



The Centre of Biotechnology of Sfax

Organized the

International Symposium on Biotechnology

May 4th - 8th, 2008 Sfax - Tunisia

Proceedings book



The International Centre For Genetic Engineering and Biotechnology



Association for Development and Research in Immunology and Cancer



The University of Sfax



The Tunisian Union for Industry, Commerce and Handicrafts

Programme of the:
INTERNATIONAL SYMPOSIUM ON BIOTECHNOLOGY

ISB2008 SFAX, TUNISIA

4 - 8 May, 2008

Monday, May 5th

Session 1 Biotechnology for animal and human health and biopharmaceuticals	Session 2 Microbial and Environmental Biotechnology	Session 3 Agricultural, Food and Marine biotechnology	Satellite Session Innovative Biotechnology
9:00-10:00 : PC 2 10:00-10:30: TC1-S1 10:30-11:00: Coffee break 11:00-11:15: OC1S1 11:15-11:30 :OC2S1 11:30-11:45: OC3S1 11:45-12:00: OC4 S1 12:00-12:15: OC5 S1 12:15-12:30: OC6 S1 12:30-14:00: Lunch 14:00-15:00: Poster session 15:00-16:00 : PC 3 16:00-16:30:TC2-S1 16:30-17:00: Coffee break 17:00-17:15: OC7 S1 17:15-17:30: OC8 S1 17:30-17:45: OC9 S1 17:45-18:00: OC10 S1	9:00-10:00 : PC 2 10:00-10:30: TC1-S2 10:30-11:00: Coffee break 11:00-11:15: OC1S2 11:15-11:30 :OC2S2 11:30-11:45: OC3S2 11:45-12:00: OC4 S2 12:00-12:15: OC5 S2 12:15-12:30: OC6 S2 12:30-14:00: Lunch 14:00-15:00: Poster session 15:00-16:00 : PC 3 16:00-16:30:TC2-S2 16:30-17:00: Coffee break 17:00-17:15: OC7 S2 17:15-17:30: OC8 S2 17:30-17:45: OC9 S2 17:45-18:00: OC10 S2	9:00-10:00 : PC 2 10:00-10:30: TC1-S3 10:30-11:00: Coffee break 11:00-11:30: TC2-S3 11:30-11:45 :OC1S3 11:45-12:00: OC2S3 12:00-12:15: OC3S3 12:15-12:30: OC4 S3 12:30-12:45: OC5 S3 12:45-14:00: Lunch 14:00-15:00: Poster session 15:00-16:00 : PC 3 16:00-16:30:TC3-S3 16:30-17:00: Coffee break 17:00-17:15: OC6 S3 17:15-17:30: OC7S3 17:30-17:45: OC8 S3 17:45-18:00: OC9 S3	<ul style="list-style-type: none"> - Promembrane International conf. -Food safety & traceability -Nanobiotechnology - Biotechnology and Society (Bioethics, education in biotechnology) - Principles of Quality Management -Incubating innovations (Start-ups, Spin-offs) -Financing young innovative companies -From patent to profit: commercialising your research

Tuesday, May 6th

Session 1 Biotechnology for animal and human health and biopharmaceuticals	Session 2 Microbial and environmental Biotechnology (M E B)	Session 3 Agricultural, Food and Marine biotechnology	Satellite Session Innovative Biotechnology
9:00-10:00 : PC 4 10:00-10:30: TC3-S1 10:30-11 :00: Coffee break 11:00-11:15: OC11S1 11:15-11:30 :OC12S1 11:30-11: 45: OC13S1 11:45-12:00: OC14 S1 12:00-12:15: OC15 S1 12:15-12:30: OC16 S1 12:30-14:00: Lunch 14:00-15:00: Poster session 15:00-16:00 : PC 5 16:00-16:30:TC4-S1 16:30-17:00: Coffee break 17: 00-17:15: OC17 S1 17:15-17:30: OC18 S1 17:30-17:45: OC19 S1 17:45-18:00: OC20 S1	9:00-10:00 : PC 4 10:00-10:30: TC3-S2 10:30-11:00: Coffee break 11:00-11:15: OC11S2 11:15-11:30 :OC12S2 11:30-11: 45: OC13S2 11:45-12:00: OC14 S2 12:00-12:15: OC15 S2 12:15-12:30: OC16 S2 12:30-14:00: Lunch 14:00-15:00: Poster session 15:00-16:00 : PC 5 16:00-16:30:TC4-S2 16:30-17:00: Coffee break 17:00-17:15: OC17 S2 17:15-17:30: OC18 S2 17:30-17:45: OC19 S2 17:45-18:00: OC20 S2	9:00-10:00 : PC 4 10:00-10:30: TC4-S3 10:30-11:00: Coffee break 11:00-11:15: OC10S3 11:15-11:30 :OC11S3 11:30-11: 45: OC12S3 11:45-12:00: OC13S3 12:00-12:15: OC14 S3 12:15-12:30: OC15 S3 12:30-14:00: Lunch 14:00-15:00: Poster session 15:00-16:00 : PC 5 16:00-16:30:TC5-S3 16:30-17:00: Coffee break 17: 00-17:15: OC16 S3 17:15-17:30: OC17S3 17:30-17:45: OC18 S3 17:45-18:00: OC19 S3	<ul style="list-style-type: none"> - Promembrane International conf. -Food safety & traceability -Nanobiotechnology - Biotechnology and Society (Bioethics, education in biotechnology) - Principles of Quality Management -Incubating innovations (Start-ups, Spin-offs) -Financing young innovative companies -From patent to profit: commercialising your research

