

Scientific Program of the RENA 23 Congress
Natural resources and sustainable development.
Thursday, November 9th 2023.

08:00 - 09:00	Reception and Registration
09:00 - 10:00	Opening ceremony
10:00 - 10:30	Welcome drink
10:30 - 11:00	Plenary Conferences (Amphitheatre): Conference 1: Groundwater management and global challenges – A revision for future Margarida Antunes, Institute of Earth Sciences, Pole of University of Minho, Campus de Gualtar, 4710-057 Braga, Portugal;imantunes@dct.uminho.pt

Thursday, November 9th 2023

Room 1	11:00 - 12:15	2- Application of geomatics to natural resource management and the environment. Abdelkader EL Guarouani, Naoual Rais.	
	11:00 - 11:15	Mouhsine Hadine et al.	2.CO1- CARTOGRAPHIQUE DE LA POLLUTION ATMOSPHERIQUE D'O3 PAR LES METHODES D'INTERPOLATION GEOSTATISTIQUES PROBABILISTES (KU) ET DETERMINISTES (IDW), CAS DE LA VILLE DE KENITRA.
	11:15 - 11:30	Mohamed Boutallaka et al.	2.CO2- L'ÉVOLUTION DES ÉTAGES BIOCLIMATIQUES DANS LE BASSIN VERSANT D'OUERGHA SOUS L'EFFET DE LA VARIABILITÉ CLIMATIQUE (RIF CENTRAL, MAROC).
	11:30 - 11:45	Latifa Ladel et al.	2.CO3- LANDSLIDE SUSCEPTIBILITY MODELING APPLYING MACHINE LEARNING METHODS: A CASE STUDY OF AOULAI WATERSHED, PROVINCE OF TAOUNATE, MOROCCO.
	11:45 - 12:00	Lamiaie Saidi et al.	2.CO4- SIMULATIONS OF OZONE CONCENTRATIONS IN THE CITY OF MARRAKECH.
	12:00 - 12:15	Zineb Aafir et al.	2.CO5- STRUCTURAL FEATURES OF THE SOUTH-EAST OF THE SAGHRO INLIER (EASTERN ANTI-ATLAS, MOROCCO): INSIGHTS FROM REMOTE SENSING DATA.
	12:45 - 14:00	Lunch break	
	14:00 - 14:30	Plenary Conferences (Amphitheatre): Conference 2: Quaternary continental carbonate deposits: good climatic proxies. Their chronological interest in prehistory Christophe Falguères, UMR7194, Sorbonne Université, Institute of Human Paleontology, Paris, France	
	14:30 - 16:30	<p>WORKSHOP 1: Behavior of organic micropollutants and trace metals in aquatic system. Baghdad Ouddane, Lille university, Laboratoire LASIRE - UMR CNRS 8516, F-59655 Villeneuve d'Ascq, France.</p> <p>WORKSHOP 2: At the crossroads of challenges: Agriculture in Morocco – water, climate, and food sovereignty. Abouabdillah Aziz, National school of Agriculture Meknes, Meknes.</p>	
	16:30 - 17:00	COFFEE BREAK AND VISIT TO THE POSTERS.	
A guided tour to the Old Medina of Fez for the registered people will start at 17:00 (limited number of places)			

Thursday, November 9th 2023

Room 2	11:00 - 12:30	9- Production and Valorization of plant resources Karima Mikou, Amina Bari.	
	11:00 - 11:15	El Yaagoubi Ouadie Mohamed et al.	9.CO1- ANTITUMOR EFFECT OF INULA VISCOSA EXTRACTS ON DMBA-INDUCED SKIN CARCINOMA ARE MEDIATED BY PROTEASOME INHIBITION.
	11:15 - 11:30	Abdelfattah Goubi et al.	9.CO2- CARACTÉRISATION MORPHOLOGIQUE ET BIOCHIMIQUE DE DEUX VARIÉTÉ DE DATTE BOUFEGGOUS ET MEJHOUL ISSUS DE QUATRE RÉGIONS DIFFÉRENTES AU MAROC.
	11:30 - 11:45	Mounsif Ridaoui et al.	9.CO3- ETUDE DU COMPORTEMENT DE DEUX GÉNOTYPES DU HARICOT (<i>PHASEOLUS VULGARIS</i> L.) SOUS STRESS SALIN.
	11:45 - 12:00	Hanane Latifi et al.	9.CO4- EVALUATION OF THE QUALITY AND OXIDATIVE STABILITY OF VIRGIN OLIVE OIL FORTIFIED WITH ROSMARINUS OFFICINALIS L ESSENTIAL OIL DURING STORAGE.
	12:00 - 12:15	Khalid Settini et al.	9.CO5- EXPLORING THE USE OF MEDICINAL PLANTS FOR WEED CONTROL IN AN AGROECOLOGICAL MODEL.
	12:15 - 12:30	Hassane Mekhfi et al.	9.CO6- JUGLANS REGIA (WALNUT) EFFECT ON HUMAN HEMOSTASIS.
	12:30 - 14:00	Lunch break	
	14:00 - 14:30	Plenary Conferences (Amphitheatre): Conference 2: Quaternary continental carbonate deposits: good climatic proxies. Their chronological interest in prehistory Christophe Falguères, UMR7194, Sorbonne Université, Institute of Human Paleontology, Paris, France	
	14:30 - 16:00	Follow-up: 9- Production and Valorization of plant resources Karima Mikou, Amina Bari.	
	14:30 - 14:45	Oumaima Chetto et al.	9.CO7- LES LÉGUMINEUSES ALIMENTAIRES, ENTRE L'AUTOGAMIE ET L'ALLOGAMIE : CAS DES FÈVES AU MAROC.
	14:45 - 15:00	Meriem Soussi et al.	9.CO8- SIMULTANEOUS OPTIMIZATION OF PHENOLIC COMPOUNDS AND ANTIOXIDANT ABILITIES OF MOROCCAN PIMPINELLA ANISUM EXTRACTS USING MIXTURE DESIGN METHODOLOGY.
	15:00 - 15:15	Laila Lahrizi et al.	9.CO10- COMPARATIVE STUDY OF THE MINERAL COMPOSITION OF THE CONSTITUENTS OF FIVE CATEGORIES OF AJUGA IVA IN THE FES-MEKNES REGION OF MOROCCO.
	15:15 - 15:30	Hiba Bouzaid et al.	9.CO11- CURED MEAT OPTIMIZATION BY EXPERIMENTAL DESIGN.
	15:30 - 15:45	Chaymae Bouchama et al.	9.CO13- STUDY OF THE INTERACTION EFFECT OF CURCUMA LONGA L WITH ZINGIBER OFFICINALE BY THE DESIGN OF EXPERIMENTS (DOE) MODEL.
	16:15 - 17:00	COFFEE BREAK AND VISIT TO THE POSTERS.	
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Thursday, November 9th 2023

