigation of salinity stress and <i>Alternaria</i> leaf spot disease in faba bean by nicotinamide	Kamar M. Abd El-Hai, Abeer Abdulkhalek Ghoniem, Ayman Y. El- Khateeb and Ayman EL-Ghamry	823 – 839
Effect of antioxidants on citrus leaf anatomical structure grown under saline irrigation water	Islam, F. Hassan; Abou Leila, Bedour; Gaballah, Maybelle and H., El-Wakeel	840 – 845
First report of bacterial angular leaf spot caused by Pseudomonas syringae pv. lachrymans on cucumber in Iraq	Saba A.K. Al-Fallooji, Sabah L. Al- Hasnawi and Ahlam K. Al-Yasseen	846 – 852
Effect of nitrogen source on No <sub>3</sub> n accumulation, nitrate reductase activity, growth and yield in brassica plants	Wafaa Ali Hussein	853 – 858
Characteristics and classification of soil potential for agriculture in the Tash district within the dry agricultural zone in Anbar province of Iraq	Abdulkareem A. makhilif, Ali M. Rageh, Mohamed A. Hassan and Mohamed A. Aboud	859 – 869
Effect of the population density of the date palm mite of the ancient world <i>Oligonychus afrasiaticus</i> (MCGREGOR) on some dates palm trees in the orchards of central Iraq	Ahmed M. Tarek	870 – 873
New record for two species <i>of genus Autographa</i> Hübner 1821 (Lepidoptera: Noctuidae : Plusiinae) in Baghdad, Iraq	Hussein Kattan Mohammed and Awatif Abdul-fatah Hamodi	874 – 877
Food preference of red pumpkin beetle <i>Raphidopalpa foveicollis</i> (Lucas) and estimate of percentage of economic damage on some different melon varieties	Mohammed Shakir Manjy	878 – 883
The role of organic fertilizer and amino acid (proline) in the growth and production of cayenne pepper plants ( <i>Capsicum annuum</i> . L) and the accumulation of their medicinal compounds (capsaicin and dihydrocapsaicin) under water stress circumstances	Kareem Meayan Rabie and Ahmed Shaker Mohsen Al-duhami	884 – 892
Supplementing probiotic in different styles effects on the digestive organs anatomical parameters of females akar putra chicken	Hasan, S.A. Jawad	893 – 897
The effect of the source and the level of residues in some of the characteristics of the soil and yield of broad bean ( <i>Vicia faba</i> L.)	H.J. Mohammed, B.R. Sarheed, M.O. Salum and M.R. Alshaheen	898 – 903
Biological studies and control of cotton leaf worm <i>Sopdoptera littoralis</i> (Lep: Noctuidae) in Iraq	Musa Mahmood AL-Hasnawy	904 – 907
Effect of different ratio of addition of NaCl to the diets on some growth traits in grass carp Ctenopharyngodon idella	M.S. Al-Khshali	908 – 911
Detection of trichothecens chemotype produced by Fusarium graminearum isolated from grains using specific PCR assays	Hebat-Alla A.A. Alhamdani, Mohammed Qais Al-Ani, Salah M.A. Al-Kubaisi and A.A. Alhamdani	912 – 919

Effect of eucalyptus leaves water extract on some productive traits of broilers	Nuha T. Sh. Al Salman and Jassim K. M. Al-Gharawi	920 – 923
Effect of different levels of drinking water iron and copper on some productive traits of broilers	Hamza Gh. Habib, Ali H. Kh. Al-Hilali and Jassim K.M. Al-Gharawi	924 – 928
A study on adoption of botanical pesticides and its relationship with the characteristics of the respondents and the constraints	Darling B. Suji and C. Praveen Sampath Kumar	929 – 933
Studies on genetic variability, heritability and genetic advance in cotton ( <i>Gossypium hirsutum</i> L.)	C. Praveen Sampath Kumar, S. Raju, R. Ebenezer Babu Rajan, Ajish Muraleedharan & Darling B. Suji	934 – 937
