

IDB2019

THE 18TH INTERNATIONAL DAYS OF BIOTECHNOLOGY

December 18th - 21st, 2019
Hotel Marhaba Palace El Kantaoui *****
SOUSSE, TUNISIA



SCIENTIFIC PROGRAM

Wednesday 18/12/2019			
9h00-14h30	Registration		
15h00-15h20	Opening Ceremony		
15h20-16h00	Plenary conference 1 (15h20-16h00) Chairmen: Pr. Chedly ABDELLY & Pr. Ridha MHAMDI		
	Cfl: Pr. Vincenzo LONGO	Sustainable agriculture, fermented products and halophyte plants to develop functional foods and nutraceutical products	
16h00-16h25	Tea & Coffee Breaks		
16h30- 18h00	3 Parallel Sessions		
Room 1: Bioactive Molecules and Applications 16h30-18h20: 7 Oral communications (BMO1-BMO7)			
Chairmen: Pr. Adel SAYARI & Mr. Ilem HASSAIRI			
16h30-16h50	<i>Tc1-BMO1</i>	Lamjed BOUSLAMA	Isolation of an antiviral molecule from <i>Commiphora gileadensis</i>
16h50-17h05	<i>BMO2</i>	Wissal DHIFI	Antioxidant and hepato-preventive effect of <i>Citrus aurantium</i> extract against carbon tetrachloride-induced hepatotoxicity in rats and characterization of its bioactive compounds by HPLC-MS
17h05-17h20	<i>BMO3</i>	Saïd GHALEM	Biochemical Properties of Honey on Type 2 Diabetes: Experimental and Molecular Modeling Studies
17h20-17h35	<i>BMO4</i>	Hocine ALLALI	Molecular modeling interactions study between main molecules contained in essential oil from clove and enzyme implicated in diabetes type II
17h35-17h50	<i>BMO5</i>	Haifa CHTOUROU	Biological activities of different <i>Teucrium polium</i> extracts originated from Tunisia
17h50-18h05	<i>BMO6</i>	Djamel EL-HADI	Extraction and Characterization of Phenolic Compounds Contained in Grape Marc's Skin and Seed
18h05-18h20	<i>BMO7</i>	Walid ABIDI	Impact of cold storage period on antioxidant compounds in four early peach [<i>Prunus persica</i> (L.)Batsch] cultivars
Room 2: Industrial Biotechnology 16h30-18h00: 6 Oral communications (IBO1-IBO6)			
Chairmen : Pr. Kais JAMOSSI & Pr. Karima BELGHITH			
16h30-16h45	<i>IBO1</i>	Ali SALEM	Development and characterization of smooth hound skin gelatin films modified by TiO ₂ particles
16h45-17h00	<i>IBO2</i>	Sonia MHIRI	A thermostable xylanase from the thermophilic anaerobic bacterium <i>Caldicoprobacter algeriensis</i> sp. TH7C1 ^T : Expression, purification, characterization and application in biobleaching paper
17h00-17h15	<i>IBO3</i>	Atika LAHRECH	Microbiological quality of Arbia goat's milk and cheese: coagulation by <i>Cynaracardunculus</i>
17h15-17h30	<i>IBO4</i>	Amal BEN KHOUD	Characterization and identification of yeasts originating from Tunisian raw milks and traditional cheeses
17h30-17h45	<i>IBO5</i>	Sahar KESKES	Towards a new biological control approach for <i>Photographus temperata</i> bioinsecticide production through the bioconversion of Tunisian industrial wastewater
17h45-18h00	<i>IBO6</i>	Jihen MSEDDE	Selection and characterization of <i>Beauveria</i> sp. isolates toxic against the cotton aphid <i>Aphis gossypii</i> (Hemiptera: Aphididae)