Room 3	11:00 – 12:30	13- Plant Biotechnology at the service of the Improvement and enhancement of plant resources Abderrahim Lazraq, Najwa Benchemsi.	
	11:00 - 11:15	M'madi Msa Adinane et al.	13.CO1- CHARACTERIZATION AND RECOVERY OF EXTRACTION RESIDUES FROM CANANGA ODORATA YLANG-YLANG FLOWERS.
	11:15 - 11:30	Hicham Elidrissy et al.	13.CO2- EFFET DE CHARBON ACTIF ET DE L'ACIDE GIBBERELLIQUE (AG3) SUR LA PHASE ELONGATION-ENRACINEMENT DES SOUCHES BOURGEONNANTES DE PALMIER DATTIER (<i>PHOENIX DACTYLIFERA</i> .L) CV MAJHOUL.
	11:30 - 11:45	Meriem Tabouktirt et al.	13.CO3- EFFET DU STRESS HYDRIQUE SUR LES PARAMETRES MORPHOLOGIQUES ET PHYSIOLOGIQUES DE QUELQUES VARIETES MAROCAINES DU POIS CHICHE (<i>CICER ARETINUM</i> L.).
	11:45 - 12:00	Hafsa Mesbahi, et al.	13.CO4- IMPACT OF GAMMA IRRADIATION ON MORPHOLOGY/PHYSIOLOGY PARAMETERS AND SEED GERMINATION OF GROUNDNUT (<i>ARACHIS HYPOGAEA</i> .L) IN M5 GENERATION .
	12:00 - 12:15	Samah Lamaizi et al.	13.CO5- INDUCEMENT OF TOMATO FRUIT QUALITY UNDER DROUGHT STRESS WITH BIOSTIMULANTS DERIVED FROM OLIVE-MILL-WASTEWATER-COMPOST AND SELECTED MICROORGANISMS.
	12:15 - 12:30	Kaoutar Hamriri et al.	13.CO6- SOCIAL, ECONOMIC, AND ENVIRONMENTAL IMPACTS OF BIOTECHNOLOGICAL INNOVATION ON THE SUSTAINABILITY OF DATE PALM PRODUCTION IN TAFILALET PALM GROVES (SOUTHEAST OF MOROCCO).
	12:30 - 14:00	Lunch break	
	14:00 - 14:30	Plenary Conferences (Amphitheatre): Conference 2: Quaternary continental carbonate deposits: good climatic proxies. Their chronological interest in prehistory Christophe Falguères, UMR7194, Sorbonne Université, Institute of Human Paleontology, Paris, France	
	14:30 - 15:30	1- Session 2 : Environmental, ecological, and climate changes in South America in the Holocene and last millennia. Gregorio Ceccantini	
	14:30 - 14:45	Jenifer De Carvalho Lopes.	2.CO1- DRIVERS OF DIVERSIFICATION IN THE SOUTH AMERICAN ATLANTIC FOREST: THE ROLE OF THE LAST INTERGLACIAL AND GLACIAL MAXIMUM.
	14:45 - 15:00	Paulo De Oliveira, et al.	2.CO2- PLANT MIGRATIONS DURING THE LATE QUATERNARY OF BRAZIL UNDER THE LIGHT OF PALYNOLOGICAL RECORDS.
	15:00 - 15:15	Giuliano Locosselli et al.	2.CO3- THE ROLE OF CLIMATE CHANGE ON THE LONGEVITY OF TROPICAL TREES.
	15:15 - 15:30	Gabriel De Assis Pereira et al.	2.CO4- TREE RINGS INDICATE A DECREASE IN RIVER FLOW IN THE BRAZILIAN SEMI-ARID REGION.
	15:30 – 15:45	Mario Tomazello-Fo et al.	2.CO5- X-RAY DENSITOMETRY APPLIED IN THE DETERMINATION OF DENSITY, BIOMASS AND CARBON IN THE ANNUAL TREE RINGS OF TROPICAL SPECIES.
	15:45 – 16:00	Claudia Fontana et al.	2.CO6- A NEW CHRONOLOGY OF CEDRELA FISSILIS (MELIACEAE) FOR SOUTHERN BRAZIL: A COMBINATION OF CLASSICAL DENDROCHRONOLOGY, CLIMATE, AND RADIOCARBON DATING.
	16:00 – 16:15	Jorge Pinaya et al.	2.CO7- A TROPICAL TO TEMPERATE FOREST SHIFT IN SOUTH AMERICA: HISTORICAL BIOGEOGRAPHIC CONNECTIONS BETWEEN THE ANDES AND THE ATLANTIC COAST DURING THE LGM.
	16:15 – 16:30	Bruno Barcante Ladvoat CIntra	2.CO8- TROPICAL TREE SPECIES SHOW VARYING DROUGHT RESPONSES OF GROWTH AND INTRINSIC WATER USE EFFICIENCY
	16:30 – 16:45	Gregorio Ceccantini	2.CO9- ENVIRONMENTAL CHANGES SHOWN BY TREE-RING IN DIFFERENT TIME-SCALES – CASE-STUDIES IN BRAZIL.
	16:45- 17:00	COFFEE BREAK AND VISIT TO THE POSTERS.	
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Room 4	11:00 – 12:15	8-Natural substances, what potential in the protection of plants against diseases? Meryem Benjelloun, Jamila Al Figuigui.	
	11:00 -11:15	Hiba Bouzaid, et al.	8.CO1- A COMPARATIVE STUDY ABOUT PHENOLIC COMPOSITION AND ANTIOXIDANT ACTIVITY OF SEEDS BELONGING TO <i>APIACEAE</i> .
	11:15 – 11:30	Wijdane Rhioui, et al.	8.CO2- EFFECT OF MULCHING, AQUEOUS EXTRACT OF <i>THYMUS ZYGIS</i> L. AND <i>MELIA AZEDARACH</i> L., AND INTERCROPPING WITH <i>CORIANDRUM SATIVUM</i> L., ON WEED MANAGEMENT, YIELD, AGRONOMIC AND PHYSIOLOGICAL PARAMETERS OF BELL PEPPER CROP (<i>CAPSICUM ANNUUM</i> L.).
	11:30 -11:45	Hamza Elbouny et al.	8.CO3- THYMUS ATLANTICUS (BALL) ROUSSINE SUPPLEMENTATION ATTENUATES HEPATIC STEATOSIS IN HIGH-FAT DIET-FED GUINEA PIGS.
	11:45 -12:00	Asmae Amirou et al.	8.CO5- IN VITRO STUDY: EVALUATING ANTI-AGGREGATION AND PRO-AGGREGATION ACTIVITIES ON RAT BLOOD PLATELETS INDUCED BY TEN MARINE ALGAE FROM THE MARCHICA LAGOON.
	12:30- 14:00	Lunch break	
	14:00- 14:30	Plenary Conferences (Amphitheatre): Conference 2: Quaternary continental carbonate deposits: good climatic proxies. Their chronological interest in prehistory Christophe Falguères, UMR7194, Sorbonne Université, Institute of Human Paleontology, Paris, France	
	14:30 -15:30	11- Soil management and biodiversity protection. Meryem Benjelloun, Jamila Al Figuigui.	
	14:30 -14:45	Khawla Bouamri, et al.	11.CO1- A COMPARATIVE ANALYSIS OF FUNCTIONAL ACTIVITY AND MICROBIAL COMMUNITY COMPOSITION IN AGROECOLOGICAL AND CONVENTIONAL SOIL OF TOMATO CROPS.
	14:45 - 15:00	Boutaina Louafi, et al.	11.CO2- ETUDE ETHNOBOTANIQUE SUR LA CONNAISSANCE ET L'UTILISATION ALIMENTAIRE ET MEDICINALE DE <i>SILYBUM MARIANUM</i> L. GAERTN DANS LA REGION D'OUEZZANE.
	15:00 - 15:15	Rudy Bekoung Assoumou et al.	11.CO3- ÉVALUATION COMPARATIVE DE L'ETAT DE CROISSANCE ET DE BIOACCUMULATION DU MANGANESE CHEZ LES POACEES POUSSANT SUR LA MINE DE MANGANESE DE MBEMBELE AU GABON.
	15:15 - 15:30	Hamza Bellouk et al.	11.CO4- EVALUATION OF MICROPLASTICS IN AGRICULTURAL SOILS: A CASE STUDY ON A FARM IN MONCARAPACHO, PORTUGAL - SAMPLING METHODOLOGY, IDENTIFICATION, AND CHARACTERISTICS.
	16:15 - 17:00	COFFEE BREAK AND VISIT TO THE POSTERS.	
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Room 5	11:00 – 12:30	15- Blue biotechnologies: Economic and environmental valorization of natural and bioactive substances. Abdellah Zinedine & Samira Etahiri	
	11:00 - 11:15	Badr-Ddine El Mouns et al.	15.CO1- ANTIFUNGAL ACTIVITY OF SEVEN RED ALGAE COLLECTED FROM THE REGION OF SIDI BOUZID – EL JADIDA – MOROCCO.
	11:15 – 11:30	Houda Younssi Tarhzouti et al.	15.CO2- ASSESSING THE ANTIOXIDANT AND ANTIFUNGAL POTENTIAL OF TOTAL FLAVONOIDS EXTRACTED FROM SEAWEED GROWING ON THE SIDI BOUZID COAST IN EL-JADIDA, MOROCCO.
	11:30 -11:45	Mounir El Boujamaai.	15.CO3- ELABORATION OF SOURDOUGH BREAD SUPPLEMENTED WITH MARINE ALGAE POWDER USING MIXED TRADITIONAL STARTERS.
	11:45 - 12:00	Sara Al Qoh et al.	15.CO4- IDENTIFICATION AND CHARACTERIZATION OF PHOTO-PROTECTIVE COMPOUNDS: MYCOSPORINES LIKE AMINO ACIDS FROM THE RED ALGA <i>GRACILARIA GRACILIS</i> .
	12:00 - 12:15	Fatima Lakhdar et al.	15.CO5- MACROALGAE BIOCOMPOUNDS, AN ALTERNATIVE SOURCE FOR NEW DRUGS IN THE CANCER TREATMENT AND FOR A SUSTAINABLE AGRICULTURE.
	12:15 - 12:30	Imane Brahimi et al.	15.CO6- MICROBIOLOGICAL AND PHYTOCHEMICAL STUDY OF THE ALGAE <i>ULVA LACTUCA</i> COLLECTED FROM THE MOROCCAN ATLANTIC COAST FOR BIOTECHNOLOGICAL VALORIZATION.
	12:30 - 14:00	Lunch break	
	14:00 - 14:30	Plenary Conferences (Amphitheatre): Conference 2: Quaternary continental carbonate deposits: good climatic proxies. Their chronological interest in prehistory Christophe Falguères, UMR7194, Sorbonne Université, Institute of Human Paleontology, Paris, France	
	14:30 -15:30	Follow-up: 15- Blue biotechnologies: Economic and environmental valorization of natural and bioactive substances. Abdellah Zinedine & Samira Etahiri	
	14:30 - 14:45	Bouchra Benhniya et al.	15.CO7- ANTI-CANDIDA SP., POTENTIAL AND FTIR-GC/MS CHARACTERIZATION OF BIOACTIVE COMPOUND FROM <i>PTEROSIPHONIA CAMPLANATA</i> .
	14:45 - 15:00	Bouchra Benhniya et al.	15.CO8- THE EFFECT OF PHYSICO-CHEMICAL PARAMETERS AND NUTRIENTS ON THE BIOECOLOGY OF <i>GELIDIUM CORNEUM</i> HARVESTED FROM THE MOROCCAN ATLANTIC COAST OF DOUKKALA.
	15:00 - 15:15	Meryem Benyamane et al.	15.CO9- IMPROVING THE QUALITY AND FUNCTIONALITY OF TRADITIONAL MOROCCAN FOOD PRODUCTS THROUGH INNOVATIVE AND SUSTAINABLE SOLUTIONS: INNOSOL4MED PROJECT.
	15:15 - 15:30	F.Tarek et al.	15.CO10- VALORISATION ET UTILISATION DES FEUILLES DE CHOU COMME ANTIFONGIQUE NATURELLE CONTRE LES MICROORGANISMES.
	15:30 – 16:30	14- Aquatic ecosystems: resources and development. El-Ouazna Bouchamma & Saad Rachiq	
	15:30 – 15:45	Najwa Hassou et al.	14.CO1- HEPATITIS E VIRUS DETECTION BY RT-QPCR AND HEAVY METAL CONCENTRATIONS IN OYSTER SAMPLES FROM THREE MOROCCAN ATLANTIC COASTAL AREAS, DAKHLA AND OUALIDIA.
	15:45 – 16:00	Najwa Hassou et al.	14.CO3- SPATIO-TEMPORAL MONITORING OF NOROVIRUS BY REALTIME PCR IN OYSTERS FROM THE ATLANTIC COASTAL AREAS OF DAKHLA AND OUALIDIA, MOROCCO
	16:00 – 16:15	Ali Majdoub et al.	14.CO2- INCORPORATION OF G-C3N4 NANOSHEETS AND CUO NANOPARTICLES ON POLYESTER FOR THE DIP-CATALYTIC REDUCTION OF 4 NITROPHENOL.
	16:15 - 16:30	Reda Fassi Fihri et al.	14.CO4- STUDY OF THE GROWTH AND THE PRIMARY METABOLISM OF <i>CHLORELLA VULGARIS</i> AND <i>SCENEDESMUS INCRASSATULUS</i> IN RESPONSE TO THE GROWTH PHASE AND TO NITROGEN AND PHOSPHORUS DEFICIENCY.
16:30 - 17:00	COFFEE BREAK AND VISIT TO THE POSTERS.		
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Thursday, November 9th 2023

