



**People's Democratic Republic of Algeria**  
**Ministry of Higher Education and Scientific Research**  
**Higher School of Saharan Agriculture, El Oued**



**The First International Conference**

**TECHNOLOGY & INNOVATION TO MODERNIZE**  
**SAHARAN AGRICULTURE (20&21 November 2024)**

**PROGRAM OF THE CONFERENCE**

**Wednesday, 20 November 2024**

**08:00 – 09:00:** Registration of speakers and guests

**09:00 – 09:30:** Opening Ceremony

**09:30 – 09:50:** The first Plenary Conference presented by **Dr. Mohamed KHALIFA**

**Title:** Solar Pivot Experience and Perspective

**09:50 – 10:10:** The second Plenary Conference presented by **Prof. Boualem REMINI**

**Title:** “The Oasis, Water Security Ensured In An Environment Hostile To Life!”

**10:10 – 10:30:** General Debate

**10:30 – 11:00:** Coffee Break

**10:30 – 11:30:** Poster Sessions

Soil and Water topic (poster number: (01-23)

Animal Sciences (poster number: (01-26)

**11:00 – 12:00:** Oral Sessions

Biotechnology topic (01-04) Conference hall

Animal Sciences topic (01-05) Room n° 01

Soil and Water topic (01-05) Room n° 02

**12:00 – 14:00:** Lunch Break



**The First International Conference**  
**TECHNOLOGY & INNOVATION TO MODERNIZE SAHARAN**  
**AGRICULTURE (20&21 November 2024)**

**14:00 – 15:30:** Workshop of Horse Breeding (Grande KHEIMA)

**14:00- 15:00:** Online 3rd and 4th Plenary conference hall

**Prof. Andrea Pezzuolo**

**Title:** Precision Livestock Farming: Implementing technology-driven precision farming practices to enhance productivity and resource utilization

**Dr. Lorenzo Seva**

**Title:** Precision livestock feeding strategies utilizing NIR sensor data for enhanced feed quality control and maximized feed utilization

**Dr. Rida Shibli**

**Title:** Genetically modified crops: Current status and future prospects

**14:00 – 15:00:** Oral Session

Plant sciences topic (01-05) Room n° 01

Soil and Water topic (06-10) Room n°02.

**15:00 – 15:30:** Coffee Break

**15:00 – 16:00:** Poster Sessions

Biotechnology topic (01 – 20)

Plant sciences topic (01 - 23)

**15:30 – 16:30:** Oral Session

Animal sciences topic (06-10) Conference hall

Biotechnology topic (05-09) Room n°01

Plant Sciences topic (06-11) Room n°02.



## **PROGRAM OF THE CONFERENCE**

**Thursday, 21 November 2024**

**08:30 – 08:50:** The first Plenary Conference presented by **Prof. Neji TARCHOUN**

**Title:** “The relationship between horticulture biodiversity and food security, the valuable role of cucurbits for Tunisian sustainable agriculture”

**08:50 - 09:10:** The second Plenary Conference presented by **Dr. Abuelgasim ABDULGADIR**

**Title:** “Remote sensing in Agriculture and soil salinity mapping”

**09:10 – 09:30:** General Debate

**08:30 – 10:00:** Workshop of Beekeeping Grande KHEIMA

**10:00 – 11:30:** Workshop of Aquaculture Grande KHEIMA

**09:30 – 10:00:** Coffee Break

**09:30 – 10:30:** Poster session

Plant sciences topic (24-38)

Soil and Water topic (18-33)

Biotechnology topic (21-33)

**10:00 – 10:20:** The third Plenary Conference presented by **Prof. Khodir MADANI**

**Title:** The cactus: a structuring plant that is resilient to climate change

**10:20 – 10:40:** The fourth Plenary Conference presented by **Prof. Abdelhamid MELLOUK**

**Title:** Artificial intelligence and its application in agriculture field

**10:40 – 11:00** General Debate

**11:00 – 12:00:** *Round Table*

**12:00 – 12:30:** *Closing Ceremony*

**12:30:** *Lunch Break*



# **The Program For The First Day Of The Conference**

**Wednesday, 20 November 2024**

## **ORAL SESSION**

المدرسة العليا للفلاحة الصحراوية - الوادي



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**Program Details**

**Wednesday, 20 November 2024 (11:00-12:00/ 15:30-16:30)**

**Topic: Biotechnology (Oral Session)**

Code	Authors' names	Communication title
BIO 01	Narimane BOUZIANE, Keltoum BEN BRAHIM, Abdallah KEMASSI	The Contribution of Saharan Plant <i>Euphorbia gynaia</i> (Euphorbiaceae) in Agri-Food and Food Safety
BIO 02	Amina MELIANI and Ahmed BENSOLTANE	Biofilm-Mediated Heavy Metals Bioremediation in PGPR <i>Pseudomonas</i>
BIO 03	Imen FGUIRI, Amel SBOUI, Samira ARROUM, Mohamed DBARA, Mohamed HAMMADI, Touhami Khorchani	Production of camel cheese using enzymatic extracts of plant origin
BIO 04	Mériem MARFOUA, Elise BUISSON, Choeib MECHRAOUI, Oussama SI MOHAMMED	Evaluation of Dormancy Breaking Techniques in Jujube <i>Zizyphus lotus</i> (L.) Lam. Seeds Using Mechanical, Chemical, and Thermal Scarification Methods.
BIO 05	Moufida ATIGUI, Pierre-Guy MARNET, Marwa BRAHMI, Chayma CHAOUCH-AOUN, Ahmed BARMAT, Mohamed HAMMADI	Milk Removal, Oxytocin and Cortisol Release During Machine Milking of Dromedary Camels
BIO 06	Nour El-Houda BENALIA, Soumaya FERHAT-TALEB, Rabah SADOUN	Advancing Agricultural Parameter Estimation through Optimized Wireless Sensor Network Data
BIO 07	Ratiba BOUSBA, Nada Anfal CHAALAL, Djouhaina MERAHI, Ghada Rahma BOUZNADA	Study of the impact of seed priming on improving saharan durum wheat tolerance to drought
BIO 08	Amel SBOUI, Maha HAMMOUDA, Mohamed DBARA, Touhami KHORCHANI	Effect of heat treatment on the proteins and amino acids composition of camel milk
BIO 09	Rayene HAMIMED, Mabrouka BENHADJ, Taha MENASRIA	Metabolic engineering of extremophile actinomycetes: an approach for the production of compounds of biotechnological interest