Room 3: Plant Biotechnology			
16h30-18h25: 7 Oral communications (PBO1-PBO7)			
Chairmen : Pr. Radhia GARGOURI & Pr. Tahar GHNAYA			
16h30-16h50	<i>Tc1-PBO1</i>	Kaouthar FEKI	Genome wide investigation of pathogenesis related <i>PR10</i> genes family of common bean and their role in abiotic stress response
16h50-17h05	<i>PBO2</i>	Sawsen DRINE	Sequence and expression variation in the dehydrin6 gene in barley varieties with divergent responses to drought stress
17h05-17h20	<i>PBO3</i>	Marwa HARBAOUI	The wheat annexin TdAnn12 promotes abiotic stress tolerance in transgenic tobacco plants
17h20-17h35	<i>PBO4</i>	Dhaouia MERGBI	Overexpression of durum wheat NAC transcription factor <i>TtNAC2A</i> enhanced abiotic stress tolerance in transgenic <i>Arabidopsis</i> plants
17h35-17h55	<i>Tc2-PBO5</i>	Moncef MRABET	Development and effectiveness of talc bio-based formulations of <i>Bacillus amyloliquefaciens</i> and <i>Rhizobium gallicum</i> for the bioprotection and biofertilisation of Common bean (<i>Phaseolusvulgaris</i> L.)
17h55-18h10	<i>PBO6</i>	Bacem MNASRI	Genotypic and symbiotic diversity of rhizobia nodulating Red pea (<i>Lathyrus cicera</i> L) in Tunisian soils
18h10-18h25	<i>PBO7</i>	Marwa BATNINI	<i>Fusarium oxysporum</i> -related defense responses influence <i>Sinorhizobium meliloti-Medicago truncatula</i> symbiotic establishment by modifying DIM2 and DIM3 expression
18h25-19h25	Poster display of all sessions (18h25-19h25)		
	BBP1-PBP57	Plant Biotechnology	
	IBP1-IBP32	Industrial Biotechnology	
	EBP1-EBP37	Environmental Biotechnology	
	BMP1-BMP59	Bioactive Molecules and Applications	
	HBP1-HBP46	Health Biotechnology	
20h00	Dinner		

Thursday Morning 19/12/2019			
09h-9h40	Plenary conference 2 (9h-9h40) Chairmen : Pr. Samir BEJAR & Pr. Adel SAYARI		
	Cf2: Pr. Zahia KABOUCHE	Secondary metabolites of Algerian Salvia and their biological potential	
09h40-10h20	Plenary conference 3 (9h40-10h20) Chairmen: Pr. Hafedh BELGHITH & Pr. Zahia KABOUCHE		
	Cf3: Pr. Ali Faouzi GARGOURI	A particular constitutive hyperpectinolytic mutant: biochemical properties, exploitation and molecular characterization	
10h20-10h45	Tea & Coffee Breaks		
10h50- 12h25	3 Parallel Sessions		
Room 1: Bioactive Molecules and Applications 10h50-12h40: 6 Oral communications (BMO8-BMO14)			
Chairmen: Dr. Abir BEN BACHA & Dr. Aida HMIDA-SAYARI			
10h50-11h05	<i>BMO8</i>	Saliha DASSAMIOUR	Analysis of antioxidant effect and phenolic fraction from Hamraya date extracts
11h05-11h20	<i>BMO9</i>	Myriam LAMINE	Correlative metabolite profiling approach to understand antioxidant and antimicrobial activities from citrus essential oils
11h20-11h35	<i>BMO10</i>	Soulef DIB	Bioactive molecules in the extract of the mushroom <i>Armillaria</i> sp. and their antimicrobial activity
11h35-11h55	<i>Tc2-BMO11</i>	Karim KADRI	Effect of pollen source and pollination time on yield and fruit characteristics of "Deglet Nour" date palm (<i>Phoenix dactylifera</i> L.) in the Oasis of Djerid (Tunisia)
11h55-12h10	<i>BMO12</i>	Malika DRIRA	Detection and quantification of untargeted fingerprinting for authentication in Extra Virgin Olive Oil's
12h10-12h25	<i>BMO13</i>	Ali ZAZOUA	Innovative Analytical Methods Based on Biomolecules for Bisphenol A Detection in Waters
12h25-12h40	<i>BMO14</i>	Amina CHNIGUIR	Eugenol prevents fMLF-induced superoxide anion production in human neutrophils by inhibiting ERK1/2 signaling pathways and p47phox phosphorylation
Room 2: Industrial Biotechnology (IPM-4-Citrus) 10h50-11h55: 6 Oral communications: (IBO7-IB10)			
Chairmen: Pr. Slim TOUNSI & Dr. Luc FILLAUDEAU			
10h50-11h10	<i>Tc1-IBO7 (IPM-4-Citrus)</i>	Sara FALVO (by visioconference)	Exploitation of scientific results in the biotech field: the crucial role of intellectual property rights
11h10-11h25	<i>IBO8 (IPM-4-Citrus)</i>	Jihane SAAD	Mass balance and cells, spores and δ -endotoxine distributions during <i>Bacillus thuringiensis kurstaki</i> bioproduction with wheat bran based medium
11h25-11h40	<i>IBO9 (IPM-4-Citrus)</i>	Nouha ABDELMALEK	Monitoring of <i>Bacillus thuringiensis kurstaki</i> (Btk) growth, sporulation and δ -endotoxin production: insight of on-line alternative measurements with semi-synthetic and industrial media