Room 6	11:00 – 12:30	12 - Protection and valorization of plants. Majida Hafidi, Hajjaj Hassan, Rahou Abdelilah	
	11:00 - 11:15	Sara Benkiran et al.	12.CO1- AMELIORATION D'UN PRODUIT LAITIER PAR <i>MORINGA OLEIFERA</i> .
	11:15 – 11:30	Hiba Yahyaoui et al.	12.CO8- RECENT ADVANCES IN CONTROLLING CROWN GALL DISEASE IN GRAPEVINE (<i>Vitis Vinifera</i> L.): STRATEGIES FOR SUSTAINABLE MANAGEMENT.
	11:30 - 11:45	Aymane Bessi et al.	12.CO3- COMPARISON OF THE ANTIOXIDANT ACTIVITY OF SELECTED MEDICINAL PLANTS EXTRACTS IN MOROCCO.
	11:45 - 12:00	Majda Bensallam et al.	12.CO4- ESTIMATION DE LA VIRULENCE DES BACTERIES PECTINOLYTIQUES ISOLEES DE DIFFERENTS SOLS DE LA REGION DE CASABLANCA-SETTAT AU MAROC.
	12:00 - 12:15	Asmae Benabderrahmane et al.	12.CO5- EXPLORING TRADITIONAL MEDICINAL PLANTS FOR ORAL HEALTH IN MEKNES PREFECTURE, MOROCCO: A COMPARATIVE INVESTIGATION OF HERBALISTS' EXPERTISE AND PUBLIC PRACTICES.
	12:15 – 12:30	Ikram Legrifi et al.	12.CO6- IDENTIFICATION AND BIOCONTROL STRATEGIES AGAINST DIEBACK DISEASE IN OLIVE TREES (<i>OLEA EUROPAEA</i> L.).
	12:30 - 14:00	Lunch break	
	14:00 - 14:30	Plenary Conferences (Amphitheatre): Conference 2: Quaternary continental carbonate deposits: good climatic proxies. Their chronological interest in prehistory Christophe Falguères, UMR7194, Sorbonne Université, Institute of Human Paleontology, Paris, France	
	14:30 - 15:45	Follow-up: 12 - Protection and valorization of plants. Majida Hafidi, Hajjaj Hassan, Rahou Abdelilah	
	14:30 - 14:45	Boutaina Louafi et al.	12.CO7- OPTIMIZED EXTRACTION OF POLYPHENOLS FROM MILK THISTLE (<i>SILYBUM MARIANUM</i> L. GAERTN) USING AUGMENTED SIMPLEX CENTROID DESIGN (THE TAOUNATE REGION).
	14:45 - 15:00	Boutaina Louafi et al.	12.CO11- ETHNOBOTANICAL SURVEY OF SILYBUM MARIANUM L. GAERTN IN THE OUEZZANE REGION: KNOWLEDGE AND USE OF THE PLANT.
	15:00 - 15:15	Anas El Mekkaoui et al.	12.CO9- STRATEGIE DE COMBINAISON DES SOLVANTS POUR UNE EXTRACTION AMELIOREE DES COMPOSES PHENOLIQUES ET DE L'ACTIVITE ANTIOXYDANTE DU MYRTUS COMMUNIS.
	15:15 - 15:30	Wijdane Rhioui et al.	12.CO10- COMPARATIVE STUDY OF THE EFFECT OF AN ORGANIC HERBICIDE (NETTLE AQUEOUS EXTRACT, <i>URTICA DIOICA</i> L.) AND TWO CHEMICAL HERBICIDES (BENTAZONE AND PYRIDATE) ON AGRONOMIC PARAMETERS, WEED CONTROL EFFICIENCY, AND YIELD OF LENTIL CROP UNDER DIRECT SEEDING SYSTEM.
	15:30 - 15:45	Soufyane Lafraxo et al.	12.CO12- <i>JUNIPERUS THURIFERA</i> AU NIVEAU DU MASSIF DE BOUIBLANE : SURVIE EN PERIL.
	16:15- 17:00	COFFEE BREAK AND VISIT TO THE POSTERS.	
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Program of the Poster communication: Thursday, November 9th 2023; 16:15 - 17:00

Thematic	Author	Title of the Poster communication
2- Application of geomatics to natural resource management and the environment.	Mohamed Boutallaka et al.	ANALYSE DE L'INTERACTION ENTRE LES BIOCLIMATS ET LES INCENDIES FORESTIERS DANS LE RIF (MAROC).
	Hind Ragraoui et al.	COMPARING AND EVALUATING PROBABILISTIC AND DETERMINISTIC SPATIAL INTERPOLATION METHODS FOR THE GROUNDWATER LEVEL SAÏS BASSIN (FEZ-MEKNES REGION, MOROCCO).
	Ouafae Kaibi et al.	SPATIOTEMPORAL EVOLUTION OF WATER QUALITY IN THE UPPER ZIZ USING QUALITY INDICES AND SIG.
9- Production and Valorization of plant resources.	Laila Lahrizi et al.	ANALYSES DE LA COMPOSITION CHIMIQUE DES EXTRAITS DE LA PARTIE AERIEENNE D' <i>AJUGA IVA</i> DU MAROC.
	Hamza Elbouny et al.	ANTIOXIDANT POTENTIAL OF THYMUS WILLDENOWII BOISS & REUT. AND EFECT OF ITS SUPPLEMENTATION ON HYPERLIPIDEMIA AND PARAOXONASE-1 ARYLESTERASE ACTIVITY IN HIGH-FAT DIET-FED RATS.
	Zineb El Jabboury et al.	APPLICATION OF RESPONSE SURFACE METHODOLOGY FOR BIOACTIVE COMPOUNDS EXTRACTION AND THE VARIABILITY IN PHYTOCHEMICAL PROFILE FROM ROOTS OF <i>AMMI VISNAGA (L.)</i> LAM.
	Dounia Amghar et al.	CARACTERISATION POMOLOGIQUE ET BIOCHIMIQUE DES VARIETES DU CAROUBIER ISSUES DE TROIS REGIONS DU MAROC.
	Amal Dagni et al.	ENQUETE ETHNOBOTANIQUE A PROPOS DES PLANTES MEDICINALES UTILISEES DANS LE TRAITEMENT TRADITIONNEL DES MALADIES FEBRILES A CASABLANCA-MAROC.
	Tarik Chelouati	ETUDE DE LA COMPOSITION CHIMIQUE ET DE L'ACTIVITE ANTIOXYDANTE ET ANTI-MICROBIENNE DES HUILES ESSENTIELLES DE JUNIPERUS PHOENICEA L.
	Abdelfattah GOUBI et al.	ETUDE NUTRITIONNELLE, CARACTERISATION BIOCHIMIQUE DE QUELQUES VARIETES DE DATTES (PHOENIX DACTYLIFERA L.) DE LA REGION DE DRAA-TAFILALET.
	Saadia Rais et al.	EVALUATION DE L'ACTIVITE ANTIOXYDANTE ET ANTIBACTERIENNE DES EXTRAITS DES CO-PRODUITS DE CANNABIS SATIVA L.
	Soufyane Lafraxo et al.	GC-MS PROFILING, IN VITRO ANTIOXIDANT, ANTIMICROBIAL, AND IN SILICO NADPH OXIDASE INHIBITION STUDIES OF ESSENTIAL OIL OF JUNIPERUS THURIFERA BARK.
	Nizar Battas et al.	METHODOLOGY OF STUDYING RHIZOBIUM GENETIC DIVERSITY IN MEKNES AND AGADIR REGION IN MOROCCO.
	Saadia Rais et al.	OPTIMISATION DE RENDEMENT EN COMPOSES PHENOLIQUES DES CO-PRODUITS DE CANNABIS SATIVA L. EN UTILISANT LA CONCEPTION "AYGMENED SIMPLEXCENTROIDE DESIGNS".
	Khadija Rabtaoui	OPTIMIZATION OF ACORN FLOUR PRODUCTION BY MICROWAVE DRYING PROCESS: ANALYSIS AND AMELIORATION.
	Nouhaila Chaib et al.	POTENTIAL OF NATURAL PLANT EXTRACTS TO IMPROVE OXIDATIVE STABILITY OF OILS.
Chaymae Bouchama et al.	STUDY OF THE INTERACTION EFFECT OF CURCUMA LONGA L WITH ZINGIBER OFFICINALE BY THE DESIGN OF EXPERIMENTS (DOE) MODEL.	
13- Plant Biotechnology at the service of the Improvement and enhancement of plant resources.	M'madi Msa Adinane et al.	MORPHOLOGICAL CHARACTERIZATION OF THE YLANG-YLANG PLANT FROM THE COMOROS ISLANDS.