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**Wednesday, 20 November 2024 (11:00 – 12:00)/ (15:30 – 16:30)**

**Topic : Plant science (Oral Session)**

Code	Authors' names	communication title
PS 01	Abla BOUKOFTANE, Houda Mostefaoui, Nadjat OUAISSA	Germination Test of Cherimoya (Annona cherimola Mill.) under abiotic constraints in Laghouat region
PS 02	Amina MELIANI, Ahmed BENSOLTANE	The use of the plant growth-promoting rhizobacterium pseudomonas as agriculture bioresource
PS 03	Chaouki CHAFAI, Lamir BENCHAIABA, Amina MAIRIF, Oumaima KHASSAM, Maissa MATOUG	Impact of Climatic Conditions on the Riparian Vegetation of Oued Taberdga, Khenchela Province
PS 04	Dalila AMOKRANE, Ahmed MOHAMMEDI, Mostafa El Haouari, Said BETTAHAR, Adda ABABOU	Pesticide plants: Diversity and use in crop protection in a southern Mediterranean area: Case study of Chlef in North-West Algeria
PS 05	Mohamed LEMGHARBI,	Biodiversity of sorghum [ <i>Sorghum bicolor</i> (L.) Moench] in southern of Algeria
PS 06	Nadjat TAIB, Tayeb SITAYEB, Necmi BEŞER, Nadia AISSAOUI, Mohmmmed Amine DERFOUF	Morphological, biochemical, genetic aspects of Pistaciaatlantica and its valorization in the Saharan – Laghouat -
PS 07	Wassim SAADAOU, Khawla HAMDI, Hadil HARRAB, Neji TARCHOUN, Spyridon A. PETROPOULOS	Seed priming and biopriming: A sustainable strategy to alleviate salt stress
PS 08	Abdelbasset BOUMADDA, Med Lakhdar DADAMOUSA, Med El Hafed BELAROUCI, Brahim KORICHI; Yamina BENBESSISSE	Opportunities for smart agriculture to enhance food security in Algeria
PS 09	Imane SAIGHI, Med Lakhdar DADAMOUSA, Med El Hafed BELAROUCI	Contribution to the study of potato production in the Oued Souf region
PS 10	Hadjer CHABANI, Sadek BEGGAS, El-Hadj BENKRID, Sofiane SAGGAI, Neji TARCHOUN	Enhancing potato ( <i>Solanum tuberosum</i> L.) yield and yield components trough the optimization of mineral fertilization
PS 11	Nesrine SALHI, Nadjat ZAAMOUM, Ibrahim KECBI	Assessing Morpho-Physiological and Biochemical Responses to Salt Tolerance in Three Durum Wheat Germplasm Genotypes
PS 12	Nardjes ZEKAIRA	Phytosanitary treatments in desert crops



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**Wednesday, 20 November 2024 (11:00 – 12:00)**

**Topic: Soil and water management (Oral Session)**

Code	Authors' names	communication title
SW 01	Amina HAMADI, Mohamed LARID, Gómez Calero José Alfonso, Habib OUABEL	Potential Impacts of Agroforestry on Controlling Soil Degradation by Water Erosion in the Agricultural Lands of Foothills North-West of Dahra (Mostaganem, Algeria)
SW 02	Khadidja FELLAH, Ghoufran HOGGUI, Faiza MEMMOU, Tayeb BOUARROUDJ, Sabiha HADDI	Efficacy of Green synthesis Zinc Oxide nanoparticles of Origanum vulgare leaves in treating pollutant water for sustainable agriculture
SW 03	Latifa BRAHIMI, Kheira OUMIRA, Anfel CHORFI and Zahr-Eddine DJAZOULI	Enhancing Sahara Agriculture: Valorizing Azolla filiculoides as a Sustainable Biofertilizer for Pennisetum glaucum
SW 04	Nassima BOUSAHBA, Abdelmadjid ALLALI MOHAMED, Said BOUZIANI, Akram BOUZIANE ERRAHMANI	Soil Fertilizer Recommendation System Using Multi-output Random Forest
SW 05	Sofiane SAGGAI, Djamel BOUTOUTAOU, Youcef TOUIL	Virtual water and its effects on agricultural trade product
SW 06	Leila ALLAL BENFEKIH, Meriem GUEMANE, Rayane BOUTEMDJET, Karima LEMEURS and Safia BEN AMOR	Toward sustainable agriculture : An evaluation of two composts on germination of basil.
SW 07	Mohammed Sadok BEGGAS, El-Hadj BENKRID, Neji TARCHOUN, Ahmed ALLALI, Sofiane SAGGAI, Rajouene MAJDOUB	Assessment of potato growth, yield, physiological and biochemical traits under two irrigation systems
SW 08	Mohamed Riadh OUARGLI, Boubaker ROUABAH, Mohamed Rachad MIMOUNI, Imadeddine BOUKERCHE	Precision Farming in the Sahara: AI-Driven Vegetable and Fruit Recommendation system
SW 09	Alia Bisma ABBA, Sofiane SAGGAI, Saber KOUADRI, Fatima Zohra NOUASRIA	Copper Removal from Wastewater Using Alum Sludge Recovered from Water Treatment Plant.
SW 10	Saber KOUADRI, Rachid ZEGAIT, Abdenour AMIRI, Djamel CHARAOUI	Evaluation of Groundwater Suitability for Irrigation in the Algerian Sahara: A Case Study of Illizi County.
	GHOMRI Ali, KHECHIBA, BESSER Djamel, HERRI Ibtissam	Contribution to the Study of the dimensionless experimental approach of varied flows used for the dimensioning of irrigation basins in a gravitational manner





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**Ministry of Higher Education and Scientific Research**  
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**Wednesday, 20 November 2024 (11:00-12:00)/(15:30 –16:30)**

