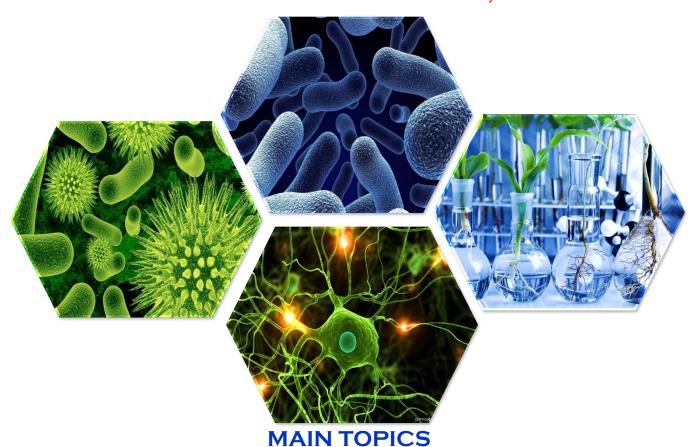
Scientific Program

SECOND MEDITERRANEAN CONGRESS ON BIOTECHNOLOGY MCB 2

MARCH 16th- 20th, 2019 HÔTEL SAPHIR PALACE HAMMAMET, TUNISIA



- Biocatalysts and enzyme engineering
- Industrial applications
- Genomics and metabolites
- Biosensors, biochips and nanotechnology
- Bio-montoring and bioremediation of pollutants
- Wastewater treatment and reuse
- Microbial ecology
 - White and Yellow **Biotechnologies**
- Medical application
- Human health
- Infectious, monogenic and complex diseases
- Functional genomics and stem cells
- Innovative therapies
- Computational modeling and simulation in life
- Pharmaceutical industry

- Plant-microorganism interaction
- Biotechnology improvement of plant and food processes
- Genetically modified crops
- Biopesticides
- Agro-food
- Energy

Red Biotechnology

Green and Blue Biotechnologies



































		Saturday March 16 th , 2019	
9h00-15h30		Registration and Lunch	
15h30- 16h30		Opening Ceremony	
		Plenary Lecture1(PL1)	
16h30-17h10		Chairmen:	
	PL1: Prof.Abdelmajid BEN AMARA	Competitive Financing Devices, PRIMA a Successful Experience	
17h10-17h40	Special Tea & Coffee Breaks		
		Plenary Lecture 2 (PL2)	
17h40-18h20	Chairmen:		
	PL2: Dr. Fayza DABOUSSI	Genome editing in diatoms	
		Poster display	
18h20-19h00	Green and Blue Biotechnology (GBBP 1-26)		
	White and Yellow Biotechnology (WYBP 1-13)		
	Red Biotechnology (BRP 1-17)		
20h00		Dinner	

	Sunday March 17 th , 2019			
			8h30-10h30	
			2 Parallel Sessions	
			Oral Communications	
		Room 1: Green	and Blue Biotechnology (GBBO 1-4)	
	Chairmen:			
8h30-8h45	GBBO1	Mohammed Najib SAIDI	Network analysis of regulatory genes network in wheat under multiples abiotic stresses	
8h45-9h00	GBBO2	Sana TOUNSI	Functional characterization of a novel peroxisomal catalase from Triticummonococcum TmCAT1, conferring resistance to various abiotic stresses	
9h00-9h15	GBBO3	Imene RAJHI	Identification of <i>Viciafaba</i> genotypes with contrasting salinity tolerance	
9h15-9h30	Abscisic acid Stress and Ripening (TtASR1) an intrinsically disordered protein as a functional marker for Salt tolerance in Durum wheat			
		Room 2:	Red Biotechnology (RBO 1-4)	