11h40-11h55	<i>IBO10 (IPM-4-Citrus)</i>	Tayssir HAMMAR	Development of biopesticide formulations for new strains of <i>Bacillus thuringiensis</i> spores and crystals to control citrus pests
Room 3: Plant Biotechnology 10h50-12h40: 7 Oral communications (PBO8-PBO14)			
Chairmen : Pr. Haythem MHADHBI & Pr. Moncef MRABET			
10h50-11h10	<i>Tc2-PBO8</i>	Ines YACOUBI	Historical Changes in yield components and quality traits of durum wheat during the 20th century in Tunisia spotlighted the wheat breeding after 1970
11h10-11h25	<i>PBO9</i>	Faiza BOUSSORA	Spike developmental stages and ABA role in spikelet primordia abortion regulate the yield in barley (<i>Hordeum vulgare</i> L.)
11h25-11h40	<i>PBO10</i>	Nour CHIAB	The relationship between StDREB ₁ transcription factor expression and tuber production and dormancy: effect on GA2Ox gene expression
11h40-11h55	<i>Tc3-PBO11</i>	Ahmed OTHMANI	Lessons from a date palm (<i>Phoenix dactylifera</i> L.) diploid/tetraploid sectorial chimera
11h55-12h10	<i>PBO12</i>	Amel ENNAJAH	Cavitation Vulnerability of two oaks species in Kroumirie ; in a context of climate change
12h10-12h25	<i>PBO13</i>	Adel HADJ BRAHIM	Seed Biopriming with efficient antimicrobial PGPB strains improved head blight resistance on wheat culture
12h25-12h40	<i>PBO14</i>	Fatima BOUCHENAK	Effect of different levels of NCK on the mycelia growth and sporulation of of verticillium wilt of tomato <i>Verticillium dahlia</i> Kleb
13h00	Lunch		
Thursday After noon 19/12/2019			
14h30-15h40	Poster discussion		
	PBP1-PBP57	Plant Biotechnology	
	IBP1-IBP32	Industrial Biotechnology	
	EBP1-EBP37	Environmental Biotechnology	
	BMP1-BMP59	Bioactive Molecules and Applications	
	HBP1-HBP46	Health Biotechnology	
15h45-16h25	Plenary conference 4 (15h45-16h25) Chairmen : Pr. Ali GARGOURI & Pr Façal BRINI		
	Cf4: Pr. Samir BEJAR	Genomic and metagenomic approach for screening of new exciting enzymes with industrial interest	
16h25-16h50	Tea & Coffee Breaks		
16h55-18h35	3 Parallel Sessions		
Room 1: Bioactive Molecules and Applications 16h55-18h15: 5 Oral communications (BMO15-BMO19)			
Chairmen : Dr. Mohamed Najib SAIDI and Pr. Rachida BELGUENDOZ			
16h55-17h10	<i>BMO15</i>	Nissaf AOIADNI	HPLC-DAD profiling of flavonoids from <i>Fumaria officinalis</i> and structure-activity relationship as antioxidants and antimicrobial: Extraction optimization and hepatoprotective effect against permethrin induced liver