**Topic: Animal Sciences (Oral Session)**

Code	Authors' names	Communication title
AS 01	Ibrahim Elkhalil BEHMENE, Siham GUERNEZ, Mohamed DAOUDI, Rabie GUEZI, Sofiane SAGGAI and Benabdallah BACHIR BOUIADJRA.	The presence of the red belly tilapia <i>Coptodon zillii</i> (Gervais, 1848) in southeastern Algeria (Oued Takhamalte -Illizi)
AS 02	Marwa BRAHMI, Moufida ATIGUI, Pierre-Guy MARNET, Chayma CHAOUCHAOUN, Wiem BENSALAM, Mohamed HAMMADI	Dairy Camels Training for Machine Milking: Behavioural Response
AS 03	Abdellatif BOUDRA, Rachid MERATI, Samia MELIANI	Several therapeutic attributes of propolis harvested from the Laghouat region in Southern Algeria.
AS 04	Abdelkader BERRANI, KHELILS.R, MELIANI S, BOURABAH A	Influence of Parity, Pregnancy Status and Season on Hemogram in Local Crossbreed Goats Raised in Tiaret Region, Algeria
AS 05	Khaled Azzedine GUIDOUM, Laura CARRERA-FAJA, Johan ESPUNYES, LolaPAILLER-GARCÍA, Bouabdellah BENALLOU, Sarra BOUABDELLI, Mustapha ADNANE SMADI, Lounis SEMARA, Oscar CABEZÓN, Sebastián NAPP	Widespread Seropositivity to CCHFV in Dromedaries ( <i>Camelus Dromedarius</i> ) From Desertic Regions (Algeria)
AS 06	Nacira RAMDANI, Sabrina BOUSSENA	"Assessing knowledge, attitude and practices of small ruminant owners towards brucellosis management in southeast of Algeria"
AS 07	Sabri Ala Eddine ZAIDAT, Raied ABOU KUBAA, Simona SANZANI, Khaled DJELOUAH, Maria SAPONARI	"Absolute Quantification of Honey Bee Viruses ( <i>Apis mellifera</i> L.) Using Droplet Digital PCR (ddPCR)."
AS 08	Ithar BOURAGA, Souad AOUIEUR	Influence of the palm grove maintenance on the diversity of Carabidae in Ouargla
AS 09	Ayoub HADJEB, Sarra BENAÏSSA, Ameer ZEGHOUNI	The impact of stocking density on the growth performance of lettuce ( <i>Lactuca sativa</i> ) and tilapia ( <i>Oreochromis niloticus</i> ) in an NFT aquaponic system
AS 10	Samira ARROUM, Amel SBOUI, Imen FGURI, Mohamed DBARA, Naziha AYEBA, Touhami KHORCHANI	Comparative Study of the Quality of Kefir Made from Camel, Cow, and Goat Milk





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## **POSTER SESSION**



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**Wednesday, 20 November 2024 (10:30 –11:30)**

**Topic: Soil and Water (Poster Session)**

Code	Authors' names	Communication title
SW01	Taiba BENSEGHIER	Study of Lead Pollution in Four Agricultural Soils in Algeria and Evaluation of a Depollution Test
SW02	Samra MOHDEB, Salima BENOUDAH	Evaluation of The Physical Fertility of a Sandy Soil Under Added Clay Mines
SW03	Salima DJOUDI, Soumia GUILAL	Multivariate Statistical Analysis of Groundwater Quality and Hydro-geochemical Evolution using PCA and HCA in the F'Kirina Plain North-Eastern Algeria
SW04	Mohamed Taki Eddine HAMED, Hassina Hafida BOUKHALFA, Guillaume PIERRE	Mapping of Agricultural Water Use by Application of the Energy Balance Model Based On Satellite Imagery in the El Outaya plain, Biskra (Algeria)
SW05	Bouchiba ABDELHADI and Aicha ABDELLAOUI	Rise of Salt Threatens Agriculture in Abadla, Bechar Southwest Region in Algeria
SW06	Khalida DERRADJI, Mostefa KOUADRIA, Abdelkrim HASSANI	Impact of conservation agriculture on the preservation of soil microbial biodiversity in semi-arid zones in the west of Algeria.
SW07	Yacine TORCHE	Effect of salinity stress on photosynthesis and related physiological responses in halophyte species Phaseolus vulgaris L.
SW08	Zineb AKCHICHE, Sofiane SAGGAI, Yasmina MOKHBI	Optimization of Process to Remove Nickel Ions from Industrial Wastewater for Reuse in Irrigation
SW09	Mahfoud BABAOUSMAIL, Mohammed Seghir NILI, Amina ABADI, Wissal KADOUR	Effects of Biochar Amendment on Tomato (Solanum lycopersicum L.) Quality Under Open Field Condition
SW10	Riad DJELLOULI, Redouane MILOUA, Amel BOUSMAHA, Khadidja WARDA EL KEBIR	Optimization of agricultural yield by setting up a system suitable automatic irrigation (application to alfalfa cultivation)
SW11	Nadir BENMANSOUR	Construction of agricultural water demand at the territorial level by integrating remote sensing tools.
SW12	Moufida Saoucen ALAYAT, Khaoula MAHMOUDI, Aicha MOUANE, Safia BEN AMOR and Fatiha BENDALI SAOUDI	First report of species of Anopheles (Diptera: Culicidae), potential vectors of malaria, adapted to very salty water in the arid region of Laghouat (Algerian northern Sahara).



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**Higher School of Saharan Agriculture, El Oued**



SW13	Hadjira BOUSSOUAR, Halima OUCIF ATAMINE, and Ayda LAMMARI	The Use of Poultry Waste as Fertilizer for Green Plants in the El-Oued Region
SW14	Abdelbasset KADDOUR, Sofiane SAGGAI	The effect of soil, water and climate diversity on green mint plants
SW15	Naima KOULL, Abdelkadir ABUEL GASIM, Samia HELIMI	Remote Sensing of Saline Soils in arid region, Southern Algeria
SW16	Tidjani BENZAOU, Sofiane SAGGAI, Youcef ABIMOULOUD, Mohammed BERREKBIA	Evaluation of thermal efficiency in different environment of horizontal heat exchanger in Oued Righ région South Est of Algeria
SW17	Sofiane GHERIANI, Mohammed BERREKBIA	Relationship between actual evapotranspiration and evaporation of the class A pan in the Touggourt area
SW18	Amira KESSAB	Comparative Study of Physicochemical Analyses of the Same Pedological Type, Djelfa Region
SW 19	Houcine HEGUI	Water resources management and its impact on soil salinity (Case study of the Mougheul oasis, S.W. Algeria)
SW 20	Sara BOUAROUDJ, Fouzia Bouchtat, Azeddine BOUNAMOUS	Risques de la salinisation des sols irrigués dans la région de Mila, nord-est de l'Algérie.
SW 21	Tarek ASSAMI, Samir HADJ- MILOUD, Youcef ABDELHAFID, Miled Zohra RECHACHI, Hanane MENASRIA, Houria ROUAHNA, Halima MANCER and Baelhadj HAMDI-AISSA	Prediction of gypsum crust in arid landscapes using a logistic regression model
SW 22	Walid REZIG, Rayan BELKACEM	Evaluating the physico-chemical characteristics of urban effluents the activated sludge the efficiency of the El Kerma wastewater treatment plant
SW 23	Djamila BOUCHIKHI, Karim SOUTTOU	Influence of soil pH and humidity on the abundance of earthworms in an agrosystem