Wednesday, May 7th

Session 1 Biotechnology for animal and human health and biopharmaceuticals	Session 2 Microbial and environmental biotechnology (M E B)	Session 3 Agricultural, Food and Marine biotechnology	Satellite Session Innovative Biotechnology
9:00-10 :00 : PC 6 10:00-10:30: TC5-S1 10:30-11:00: Coffee break 11:00-11:15: OC21S1 11:15-11:30 :OC22S1 11:30-11: 45: OC23S1 11:45-12:00: OC24 S1 12:00-12:15: OC25 S1 12:15-12:30: OC26 S1 12:30-14:00: Lunch 14:00-15:00: Poster session 15:00-16:00 : PC 7 16:00-16:30:TC6-S1 16:30-17:00: Coffee break 17: 00-17:15: OC27 S1 17:15-17:30: OC28 S1 17:30-17:45: OC29 S1 17:45-18:00: OC30 S1	9:00-10:00 : PC 6 10:00-10:30: TC5-S2 10:30-11:00: Coffee break 11:00-11:30: TC6-S2 11:30-11:45 :OC21 S2 11:45-12: 00: OC22 S2 12:00-12:15: OC23 S2 12:15-12:30: OC24 S2 12:30-12:45: OC25 S2 12:45-13:00: OC26 S2 13:00-14:00: Lunch 14:00-15:00: Poster session 15:00-16:00: PC 7 16:00-16:30:TC7-S2 16:30-17:00: Coffee break 17: 00-17:30: TC8-S2 17:30-17:45: OC27 S2 17:45-18:00: OC28 S2 18:00-18:15: OC29 S2 18:15-18:30: OC30 S2	9:00-10:00 : PC 6 10:00-10:30: TC6-S3 10:30-11:00: Coffee break 11:00-11:15: OC20S3 11:15-11:30 :OC21S3 11:30-11: 45: OC22S3 11:45-12:00: OC23S3 12:00-12:15: OC24 S3 12:15-12:30: OC25 S3 12:30-14:00: Lunch 14:00-15:00: Poster session 15:00-16:00 : PC 7 16:00-16:30:TC7-S3 16:30-17:00: Coffee break 17: 00-17:15: OC26 S3 17:15-17:30: OC27S3 17:30-17:45: OC28 S3 17:45-18:00: OC29 S3	- Promembrane International conf. -Food safety & traceability -Nanobiotechnology - Biotechnology and Society (Bioethics, education in biotechnology) - Principles of Quality Management -Incubating innovations (Start-ups, Spin-offs) -Financing young innovative companies -From patent to profit: commercialising your research