Effect of organic nutrients and bio regulators on flowering and yield attributes of celosia ( <i>Celosia cristata</i> L.)	R. Sendhilnathan, E. Balaraman, M.Rajkumar and R. Sureshkumar	938 – 940
Comparative study of colonization of different human enteric pathogens on phylloplane of <i>Solanum lycopersicum</i>	Shilpi, Neha Bhadauria, P.D. Sharma and P.K. Paul	941 – 945
Study on production and value-chain aspects of carnation in Kumaun hills of Uttarakhand	Neelam Singh, Atul V. Singh and S.P. Singh	946 – 951
Empowering women dairy farmers through adoption of drudgery reducing technologies and availing government schemes	Sadhana Vaish and Smita Tripathi	952 – 955
Studies on influence bio-regulators on yield and quality of okra (Abelmoschus esculentus L.)	R. Sureshkumar, S. Ayyappan M. Rajkumar and R. Sendhilnathan	956 – 959
Effect of insect pathogenic fungi Zoophthora radicans on the growth of larvae and pupa of Cnaphalocrocis medinalis	Senthilkumar, M. and R. Kanagarajan	960 – 962
Survey on parasitic fauna (Chalcidoidea: hymenoptera) of Kalvarayan hills	R. Kanagarajan and G. Pudhumalar	963 – 965
Effect of irrigation with magnetic water on nitrogen fertilization efficiency of navel orange trees	Tarek A. Mahmoud, Ebtessam A. Youssef, Sameh B. El-harouny and Manal A.M. Abo Eid	966 – 975
Studies on genetic correlation and causation among seed yield and its component traits in medium duration rice ( <i>Oryza sativa</i> L.) genotypes grown over six seasons under coastal ecosystem	Sabarinathan, S.; S.R. Kirubhakaran; S.T. Ponsiva; A. Anandan; N. Senthilkumar and S. Thirugnanakumar	976 – 981
Studies on genetic vatiability in medium duration rice ( <i>Oryza sativa</i> L.) for yield and yield component traits over six seasons under coastal eco-system	Kirubhakaran., S.R., S. Sabarinathan, S.T. Ponsiva, A. Anandan, N. Senthilkumar and S. Thirugnanakumar	982 – 985
Mahalanobis, D. <sup>2</sup> and Gauch's ammi analyses in medium duration rice ( <i>Oryza sativa</i> L.) genotypes grown over six seasons under coastal eco-system	Ponsiva, S.T., S. Sabarinathan, S.R. Kirubhakaran, N. Senthilkumar, A. Anandan and S. Thirugnanakumar	986 – 994
SSR based molecular characterization and diversity analysis of cowpea	Swapnil Sonker, Triveni Sharma and Neeraj Tandan	995 – 1001
Effect of pinching and foliar application of bio regulators on growth and flower yield of gomphrena (Gomphrena globosa L.)	R. Sendhil Nathan, R. Bharani Vijay, R. Sureshkumar and M. Rajkumar	1002–1005
The effect of adding local orange peel powder to microbial inhibition and oxidative reaction within edible film component	Iman H.A. Al-Anbari, Abbas M. DAKHEL and Ali ADNAN	1006–1012
Effect of organic nutrients on certain growth and yield characters of bitter gourd ( <i>Momordica charantia</i> L.) Ecotype "Mithipagal"	R. Sureshkumar, S. Deepa, M. Rajkumar and R. Sendhilnathan	1013–1016
Economics of production and marketing of okra (Abelmoschus esculentus) in Bilaspur District of Chhattisgarh state of India	Ajay Tegar	1017–1022
Component analysis for grain yield in rice ( <i>Oryza sativa</i> L.) under natural saline condition	M. Venkatesan, P. Karthikeyan and T. Thilagavathi	1023–1026
Quantitative analysis of rice (Oryza sativa L.)	M. Venkatesan, R. Elangaimannan and T. Thilagavathi	1027–1031
The effect of adding different levels of red pepper (Capsicum frutascans) powder in some internal and external quality traits for egg of brown Japanese quail bird	Samawal S.A. Al-Tikriti, Tariq K. Al-Gumaili and A.S. Abdalwahd	1032–1037