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**Higher School of Saharan Agriculture, El Oued**



**Wednesday, 20 November 2024 (10:30 – 11:30)**

**Topic: Animal Sciences (Poster Session)**

Code	Authors' names	Communication title
AS01	Messaouda LAMRAOUI, Hanane LAMRAOUI, Imane LAMRAOUI, Yahia KHELEF, Naima SAHRAOUI	Impact of Modern Production System on the Longissimus Lumborum Muscle Proteome in Dromedary Camels from El Oued Region
AS02	Foudil LAAMECHE, Abdelmadjid CHEHMA, Bernard FAYE, Abdelhakim SENOUSI	Analysis of the intensive dairy camel livestock system in Ghardaia region of northern Algeria's Sahara
AS03	Sara CHETEHOUNA, Samir DEROUCHE, Islam BOULAARES, Yassine REGGAMI,	Sonchus maritimus -Loaded Niosomes as Drug Delivery System Attenuate Brain Oxidative Stress in Rats Induced by High Fructose Diet
AS04	Samra MOHDEB, Mokhtaria CHELEF, Salima BENOUDAH, Adel TAHARCHAOUCH	Contribution to the Study of the Interest of the Black Soldier Fly in Poultry Feed
AS05	Razika BOUKERT, Mira CHIKHAOUI, Dahia SAIDJ, Babelhadj BAAISSA, Naima SAHRAOUI	A new prospective study on Eimeriosis in camel's breedings in two regions of southern Algeria
AS06	Djalel Eddine GHERISSI, Moussa CHERGUI, Maria CHIKHA, Mohammed TITAOUINE, Sassi KOUTTI, Haroun BOUMARAF	Contribution of computer image analysis assistance on body measurements of the dromedary camel
AS07	Abdelkader ATIA, Brahim HAMAD, Leyla HADEF, Tarek BOUSSAADA	Sheep Male Traits Preferences Among Sheep Keepers: A Survey-Based Study
AS08	Abdelkader ATIA, Brahim HAMAD, Leyla HADEF, Tarek BOUSSAADA	A Comprehensive Mindmap Summary of " Large Camels Farming " by Bernard Faye
AS 09	Fatiha RAHOUDJA, Komi Apédo ATCHEMDI, Ahmed HOUARI	The Adaptation Strategies of Semi-Transhumant Breeders in the Ain El Bell Region of Algeria for Managing Sheep Reproduction Cycles
AS10	Aicha MOUANE, Zineb KHETTA, Khaoula BEN MEBROUK, Moufida Saoucen ALAYAT, Mounira KADRI.	Insecticidal activity of essential oils extracted from Thymus serpyllum L. against <i>Tribolium castaneum</i> (Herbst, 1797), which infest stored crops.
AS 11	Khaoula MAHMOUDI, Moufida Saoucen ALYAT, Chouaib ZAID, Younes SALHI and Fatiha BENDALI SAOUDI	Biodiversity of aquatic macroinvertebrates in the Souk-Libya marsh (Oued Souf, Algeria)
AS 12	Ibrahim Elkhilil BEHMENE, Hafsa BENRAS, Aicha BENHADJIRA, Mohamed Mounir SAGGAI, Mahfoud BABAOUSMAIL	On the presence of African catfish ( <i>Clarias gariepinus</i> ) fry in southeastern Algeria



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**Ministry of Higher Education and Scientific Research**  
**Higher School of Saharan Agriculture, El Oued**



AS13	Siham GUERNAZ, Fodil ARBOUCHE, Ibrahime Elkhalil BEHMENE, Imene CHERIF, Fatima BOUBAKEUR, Sara MEFTAH	Exploitation of pastures in the Saharan region of Tamanrasset through camel grazing and its impact on the chemical composition of their milk
AS14	Oussama SIAD, Nesrine SIAD, Chaima BOUZID	Using Near-Infrared analysis to enhance animal feeding through the evaluation of agricultural by-products in arid regions
AS15	Hayat LAOUFI, Mohamed MEBARKI, Aicha MOUANE, Sara BELKACEMI	Sexual dimorphism and food strategy of the Sandfish lizard, <i>Scincus scincus</i> (Linnaeus, 1758) in the agricultural areas of El Oued region
AS16	Sofiane Raouf KHELIL, Abdelkader BERRANI, Samia MELIANI	Breeding Performance of Local Population of Female Rabbits Raised in Tiaret Area (Semi-Arid Climate)
AS17	Abdeldjabbar CHOUIA, Abdelbasset BOUMADDA, Mohammed Lakhdar DADAMOUSA,	Feeding Practices and Structural Characteristics of Dromedary Farming systems in the El-Oued region
AS18	Rabie GUEZI, Ahlem MATALLAH, Merièm OUGGAD and Rafik ABADLI	Aquaponics in the Algerian Sahara: Evaluating an NFT Model for Sustainable Agriculture
AS19	Merièm OUGGAD, Rabie Guezi, Rafik ABADLI and Ahlem MATALLAH	Aquaculture Potential and Reproductive Study of Jewelfish in the Oued Righ region, southeast, Algeria.
AS20	Mohamed Rafik ABADLI, Rabie GUEZI, Merièm OUGGAD, Ahlem MATALLAH	Reproductive Dynamics and Aquaculture Opportunities for Mediterranean killifish in the Sahara.
AS 21	Derradji HAREK, M'hamed El MOKHEFI, Mohamed Amine FARES, Fodil ARBOUCHE	Phenotypic differentiation and genetic structure of Algerian breeds of the dromedary <i>Camelus dromedarius</i> using morphological characteristics.
AS 22	Mohamed Mounir SAGGAÏ, Oumelkheir BACHI, Ibrahim Elkhalil BEHMENE, Sofiane SAGGAÏ	Investigating the Influence of Monolayers on Aquatic Larvae: A Study on <i>Tilapia nilotica</i>
AS 23	Chaima BOUZID, Kahramen DEGHNOUCHE	Effect of Gonadotropin Releasing Hormone Treatment On Testicular Size in Arbia Young Bucks During Non-Breeding Season
AS 24	Hamza NEGAIS, Abdelhafidh Hemeir, Radia Manamani	Towards integrating fish farming into agriculture: aquaponics as a model
AS 25	Sarra MEFTAH, Sihem GUERNAZ, Amar SISSAOUI	Effect of Rationing Practices on Dairy Cattle Productivity in Semi-Arid Region of Setif
AS 26	Maria CHIKHA, Tarek KHENENOU, Djalel Eddine GHERISSI, Sabry Mohamed EL-BAHR	The impact of intensification on camel farming in Algeria
AS 27	Ibtissam LAIB, Djahra Ali BOUTLILIS, Ali ALSALME, David CORNU, Mikhael BECHELANY, Ahmed BARHOUM	Therapeutic Efficacy of Helianthemum lippii Extract and Silver Nanoparticles Synthe-sized against Cadmium-Induced Renal Nephrotoxicity in Wistar Rats