Thursday, May 8th

Session 1 Biotechnology for animal and human health and biopharmaceuticals	Session 2 Microbial and environmental biotechnology (M E B)	Session 3 Agricultural, Food and Marine biotechnology	Satellite Session Innovative Biotechnology
<p>9:00-10:00 : PC8 10:00-10:30: TC7-S1 10:30-11:00: Coffee break 11:00-11:15: OC31 S1 11:15-11:30 :OC32 S1 11:30-11: 45: OC 33 S1 11:45-12:00: OC 34 S1 12:00-12:15: OC 35 S1 12:15-12:30: OC 36 S1 12:30-12:45: OC 37 S1 12:45-13:00: OC 38 S1</p> <p>12:45-13:15:closing Ceremony 13:15-14:45: Lunch 15:00- Touristic trip</p> <p>20:00- Dinner-Ceremony</p>	<p>9:00-10:00 : PC8 10:00-10:30: TC9-S2 10:30-11:00: Coffee break 11:00-11:30: TC10-S2 11:30-11:45: OC 31 S2 11:45-12:00: OC 32 S2 12:00-12:15: OC 33 S2 12:15-12:30: OC 34 S2 12:30-12:45: OC 35 S2</p> <p>12:45-13:15:closing Ceremony 13:15-14 :45: Lunch 15:00-Touristic trip</p> <p>20:00- Dinner-Ceremony</p>	<p>9:00-10:00 : PC8 10:00-10:30: TC8-S3 10:30-11:00: Coffee break 11:00-11:30 : TC9-S3 11:30-11: 45: OC 30S3 11:45-12:00: OC 31S3 12:00-12:15: OC 32 S3 12:15-12:30: OC 33 S3 12:30-12:45: OC 34 S3</p> <p>12:45-13:15:closing Ceremony 13:15-14:45: Lunch 15:00-Touristic trip</p> <p>20:00- Dinner-Ceremony</p>	<p>- Promembrane International conf.</p> <p>-Food safety & traceability</p> <p>-Nanobiotechnology</p> <p>- Biotechnology and Society (Bioethics, education in biotechnology)</p> <p>- Principles of Quality Management</p> <p>-Incubating innovations (Start-ups, Spin-offs)</p> <p>-Financing young innovative companies</p> <p>-From patent to profit: commercialising your research</p>

- **PC:** Plenary Conference
- **TC:** Session Conference
- **OC:** Oral Communication
- **Satellite Session:** Economic and Biosafety aspects of Biotechnology:
 - Start-ups, Spin-offs
 - Biosafety
 - Principles of Quality Management
 - Biotechnology and Society
 - Education in Biotechnology

800 participants from 32 countries

- ↓ 107 Oral Communications
- ↓ 26 Session Conferences
- ↓ 08 Plenary Conferences
- ↓ 540 Posters

PROGRAMME OF ISB2008

Plenary Conferences:

Sunday, May 4th

18:00-19:00: Chairpersons: Pr. A. El Abed [Loaded of Mission to the Prime Minister]
Pr. H. Ben Dhia [President of the University of Sfax]
& Pr. R. Ellouz [Centre of Biotechnology of Sfax- CBS]

PC1: Pr. Daniel THOMAS, University of Technology of Compiègne (UTC), France

Title: " **BIOREFINERY- Biotechnology for the conversion of biomass into biomolecules, biomaterials and biofuels.**"

Monday, May 5th

09:00-10:00: Chairperson: Pr. H. Ayadi [Director General of the CBS]

PC2: Pr. Hechmi LOUZIR, Pasteur Institute of Tunis

Title: " Immunology of human leishmaniasis: challenges for vaccine development"

15:00-16:00: Chairperson: Pr. S. Jaoua [CBS]

PC3: Pr. Brian FEDERRICI, University of California, USA

Title: " **Basic Biology and Genetic Engineering of *Bacillus thuringiensis***"

Tuesday, May 6th

9:00-10:00: Chairperson: Pr. S. Hamon [IRD Montpellier]

PC4: Pr. Martin PARRY, Centre for Crop Genetic Improvement, UK

Title: " **Integrated Approaches to Wheat Improvement under drought.**"

15:00-16:00: Chairperson: Pr. S. Abdelhak [Pasteur Institute of Tunis]

PC5: Pr. Hitoshi MIYAZAKI, ARENA, Tsukuba University, Japan

Title: " **Effects of Olive Leave Compounds on the Functions of Vasculature and Ovary.** "

Wednesday, May 7th

9:00-10:00: Chairperson: Pr. A. Gargouri [CBS]

PC6: Pr. David HOPWOOD, John Innes Centre, UK

Title: " **Using Microbial Genetics to Find and Develop New Antibiotics.**"

15:00-16:00: Chairperson: Pr. S. Sayadi [CBS]

PC7: Pr. Christine PETIT, Pasteur Institute, France

Title: " **Human Hereditary Deafness: from genes to pathogenesis and beyond.**"

Thursday, May 8th

09:00-10:00: Chairperson: Pr. H. Makni [Faculty of Medicine of Sfax]

PC8: Pr. S. Chauhan VIRANDER., ICGEB, India

Title: " **Development of Malaria Vaccine: Current Scenario**"

Session Conferences:

Monday, May 5th

10:00-10:30: TC1-S1: Pr. Takashi KURIKI, Biochem.Res.Lab., Ezaki Glico Co., Japan

Title: **“Relationship between Structure and Immunostimulating Activity of Enzymatically Synthesized Glycogen”**

Chairpersons: Pr. F. Fakhfakh [Faculty of Medicine of Sfax] & Pr. C. Granier [CNRS FRE Montpellier]

10:00-10:30 : TC1-S2: Pr. Hidetaka HORI , University of Niagata, Japan

Title: **“Recycle of waste /sludge from food industry and live stock feces for compost”**

Chairpersons: Pr. S. Jaoua [CBS] & Pr. M. Potts [Virginia Tech.]