			injury ex vivo
17h10-17h25	<i>BMO16</i>	Kaïs JAMOSSI	<i>Bacillus thuringiensis</i> SI/4 vip genes and predictive modeling of insecticidal proteins
17h25-17h40	<i>BMO17</i>	Mouna BOUASSIDA	Isolation, production and identification of a biosurfactant produced by <i>Lactobacillus plantarum</i>
17h40-18h00	<i>Tc3-BMO18</i>	Mouna BOULARES	Production and Shelf-life enhancement of functional fresh cheese supplemented with dried powder or essential oil of <i>Artemisia absinthium</i>
18h00-18h15	<i>BMO19</i>	Lynda LAKABI	Effect of peppermint essential oil on the histological structure of testes and epididymis of weaned and prepuberts rabbits of the synthetic line
Room 2: Environmental Biotechnology 16h55-18h15: 5 Oral communications (EBO1-EBO5)			
Chairmen : Dr. Bassem JAOUADI & Pr. Abdelmalek BADIS			
16h55-17h15	<i>Tc1-EBO1</i>	Hassiba LARIBI-HABCHI	Study of the acaricidal effect of a biomolecule of origin environmental protection against the parasite (varroa) of the honey bee <i>Apis mellifera</i>
17h15-17h30	<i>EBO2</i>	Inès MNIF	Production, Characterization and Application of a newly isolated lipopeptide biosurfactants as bio-chelator of heavy metal
17h30-17h45	<i>EBO3</i>	Hanen KHARRAT	Valorization of phosphogypsum by production of sulfide by sulfate reducing bacteria
17h45-18h00	<i>EBO4</i>	Ameni BEN ZINEB	Contribution of the inoculation with <i>Pseudomonas corrugata</i> SP77 and <i>Rhizophagus irregularis</i> EZZ58 to the improvement of <i>Medicago truncatula</i> under rock phosphorus fertilization
18h00-18h15	<i>EBO5</i>	Mohamed NEIFAR	<i>Halomonas desertis</i> G11, a potent extremophilic azo dye bioremediator
Room 3: Health Biotechnology 16h55-18h35: 7 Oral communications (HBO1- HBO7)			
Chairmen : Pr. Ahlem AMOURI & Pr. Amira BERGAL			
16h55-17h15	<i>Tc1-HBO1</i>	Adel TEKARI	Inositol hexaphosphate abolishes bone mineralization in early development of zebrafish embryos
17h15-17h30	<i>HBO2</i>	Mohamed EL AYED	Gastroprotective effect of Grape Seed Extract (<i>Vitis Vinifera</i>) against ethanol induced ulcer and oxidative stress in rat
17h30-17h45	<i>HBO3</i>	Abir BEN BACHA	The therapeutic and protective effects of bee pollen against prenatal Methylmercury induced neurotoxicity in rat pups
17h45-18h00	<i>HBO4</i>	Fatma ELLEUCH	Immune response of orthotopic TNBC mice treated with <i>Dunaliella</i> extract
18h00-18h15	<i>HBO5</i>	Slim GHRIR	Protective effect of orlistat pretreatment on murine cerebral ischemia/reperfusion injury: focus on energy metabolism and infarct size
18h15-18h35	<i>Tc2-HBO6</i>	Riadh BEN MANSOUR	Effect of Olereupein and Tyrosol on human neutrophil extracellular traps (NETs) release
18h35-18h50	<i>HBO7</i>	Abdelali BOUSSIF	Myeloperoxidase release impairment and restoration in neutrophils from patients with decompensated cirrhosis
20h00	Dinner		
21h00-23h30	Elective General Assembly of the A.T.Biotech		

Friday Morning 20/12/2019		
9h00-9h40	Plenary conference 5 (9h00-9h40)	
	Chairmen: Pr. Balkiss BOUHAOUALA-ZAHAR & Pr. Moustafa KARDJADJ	
	Cf5: Dr. Lamia GUIZANI	Leishmaniasis at the ERA of transcriptomics
09h40-10h20	Plenary conference 6 (9h40-10h20)	
	Chairmen: Pr. Chedly ABDELLELY & Pr. Souad ROUIS	
	Cf6: Dr. Moez OTAY	La création des spin-off en Tunisie : le concept, le processus, les ressources et les envergures
10h20-10h50	Tea & Coffee Breaks	
Room 1: Part II. Présentation des cas de création de spin-off en Tunisie: (success stories)		
10h50-12h10		
Chairmen: Dr. Moez OTAY & Pr. Chedly ABDELLELY		
10h50-11h10	M. Aissette BAANANNOU, CBS	Specialized Company in genetic analysis and genomic editing of model organisms
11h10-11h30	Mme Wiem ABBES, ENIS	IoT application based on a hardware platform and software for a telemedicine service
11h30-11h50	Mlle Marwa NCIR, FSS	Design of a gel and a biomaterial doped by a cyanobacterium " <i>Arthrospira platensis</i> ", for application in odontology and orthopedi
11h50-12h10	Mme Ferdaws GHRAB BEN DJEMAA, FSS	FAR-SKIN-CARE : Plant extracts and skin-regenerating dermo-cosmetic range products conception
13h00	Lunch	