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**Wednesday, 20 November 2024 (15:00 – 16:00)**  
**Topic: Plant Sciences (Poster Session)**

Code	Authors' names	Communication title
PS01	Mohammed el Amine Bachir BOUIADJRA, Malika GHELLAI, Benabdellah BACHIR BOUIADJRA	The study of morphological and physiological behavior of three cultivars of pomegranate <i>Punica granatum</i> L. from the region of Ain chorfa Wilaya de Mascara cultivated under saline soil.
PS02	Yousra DEBBAH, Mohamed BENCHERCHALI, Saida MESSGO-MOUMENE	Enhancing nutritional value and resilience in <i>Trifolium alexandrinum</i> through Plant Growth-Promoting Rhizobacteria
PS03	Abdelkader TIFFRENT, Nadia LOMBARKIA	Assessment of control strategy by low doses of sugars against <i>Cydia pomonella</i> (Linnaeus, 1758.) on the Royal Gala variety
PS04	Hind HECHACHNA, Leïla Allal BENFEKIH, Nadhir GOURINE, Mohamed YOUSFI, Safia BEN AMOR	In vitro determination of the antifungal activity of <i>Teucrium polium</i> essential oil from the Laghouat region against a genus of the stored food fungus <i>Aspergillus</i>
PS05	Salah Eddine LAMOURI, Mohammed El Hafedh BELAROUIC, Hafida TRABELSI	Effect of Salt Stress on Germination Seeds of Eggplant ( <i>Solanum melongena</i> L.) as a Multidisciplinary Approach for Biodiversity Conservation and Improvement in Algeria
PS06	Lynda RETIMA, Khedidja DJENNANE , Nawal GUERROUF , Salma ADOUANE, BENAZIZA, A., BENAMOR, B.	Contribution To A Numerical Characterization Of Some Date Palm Cultivars ( <i>Phoenix dactylifera</i> L.), grown in the Ain naga (Ziban region, south east Algeria)
PS07	Meenakshi S.J, Yashasvi B.N, Nanditha N, Pooja Venkatesh Naik, Navya M, Nagavand	A Comprehensive Approach to Vegetable Quality Assessment using Color Detection and Dimensional Analysis
PS08	Abdelkader AMROUNE ., BEN MOUSSA M.T. , Mohamdi N., LABDAI M.S., SMATI D.	Medicinal Plants and Alopecia: Results of an Ethnobotanical Survey in the Provinces of Batna, Biskra, and Oued Souf

المدرسة العليا للفلاحة الصحراوية - الوادي





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PS09	Amina BOUHERAMA., Samir DJOUADI, Asma NACER, Xu CHENG, Martinus SCHNEIJDERBERG, Fahima LEBBIDA, Achouak ABDERREZZAK, Ton BISSELING and Said AMRANI	Exploring El Meniaa's Spontaneous Plant Microbiota ( <i>Imperata Cylindrica</i> ) For Enhanced Agricultural Sustainability
PS10	Yacine KHACHANA, Radhia DERIOUCH	Trial of Different Sowing Dates for Two sunflower Varieties in Biskra.
PS11	Radhia DERIOUCH, Yacine KHACHANA.	Trial to Study the Behaviour of Some Sunflower Varieties Grown in The Saharan Zone of Biskra
PS12	Khedidja DJENNANE, Soumia FADLAOUI, Naima BELGUEDJ, Malek BELGUEDJ	Biochemical characterization of 42 rare date palm cultivars in the Ziban region of south east of Algeria
PS13	Rima YAKOUBI, Smain MEGATELI, Tahar Hadj SADOK, Chawki BENSOUICI, Safia BEN AMOR	Study of the chemical composition, antioxidant and antibacterial activity of the essential oil of <i>Mentha rotundifolia</i> with a view to its improved use.
PS14	Amina HAMEL, Latifa BRAHIMI, Zahreddinne DJAZOULI, Djamal SMAHA, Karbouaa NIHAD	Evaluation of the Nematicidal Effect of Algae and Microalgae Extracts On Root-Knot Nematodes (Algeria)
PS15	Nassima NADJI, Nadia LOMBARKIA	Egg-Laying Behavior Of The Date Moth ( <i>Ectomyelois Ceratoniae</i> Zeller) (Lepidoptera, Pyralidae) On Palm Depending On The Sites (Organs) Of Two Cultivars.
PS16	Inasse CHERFI, Nesma MAHBOUB, Ikram TOUMI	Antimicrobial Properties of <i>Artemisia campestris</i> : Potential Applications in Food Preservation
PS17	Fatma ALIA, Zakia SAHRAOUI, Imane BA	Anti-inflammatory, antimicrobial and antioxidant activity of aqueous extract of <i>Punica granatum</i> .
PS18	Amina BELHADJ, Fatma DEMNATI, Bahi Eddine RAHMANI	Plant community structure and botanical diversity in arid steppe of Algeria (Biskra)
PS19	Aicha ADAIKA, Hiba NAGOUDI, Salsabil BOUCHEKIMA.	Extraction, Characterization and in silico and in vitro evaluation of the Anti-inflammatory activity of active ingredients extracted from some medicinal plants

المدرسة العليا للفلاحة الصحراوية - الوادي



**People's Democratic Republic of Algeria**  
**Ministry of Higher Education and Scientific Research**  
**Higher School of Saharan Agriculture, El Oued**



PS20	Ammeu ABDELLAOUI, Belhaouari BENKHEDDA	Toxic Effects of Copper on Tomato and Soil Microfauna
PS 21	Khedidja DJENNANE, Linda RETIMA, Salma ADOUANE, Nawal GUERROUF, Kahramen DAGHNOUCH	The study of the nutritional value of wild and pastoral plants in one of the areas of West Zab (Doucen)
PS 22	Mohamed SAHNOUN, Rachida TOUHAMI, Naim RAMOU, Smail TEDJINI, Redouane DRAI, Omar KHERIF	Estimating Wheat Growth Coefficients with a System Incorporating an Advanced Image Processing Model and Environmental Sensors
PS 23	Nesma ABDESSEMED, Ali KERROUM, Khaoula AZIBI and Serine TEMZI	Mycoherbicidal potential of two Alternaria species and one Fusarium species against Cyperus rotundus.