Bio-efficacy of ampligo 150 ZC (chlorantraniliprole 9.3% + lambdacyhalothrin 4.6%) against leaf miner ( <i>Liriomyza trifolii</i> ) in tomato ( <i>Lycopersicum esculentum</i> Mill.)	V. Mary Floret and Ayyasamy Regupathy	1038–1040
Effect of adding fish scales in agricultural soils and some characteristics of <i>Vigna radiata</i> L.	Basim Y. Alkhafaji and Roaa Jafar Elkheralla	1041–1043
Effect of physical chemical and combination of mutagens on growth parameters of bhendi ( <i>Abelmoschus esculentus</i> (L.) Moench.)	Sam Ruban J., Ebeneser Babu Rajan R. and Kader Mohideen M.	1044–1045

Determination of doses of physical, chemical and their combination of mutagens on seed germination and radicle length in okra ( <i>Abelmoschus esculentus</i> (L.) Moench.)	Sam Ruban J., Ebenezer Babu Rajan R. and Kader Mohideen M.	1046–1048
Determination of chemical, physical and microbiological parameters in assessment of water quality of Alhussainia river project by GIS middle of Iraq	Mahdi Wasmey Seheib Alaidi and Hashim Haneen Kareem Aldhahi	1049–1056
The role of enzymatic and non-enzymatic antioxidants in facing the environmental stresses on plant : A Review	Yousif Ahmad Mahmood AL-Aloosy, Ali JasimHadi AL-Tameemi and Sinan Sameer Jumaa	1057–1060
Pathogenicity comparative of some Egyptian isolates and commercial Indians compounds of entomopathogenic fungi against some insect pests	Abdel-Raheem, M.A.	1061–1068
The impact of salinity water on growth and yield of two oats cultivars ( <i>Avena sativa</i> L.)	Hasan N. Mansoor, Hayder H.Abbas and Mohammed S. Taleb	1069–1076
Improvement in nutritional security of tribal families through kitchen gardening in remote areas of the Dindori District (MP), India	Nidhi Verma, Renu Pathak, Megha Dubey, Satendra Kumar, Harish Dixit and Praney Bharti	1077–1079
Study on major problem faced by SHG members and their perception towards SHGPIS	Renu Pathak, Nidhi Verma, Megha Dubey, Satendra Kumar, Pranay Bharti and Harish Dixit	1080–1082
Effect of biofertilizers on growth of different crops : A review	Megha Dubey, V.K. Verma, R.D. Barpete and Nidhi Verma	1083-1086
Impact of fertigation of nano NPK fertilizers, nutrient use efficiency and distribution in soil of potato ( <i>Solanum tuberosum</i> L.)	Hayyawi W.A. Al-uthery and Qusay. M.N. Al-Shami	1087–1096
Thermodynamic parameters of well water in Babylon governorate of Iraq	Rafal Jasim Mohammed, Safa Mahdi Abdl Kadhim and Diaa Fliah Hassan	1097–1104
Estimates of genetic parameters, components of variance and their magnitude in rice ( <i>Oryza sativa</i> L.)	N.K. Singh, A.K. Singh, Alok K. Singh, V.M. Misra and A.K. Mall	1105–1107
Management of alternarial blight of mustard ( <i>Brassica juncea</i> L.) by botanicals, <i>Trichoderma harzianum</i> and fungicides	Mukesh Kumar, Sunil Zacharia and Abhilasha A. Lal	1108–1113
Effect of integrated weeds management for growth and yield of chilli (Capsicum annuum L.) cv K-2	Sha K., Ajish Muraleedharan, Gnanasekaran Seerangan and A. Prasanth	1114–1116
Effect of addition amla ( <i>Phyllanthus emblica</i> ) and vitamin c powder on some physiological and production performance of broiler	Tareq Khalaf Hasan Aljumaily, Yasir. M. Kamil and Ahmed Taies Taha	1117–1120
Response of Anthurium andreanum cv. tropical to different media and nutrients grown under shade conditions	Ajish Muraleedharan, K. Sha, G. Samlind Sujin, R. Ebenezer Babu Rajan, C. Praveen Sampath Kumar and J.L. Joshi	1121–1124
Constraints experienced by the paddy farmers in extent of adoption of cultivation practices	Balamurugan V. and J. Manikandan	1125–1126