10:00-10:30: TC1-S3: Pr. Emmanuel GUIDERDONI , CIRAD, France

Title: **“Rice Mutant Resources for Deciphering Developmental and Adaptive Processes”**

11:00-11:30: TC2-S3: Pr. Juan FERRE, University of Valencia, Spain

Title: **“Basis of resistance to *Bacillus thuringiensis* toxins in Lepidoptera ”**

Chairpersons: Pr. N. Marrakchi [Pasteur Institute of Tunis] & Pr. M. Mathlouthi [Faculty of Science, Reims]

16 :00-16:30: TC2-S1: Pr. Mauro GIACCA, ICGEB, Italy

Title: **“ Gene and cell therapy for cardiovascular disorders”**

Chairpersons: Pr. A. Hammami [Faculty of Medicine of Sfax] & Pr. M. Takahiro [University of Tsukuba, Japan]

16:00-16:30: TC2-S2: Pr. Malcolm POTTS, Virginia Tech, USA and Qatar University

Title: **“Roof Biofilm: A Unique Biotechnological Resource”**

Chairpersons: Pr. N. Zouari [CBS] & Pr. Y. T. Gargouri [ENIS]

16:00-16:30: TC3-S3: Pr. Gerald BERKOWITZ ., University of Connecticut, USA

Title: **“Mechanisms mediating Ca²⁺ involvement in pathogen perception, programmed cell death and plant innate immunity”**

Chairpersons: Pr. A. Ghorbel [CBBC] & E. Bonnin [INRA, France]

Tuesday, May 6th

10:00-10:30: TC3-S1: Dr. Balkis BOUHAOUALA, Pasteur Institute of tunis , Tunisia

Title: **“From classical antibody based immunotherapy to engineered nanobodies”**

Chairpersons: Pr. R. Gargouri [CBS] & Pr. M. Aouni [Faculty of Pharmacy of Monastir]

10:00-10:30 TC3-S2: Pr. Samir BEJAR , CBS, Tunisia

Title: **“Two original isomerases involved in low caloric sugar production: Screen, characterization, cloning, study of structure function relationship, improvement and application.”**

Chairpersons: Pr. S. Ellouz-Chaâbouni [ENIS] & Pr. H. Mejdoub [Faculty of Science of Sfax]

10:00-10:30 TC4-S3: Pr. Khaled MASMOUDI, CBS, Tunisia

Title: **“Functional characterization of genes involved in drought and salinity tolerance in plants”**

Chairpersons: R. Gargouri Bouzid [ENIS] & Pr. J. Ferre [University of Valencia Spain]

16:00-16:30:TC4-S1: Pr. M. PARKER IQBAL, National Research Center, Egypt

Title: **“Gene-Environment Interactions in Oesophageal Cancer in South Africa”**

Chairpersons: Pr F. Hentati [Faculty of Medicine of Tunis] & Pr. A. Ghorbel [Faculty of Medicine of Sfax]

16:00-16:30:TC4-S2: Pr. Gerhard SCHORIES , TTZ, Germany

Title: **“lignocellulosic co-substrates for anaerobic digestion of agricultural wastes and energy crops (Project AGROBIOGAS)”**

Chairpersons: Pr. A. Cornet [IRD France] & Pr. M. Hamdi [INSAT]

16:00-16:30:TC5-S3: Pr. Estelle BONNIN, INRA, France

Title: **“Extraction of “green labelled” pectin from plant by-products”**

Chairpersons: Pr S. Bejar [CBS] & Pr. C. Franche [IRD, Montpellier]

Wednesday, May 7th

10:00-10:30 TC5-S1: Pr. Salem CHOUAIEB, INSERM, France

Title: **“tumor resistance to specific lysis : a major hurdle for successful immunotherapy of cancer”**

Chairpersons: Pr. M. ElAyeb [Pasteur Institute of Tunis] & Pr. A. Bartegi [Higher Institute of Biotechnology of Monastir]

10:00-10:30 TC5-S2: Pr. Abdellatif BOUDABBOUS , FST, Tunisia

Title: **“Bacterial species, reality or mirage”?**

11:00-11:30:TC6-S2: Pr J. A. C. ARCHER, Dep. Genetics. Univ. Cambridge , UK

Title: **“Building of Genomics led green chemistry for industrial biotechnology**