Program of the Poster communication: Thursday, November 9th 2023; 16:15 - 17:00

Thematic	Author	Title of the Poster communication
8-Natural substances, what potential in the protection of plants against diseases?	Amal Hari	CHEMICAL COMPOSITION, ANTIOXIDANT PROPERTIES, AND ANTIFUNGAL ACTIVITY OF WILD <i>ORIGANUM ELONGATUM</i> EXTRACTS AGAINST <i>FUSARIUM OXYSPORUM</i>.
	Soukayna Azzouzi	HOW DO TO COMBAT BEAN APHIDS?
	Wissal El Yaagoubi et al.	PHYTOCHEMICAL ANALYSIS OF THE FRACTIONS OF <i>CORRIGIOLA TELEPHIIFOLIA</i> STEMMING FROM THREE DIFFERENT REGIONS OF MOROCCO.
Soil management and biodiversity protection	Khalid Settini et al.	EFFECT OF LEGUME INTERCROPPING AND COW MANURE ON GOWTH AND YIELD PARAMETERS OF MAIZE (<i>ZEA MAYS L.</i>) IN MEKNES REGION, MOROCCO.
	Hamza Bellouk et al.	EFFECTIVENESS OF AERATION FOLLOWED BY STATISTICAL OPTIMIZATION OF AOP'S (ULTRAVIOLET/ULTRASONIC ACTIVE PERSULFATE/HYDROGEN PEROXIDE) PROCESS PARAMETERS FOR THE TREATMENT OF YOUNG LANDFILL LEACHATE.
	Wijdane Rhioui et al.	TOWARDS SUSTAINABLE VEGETABLE FARMING: EXPLORING AGROECOLOGICAL ALTERNATIVES TO CHEMICAL PRODUCTS IN THE FEZ-MEKNES REGION OF MOROCCO.
Blue biotechnologies: Economic and environmental valorization of natural and bioactive substances.	Nouhaila Belasla et al.	ACTIVITÉ ANTIBACTÉRIENNE DES BACTÉRIES LACTIQUES ISOLÉES DES ALGUES MARINES CONTRE LES BACTÉRIES RESPONSABLES DE MALADIES NOSOCOMIALES.
	Imane Brahimi et al.	ANTIFUNGAL ACTIVITY OF LACTIC ACID BACTERIA ISOLATED FROM MARINE ALGAE AND ALGAE EXTRACTS AGAINST SPOILAGE MICROORGANISMS AND TOXIGENIC MOLDS.
Aquatic ecosystems: resources and development.	Fatimazahra Jouga, et al.	ANTIBIOTIC RESISTANCE IN AQUACULTURE AND AQUATIC ORGANISMS.
	Reda Fassi Fihri et al.	DEEP EUTECTIC SOLVENTS AS AN INNOVATIVE TECHNIQUE FOR EXTRACTION OF BIOACTIVE COMPOUNDS FROM MICROALGAE BIOMASS.
	El Mostapha Al Bou	PHYSICOCHEMICAL AND BACTERIOLOGICAL QUALITY ASSESSMENT OF WATER DOWNSTREAM OF THE KADDOUSSA DAM IN BOUDNIB, MOROCCO.
Protection and valorization of plants.	Boutaina Louafi et al.	CHARDON-MARIE (<i>SILYBUM MARIANUM L. GAERTN</i>) : UNE PLANTE MÉDICINALE PRÉCIEUSE AUX PLUSIEURS EFFETS THÉRAPEUTIQUES –REVIEW.
	Aymane Bessi et al.	ETHNOBOTANICAL SURVEY: MOROCCAN MEDICINAL AND AROMATIC PLANTS, A STRONG ALTERNATIVE FOR A BETTER STRAWBERRY AND TOMATO CONSERVATION.
	Faical Aoujil et al.	EVALUATING THE EFFECTS OF PESTICIDE APPLICATION IN MOROCCAN VINEYARDS USING ENVIRONMENTAL STRESS INDICATORS.
	Anas El Mekkaoui et al.	OPTIMISATION SYNERGETIQUE DES SOLVANTS D'EXTRACTION DE L'INULA VISCOSA POUR UNE AMELIORATION DE L'EXTRACTION DES COMPOSES PHENOLIQUES ET DE L'ACTIVITE ANTIOXYDANTE
	Ikram Legrifi et al.	UNLOCKING THE POTENTIAL OF ENDOPHYTIC FUNGUS STRAINS AS BIOCONTROL AGENTS AGAINST OLIVE TREES (<i>OLEA EUROPAEA L.</i>) DIEBACK IN MOROCCO.

Friday, November 10th 2023 (Morning)

08:00 – 08:30		Participants reception	
Room 1	08:30 – 10:00	5- Groundwater and Climate changes. Lahcen Benaabidate, Amal Azzouzi.	
	08:30 – 08:45	Hajar Jaddi et al.	5.CO1- ASSESSMENT OF PHYSICO-CHEMICAL AND MICROBIOLOGICAL QUALITY USING THE SEQ-EAU APPROACH FOR GROUNDWATER IN THE SAISS BASIN (FEZ-MEKNES REGION, MOROCCO).
	08:45 – 09:00	Fadwa Laaraj et al.	5.CO2- ETUDE STRUCTURALE PAR LA MÉTHODE SISMIQUE DE RÉFLEXION DANS LE BASSIN DE BOUDNIB (ERRACHIDIA-MAROC).
	09:00 -09:15	Youssef Drissi et al.	5.CO3- INFLUENCE DE LA STRUCTURE TECTONIQUE SUR L'ÉCOULEMENT DES EAUX SOUTERRAINES DE LA NAPPE D'EAU LIBRE DU CAUSSE D'EL MENZEL – RIBAT EL KHEIR (MOYEN ATLAS).
	09:15 – 09:30	Manal El Garouani et al.	5.CO4- WATER RESOURCE VULNERABILITY ASSESSMENT USING ANALYTIC HIERARCHY PROCESS AND GEOGRAPHIC INFORMATION SYSTEMS IN THE FEZ-MEKNES BASIN, MOROCCO.
	09:30 -09:45	Abdelhak Bourjila et al.	5.CO5- UNDERSTANDING SALINITY EVOLUTION IN THE MOROCCAN GHISS-NEKOR AQUIFER USING DIFFERENTIAL MAPPING TECHNIQUE.
	09:45 – 11:45	6- Hydrology and watershed management Lahcen Benaabidate, Isabelle Antunes.	
	09:45 – 10:00	Soumaya Nabih et al.	6.CO1- ASSESSING THE IMPACT OF CLIMATE CHANGE ON THE FLOW REGIME OF ZLOUL RIVER AFFLUENTS.
	10:00 - 10:30	COFFEE BREAK AND VISIT TO THE POSTERS.	
	10:30 – 11:00	Plenary Conferences (Amphitheatre): Conference 3.	
	11:00 – 11:15	Maryame El-Yazidi et al.	6.CO2- ETUDE CLIMATIQUE, COMPARATIVE ENTRE LA PLUVIOMETRIE DE DEUX BASSINS VERSANTS (SOUSS-MASSA ET OUERGHA).
	11:15- 11:30	Fatima Daide et al.	6.CO3- MODÉLISATION HYDROLOGIQUE DU BASSIN VERSANT DE BEHT AVEC LE MODÈLE SWAT.
	11:30 – 11:45	Mohammed Mouad Mlieyh et al.	6.CO4- STUDY AND ASSESSMENT OF THE DROUGHT WITH SPI, SPEI, RDI, NDVI AND EVI INDICES AND ANALYSIS OF THE TRENDS IN MEDITERRANEAN WATERSHED, CASE STUDY OF THE UPPER OUM ER RABIA BASIN, MOROCCO.
	11:45 -12:00	4- Soil erosion and quality of aquatic environments. Mohammed Benabdelhadi, Fatima El Hammichi.	
	11:45 -12:00	Marouane Laaraj et al.	4.CO1- APPLICATION OF INDICES TO EVALUATE SEDIMENT QUALITY IN THE INAOUENE WATERSHED, UPSTREAM THE IDRIS 1ST DAM, MOROCCO.
	12:00 -12:15	Khaoula El Moutkine	4.CO2- ESTIMATION DE L'ÉROSION HYDRIQUE A PARTIR DES DIRECTIVES PAP/CAR DANS LE BASSIN VERSANT BAS ZIZ.
	12:15 -12:30	Jihane Saouita et al.	4.CO3- SIMULATING THE IMPACT OF FUTURE LAND USE AND CLIMATE CHANGE ON SOIL EROSION IN THE TIGRIGRA WATERSHED (AZROU REGION, MIDDLE ATLAS, MOROCCO).
	12:30 – 12:45	Nassima Moutaouikil et al.	4.CO4- THE IMPACT OF SOIL EROSION ON AQUATIC ENVIRONMENTS: A CASE STUDY OF THE OUED BEHT WATERSHED (MOROCCO).
	12:45 – 14:00	Lunch break	