	Chairmen:				
8h30-8h45	RBO1	Basma HADJKACEM	Identification of a molecule inducing platelet aggregation in a calcium dependent manner and exploration of its effect on signaling pathway		
8h45-9h00	RBO2	Raida ZRIBI ZGHAL	The combinatory effect of Cyt1Aa flexibility and specificity against dipteran larvae for the improvement of its synergistic potential with Cry toxins		
9h00-9h15	RBO3	Kaoutar ELFAZAZI	Chemical and microbiological stability of Moroccan pomegranate juice depending on storage conditions		
9h15-9h30	RBO4	Hazar KRAÏEM	Expression of the recombinant NbF12-10 and its chimeric antibody format in Escherichia coli: Investigation of fed-batch bioprocess on minimal media		
		9h35-10	0h15: Plenary Lecture 3 (PL3) Chairmen:		
9h35-10h15		PL3;Dr. Hechmi LOUZIR	Immunity and protection against <i>Leishmania</i> major infection: challenges and achievements		
10h15-10h35			Tea & Coffee Breaks		
		10h40-12h00: Pl	enary Lectures 4 and 5 (PL4 and PL5) Chairmen:		
10h40-11h20		PL4:Dr. Francisco VALERO	Influence of promoter, copy number, operational mode and specific growth rate in the recombinant CRL1 production in <i>Pichiapastoris</i> cell factory		
11h20-12h00	PI.5:Prof.				
	12h00-13h15				
			2 Parallel Sessions		
	Oral Communications				
	Room 1: Green and Blue Biotechnology (GBBO 5-8)				
			Chairmen:		
12h00-12h15	GBBO5	Rania DJEMAL	Overexpression of TdSHN1 transcription factor from durum wheat improved abiotic stress tolerance of transgenic tobacco plants		
12h15-12h30	GBBO6	Ikram ZAIDI	The barley dehydrin 4 and stress tolerance: from gene to function		
12h30-12h45	GBBO7	Samia DALDOUL	Time-Course RNA-Seq analysis reveals transcriptional changes in roots of Tunisian wild grapevine (<i>Vitissylvestris</i>) in response to NaCl stress		
12h45-13h00	GBBO8	Nahida JELALI	Salicylic acid and H2O2 seed priming mediated induction of Fe deficiency tolerance in two Sulla carnosa cultivars		
		Room 2:	Red Biotechnology (RBO 5-9)		
			Chairmen:		
	RBO5	Sayda DHAOUADI	Single domain Antibody-based Strategy Targeting Tumor Microenvironment Biomarkers: Application for Solid Tumor		

12h00-12h15			Diagnosis		
12h15-12h30	RBO6	Asma ABUDABOUS	KRAS mutation profiling in colorectal cancer patients		
12h30-12h45	RBO7	Imene HANDOUS	Seroprevalence of human herpes virus infections 1-6 and 8 in leukemic patients before chemotherapy		
12h45-13h00	RBO8	Nawel TRABELSI	Usefulness of EMA-binding flow cytometric and Eryhtrocyte Membrane Protein Electrophoresis methods for the diagnosis of HereditarySpherocytosis		
13h00-14h30			Lunch		
	14h30-15h30: Poster discussion: All posters of the three Topics: -Green and Blue Biotechnology (GBBP 1-26) -White and Yellow Biotechnology (WYBP 1-13) -Red Biotechnology (BRP 1-17)				
	15h30-16h50: Plenary Lectures 6 and 7 (PL6 and PL7)				
15h30-16h10	15h30-16h10 PL6:Dr.SophienK AMMOUN Retooling the plant immune system towards improved disease resistance				
16h10-16h50	PL7: Prof. Moktar HAMDI PL7: Prof. Moktar HAMDI Innovative multitrophic bioreactors for the ecological organic wastes treatment without O ₂ supply and without CO ₂ release				
16h50-17h15	16h50-17h15 Tea & Coffee Breaks				
	17h 20-18h00: Plenary Lecture 8 (PL8) Chairmen:				
17h20-18h00	17h20-18h00 PL8: Prof. Khalid OUFDOU Field application of combined inoculation by rhizobacteria and mycorrhizae on growth and yield of wheat and faba bean				

	Monday March 18 th , 2019				
			8h30-9h30		
			2 Parallel Sessions		
			Oral Communications		
		Room 1: Green	and Blue Biotechnology (GBBO 9-12)		
	Chairmen:				
8h30-8h45	GBBO9	Nadia BOUKARI	Salicylic acid seed priming modulate hormonal changes in two ecotypes of Alfalfa under salinity, iron deficiency and their combined effect		
8h45-9h00	8h45-9h00 GBBO10 Mariem BRADAÏ The RSS1-PP1 pathway and its role in plant tolerance to abiotic stresses				
9h00-9h15	9h00-9h15 GBBO11 NajetGAMMOUDI Capsaicinoids in vitro production in placenta-derived callus of pepper (Capsicum annuum L.) under abiotic elicitation				