Chairpersons: Pr. M. Nasri [ENIS] & Pr. A. Dhouib [CBS]

10:00-10:30 TC6-S3: Pr. Claudine FRANCHE, IRD, France

Title: **“Genetic transformation of forest trees”**

Chairpersons: Pr. S. Hamon [IRD, Montpellier] & Pr. F. Molina [CNRS, France]

16:00-16:30:TC6-S1: Pr. Suad AL FADHLI, Faculty of Allied Health sciences, Kuwait

Title: **“Susceptibility genes for Systemic Lupus Erythematosus in the Kuwaiti population”**

Chairperson: Pr. J. Hachicha [Faculty of Medicine of Sfax] & Pr. L. Keskes [Faculty of Medicine of Sfax]

16:00-16:30:TC7-S2: Pr. Nidhal HILAL , Centre for Clean Water Technologies, UK

Title: **“Quantification of (bio) interactive forces at the nano-scale”**

17:00-17:30:TC8-S2: Pr. Jean Luc THOLOZAN

Title: **“Extremophylic anaerobic bacteria: Characterization, ecology and potential applications”**

Chairpersons: Pr. H. Belguith [CBS] & Pr. M. Labat [IRD Marseille]

16:00-16:30:TC7-S3: Pr. Frank MOLINA, CNRS, France

Title: **“BaSysBio, a systems biology approach for Bacillus Subtilis modelling”**

Chairpersons: Pr. N. Drira [Faculty of Science of Sfax] & R. Frutos [CIRAD Montpellier]

Thursday, May 8th

10:00-10:30 TC7-S1: Pr. Ahmed REBAI , CBS, Tunisia

Title: **“Computational biology approaches help in understanding cancer”**

Chairpersons: Pr. S. Masmoudi [CBS] & Pr. A. Martial [Institut Français de Coopération Tunis]

10:00-10:30 TC9-S2: Pr. Richard HASER, CNRS, France

Title: **“News from sugar-converting enzymes: from structures towards catalysis and synthesis of attractive oligosaccharides”**

11:00-11:30 TC10- S2: Pr. Mohamed AMAR, CNRST, Morocco

Title: **"Biological Resource Centres for Bioeconomy in Developing Countries"**

Chairpersons: Pr. N. Gharsallah [Faculty of Science of Sfax] & Pr. S. Maâlej [Faculty of Science of Sfax]

10:00-10:30 TC8-S3: Pr. Nouredine DRIRA, FSS, Tunisia

Title: **"Biotechnologie et déterminisme du sexe chez les végétaux supérieurs"**

11:00-11:30 TC9-S3: Pr. Mahmoud SAKER, National Research Center, Egypt

Title: **“Plant Biotechnology in Egypt: Current Status and Future Scenarios”**

Chairperson: Pr M. N. Marzouki [INSAT]& Pr. K. Masmoudi [CBS]

SESSIONS PROGRAMME

Sunday, May, 4th 2008

09:00-15:00: Registration

16:00-18:00: Opening Ceremony

18:00-19:00: Chairpersons: Pr. A. El Abed [Loaded of Mission to the Prime Minister]
Pr. H. Ben Dhia [President of the University of Sfax]
& Pr. R. Ellouz [Centre of Biotechnology of Sfax- CBS]

Plenary Conference 1 (PC1): Pr. Daniel Thomas, University of Technology of Compiègne, France

Conference title: "BIOREFINERY- Biotechnology for the conversion of biomass into biomolecules, biomaterials and biofuels"

SESSION 1: BIOTECHNOLOGY FOR HUMAN HEALTH

Monday, May 5th

09:00-10:00: Chairperson: Pr. H. Ayadi [Director General of the CBS]

PC 2: Pr. Hechmi LOUZIR "Immunology of human leishmaniasis: challenges for vaccine development"

10:00-12:30: Chairpersons: Pr. F. Fakhfakh [Faculty of Medicine of Sfax] & Pr. C. Granier [CNRS FRE Montpellier]

10 :00-10 :30: TC1-S1: Pr. Takashi KURIKI "Relationship between Structure and Immunostimulating Activity of Enzymatically Synthesized Glycogen"

10:30-11:00: Coffee break

11:00-11:15: OC1 S1 : Imène TURKI "Development of a Genetically Fused Recombinant Antibody Fragment–Green Fluorescent Protein Conjugate for Rabies Virus Diagnosis"