Estimating seasons starting point time as a result of climate change impaction	Hazem H. Hussain, Hussain Abodi Nemah and Basim Abdul Sada	1127–1131
Effect of Sargassum tenerrimum on controlling sheath blight of rice caused by Rhizoctonia solani Kuhn	K. Hane Graff and T. Suthin Raj	1132–1135
Screening of bhendi [Ablemoschus esculentus (L.) Moench] genotypes against yellow vein mosaic virus for resistance under field condition	N. Karthika and T. Uma Maheswari	1136–1138
Effect of entomopathogenic nematode, Rhabditis Blumi Sudhaus (Nematoda: Rhabditid as a biocontrol agent on the palm borer, arabian rhinoceros beetle (Oryctes agamemnon arabicus)	Ahmad M. Tareq, Mohammed Z. Khalaf, Falah H. Naher, Jawad B. Al- Zaidawi and Haitham S. Khalaf	1139–1143
Efficiency evaluation of some plant extracts for controlling of barley covered smut caused by <i>Ustilago hordei</i>	Thayeb A. Farhen, Jasim M. Abed and Hamood M. Saleh	1144–1147
Polymorphisms of pit 1 gene in broiler ross 308 hybrid and its association on some productive performances and body scales	Eman H. AL-Anbari	1148–1155
Effect of prawn exoskeleton supplemented smay on cultural characteristics of entomopathogenic fungi ( <i>Zoophthora radicans</i> )	M. Senthilkumar, Pazhanisamy, M. and V. Sathyaseelan	1156–1158
Seasonal incidence of leaf eating caterpillar ( <i>Spodoptera litura</i> Fabricius) in groundnut ecosystem during rabi season	M. Pazhanisamy, V. Sathyaseelan and M. Senthilkumar	1159–1163

The effect of plant extracts of sage ( <i>Salvia officinalis</i> ) and thyme ( <i>Thymus vulgaris</i> ) in the cause of disease complicating the roots of nematodes <i>Meloidogyne incognita</i> on the tomato in Iraq	Y.A. Jassam and T.A. Kareem	1164–1169
Systematic study for the new record <i>cleome scaposa</i> dc. (Cleomaceae) in Iraq	Mohammed Othman Mousa	1170–1177
Effect of the treatment with acetic and lactic acid on some of the productive characteristics in strain Quail	Esraa Mobasher Towfeq	1178–1183
Investigation of the presence of parasites that contaminate some fruits and vegetables in the Samarra city in Iraq	Ouhood Mozahim Shakir, Khadija khleaf Abdulla, Aseel Ahmed Mustafa and Mohammed Ahmed Mustafa	1184–1190
The role of proline concentrations in improving the yield of maize ( <i>Zea mays</i> L.) plant under water stress conditions	Raisan Ahmed Al-Zobiady, Ahmed habeeb Al-mamoori, Karrar Falah Hadi Alkhafagi and Ahmad Jaafar Sadeq Abakah	1191–1198
Hydrocarbons removal from wastewater by green matter (rice husk as a model)	Atheer Saieb Naji Al-Azawey	1199–1202
Shoots regeneration in callus tissue of coriander plant (Coriandrum sativum L.) In vitro	Shurooq Falah Hassan	1203-1205
Photo bleaching inhibition activity of <i>Cucurbita pepo</i> fruit extract on brilliant blue dye	Mustafa S. Sharif, Mohsin, E. Aldokheily and Mohammed Turkey	1206–1213
Effect of ortho silicic acid formulations on productivity and profitability of maize	Jawahar, S., S. Ramesh, K. Suseendran, C. Kalaiyarasan and S.R. Vinod Kumar	1214–1218
Effect of integrated nutrient management practices on productivity and profitability of transplanted rice	Vinod Kumar. S.R., S. Jawahar, M. Kowsalya and C. Santhana Kumar	1219–1222
Effect of organic and inorganic inputs on growth and yield of jasmine (Jasminum auriculatum. L). Mullai	Sha. K, Ajish Muraleedharan and Gnanasekaran Seerangan	1223–1225
Determining the fruit yield of <i>Jatropha curcas</i> L. accesions found in hilly zone and southern transition zone of Chikkamagaluru and Shivamogga Districts of Karnataka, India	Ramesh Babu H.N., Rajeshwari N., and Nithish S.A.	1226–1228