9h15-9h30	GBBO12	Sabrine JEDER	Effect of intercropping vine with alfalfa on the photosynthetic apparatus and the antioxidant enzyme system		
		Room 2: White a	and Yellow Biotechnology (WYBO 1-4)		
	Chairmen:				
8h30-8h45	WYBO1	Brigitta SAUL	The use of ATP to monitor microbial load in water samples		
8h45-9h00	WYBO2	Imen KHOUNI	Performance enhancement of enzymatic treatment of highly polluted edible oily wastewater produced from refinery processes via membrane filtration technology		
9h00-9h15	WYBO3	Fouad MENACEUR	Protective role of quercetin against the hepatotoxicity of two widely- used pesticides		
9h15-9h30	WYBO4	Besma SGHAIER- HAMMAMI	Novel low cost approach for crude Olive Oil Wastewater detoxification		
9h30-9h45		Tea & Coffee Breaks			
		9h50-11h: Plenar	ry Lectures 9-11 (PL9, PL10, and PL11) Chairmen:		
9h50-10h30		PL9: Dr. MengoniALESSIO	Toward an integrated and predictive view of symbiotic nitrogen fixation		
10h30-11h10		PL10:Monia EL BOUR	Probiotics as beneficial microbes in marine aquaculture		
11h10-11h50		PL11: Marco MORACCI	Discovery of hydrothermal vents for second carbohydrate active enzymes from hyperthermophiles populating generation biorefineries		
12h10-13h15			Lunch		
13h30 Departure for the Cart			re for the Carthage and SidiBouSaïdvillage Trip (Optional)		

	Tuesday March 19 th , 2019				
	8h30-10h00				
			2 Parallel Sessions		
		C	Oral Communications		
Room 1: Green and Blue Biotechnology (GBBO 13-18)					
	Chairmen:				
8h30-8h45	8h30-8h45 GBBO13 Dhouha BELHADJ SGHAIER Biochemical response in the halophyte Arthrocnemumindicum: Potential contribution for phytoremediation of arsenic and saline soil				

8h45-9h00	GBBO14	Wesam AL KHATEEB	Genetic diversity of bottle gourd (<i>Lagenariasiceraria</i> (Molina) Standl.) landraces of Jordan assessed by Agro-morphological traits and Inter simple sequence repeat markers
9h00-9h15	GBBO15	Oumèma NOURI- ELLOUZ	Somatic hybridization: a promising strategy for the improvement of potato production in Tunisia
9h15-9h30	GBBO16	NourCHIAB	Impact of the overexpression of the StDREB1 transcription factor on growth parameters, yields, and chemical composition of tubers generated from greenhouse and field grown potato plants
9h30-9h45	GBBO17	Sana KOUBAA	The Intrinsically Disordered LEA_4 Protein TdLEA3 from Wheat: Structural Properties and Enzyme Stabilization
9h45-10h00	GBBO18	KaoutharFEKI	Characterization and expression of a novel pathogenesis-related PR-10 protein of Phaseolus vulgaris
		Room 2: White an	d Yellow Biotechnology (WYBO 5-10)
			Chairmen:
8h30-8h45	WYBO5	Bassem JAOUADI	Physical and enzymatic properties of new fungal peroxidases for lignin and humic acid biodegradation and biodeterioration
8h45-9h00	WYBO6	Nadia ZARAÎ JAOUADI	Purification and biochemical characterization of a new fungal lignin peroxidase for lignin biodegradation and detergentformulations
9h00-9h15	WYBO7	Aïda HMIDA- SAYARI	Structure/function/properties relationships and application of a GH11 xylanase
9h15-9h30	WYBO8	Fatma ELGHARBI	A high-molecular-weight xylanase from <i>B. pumilus</i> US570 strain: purification and biochemical characterization
9h30-9h45	WYBO9	Noomen HMIDET	Simultaneous production of alkaline amylase and biosurfactant by Bacillus methylotrophicus DCS1: structural and biochemical characterization
9h45-10h00	WYBO10	Karima SALEM	Overexpression of a <i>Bacillus subtilis</i> amylase in <i>E. coli</i> and application in bread making
10h00-10h25			Tea & Coffee Breaks
		10h 30-11h50: Plena	ary Lectures 12 and 13 (PL12 and PL13)
			Chairmen:
10h30-11h10		PL12: Dr. Francisco J. PLOU	Novel trends in the enzymatic transformation of carbohydrates into value-added products for the food and nutraceutical industries
11h10-11h50		PL13: Dr.María J. HERNÁIZ	Green Solvents in Carbohydrate Chemistry