11:15-11:30: OC2 S1: Maria KABBAGE "HSP 27, PDI and PPI Are Dysregulated in both Female and Male Breast Infiltrating Ductal Carcinomas (IDCA): An IEF/NEPHGE-2-DE- MS investigation"

11:30-11: 45: OC3 S1: Jenan AL-MATOUQ "Pattern of Expression of Triiodothyronine , Somatostatin hormone Receptors, and 5` Deiodinase in different Breast Pathologies versus Normal and Lactational tissues"

11:45-12:00: OC4 S1: Jihène ELLOUMI "EGFR expression in *E.coli*: N and C-termini truncation"

12 :00-12:15: OC5 S1: Imen MILADI-ABDENNAD:ER "Aberrant CpG island hypermethylation of multiple genes in colorectal neoplasia"

12:15-12:30: OC6 S1: Sondes KARRAY-CHOUAYEKH "DNA hypermethylation in breast cancer and its association with clinicopathological features"

12:30-14:00: Lunch

14:00-15:00: Poster session

15:00-16:00: Chairperson: Pr. S. Jaoua [CBS]

PC 3: Pr. Brian FEDERICI "Basic Biology and Genetic Engineering of *Bacillus thuringiensis*"

16:00-18:00: Chairpersons: Pr. A. Hammami [Faculty of Medicine of Sfax] & Pr. M. Takahiro [University of Tsukuba, Japan]

16:00-16:30:TC2-S1: Pr. Mauro GIACCA " Gene and cell therapy for cardiovascular disorder"

16:30-17:00: Coffee break

17: 00-17:15: OC7 S1: Saima SADAF "High-level expression and production of bubaline somatotropin in *Escherichia coli*"

17:15-17:30: OC8 S1: Sofiene BEZZINE "Overview on phospholipase A2 and involvement in inflammation"

17:30-17:45: OC9 S1: Zihni DEMIRBAG "Molecular analysis of Chilo iridescent virus (CIV) genes belong to three temporal classes"

17:45-18:00: OC10 S1: Saloua LASSOUED "In vitro Analysis of the oxidative profile in Epstein-Barr virus target cells during the early stages of infection and after lytic cycle induction"

Tuesday, May 6th

9:00-10:00 : Chairperson: Pr. S. Hamon [IRD Montpellier]

PC 4: Pr. **Martin PARRY** "Integrated Approaches to Wheat Improvement under drought"

10:00-12:30: Chairpersons: Pr. R. Gargouri [CBS] & **Pr. M. Aouni** [Faculty of Pharmacy of Monastir]

10:00-10:30: TC3-S1: Dr. **Balkis BOUHAOUALA** "From classical antibody based immunotherapy to engineered nanobodies"

10:30-11:00: Coffee break

11:00-11:15: OC11 S1: **Imen HADJI SFAXI** "Characterization of Superoxide Dismutase Iso-enzymes From *Allium sativum*. Effects on Tumor Cell Lines"

11:15-11:30 :OC12 S1: **Salma ABDELMOULA-SOUISSI** "High-level expression of human tumour suppressor P53 in the methylotrophic yeast: *Pichia pastoris*"

11:30-11:45: OC13 S1: **Ines Zidi** "Importance of HLA-G regulation by TNF- α and glucocorticoids in treatment of cancer"

11:45-12:00: OC14 S1: **Sarrah M'BAREK** "Solid phase synthesis, a biotechnological approach for structure-activity relationships of scorpion toxins : Innovative strategy of chemical synthesis of a Maurotoxin with Constrained Standard Disulfide Bridging"

12:00-12:15: OC15 S1: **M'hamed GRATI** "Molecular Analysis of USH genes in a large cohort of Usher type I, II and III patients shows the importance of MYO7A and USH2A implication"

12:15-12:30: OC16 S1: **Imen BEN REBEH** "Localization of candidate regions for a novel gene for Usher II syndrome"

12:30-14:00: Lunch

14:00-15:00: Poster session

15:00-16:00 : Chairperson: Pr. S. Abdelhak [Pasteur Institute of Tunis]

PC5: Pr. **Hitoshi MIYAZAKI** " Effects of Olive Leave Compounds on the Functions of Vasculature and Ovary"

16:00-18:00: Chairpersons: Pr F. Hentati [Faculty of Medicine of Tunis] & **Pr. A. Ghorbel** [Faculty of Medicine of Sfax]

16:00-16:30: TC4-S1: Pr. **M. PARKER IQBAL** "Gene-Environment Interactions in Oesophageal Cancer in South Africa"