Friday, November 10th 2023 (Afternoon)

Room 1	14:00 - 14:30		Plenary Conferences (Amphitheatre): Conference 4: Peopling of Brazil during the end of the Pleistocene <i>Águeda Vilhena Vialou, National Museum of Natural History-Paris & Sao Paulo University, -SP, Brazil</i>
	14:30 - 15:45		3- Satellite Remote Sensing for an effective natural resource management. Hassan Tabyaoui, Fatima El Hammichi.
	14:30 – 14:45	Zineb Iallamen et al.	3.CO1- ASSESSING NDVI IN THE BEHT WATERSHED THROUGH TIME SERIES ANALYSIS IN GOOGLE EARTH ENGINE (GEE) AND APPLICATION PROGRAMMING INTERFACE (API).
	14:45 – 15:00	Naoual El Hammouch et al.	3.CO2- COMPARAISON DES CLASSIFICATIONS DES IMAGES RADAR ET OPTIQUES DANS LA RÉGION SUD-EST DU MAROC.
	15:00 – 15:15	Oumaima Elbakhchouch et al.	3.CO3- DÉTECTION ET ANALYSE SPATIALE DES RISQUES DES DÉPRESSIONS KARSTIQUES DE L'ATLAS MAROCAIN À L'AIDE DES MODÈLES NUMÉRIQUES D'ÉLÉVATION ASTER, ALOS/PRISM ET SRTM.
	15:15 – 15:30	Mohammed Mourjane et al.	3.CO4- L'UTILISATION DE TECHNIQUE SBAS-DINSAR, À L'ÉTUDE DE LA STABILITÉ DES ZONES URBAINES DANS LA VILLE D'AL HOCEIMA, AU MAROC.
	15:30 – 15:45	Mohamed Ali El-Omairi et al.	3.CO5- LITHOLOGICAL MAPPING USING ARTIFICIAL INTELLIGENCE AND REMOTE SENSING DATA: A CASE STUDY OF BAB BOUDIR REGION, MOROCCO.
	15:45 - 16:00	Abdallah Elaaraj et al.	3.CO6- DISTRIBUTION OF VOLCANIC OUTCROPS HIGHLIGHTED BY GEOLOGICAL LINEAMENT MAPPING USING LANDSAT 8-OLI, SENTINEL 2B DATA: SAKA REGION AND ITS SURROUNDINGS IN NORTHEAST MOROCCO.
	16:00 -16:45		7- Recycling and recovery of waste. Mohammed Benabdelhadi & Omar Kassou
	16:00 - 16:15	Hassan Erraji et al.	7.CO1- ANAEROBIC DIGESTATES FROM COW DUNG AND FOOD WASTE AS FERTILIZERS: EFFECT ON TOMATO GROWTH AND YIELD.
	16:15 - 16:30	Yasmine Boukhrouf et al.	7.CO2- ENVIRONMENTAL IMPACT ASSESSMENT OF UNCONTROLLED LANDFILLS IN FEZ: A DPSIR ANALYSIS.
	16:30 -16:45	Boutaina Moumni et al.	7.CO3- PRODUCTION OF LIGHTWEIGHT ECO-FRIENDLY BRICKS BASED ON ORGANIC WASTE AND ITS EFFECT ON THE MATERIAL'S PROPERTIES.
	16:45 -17:00		Round-table (Amphitheatre): Closing ceremony and distribution of participation certificates, as well as awards for the best oral presentation and the best poster.
	20:00		Gala dinner

Friday, November 10th 2023 (Morning)

08h00 – 08h30		Participants reception	
Room 2	08:30 – 11:30	10- Conservation of animal biodiversity. Lahsen EL Ghadraoui, Amal Azzouzi.	
	08:30 - 08:45	Soukaina Souka et al.	10.CO1- CARACTÉRISATION DES ÉCOSYSTÈMES NATURELS, DE LA BIODIVERSITÉ, SOCIO-ÉCONOMIQUES ET DES INFRASTRUCTURES POUR UN TOURISME DURABLE DANS LE PARC NATIONAL DE TAZEKKA DANS LA PROVINCE DE TAZA (MAROC).
	08:45 – 09:00	Fatima Tarek et al.	10.CO2- INTERACTION ENTRE LES RÉSIDUS PÉTROLIER ET LE NOROVIRUS DANS L'ENVIRONNEMENT MARIN.
	09:00 – 09:15	Fatima Tarek et al.	10.CO9- EFFECT OF THE HYDROCARBONS AS PETROLEUM RESIDUES ON THE INTERNALIZATION PROTEIN OF NOROVIRUS IN MUSSELS.
	09:15 - 09:30	Mohammed Hmidani et al.	10.CO3- LARGE-SCALE SURVEY OF BIRD RICHNESS IN MOULOUYA HIGH PLAIN (MOROCCO): COMPARATIVE ANALYSIS AMONG FARMLAND, WETLAND, AND FOREST HABITATS.
	09:30 – 09:45	Youssef Dbiba	10.CO5- TOWARDS AN ATLAS AND A MONITORING SYSTEM OF CHIROPTERA (MAMMALIA) IN MOROCCO.
	09:45 – 10:00	Aziz Zahri et al.	10.CO6- STUDY OF THE INTESTINAL MICROFLORA OF LOCUST SPECIES IN THE MIDDLE ATLAS MOUNTAINS.
	10:00- 10:30	COFFEE BREAK AND VISIT TO THE POSTERS.	
	10:30 – 11:00	Plenary Conferences (Amphitheatre): Conference 3.	
	11:00 -11:15	Safae Chentoufi et al.	10.CO7- STUDY ON THE TOLERANCE OF THE HONEYBEE 'APIS MELLIFERA' TO TWO VARIETIES OF OREGANO ESSENTIAL OILS FOR THE PURPOSE OF DEVELOPING AN ALTERNATIVE METHOD FOR VARROA MITE CONTROL.
	11:15 – 11:30	Hassan Aouraghe et al.	10.CO4- PREHISTORIC LARGE VERTEBRATES IN THE PROVINCE OF JERADA (AÏN BÉNI MATHAR-GUÉFAIT), EASTERN MOROCCO: NEW DISCOVERIES.
	12:30 - 14:00	Lunch break	

Room 2		Friday, November 10th 2023 (Afternoon)	
	14:00- 14:30	Plenary Conferences (Amphitheatre): Conference 4: Peopling of Brazil during the end of the Pleistocene <i>Águeda Vilhena Vialou, National Museum of Natural History-Paris & Sao Paulo University, -SP, Brazil</i>	
	14:30 - 15:30	17 - Biodiversity and the Functioning of Natural Ecosystems Saadia Belmalha, Dalila Boustia	
	14:30 - 14:45	Mohammed Bassouya et al.	17.CO1- STUDY OF THE EFFECT OF PRETREATMENTS ON THE GERMINATION AND GROWTH OF <i>PISTACIA ATLANTICA</i> SUBSP. ATLANTICA: INVESTIGATIONS FOR THE CONSERVATION OF AN ENDANGERED SPECIES IN MOROCCO.
	14:45 – 15:00	Adeboumi Gabriel Fagbohoun et al.	17.CO2- CARACTERISATION PHYTOCHIMIQUE ET EVALUATION DES ACTIVITES BIOLOGIQUES DE DEUX MORPHES DE <i>PISTACIA ATLANTICA</i> DESF SUBSP ATLANTICA DANS LA REGION FES-MEKNES.
	15:00 – 15:15	Wafae Squalli et al.	17.CO3- DIVERSITE DES OISEAUX D'EAU HIVERNANTS DANS LES ZONES HUMIDES DE LA REGION DE FES-MEKNES (CENTRE DU MAROC) : COMPARAISON ENTRE LES ZONES HUMIDES NATURELLES ET ARTIFICIELLES, ET EVALUATION DE LA PERTE D'HABITAT.
	15:15 – 15:30	Ayyoub Skaou et al.	17.CO5- SOLITARY BEES' POLLINATION SERVICES AND EFFICIENCY OF ALMOND ORCHARDS IN MOROCCAN AGROECOSYSTEM.
	16:30- 17:30	Round-table (Amphitheatre): Closing ceremony and distribution of participation certificates, as well as awards for the best oral presentation and the best poster.	
	20:00	Gala dinner	

Friday, November 10th 2023 (Morning)