	12h00-13h00				
	2 Parallel Sessions				
	Oral Communications				
		Room 1: Green a	nd Blue Biotechnology (GBBO 19-22)		
			Chairmen:		
12h00-12h15	GBBO19	Hela SAFI	Molecular cloning and characterization of a novel lipid transfer protein, Tri tu 14, as a major allergen from <i>Triticum durum</i>		
12h15-12h30	GBBO20	AnasRAKLAMI	Impact of rhizobacteria consortium on growth and physiology of Medicago sativa under heavy metals stress		
12h30-12h45	GBBO21	Houda HADJ BRAIEK	Isolation and identification of chickpea pathogenic-fungi in Tunisia and biocontrol by PGPR bacteria		
12h45-13h00	GBBO22	Mariem SAMET	In vitro PGPR properties of different bacterial strains isolated from compost teas and their effects on growth and yield of potato plants in field condition		
		Room 2: White and	d Yellow Biotechnology (WYBO11-14)		
			Chairmen:		
12h00-12h15	WYBO11	Mouna SAHNOUN	Modifying Aspergillusoryzae S2 Amylase Substrate Specificity and Thermostability through its Tetramerisation		
12h15-12h30	WYBO12	Maroua OMRANE BENMRAD	Characterization of a novel detergent-stable protease from Penicilliumchrysogenium X5 and its application for textile fibres processing		
12h30-12h45	WYBO13	Emna MOUJEHED	Microbial Lipases as a degreasing agent in leather manufacturing: A comparative study		
12h45-13h00	WYBO14	Sawssan NEIFAR	A novel thermostable and efficient glucose isomerase Class II from the thermophilic Caldicoprobacteralgeriensis: Biochemical characterization, molecular investigation and its application in High Fructose Syrup production		
13h00-14h30			Lunch		
			14h30-15h30		
			2 Parallel Sessions		
	Oral communications				
		Koom 1: Green a	nd Blue Biotechnology (GBBO 23-26) Chairmen:		
14h30-14h45	GBBO23	Ramla KHIARI Potential of Vis-NIR hyperspectral imaging for the prediction of sugars, acidity and moisture content of raisins			
14h45-15h00	GBBO24	LoubnaCHAFKI	Effect of pomegranate bark extracts on the preservation of sheep meat		

15h00-15h15	GBBO25	Nouha	Monitoring of <i>Bacillus thuringiensis</i> (Bt) growth and sporulation: exploration and comparison of on-line and off-line measurements		
		ABDELMALEK			
15h15-15h30	GBBO26	Fatima NEHAL	Lactococcustactis Strain F-mouExopolysaccharide: High-Level Production, Characterization, and Antimicrobial Activity		
		Room 2: White and	d Yellow Biotechnology (WYBO15-17)		
			Chairmen:		
14h30-14h45	WYBO15	Rihab AMERI	Functional Metagenomics of the dromedary fecal microbiota to discover new genes involved in the plant cell wall degradation		
14h45-15h00	WYBO16	Olfa FRIKHA- GARGOURI	Comparative study of the antibacterial activity of Bacillusamyloliquefaciens strain 32a and Bacillus methylotrophicusstrain 39b against Agrobacterium tumefaciensplant pathogens		
15h00-15h15	WYBO17	Mouna JLIDI	Evaluation of bacteria of aquatic origin as fish probiotic in vitro		
		15h30-16h50: Plena	ry Lectures 14 and 15 (PL14 and PL15)		
		ı			
15h30-16h10		PL14:Dr. Jean- LucSIMON	Increase penicillin productivity by improving oxygen transfer thanks to the modification of the strain morphology		
16h10-16h30		PL15: Dr. Moez HANIN	Horizon 2020 program in Tunisia: challenges and opportunities		
16h30-16h50	16h30-16h50 Tea & Coffee Breaks				
	16h55-18h25				
		O	Oral Communications		
		Room 1: Green a	nd Blue Biotechnology (GBBO27-32)		
			Chairmen:		
16h55-17h10	GBBO27	CarloVITI	Poly lactic acid degradative capabilities of Amycolatopsis isolates		
17h10-17h25	GBBO28	Safae TANKIOUINE	Comparison of the adhesion of Staphylococcus aureus on the glass support treated with two types of UHT milk		
17h25-17h40	GBBO29	HananeAZZOUZI	Biochemical characterization of Moroccan clementine peels for industrial use		
17h40-17h55	GBBO30	Manar IBRAHIMI	Marine predatory actinobacteria: An Emerging potential against multidrug resistant bacteria		
17h55-18h10	GBBO31	Imen ZAGHBIB	Thermal stability of natural actomyosin extracted from sardine (Sardinapilchardus) muscle affects reactivity to cross-linking by microbial and sardine transglutaminases		
18h10-18h25	GBBO32	Hajer BOUGATEF	Fish by-products as raw material for the extraction of Chondroitin		

			sulfate/Dermatan sulfate: Structural characterization, Anti-DPP-IV and anti-prolylendopeptidase activities
20h00 Gala Dinner&Mus		Gala Dinner&Mus	sical Animation +Awards attribution for plenary speakers and best oral and poster communications

Wednesday March 20 th , 2019
10h00-11h30
Closing Ceremony
Departure