**People's Democratic Republic of Algeria**  
**Ministry of Higher Education and Scientific Research**  
**Higher School of Saharan Agriculture, El Oued**



**Wednesday, 20 November 2024 (15:00-16:00)**

**Topic: Biotechnology (Poster Session)**

Code	Authors' names	Communication title
BIO 01	Belkis AKACHAT, Louiza HIMED	The influence of lemon essential oil on the proprieties of pectin films for active food packaging application
BIO 02	Atia ASHRAFY, Kaifa Samsad SHAAN, Iltimas WASEK, Avishek CHOWDHURY	Development and Field Testing of a Locally Manufactured Agricultural Robot for Enhanced Seeding Efficiency in Bangladesh
BIO 03	Farial KRACHE, Malika BOUALEM , Djilali BENABDELMOUMENE, Ibtihel BENYEKHO	Chemical composition and insecticidal activity of <i>Urtica membranacea</i> Poir. extract on the cotton aphid <i>Aphis gossypii</i> Glover (Homoptera: Aphididae)
BIO04	Soumaia FADLAOUI Samira KHAMKHOME Kenza TAHRI	The Use of the Date Palm ( <i>Phoenix Dactylifera</i> ) Architecture Modelling Technique for Cultivar Characterization
BIO05	Naoual GUERROUF, Linda RETIMA, Salma ADOUANE, Khedidja DJENNANE	Characterization, Evaluation of Date Quality and Identification of Three Rare Date Palm Cultivars ( <i>Phoenix Dactylefera</i> L.) Grown In Ziban Region (South East Algeria)
BIO06	Mohammed Tahar BEN MOUSSA, Abdelkader AMROUNE, Safa CHAIRA, Hassina HARKAT.	<i>Matricaria Pubescens</i> Chemical Profile and Biological Activity
BIO 07	Safia DJAFOUR, MOSBAH Said, Saliha BOUDJENAH-HAROUN	Food biopreservation using lactic acid bacteria isolated from camel milk

المدرسة العليا للفلاحة الصحراوية - الوادي



**People's Democratic Republic of Algeria**  
**Ministry of Higher Education and Scientific Research**  
**Higher School of Saharan Agriculture, El Oued**



BIO08	Mohammed Tahar BEN MOUSSA , Youcef LALAYMIA, Abdelkader AMROUNE, Seifeeddine DJOUAD , Safa CHAIRA, Hassina HARKAT.	A Comparative Analysis of Flavonoid Profiles in <i>Matricaria pubescens</i> Samples Collected from Different Regions of Algeria
BIO09	Selma ADOUANE, Khedidja DJENANE, Jose TUDELA	Composition and insecticidal activity of essential oil schemotypes from <i>Salvia officinalis</i> against Ectomyeloid
BIO10	Ahlem GOUACHI, Ala Addine DERARDJA, Yassine BENCHIKH	Eco-friendly extraction of carotenoids from tomato pomace by maceration: application of response surface methodology
BIO11	Rachda BERRACHED, Feirouz BRAHMI and Yahia KHELEF	Aridity drives shifts in the insecticidal activity of the methanolic extracts of <i>Artemisia campestris</i> L. against <i>Aphis fabae</i>
BIO12	Asma CHAOUCH KHOUANE, Aziz AKKAK Hamed HAKKOUAM Amine BELAID Halima BENBOUZA	Genetic diversity and molecular characterization of some date palm ( <i>Phoenix dactylifera</i> L.) pollinators and female cultivars in the region of Zibans
BIO13	Mohamed BELABBES, Kaddour BOUDEROUA, Mohamed ELAFFIFI, Nadir MEBARKI, Samia BENHAMIMED	Milk production and nutritional quality of cheese obtained from goats fed a diet based on pasture and olive pomace
BIO14	Nour Elhouda NEGGAZ, Abdelhak DJOUDI, Ahmed MORTET, Ikram KHEDIM, Youcef GHAMNIA, Houcine Abdelhakim REGUIEG YESSAAD.	Phytoremediation the alternative biotechnology for managing agricultural soils against metallic pollution.
BIO15	Leila MOHAMMED ALI, leila ALLAL BENFEKIH and Safia BEN AMOR	Evaluation of the Antimicrobial Activity of Nano formulations of Essential Oils from <i>Thymus</i> sp. And <i>Origanum</i> sp.
BIO 16	Aida BOUSBIA BRAHIM, Atef CHOUIKH, Azeddine CHEFROUR	Galenic preparation for anti-healing based on Papaya carica cultivated in El Oued Algeria.
BIO 17	Nawal HOUMRI, Sana GOUBI, Bachir KHEZZANI, Nour Elhouda MEKHEDMI	Anti-Inflammatory Properties of Aqueous and Acetonic Extracts of <i>Artemisia campestris</i> L from El Oued, Algeria

المدرسة العليا للفلاحة الصحراوية - الوادي



**People's Democratic Republic of Algeria**  
**Ministry of Higher Education and Scientific Research**  
**Higher School of Saharan Agriculture, El Oued**



BIO18	Amina LEBLALTA, Abdelkader AMMAM , Fouad MERADSI , Nawel DERAMCHIA , Samir SAHLI	The structure's biometric study of the flower head and stem of a variety of Sunflower, <i>Helianthus</i> sp, planted in Sidi Omar, Saïda
BIO 19	Salha Amira BENATALLAH, Tarek BOUSSAADA, Abdelkader ATIA, Kaouthar LAKHDARI, Karima BOUALI, Leyla BOUKAOUS, Nedjoua LAKHDARA	Effects of incorporation date waste in different proportions and brewer's yeast on milk production quantity.
BIO 20	Zehaira BOUZIANE	Biological test of <i>Achillea ligustica</i> essential oils to control mycelial growth of <i>Acremonium</i> sp and <i>Diplodia</i> sp