08:00 – 08:30			Participants reception
Room 3	08:30 – 12:30	16- Natural resource compounds: chemical composition, biological activity and toxicity assessment. Abdelaziz Soukri, Faouzi Errachidi et Bouchra El Khalfi	
	08:30- 08:45	Iman Msegued Ayam et al.	16.CO1- ANTIFUNGAL MOLECULES POTENTIALISATION BY ESSENTIAL OIL EXTRACTED FROM MOROCCAN CUMIN SEEDS.
	08:45 – 09:00	Oumaima Beroigui et al.	16.CO3- ENHANCING COMPOSTING EFFICIENCY AND PLANT GROWTH THROUGH <i>ACTINOMYCETES CONSORTIUM</i> INOCULATION.
	09:00 – 09:15	Oumaima Chater et al.	16.CO6- EXPLORING THE PHYTOCHEMICAL PROFILING OF <i>ANACYCLUS PYRETHRUM</i> EXTRACTS: A SURFACE MIXTURE DESIGN APPROACH FOR LC-MS ANALYSIS.
	09:15 - 09:30	Oumaima Chater et al.	16.CO18- CHEMISTRY, ANTIMICROBIAL PROPERTIES AND MECHANISM OF ACTION OF <i>MENTHA SUAVEOLENS</i> ESSENTIAL OIL.
	09:30 – 09:45	Zineb El Jabboury et al.	16.CO7- EXPLORING THE VARIABILITY IN PHYTOCHEMICAL PROFILES AND ANTIOXIDANT ACTIVITY OF VARIOUS COMPONENTS OF <i>AMMI VISNAGA</i> (L.) COLLECTED FROM THE TAOUNAT REGION.
	09:45 – 10:00	Kenza Zraraa et al.	16.CO8- FLAXSEED GUM-BIOPOLYMERS BIOLOGICAL CHARACTERISTICS, AND ITS RHEOLOGICAL STUDY.
	10:00 - 10:30	COFFEE BREAK AND VISIT TO THE POSTERS.	
	10:30 - 11:00	Plenary Conferences (Amphitheatre): Conference 3.	
	11:00 - 11:15	Noura Jaouad et al.	16.CO9- IDENTIFICATION DES HUILES ESSENTIELLES DU FAUX POIVRIER (SCHINUS MOLLE) AU MAROC.
	11:15 – 11:30	Nysrine Mannani.	16.CO10- ISOLATION AND CHARACTERIZATION OF AFLATOXIN PRODUCING FUNGI ON SELECTED MOROCCAN FOOD COMMODITIES AND THEIR CONTROL ASSAY WITH SELECTED LACTIC ACID BACTERIA.
	11:30 - 11:45	Mohammadine Moumou et al.	16.CO11- PHENOLIC COMPOSITION, ANTIOXIDANT ACTIVITY AND HYPOLIPIDEMIC EFFECT OF IMMATURE CAROB PODS (<i>CERATONIA SILIQUA</i> L.) EXTRACT AND ITS FRACTIONS: IN VITRO AND IN VIVO STUDY.
	11:45 – 12:00	Lyagoubi Lyagoubi et al.	16.CO12- PLAN EXPERIMENTAL D'OPTIMISATION DU SECHAGE DES ABRICOTS.
	12:00 - 12:15	Mohamed El Yaquoubi et al.	16.CO13- RECENT PYRIDOPYRAZINE DERIVATIVES: BIBLIOGRAPHIC REVIEW, SYNTHESIS AND EVALUATION OF BIOLOGICAL ACTIVITIES.
12:15 – 12:30	Mohammed Satteih.	16.CO14- RESTITUTION DES CRITERES DE QUALITE DES HUILES ALIMENTAIRES USAGEES A TRAVERS LEUR ENRICHISSEMENT AVEC L'EXTRAIT Poudre DU ROMARIN.	
12:30- 14:00	Lunch break		

Friday, November 10th 2023 (Afternoon)

Room 3	14:00- 14:30	Plenary Conferences (Amphitheatre): Conference 4: Peopling of Brazil during the end of the Pleistocene <i>Águeda Vilhena Vialou, National Museum of Natural History-Paris & Sao Paulo University, -SP, Brazil</i>	
	14:30 -16:15	Follow-up: 16- Natural resource compounds: chemical composition, biological activity and toxicity assessment. Abdelaziz Soukri, Faouzi Errachidi et Bouchra El Khalfi	
	14:30 - 14:45	Nabila Diouri et al.	16.CO15- STATUT DE LA FORMATION EN GENIE DE L'ENVIRONNEMENT DANS L'UNIVERSITE SIDI MOHAMMED BEN ABDELLAH (USMBA).
	14:45 – 15:00	Sara El Moujahed et al.	16.CO16- THE MOROCCAN POMEGRANATE: STUDIES ON GUIDED FRACTIONATION OF JUICE PROCESSING BYPRODUCTS AND ITS EFFECTS ON IN VITRO ANTIOXIDANT AND ANTI-INFLAMMATORY PROPERTIES.
	15:00 – 15:15	Ahmed Tazi et al.	16.CO17- VALORISATION AGROALIMENTAIRE DE LA CITRONNELLE (<i>CYMBOPOGON CITRATUS</i>) PLANTEE AU MAROC.
	15:15 – 15:30	Hajar Sbai et al.	16.CO2- COMPARATIVE PHYTOCHEMICAL AND BIOCHEMICAL STUDY OF THREE SWEET POTATO VARIETIES PLANTED IN MOROCCO.
	15:30 – 15:45	Ahlam Zarhouti et al.	16.CO4- ETUDE COMPARATIVE DE L'EFFET DE LA SUPPLEMENTATION DE DEUX HUILES ESSENTIELLES SUR LES PARAMETRES AVANCES DU SPERME ASTHENOZOOSPERMIQUE HUMAIN ET SA CAPACITE ANTIOXYDANTE.
	15:45 - 16:00	Amani Tayebi et al.	16.CO5- EVALUATING THE STABILIZING POTENTIAL OF AQUEOU BASIL EXTRACT (<i>OCIMUM BASILICUM</i> L.) AS AN ANTIOXIDANT FOR SOYBEAN OIL.
	16:00 - 16:15	Alexandra-Mariana Ionescu et all.	16.CO19- PHYTOCHEMICAL AND BIOLOGICAL STUDIES OF PLANTS WITH NEUROPROTECTIVE PROPERTIES.
	16:30- 17:30	Round-table (Amphitheatre): Closing ceremony and distribution of participation certificates, as well as awards for the best oral presentation and the best poster.	
20:00	Gala dinner		

Friday, November 10th 2023 (Morning)

08:00 – 08:30		Participants reception	
Room 4	08:30 – 12:30	18- Biotechnology and Natural Resources Development. Rachida Chabir, Mohamed Eddouks	
	08:30- 08:45	Soufyane Yassara et al.	18.CO1- ANTIBACTERIAL ACTIVITY AND PHYTOCHEMICAL COMPOSITION OF EIGHT MEDICINAL PLANTS AGAINST NOSOCOMIAL INFECTIONS BACTERIA.
	08:45 – 09:00	Adil Qabouche et al.	18.CO2- ANTIDIABETIC AND ANTIDYSLIPIDEMIC EFFECTS OF ARTEMISIA MESATLANTICA, AN ENDEMIC PLANT FROM MOROCCO.
	09:00 – 09:15	Ismail Bouadid	18.CO3- ANTIHYPERTENSIVE ACTIVITY OF <i>PRUNUS ARMENIACA L.</i> IN HYPERTENSIVE RATS.
	09:15 - 09:30	Houria Nekhla et al.	18.CO4- BIOLOGICAL PROPERTIES OF CHAMAEROPS HUMILIS L.: ANTIOXIDANT AND ANTIBACTERIAL ACTIVITIES OF LEAVES, FRUIT AND PULP EXTRACTS.
	09:30 – 09:45	Souad Maache et al.	18.CO5- COMPARATIVE ANALYSIS OF CHEMICAL COMPOSITION AND ANTI-OXIDANT ACTIVITY BETWEEN WILD SALVIA LAVANDULIFOLIA AND SALVIA OFFICINALIS FROM THE MIDDLE ATLAS (CENTRAL MOROCCO).
	09:45 – 10:00	Bouchra Soulaïmani et al.	18.CO6- COMPARATIVE EVALUATION OF THE ESSENTIAL OIL CHEMICAL VARIABILITY AND ANTIMICROBIAL ACTIVITY BETWEEN MOROCCAN LAVENDER SPECIES.
	10:00 - 10:30	COFFEE BREAK AND VISIT TO THE POSTERS.	
	10:30 - 11:00	Plenary Conferences (Amphitheatre): Conference 3.	
	11:00 – 12:30	Follow-up: 18- Biotechnology and Natural Resources Development. Rachida Chabir, Mohamed Eddouks	
	11:00 – 11:15	Khadija Benamar et al.	18.CO7- CONTRIBUTION TO THE VALORIZATION OF NATURAL RESOURCES OF NORTH CENTRAL MOROCCO: AN ETHNOBOTANICAL STUDY.
	11:15 – 11:30	Reda Derdak et al.	18.CO8- ÉTUDE DES EXOPOLYSACCHARIDES DE NOUVELLES SOUCHES ISOLEES DU LAIT CRU D'ÂNESSE MAROCAIN : CRIBLAGE, OPTIMISATION ET CARACTERISATION.
	11:30 - 11:45	Souraya Sakoui et al.	18.CO9- EVALUATION DES PROPRIETES PROBIOTIQUES DES BACTERIES LACTIQUES ISOLEES DU GUANO DE CHAUVE-SOURIS.
	11:45 – 12:00	Samira Jaouhar et al.	18.CO10- EXPLORING THE DISINFECTANT POTENTIAL OF PLANT EXTRACTS AGAINST VARIOUS BACTERIAL STRAINS.
12:00 -12:15	Laila Lahrizi et al.	18.CO11- INVESTIGATION ETHNOBOTANIQUE ET ETHNOPHARMACOLOGIQUE SUR L'UTILISATION DE L'ESPECE AJUGA IVA AU NIVEAU DE LA REGION FES-MEKNES.	
12:15 -12:30	Amer Chabili et al.	18.CO12- ISOLATION OF SOIL MICROALGAE AND SCREENING OF THEIR AQUEOUS EXTRACTS BIOSTIMULANT EFFECTS ON WHEAT GERMINATION.	
12:30 - 14:00	Lunch break		