The effect of supplementation different additional levels of choline to diet upon the performance of Japanese quails	Q.H. Ameen, M.I.A. AL-Neemi and M.A. Mohammed	1229–1233
Response of cultivated cabbage in plastic bags for spraying with amino acids, fertilization with humic acid and its effect on some vegetative and quality traits	Yasamin, F. Saloom Mohammad, H.A. AL- Hasane and Salah, H.J. AL-Hchami	1234–1240
Evaluation of the subsoiler tine designed and manufactured locally and its effect on some power indicators and corn yield	Hussain Th. Tahir and Nazat H. Jeejo	1241–1248
Role of organic and chemical fertilizer on growth and yield of two cultivars of pea ( <i>Pisum sativum</i> L.)	Hussien J.M. AL-Bayati, Fathel F.R. Ibraheem, Waleed B.A.M. Allela and Duraid K.A. AL-Taey	1249–1253
Study the foliar times numbers and atoink stimulator on the growth and yield of cucumber (Saif cultivar) cultivated in unheated plastic houses	Heba A. Hussein Majida MH. Mhaibes and Hakeem Sh. Atallah	1254–1259
Assessment of mineral and nano-fertilizers fragmentation in wheat crop ( <i>Triticum aestivum</i> L.) fertilization	Khudhair J.Y. Al-Saidan, Shaimaa I. Mahmoud and Hanaa H. Mohamed	1260–1267
Overlap influence for the process of retail of mineral and nanoparticles fertilizers and stages of addition on growth and yield of wheat ( <i>Triticum aestivum</i> L.)	Khudhair J.Y. Al-Saidan, Shaimaa I. Mahmoud and Hanaa H. Mohamed	1268–1278
Impact of levels and time of foliar application of nano fertilizer (super micro plus) on some components of growth and yield of rice ( <i>Oriza sativa</i> L.)	Raheem A.H. Jassim, Hanoon N. Kadhem and Ghanim. B. Nooni	1279–1283
Effect of water extract of parsley ( <i>Petroselinum sativum</i> ) leaves in some productive traits of broilers	Tayseer A.M. Al-Musawi, Mousa A. Hassan, Jassim K.M. Al-Gharawi and Radhi A. Al-Ziadi	1284–1287
Effect of the addition of green tea to the awassi lambs rations on some blood standards	Wafaa Hamed Al-Samaraae and Yaseen Ali Alobeidi	1288–1290
Effect of humic acid spraying on growth and yield of wheat (Triticum aestivum L.)	Duaa H. Mahdi, Faisal M. Madlol and Mohamed A. Hashim	1291–1293
Effect of light and aeration on the growth of Sclerotium rolfsii causing stem rot of cluster bean	A. Muthukumar, T. Suthinraj, R. Udhayakumar and R. Naveenkumar	1294–1296
Effect of nutritional sources on the growth of <i>Sclerotium rolfsii</i> causing stem rot of cluster bean	A. Muthukumar, R. Udhayakumar and R. Naveenkumar	1297–1300
Molecular identification and pathogenicity of fusarium fungi causing root rot disease of cucumber under plastic greenhouses in Egypt	Ashraf Gamil Attallah, Ahmed Farahat Sahab and El Sayed Hussein Ziedan	1301–1307

Influence of salicylic acid elicitation on secondary metabolites	Bipin Maurya, Krishna Kumar Rai, Neha	1000 1010
and biomass production in <i>in-vitro</i> cultured <i>Withania coagulans</i> (L.) Dunal	Pandey, Lakee Sharma, Niraj Kumar Goswami and Shashi Pandey Rai	1308–1316
	Sanjaygandhi, S., Vengadeshkumar,	
Survey of wilt incidence of cotton and pathogenic variability of	L., Udhayakumar, R., Rajamohan, K.	1317–1323
Fusarium oxysporum F. sp. vasinfectum	and Thamarai Selvi, M.	
Effect of combined application of antagonistic organisms and	Sanjaygandhi, S., Udhayakumar, R.,	
organic amendments on the wilt incidence of cotton incited by	Vengadeshkumar., L., Rajamohan, K.,	1324-1329
Fusarium oxysporum f. sp. vasinfectum	and ThamaraiSelvi, M.	