# **The Program For The Second Day Of The Conference**

Thursday, 21 November 2024

## **POSTER SESSION**

المدرسة العليا للفلاحة الصحراوية - الوادي





**People's Democratic Republic of Algeria**  
**Ministry of Higher Education and Scientific Research**  
**Higher School of Saharan Agriculture, El Oued**



**Thursday, 21 November 2024 (09:30 – 10:30)**

**Topic: Plant Sciences (Poster Session)**

Code	Authors' names	Communication title
PS24	Farah RAMDANE, Safia BEN AMOR, Wissal BENDJERBA, Selsabil AMMARI	Insecticidal effect of <i>Cymbopogon shcoenanthus</i> against <i>Tribolium confusum</i>
PS25	Noura GHERAISSA, Bilal BENAMOR, Khaled KHERRAZ, Karima DEBOUB	Evaluation of <i>Cleome arabica</i> L. Leaves as Growth Stimulants for Tomato ( <i>Lycopersicon esculentum</i> ) and the Biological Control of Insect Pests
PS26	Bilal BENAMOR, Noura GHERAISSA, Fouzia DIFLI, Souhir FATTOUCHE, Linda RETIMA, Adel CHALA.	Morphological Characterization and Selection of Male Palms ( <i>Phoenix dactylifera</i> L.) Based on Productive Characters
PS27	Imene LARKEM, Nacer TARAI, Naima BENCHIKHA, Diana PINTO	Evaluating the Efficacy of Bio-Pesticide Against Root-Knot Nematode and the Biological Potential of <i>Sesbania aculeata</i> (Fabaceae)
PS 28	Khadidja BENAHMED, Abderezak MERAH, Amira FARID, Nadjette DJEMOUAI, Fatma Zahra MIMOUNI, Samia HELIMI, Yamina KHERFI, ELBAR Djannette, Mohammed MESNOUA	Assessment of Biometric and Biochemical Characteristics of Three Date Varieties from the Oued Righ Region
PS 29	Mohammed Laid TLILI, Manar BEN KHALIFA, Romaissa CHELLALBA, Abir NESSIB	Phytochemical study of <i>Anthemis pyrethrum</i> root extract collected in the El Oued region
PS 30	Amina BENZID, Roukia HAMMOUDI, Mahfoud HADJ MAHAMMED	Phytochemical Screening of Extracts from <i>Ammospermaa Cinerum</i> an Endemic Species: A Preliminary Investigation
PS 31	Reguia BENYAYA, Abdelmadjid CHEHMA, Hafida TRABELSI	Floristic study of wild Saharan plants in agricultural perimeters of Ouargla region

المدرسة العليا للفلاحة الصحراوية - الوادي



**People's Democratic Republic of Algeria**  
**Ministry of Higher Education and Scientific Research**  
**Higher School of Saharan Agriculture, El Oued**



PS 32	Abdelkader FEREDJ, Wassima LAKHDARI, Makhoulouf SEKOUR	Study of the herbicidal potential of plant extracts
PS 33	Aroussia KHEMIS, Mohammed HALILAT, Mabrouka OUSTANI	"Diagnosis of the use of dune sand for soil remediation in the oases of the Oued Righ region."
PS 34	Dalale BOUKHARI SADOUNI, Laiadi Z., Achour H. Ouahrani I., Naroura R.	Study of the antifungal activity of some varieties of vitis vinifera
PS 35	Fatiha BACHIRI, Safia BEN AMOR	Antibacterial Activity of propolis extracts from Algerian regions
PS 36	Safia BEN AMOR, Walid BOUSSEBAA, Moufida Saoucen ALAYAT, Ikram NABI, Samia MELIANI and Leila ALLAL BENFEKIH	Biological properties of polyphenolic extracts from some pollen samples collected in two different regions in Algeria
PS 37	Sana GOUBI, Atef CHOUIKH, SELMANE Mehdi, Mounira Kadri	Assessment of Antioxidant Activity of Essential Oils from an Algerian Medicinal Plant Under Different Bioclimatic Zones
PS 38	Souad AOUMEUR, Omar GUEZOUL, Amar EDDOUD	Date palm pest <i>Apate monachus</i> (Coleoptera, Apatinae) a palm grove in the Souf region (EL-Oued - Algeria)

المدرسة العليا للفلاحة الصحراوية - الوادي



**People's Democratic Republic of Algeria**  
**Ministry of Higher Education and Scientific Research**  
**Higher School of Saharan Agriculture, El Oued**



**Thursday, 21 November 2024 (09:30 – 10:30)**

**Topic: Soil and Water (Poster Session)**

Code	Authors' names	Communication title
SW 24	Alia Sara LAKHDARI, Boualem BOUSELSAL, Yasmine LAKHDARI	Nitrate pollution of groundwater: a public health challenge in the Algerian desert
SW 25	Alia Sara LAKHDARI, BOUSELSAL boualem, OUAREKH, Mohammed yasmine LAKHDARI	Study of the impacts of agricultural contaminants on the aquifer of the Intercalary Continental: case of Adrar region
SW 26	Mohammed Yacine TERCHA, Ouiza Djerroudi Zidane, Alia Telli, Salim Azib	Performance of some quinoa ( <i>Chenopodium quinoa</i> willd.) genotypes grown in different marginal soils in ouargla region
SW 27	Aicha ABDELLAOUI, Sofiane SAGGAI, Abdelhadi BOUCHIBA	Assessment of Drinking Water Quality in Biskra Region
SW 28	Mohammed Mounir BENNAMIA, Djamel BOUTOUTAOU, Sofiane SAGGAI	Effect of Soil Moisture Content on The Evaporation Rate Under High Evaporative Demand
SW 29	Lamya BOUZIANE, Amina HITA, Brahim LABED, Sofiene SAGGAI	Valorisation of Sludge of Wastewater Treatment Plant of Touggourt by Co-composting with Local Green Wastes
SW 30	Kaouthar DJAFRI, Toufik CHOUANA, Elhayfa KEMISSAT, Meriem BERGUOIA	Optimization and improvement of the date vinegar production process
SW 31	Lamya BOUZIANE, Amina Hita, Sofiane SAGGAI	Investigating the Effects of Co-composts Produced from Sludge of Wastewater Treatment Plant and Local Green Wastes in the Wheat and Barley Growth