Friday, November 10th 2023 (Afternoon)

Room 4	14:00- 14:30	Plenary Conferences (Amphitheatre): Conference 4: Peopling of Brazil during the end of the Pleistocene <i>Águeda Vilhena Vialou, National Museum of Natural History-Paris & Sao Paulo University, -SP, Brazil</i>	
	14:30 -15:15	Follow-up: 18- Biotechnology and Natural Resources Development. Rachida Chabir, Mohamed Eddouks	
	14:30 -14:45	Ayoub Amssayef et al.	18.CO13- L-TARTARIC ACID EXHIBITS ANTIHYPERTENSIVE AND VASORELAXANT EFFECTS: THE POSSIBLE ROLE OF ENOS/NO/CGMP PATHWAYS.
	14:45 – 15:00	Amine Azzane et al.	18.CO14- SALVIA AUCHERI EXHIBITS ANTIHYPERTENSIVE ACTIVITY IN HYPERTENSIVE RATS.
	15:00 – 15:15	Anouar El Ghazal et al.	18.CO15- EVALUATION OF THE ANTIMICROBIAL POTENTIAL OF SELECTED PLANT EXTRACTS AGAINST STRAINS INVOLVED IN NOSOCOMIAL INFECTIONS.
	16:30 - 17:30	Round-table (Amphitheatre): Closing ceremony and distribution of participation certificates, as well as awards for the best oral presentation and the best poster.	
	20:00	Gala dinner	

Friday, November 10th 2023 (Morning)			
08:00 – 08:30		Participants reception	
Room 5	08:30 – 10:00	21 - Climate Change and Natural Resources Management. Samira Sefrioui, Jamila Al Figuigui.	
	08:30 - 08:45	Nassima Oucher et al.	21.CO1- EVOLUTION OF HOURLY CONCENTRATIONS OF O3 AND ITS PRECURSORS AT THE CDER'S "NESMA" AIR QUALITY MONITORING STATION IN ALGIERS.
	08:45 – 09:00	Malika El-Hamdouny et al.	21.CO2- HOMOGENEITY AND QUALITY CONTROL OF RAINFALL DATA IN THE UPPER OUM ER-RBIA BASIN, NORTHERN MOROCCO.
	09:00 – 09:15	Maryame El-Yazidi et al.	21.CO3- L'EVOLUTION DES PHENOMENES DE LA SECHERESSE DANS LE BASSIN VERSANT DE SOUSS-MASSA AU SUD DU MAROC PAR L'INDICE PLUVIOMETRIQUE STANDARDISE (SPI).
	09:15 -09:30	Ghita Ajana et al.	21.CO4- QUELLES VARIETES DE FEVE (<i>VICIA FABIA</i> L.) ADOPTER SOUS CONTRAINTE D'OMBRAGE DANS UN SYSTEME AGROFORESTIER ?
	09:30 – 09:45	Mariam Rachidi.	21.CO5- ETUDE PETROGRAPHIQUE MINERALOGIQUE ET GEOCHIMIQUE DU MASSIF DE TIDIENNET.
	10:00- 10:30	COFFEE BREAK AND VISIT TO THE POSTERS.	
	10:30 – 11:00	Plenary Conferences (Amphitheatre): Conference 3.	
	12:30- 14:00	Lunch break	

Friday, November 10th 2023 (Afternoon)

Room 5	14:00 - 14:30	Plenary Conferences (Amphitheatre): Conference 4: Peopling of Brazil during the end of the Pleistocene <i>Águeda Vilhena Vialou, National Museum of Natural History-Paris & Sao Paulo University, -SP, Brazil</i>	
	14:30 - 17:00	1- Session 1: Change and continuity in the genus Homo: resilience and adaptation in a changing world. Levy Figuti & Mercedes Okumura	
	14:30 - 14:45	Mohammed Benabdelhadi et al.	1.CO1- CITY OF STONES IN THE MOROCCAN MIDDLE ATLAS, SPECIAL FUNERAL RITES
	14:45 - 15:00	Leticia Correa et al.	1.CO2- INTERACTIONS BETWEEN HUMANS AND ENVIRONMENT THROUGHOUT THE HOLOCENE IN SÃO PAULO STATE, SOUTHEASTERN BRAZIL.
	15:00 - 15:15	Mercedes Okumura.	1.CO3- PATTERNS OF INFECTIOUS DISEASE IN ANCIENT BRAZILIAN GROUPS: THE ROLE OF DIFFERENT ENVIRONMENTS AND DEMOGRAPHIC PARAMETERS.
	15:15 - 15:30	Marianne Sallum et al.	1.CO4- SUSTAINING AGROFORESTRY COMMUNITIES IN SÃO PAULO, BRAZIL: EXCHANGE OF KNOWLEDGE AND MATERIALITY THROUGH TIME.
	15:30 - 15:45	Marcelo Cardillo et al.	1.CO5- THE EVOLUTION OF HUNTER-GATHERERS IN THE HIGHLAND REGIONS OF THE CENTRAL SOUTHERN ANDES.
	15:45 - 16:00	Levy Figuti et al.	1.CO6- THE FAUNAL REMAINS ON SOUTH-EAST BRAZIL RIVERINE SHELL-MOUNDS: SUBSISTENCE PATTERNS ON RAIN FOREST HUNTERS-GATHERERS DURING THE HOLOCENE.
	16:00 - 16:15	Astolfo Araujo.	1.CO7- THE RELATIONSHIP BETWEEN HUMANS AND PALEOENVIRONMENTS IN BRAZIL DURING THE HOLOCENE.
	16:15 - 16:30	Perez Glauco et al.	1.CO8- THE USE OF CLADISTICS TO EXPLORE CULTURAL TRANSMISSION AMONG TUPIGUARANI GROUPS IN SAO PAULO STATE, BRAZIL.
	16:30 - 16:45	Hassan Aouraghe et al.	1.CO9- THE PREHISTORIC CAVE OF GUENFOUDA, EASTERN MOROCCO: A SUMMARY OF MULTIDISCIPLINARY RESEARCH CONDUCTED BETWEEN 2004 AND 2022.
	16:45 - 17:00	Hicham Mhamdi et al.	1.CO10- TAPHONOMY AND PALÉOENVIRONNEMENT OF SMALL VERTEBRATES FROM THE HOLOCENE LEVELS OF GUENFOUDA CAVE (EASTERN MOROCCO).
	17:00 - 17:15	Benlamine Lalla Khaddouj	1.CO11- LE MONUMENT FUNERAIRE ISFOULA (MOYEN ATLAS, MAROC) : ETUDE PRELIMINAIRE.
	17:00- 17:30	Round-table (Amphitheatre): Closing ceremony and distribution of participation certificates, as well as awards for the best oral presentation and the best poster.	
20:00	Gala dinner		