16:30-17:00: Coffee break

17:00-17:15: OC17 S1: **Hassen HADJ KACEM** "The PDS gene expression in different pathological thyroid tissues"

17:15-17:30: OC18 S1: **Salah LAROU** "Genetic polymorphism of the Hyperhomocysteinemia with Valvulopatients in the region of Aures in the East of Algeria"

17:30-17:45: OC19 S1: **Olfa Siala-Sahnoun** "First successful prenatal diagnoses of MDC1A and LGMD2C forms in Tunisia and in Africa"

17:45-18:00: OC20 S1: **Basma Hadj Kacem** "A novel nonsense mutation (at Ser23) in GPIIb β gene affects GPIIb-IX complex expression in two Tunisian Bernard-Soulier Syndrome unrelated families"

Wednesday, May 7th

9:00-10:00: Chairperson: Pr. A. Gargouri [CBS]

PC6: Pr. David HOPWOOD "Using Microbial Genetics to Find and Develop New Antibiotics"

10:00-12:15: Chairpersons: Pr. M. ELAyeb [Pasteur Institute of Tunis] & Pr. A. Bartegi [Higher Institute of Biotechnology of Monastir]

10:00-10:30: TC5-S1: Pr. Salem CHOUAIEB "tumor resistance to specific lysis : a major hurdle for successful immunotherapy of cancer"

10:30-11:00: Coffee break

11:00-11:15: OC21 S1: Laurence Molina "The inter-individual variability of the human urinary proteome assessed by 2D electrophoresis analysis"

11:15-11:30 :OC22 S1: Olfa Frikha-Gargouri "Comparison of an in house ELISA test and the pELISA MEDAC for the detection of Chlamydia trachomatis IgG antibodies in Danish woman seeking abortion"

11:30-11:45: OC23 S1: Riadh BEN MANSOUR "Oxidative stress in Systemic lupus erythematosus and rheumatoid arthritis and its relationship with autoantibodies production"

11:45-12:00: OC24 S1: Walid AL ACHKAR "CML Profile in Syria"

12:00-12:15: OC25 S1: Jos VAN PELT "the application of gene expression array and bioinformatics to investigate molecular mechanisms of liver disease"

12:30-14:00: Lunch

14:00-15:00: Poster session

15:00-16:00 : Chairperson: Pr. S. Sayadi [CBS]

PC7: Pr. Christine PETIT " Human Hereditary Deafness : from genes to pathogenesis and beyond"

16:00-18:00: Chairperson: Pr. J. Hachicha [Faculty of Medicine of Sfax] & Pr. L. Keskes [Faculty of Medicine of Sfax]

16:00-16:30: TC6-S1: Pr. Suad AL FADHLI: "Susceptibility genes for Systemic Lupus Erythematosus in the Kuwaiti population"

16 :30-17:00: Coffee break

17:00-17:15: OC27 S1: P. BILLIALD "Recombinant antibodies: Towards a new generation of antivenoms?"

17:15-17:30: OC28 S1: Rym BENKHALIFA "Electrophysiological Strategy for Ion Channel Drug Discovery"

17:30-17:45: OC29 S1: Shoukat PARVEZ "Co-culturing of *Bifidobacterium bifidum* Enhanced Bile Salt Hydrolase Activity in Media"17 h30-

17:45-18:00: OC30 S1: Olfa KALLECH-ZIRI "Chemical synthesis of lebestatin, an anti-angiogenic disintegrin, and its analogues. Structure-activity relationship"

Thursday, May 8th:

09:00-10:00 : Chairperson: Pr. H. Makni [Faculty of Medicine of Sfax]

PC8: Pr. S. CHAUHAN VIRANDER “Development of Malaria Vaccine: Current Scenario”

10:00-12:45: Chairpersons: Pr. S. Masmoudi [CBS] & **Pr. A. Martial** [Institut Français de Coopération Tunis]

10:00-10:30: TC7-S1: **Pr. Ahmed REBAI** “computational biology approaches help in understanding cancer”

10:30-11:00: Coffee break

11:00-11:15: OC31 S1: **Marie-Paule LEFRANC** “IMGT®: a paradigm for genetics, genome and 3D structure data integration towards Systems Biology”

11:15-11:30: OC32 S1: **Yaqoub ASHHAB** “Developing a Powerful Bioinformatics Tool for Prediction of Caspase 3 Substrate: Preliminary Analysis of the Human Proteome”

11:30-11:45: OC33 S1: **Gregory NUEL** “Taking into account missing genotypes and errors in Family Based Association Testing using an Expectation-Maximization framework”