Cadmium toxicity impact on biomodal respiration of air	P. Sangeetha and B. Aruljothi	1330–1335
breathing fish Channa punctatus (Bloch.)	,	
Effect of different levels of humic acid, fulvic acid and N P K in	HayderAbdul husseinMohsinALmaghir,	1000 1010
some growth properties and total seed yield of sunflower plant	Shaimaalbraheem Al-Refai and TurkiMeften Saad	1336–1340
(Helianthus annuus L.)  Repellency property of certain botanical extracts and acaricides		
against two spotted spider mite, <i>Tetranychus urticae</i> (Koch) on	V. Sathyaseelan, M. Senthil Kumar and	1341–1343
red gram ( <i>Cajanus cajan</i> L.)	M. Pazhanisamy	1041 1040
Use of different treatments to increase the efficiency of flag leaf		
and the parts of the spike on the dry matter production of wheat	Ahmed L.J. Al-Toby and Faisal M. M.	1344–1348
crop Triticum aestivum L.	Al-Taher	
Use of Melissa leaves water extract as a natural antibiotic on	Reem K.A. Al-Ramahi, Jassim K.M. Al-	1349–1351
some immunological and blood traits of broilers	Gharawi and Radhi A. Al-Zeadi	1049-1001
Solar along with organic amendments assisted integrated	Mullaimaran S., Haripriya K.,	
approach for the management of soil borne diseases and pest	Barathkumar T.R. and Jaiganesh, V.	1352–1355
on tomato at nursery level		
Role of growth regulators NAA and CPPU in growth	Abid-Alridha Al-Qassam and	1356-1359
characteristics of olive transplants  Role of cluster frontline demonstration in enhancement of	Mohammed A. Shakir  R.K. Dwivedi, B.K. Tiwari D.K. Tiwari,	
chickpea ( <i>Cicer arientinum</i> ) production	K.S. Baghel and A.K. Patel	1360-1362
Grain yield in raised bed planted wheat in central plain zone of	Vandna Chhabra, Amritpal Singh and	
Punjab	Manpreet Kaur	1363–1365
Effect of irrigation practices on the growth and yield attributes	Murugan, G.; M.S. Bhagavathi, K. Suseendran,	1000 1000
and yield of rice (Oryza sativa L.)	P.Stalin and M.Saravana Perumal	1366–1368
Effect of gibberellic acid (GA <sub>3</sub> ) on growth and yield of rice	S. Ramesh, P. Sudhakar, S. Elankavi,	1369–1372
(Oryza sativa L.)	K. Suseendran and S. Jawahar	1009-1072
Effect of cutting periods on the concentration of hydrocyanic	Ali Salim Hussein and Hussein Razzaq	1373–1377
acid for five cultivars of sorghum (Sorghum bicolor L.)	Nayyef	1070 1077
Effect of some plant powders on aspects of the biological	Dues Kamal Mahmaad	1070 1001
performance for sawtoothed grain beetle <i>Oryzaephilus</i>	Ruaa Kamel Mahmood	1378–1381
surinamensis L. (Coleoptera: Silvanidae) Impact of hammering tool and sieve's perforations diameter on	Ahmed Akbar Ali. Ali Mohammed Ali	
some mechanical and volumetric traits of corn grinding process	and Basim Aboud Abbas	1382–1385
Effect of bio-fertilizers, organic fertilizer and irrigation periods in		
the traits of yield and its components for rice plant <i>Oryza sativa</i>	Ahmed Thamer Kamil AL-Sultani and	1386-1393
L. (Anbar 33 cultivar)	Hashem Rabie Latheeth	
Antibacterial and wound healing activities of acetone	Ahmed S. Dwaish	1394–1399
Cladophora glomerata extract		1004-1009
Molecular detection of AAP gene in Staphylococcus aureus	Enas Jalil Baqer Almayali and Israa	1400–1402
isolated from tonsillitis	Abdul Ameer AL-Kraety	1.00 1.02
Antimicrobial activity of some plant extracts against pathogenic	Mahammed E Jabbar Al-Defiery, Mona	1403-1409
bacteria Isolation and identification of some endophytic fungi from some	N. Al-Terehi, Nabaa M. Salman Cridee  Zaman Abdul Hussein Ali Ghfil and	
local algae	Dina Yousif Mohammed	1410–1418
	Raghad J. Fayyad, Alaa N. Mohammed	
Anticancer activity of Spirulina platensis methanolic extracts	Ali, Ahmed S. Dwaish and Ahmed	1419–1426
against L20B and MCF7 human cancer cell lines	Khayoon Abed Al- Abboodi	
Genetic relationships among Plantago spp. growing in Iraq	Mohammed F. Hamdi, Dhia S. Hassawi	1427–1432
using random amplified polymorphic DNA (RAPD) markers	and Athiya N. Salman	1421-1432
Anatomical study of stems for some species from	Mohammed Othman Mousa and Khazal	1433–1440
caryophyllaceae family in Iraq	Dh. Wadi Al-Jibouri	
Effect of foliar fertilizers on growth and yield of three wheat varieties	Atab, H.A.; Merhij, M.Y. and Jasim A.H.	1441-1444
Biotechnology of waste water treatment with fungi (Aspergillus	Bushra Ali Ghyadh, Ahmed Shaker Al-	1445-1449
niger and Rhizopus oligosporium)	Ashoor and Zainab Mohsen Ibrahim	

Application of participatory rural appraisal (PRA) on the socio- economic impact of watershed activities	Habibollah Mahdavivafa and Rhman Sharifi	1450-1458
Evaluating the stability of geological formations for the construction of watershed management structures and buildings		1459-1463