Program of the Poster communication: Friday, November 10th 2023; 10:00 – 10:30

Thematic	Author	Title of the Poster communication
Natural resource compounds: chemical composition, biological activity and toxicity assessment.	Mohammed Satteih et al.	AMELIORATION DE L'EFFICACITE ANTIMICROBIENNE DU CAMPHRE PAR SA TRANSFORMATION EN BORNEOL-O-ALKYL.
	Taha Ouriagli et al.	ANALYSE QUALITATIVE ET QUANTITATIVE DES GLYCOSIDES DE STEVIOL A PARTIR DES FEUILLES DE STEVIA REBAUDIANA BERTONI CULTIVEE AU MAROC : UNE ETUDE EXPERIMENTALE A TROIS FACTEURS.
	Kadiata Ba et al.	BIOLOGICAL ACTIVITIES OF NATURAL BIOACTIVE MOLECULES IN MEDICINAL PLANTS.
	Salma Chaari et al.	CONTRIBUTION A L'ETUDE DE LA VARIABILITE DE LA COMPOSITION CHIMIQUE DE L'HUILE ESSENTIELLE D'ARTEMISIA : ESPECE ENDEMIQUE AU MAROC.
	Kenza Zraraa et al.	CURRENT PROGRESS IN PRODUCTION OF BIOPOLYMERIC MATERIALS BASED ON CELLULOSE.
	Yousra Seqqat et al.	DESIGN, SYNTHESIS AND CHARACTERIZATION OF NEW QUINOXALINE-2,3-DIONE DERIVATIVES FOR APPLICATIONS IN MEDICINAL CHEMISTRY.
	Ahmed Tazi et al.	ETUDE CHROMATOGRAPHIQUE DES COMPOSES PHENOLIQUES LA CITRONNELLE (CYMBOPOGON CITRATUS) PLANTEE AU MAROC.
	Iman Msegued Ayam et al.	ETUDE COMPARATIVE DES PROFILS PHENOLIQUES DES VARIETES DES CUMIN (CUMINUM CYMINUM L.) PLANTEES AU MAROC.
	kenza zraraa et al.	ETUDE COMPARATIVE DU COMPORTEMENT DES GRAINES DE CINQ VARIETES DE LIN (LINUM USITATISSIMUM) VIS-A-VIS DU STRESS SALIN.
	Khaoula Filali Samouh et al.	EVALUATION DE CERTAINS PARAMETRES ORGANOLEPTIQUES DE LA VIANDE DES POULETS DE CHAIR NOURRIS AUX POUDRES DE ROMARIN (ROSMARINUS OFFICINALIS) ET LA CHITINE.
	Mariem Norredine et al.	EVALUATION DE L'EFFET DE BIOMOLECULE SYNTHETIQUE SUR L'INFLAMMATION INTESTINALE INDUITE CHEZ LE RAT
	Salma ED-Doumy et al.	EVALUATION DES EFFETS D'UNE HUILE ESSENTIELLE SUR L'INFLAMMATION INTESTINALE IN-VIVO.
	Oumaima Beroigui et al.	EXPLORING MICROBIAL INULINASE: SELECTION, CHARACTERIZATION, AND PURIFICATION OF STREPTOMYCES ANULATUS FOR ENHANCED INDUSTRIAL APPLICATIONS.
	Abdellatif Amnay et al.	L'ACTIVITE ANTIOXYDANTE DES POLYPHENOLS EXTRAITS DES FRUITS D'OPUNTIA STRICTA COLLECTE AU MAROC.
	Noura Jaouad et al.	L'HUILE ESSENTIELLE DES FEUILLES DE CITRONNELLE, MISE AU POINT ET VALORISATION.
	Oumaima Chater et al.	LAVANDULA MAROCCANA ESSENTIAL OIL: CHEMICAL PROFILING AND ANTIMICROBIAL POTENTIAL.
	Sara El moujahed et al.	NEW EXTRACTS FROM POMEGRANATE BY-PRODUCTS AS A POTENTIAL BIOHERBICIDAL TANNIN: PRELIMINARY CHARACTERIZATION AND GROWTH CONTROL ON MEDICAGO SATIVA L. AS A MODEL.
	Mouad Lahyaoui et al.	NOUVEAUX COMPOSES TRIAZOLIQUES DERIVES DE LA CYTOSINE : SYNTHESE, CARACTERISATION ET ACTIVITE BIOLOGIQUE.
Abdellatif Amnay et al.	OPTIMISATION D'EXTRACTION DES BETALAÏNES D'OPUNTIA STRICTA COLLECTE AU MAROC.	
Nabila Diouri et al.	PEDAGOGIE ET CONCEPTUALISATION AFIN D'ACCEDER A L'EDUCATION POUR LA DURABILITE A L'UNIVERSITE MAROCAINE : L'USMBA COMME MODEL.	
Taha Ouriagli et al.	PROPRIETES ANTIOXYDANTES IN VITRO DES GLYCOSIDES DE STEVIOL ISOLES A PARTIR DE FEUILLES DE STEVIA REBAUDIANA BERTONI ACCLIMATEES AU MAROC.	
Mouad Lahyaoui et al.	QSAR MODELING, MOLECULAR DOCKING AND MOLECULAR DYNAMIC SIMULATION OF PHOSPHORUS-SUBSTITUTED QUINOLINE DERIVATIVES AS TOPOISOMERASE I INHIBITORS.	

Program of the Poster communication: Friday, November 10th 2023; 10:00 – 10:30

Thematic	Author	Title of the Poster communication
(Follow-up) Natural resource compounds: chemical composition, biological activity and toxicity assessment.	Hajar Sbai et al.	STUDY OF SWEET POTATO PHENOLIC COMPOUNDS AND EVALUATION OF THEIR ANTI-INFLAMMATORY ACTIVITY.
	Ayoub El Mrabet et al.	QUINOLONES AS POTENTIAL DRUGS: THEIR SYNTHESIS AND BIOLOGICAL APPLICATIONS.
	Houda Lamssane et al.	SYNTHESIS OF NEW HETEROCYCLIC SYSTEMS DERIVED FROM 5,5-DIPHENYLHYDANTOIN FOR THERAPEUTIC PURPOSES.
	Fatima Mourabiti et al.	THE USE OF PHYTOCOMPOUNDS FOR COMBATING MULTI-DRUG RESISTANCE.
Groundwater and Climate changes.	Bilel Abdelkarim	HYDRO-GEOPHYSICAL AND GEOCHEMICAL INVESTIGATIONS ON AQUIFER SYSTEMS IN ARID REGION: INSIGHTS INTO WATER RESOURCES IN SOUTHEASTERN TUNISIA.
	Safae Dafouf	THE MONITORING OF METEOROLOGICAL AND HYDROLOGICAL DROUGHT BY ADOPTING A DIVERSE DROUGHT INDICES IN THE SOUTH-EASTERN PART OF MOROCCO.
Conservation of animal biodiversity.	Safae Chentouf et al.	"CONTRIBUTION TO THE UNDERSTANDING OF THE APICULTURAL SECTOR AND THE CONSTRAINTS FACED BY BEEKEEPERS IN THE 'FES-MEKNES' REGION."
	Oumar Konate	POTENTIAL ROLE OF KISSPEPTIN IN INFERTILITY DISORDERS.
	Youssef Dbiba et al.	SEASONAL ACTIVITY PATTERNS AND HABITAT USE BY KUHL'S PIPISTRELL (PIPISTRELLUS KUHLII) AND THE ISABELLINE SEROTINE BAT (EPTESICUS ISABELLINUS) IN SAFI CITY, CENTRAL WEST OF MOROCCO.
	Mohammed Hmidani et al.	TIMING OF MIGRATION DATES AND DETECTION OF FIRST WINTERING SITES FOR THE TURTLE DOVE IN NORTHWEST AFRICA.
	Ilham Zouitane et al.	ETUDE DES TRAITS FAVORISANT LA CROISSANCE DES PLANTES ET DE LA RESISTANCE AU STRESS HYDRIQUE DES ISOLATS RHIZOSPHERIQUES DE CACTUS.
Biotechnology and Natural Resources Development.	Adil Qabouche et al.	ACUTE TOXICITY EVALUATION AND ANTIDYSLIPIDEMIC POTENTIAL OF THE AQUEOUS EXTRACT OF RETAMA SPHAEROCARPA IN TRITON WR-1339-INDUCED HYPERLIPIDEMIC RATS.
	Ismail Bouadid et al.	ANTIHYPERTENSIVE AND VASORELAXANT EFFECTS OF DAPHNE GNIDIUM (L.) THROUGH RECEPTOR-OPERATED CALCIUM CHANNELS IN HYPERTENSIVE RATS AND ITS EFFECT ON ANGIOTENSIN-CONVERTING ENZYME 2 (ACE-2).
	Souad Maache et al.	CHEMICAL COMPOSITION, ANTI-OXIDANT ACTIVITY, AND ANTI-MICROBIAL EFFECTS OF ESSENTIAL OILS FROM WILD SALVIA LAVANDULIFOLIA SUBSP. MESATLANTICA.
	Abderrahim Asbbane et al.	EFFET DU RAFFINAGE PHYSIQUE SUR LA QUALITE ET LA STABILITE OXYDATIVE DE L'HUILE D'ARGANE EXTRAITE A PARTIR DES NOIX REGURGITEES PAR LES CHEVRES.
	Lamiaa Mekhfi	ETUDE POPULATIONNELLE PAR LA NOUVELLE TECHNIQUE NGS.
	Amine Azzane et al.	INVOLVEMENT OF NITRIC OXIDE PATHWAYS AND CALCIUM CHANNELS IN VASORELAXANT EFFECT INDUCED BY LAGUNARIA PATERSONII IN RAT AORTIC RINGS.
	Ayoub Amssayef et al.	VITAMIN C INHIBITS ANGIOTENSIN-CONVERTING ENZYME-2 IN ISOLATED RAT AORTIC RING.
Climate Change and Natural Resources Management.	Yusra Ameziane El Hassani et al.	ASSESSMENT OF COPPER (CU) AND MANGANESE (MN) CONTAMINATION IN WASTEWATER-IRRIGATED AGRICULTURAL AREAS OF MEKNES (MOROCCO).
	Maryame El-Yazidi et al.	ETUDE DU BILAN HYDRIQUE DES NAPPES DE SOUSS, DE TIZNIT ET DE CHTOUKA) AU NIVEAU DE LA REGION DE SOUSS-MASSA, (SUD DU MAROC).
	Sara AL Qoh et al.	INVESTIGATION OF SPATIO-TEMPORAL VARIABILITY OF PHYSICO-CHEMICAL PARAMETERS AND ALGAL DISTRIBUTION AS INDICATORS OF LAGOON QUALITY IN OUALIDIA.
	Saddik Elyadari	LA VARIABILITÉ SPATIO-TEMPORELLE DES PLUIES DANS LE BASSIN VERSANT D'INAOUÈNE (MAROC) ENTRE LA PÉRIODE 1970-71 / 2017-18 DANS UN CONTEXTE DU CHANGEMENT CLIMATIQUE.