المدرسة العليا للفلاحة الصحراوية - الوادي



**People's Democratic Republic of Algeria**  
**Ministry of Higher Education and Scientific Research**  
**Higher School of Saharan Agriculture, El Oued**



SW 32	Brahim DJILI, Baelhadj HAMDI-AÏSSA	"Valorization of data from soil studies for the development of agriculture in the Sahara. Case of Ouargla and Oued Righ regions"
SW 33	Abdelaziz KADRI, Mohammed BENGUEGA	Evaluation of Irrigation Water Quality Index of Groundwater for Agricultural Use in Arid Zones, Mapping by SIG (case of Oued Souf valley-Algeria)
SW 34	Dalila OULHACI, Mohamed ZEHAÏ, Soumia MEGUELLATI	Analysis and diagnosis of underground exudation irrigation in the Sahrawi regions
SW 35	Alia Besma ABBA, Sofiane SAGGAI, Saber KOUADRI, Fatima Zohra NOUASRIA	Copper Removal from Wastewater Using Alum Sludge Recovered from Water Treatment Plant.
SW 36	Oumelkheir BACHI, Motassim Billah ZIDANI, Laid MECHRI, Sofiane SAGGAÏ	Aquaponic Innovations: Lettuce Growth and Water Purification Dynamics
SW 37	Rabah ATTAB, Imane KAMASSI, Soud BENDAOUED, Samir KATEB, Sofiane SAGGAÏ	Impact of Water Quality and Irrigation Frequency on Sandy Soil Properties
SW 38	Raouia LEBBIHI, Chouaib LABIOD, Hafidha TEREÏ, Larbi Haddad, Neji TARCHOUN, Rajouene MAJDOUB	Advanced Optimization of Ciprofloxacin Removal Using Muscovite Clay: Insights from AI-Enhanced Models and Germination Studies ( <i>Triticum aestivum</i> L.)
SW 39	Mohammed Mounir SAGGAÏ, Selma HENICHAT, Meryem MAAZOUZA	Contribution to the use of a micro-algae for the purification of polluted water
SW 40	Ferhat RIGUET, Ali GHOMRI	Contribution of the irrigation of the plain by the creation of the hydraulic jump evolving into a Rectangular Channel Compounds Controlled by a Thin Weir
SW 41	Haroun KHECHIBA, Ali GHOMRI, Djamel BESSER, Ibtissam HERRI	Contribution to the study of irrigation profitability through the creation of varied flows in rough open channels
SW 42	Larbi BELAÏD, Fatima-Zohra TEBBI, Ammar BOUGUERNE, Nabil BESSANANE	Effect of roughness on the irrigation of the Saharan plain

المدرسة العليا للفلاحة الصحراوية - الوادي



**People's Democratic Republic of Algeria**  
**Ministry of Higher Education and Scientific Research**  
**Higher School of Saharan Agriculture, El Oued**



**Thursday, 21 November 2024 (09:30-10:30)**

**Topic: Biotechnology (Poster Session)**

Code	Authors' names	Communication title
BIO21	Nassima GUEZZOUNE, Mehdi SELMANE, Bachir KHEZZANI, Naoual ZEMMOULI	Comparative Evaluation of the Antioxidant Capacity of <i>Ziziphus spina-christi</i> L. Leaf and Stem Bark Extracts from the Souf Region
BIO22	Aicha TEDJANI, Aicha ADAIKA, Inas Ghoul, Asma NECIB, Roumaissa MAZOUZI, Hadjer OUAAR	Exploring the Potential of Galactomannan Edible Film from <i>Reatuma retum</i> Seeds for Cheese Packaging
BIO23	Islam BOULAARES, Samir DEROUCHE, Sara CHETEHOUNA, Janetta NIEMANN	GC-MS Analysis for Volatile Compounds and Phyto-Mineral Nutrients Content in Local Sweet Basil
BIO24	Ahlem FRAHTIA, Samir DEROUCHE, Janetta NIEMANN	Assessment of the Phytochemical profile, GC-MS analysis, and Anti-Inflammatory Potential of the Algerian <i>Phragmites australis</i> Rhizomes Extract.
BIO25	Amira KORTI, Djilani GHEMAM AMARA, Ahmed El khalifa CHEMSA	Assessment of phytochemical content, polyphenolic composition, antioxidant and antibacterial activities of <i>Leucaena leucocephala</i> using different extraction.
BIO26	Amani GROUN	Evaluation of the quality of peanut oil from the wilaya of El-Oued
BIO27	Ouissam BENMOUSSA	Phytotherapeutic Efficacy of Medicinal Herbs in Alleviating Pesticide Toxicity
BIO28	Roumaissa AHMED SALAH, "Samira BELAHCENE, Zeid ALIA, Abdelwahab GAHTAR	Effect of pH on starch yield during extraction from sweet potato tuber
BIO 29	Assala TORCHE, Toufik CHOUANA	Development of biodegradable films from local resources for better conservation of Saharan agricultural produce.
BIO 30	Mokhtar LATI, Slimane BOUGHALI, Hamza BOUGUETTAIA, Djamel BECHKI,	Effect of drying temperature on sensory evaluations attributes (taste, color, flavor, and overall acceptability) of the potato slices

المدرسة العليا للفلاحة الصحراوية - الوادي



**People's Democratic Republic of Algeria**  
**Ministry of Higher Education and Scientific Research**  
**Higher School of Saharan Agriculture, El Oued**



BIO31	Hafidha TERE, Raouia LEBBIHI, Abdelkrim REBIAI, Djamel SELLOUM	Preparation of Cellulose/ZnO nanoparticles (CNC/ZnO NPs) from peanut and pea shells and evaluation of their Antimicrobial activity.
BIO32	Said MOSBAH, Ouiza DJEROUDI, M'hamed BOURICHA, Saliha BOUDJENAH-HAROUN	Evaluation of the physicochemical and microbiological quality of stirred yogurt supplemented with quinoa flour
BIO 33	Nour Elhouda Mekhadmi, Randa Mlik , Asma Abid , Safia Ben Amor	Phytochemical Analysis and Biological Activity of Fruit Extract from Balanites aegyptiaca of the Zygophyllaceae Family

المدرسة العليا للفلاحة الصحراوية - الوادي