Friday afternoon 20/12/2019			
14h30-15h40	Poster discussion (continuation & end)		
		PBP1-PB57	Plant Biotechnology
		IBP1-IBP132	Industrial Biotechnology
		EBP1- EBP37	Environmental Biotechnology
		BMP1-BMP59	Bioactive Molecules and Applications
	HBP1-HBP46	Health Biotechnology	
Room 1: Bioactive Molecules and Applications 15h45-16h45: 4 Oral communications (BMO20-BMO23)			
Chairmen: Pr. Noureddine ALLOUCHE & Pr. Raoudha MEZGHANI-JARRAYA			
15h45-16h00	<i>BMO20</i>	Chedia AOUADHI	Mechanism of action of <i>Thymus capitatus</i> essential oil on extended-spectrum β -lactamase (ESBL) producing <i>Escherichia coli</i>
16h00-16h15	<i>BMO21</i>	Mouni SAADOUDI	Physicochemical and organoleptic properties of yogurt incorporated with wormwood (<i>Artemisia herba alba</i>)
16h15-16h30	<i>BMO22</i>	Amir BOUALLEGUE	Statistical optimization of exopolysaccharide production by <i>bacillus subtilis</i> AF17: Characterization and biological activity
16h30-16h45	<i>BMO23</i>	Redhouane BENFARES	Extraction and Characterization of alginates from local algae: application to red beet juice encapsulation
Room 2: Environmental Biotechnology 15h45-16h45: 4 Oral communications (EBO6-EBO9)			
Chairmen: Pr. Moktar HAMDY & Pr. Amel BOUANANE-DARENDED			
15h45-16h00	<i>EBO6</i>	Jihen ELLEUCH	Development and environmental application of q-PCR assay for simultaneous identification and enumeration of marine toxic bloom-forming microalgal genus
16h00-16h15	<i>EBO7</i>	Imran HAMMAMI	Marshland communities of Ichkeul National Park and impact of livestock distribution on vegetation
16h15-16h30	<i>EBO8</i>	Yughurthen BENATMANE	Treatment of aquaculture wastewater by electrocoagulation
16h30-16h45	<i>EBO9</i>	Sihem JEBRI	Inactivation of biohazards in healthcare wastes by gamma irradiation
Room 3: Health Biotechnology 15h45-17h35: 4 Oral communications (HBO8-HBO14)			
Chairmen: Dr. Lamia GUIZANI & Pr. Takfarinas IDRES			
15h45-16h00	<i>HBO8</i>	Rahima BEL HAJ RHOUMA	Distribution of High risk Human Papillomavirus in precancerous and cancerous cervical lesions in Tunisian women
16h00-16h15	<i>HBO9</i>	Rym HASSIKI	Development and validation of an in vitro bioassay for the evaluation of the PEG-filgrastim biological activity in a comparative manner
16h15-16h30	<i>HBO10</i>	Jannet KAMOUN	Identification of a new natural gastric lipase inhibitor for obesity treatment
16h30-16h50	<i>Tc3-HBO11</i>	Amira BERGAL	Distribution of serotypes, genotypes, and antibiotic resistance genes of <i>Streptococcus agalactiae</i> clinical isolates from Guelma, Algeria and Marseille, France
16h50-17h05	<i>HBO12</i>	Insaf BEN HADJ ALI	PEER 518 project: Diagnosis of cutaneous Leishmaniasis: development and evaluation of multiplex POC DNA assays
17h05-17h20	<i>HBO13</i>	Ahmed HEMICI	Development of sensitive antibody detection ELISA to assess a purified cysteine protease as antigen for serodiagnosis of fascioliasis in naturally infected cattle
17h20-17h35	<i>HBO14</i>	Ghofrane BALTI	Development of a new High resolution melting DNA analysis assay (HRM-qPCR) for identification of zoonotic vector-borne bacteria
17h50-18h20	Tea & Coffee Breaks		

21h00	Musical animation & Poster awards
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Saturday Morning 21/12/2019	
9h00	Closing Ceremony
11h00	Departure