11:45-12:00: OC34 S1: **Mohamed Mahmoud SOWILEM** “Utilization of GIS and Space data in assessment of vector borne diseases and appropriate bio-control measures”

12:00-12:15: OC35 S1: **Imen KALLEL** “Screening of pro-apoptotic activity of pure molecules and extract derived from medicinal plant on breast cancer cell lines”

12:15-12:30: OC36 S1: **Olga KOVALCHUK** “Small RNAs can solve large problems: alteration in microRNA levels can reverse breast cancer chemoresistance resistance”

12:30-12:45: OC37 S1: **Rim CHATTER** “Novel analgesic and anti-inflammatory brominated diterpenoid from red algae genus *Laurencia*”

12:45-13:00: OC38 S1: **Dr Soroush SADARI**

12:45-13:15: Closing ceremony

13:15-14:45: Lunch

15:00- Touristic trip

20:00 Dinner-Ceremony

SESSION 2: MICROBIAL AND ENVIRONMENTAL BIOTECHNOLOGY

Monday, May 5th

9:00-10:00: Chairperson: Pr. H. Ayadi [Director General of the CBS]

PC 2: **Pr. Hechmi LOUZIR** "Immunology of human leishmaniasis: challenges for vaccine development"

10:00-12:30: Chairpersons: Pr. S. Jaoua [CBS] & **Pr. M. Potts** [Virginia Tech.]

10:00-10:30: TC1-S2: Pr. Hidetaka HORI "Recycle of waste /sludge from food industry and live stock feces for compost"

10:30-11:00: Coffee break

11:00-11:15: OC1S2: Nushin AGHAJARI "Structural- and mutagenesis studies give insights into sucrose isomerization"

11:15-11:30 :OC2S2: Ena ALBA "treatment for bioremediation of olive oil mill wastewater"

11:30-11:45: OC3S2: Fatma DRISS "Enhancement of the insecticidal activity of a *Bacillus thuringiensis* subsp. kurstaki strain via the production of chitinase-containing crystals"

11:45-12:00: OC4 S2: Sonia JEMLI "The α -cyclodextrin glycosyltransferase of *Paenibacillus pabuli* US132: characterization, cloning and overproduction of the recombinant enzyme"

12:00-12:15: OC5 S2: Ines MAALEJ "Purification, biochemical characterisation and immobilization of a xylanase of a thermophilic fungus"

12:15-12:30: OC6 S2: Sami MNIF "Isolation and characterization of *Halomonas* sp. strain C2SS100, an hydrocarbon degrading bacterium under hypersaline conditions"

12:30-14:00: Lunch

14:00-15:00: Poster session

15:00-16:00 : Chairperson: Pr. S. Jaoua [CBS]

PC3: **Pr. Brian FEDERICI** "Basic Biology and Genetic Engineering of *Bacillus thuringiensis*"

16:00-18:00: Chairpersons: Pr. N. Zouari [CBS] & **Pr. Y. T. Gargouri** [ENIS]

16:00-16:30: TC2-S2: Pr. Malcolm POTTS "Roof Biofilm: A Unique Biotechnological Resource"

16:30-17:00: Coffee break

17:00-17:15: OC7 S2: Hamed Mohammed EL-SHORA "Immobilization and modification of laccase from *Bacillus thuringiensis* is promising for enzymatic removal and decontamination of phenolic compounds from polluted water systems"

17:15-17:30: OC8 S2: El Akrem HAYOUNI "Multiparametric flow cytometry, a powerful tool for the assessment of the mechanism of action of *Melaleuca armillaris* (Sol. Ex Gaertn) Sm. essential oil, on six LAB strains"

17:30-17:45: OC9 S2: Abdelmalek BADIS "Characterization and biodegradation of humic acids extracted from different soil of Algeria: selection of performance microbial strains and optimisation of culture conditions"

17:45-18:00: OC10 S2: Wissem MNIF "Occurrence of endocrine disrupting activity in Tunisian sewage treatment plants"

Tuesday, May 6th

9:00-10:00 : Chairperson: Pr. S. Hamon [IRD Montpellier]

PC 4: Pr. **Martin PARRY** "Integrated Approaches to Wheat Improvement under drought"

10:00-12:30: Chairpersons: Pr. S. Ellouz-Chaâbouni [ENIS] & **Pr. H. Mejdoub** [Faculty of Science of Sfax]

10:00-10:30: TC3-S2: Pr. **Samir BEJAR** "Two original isomerases involved in low caloric sugar production: Screen, characterization, cloning, study of structure function relationship, improvement and application."

10:30-11:00: Coffee break

11:00-11:15: OC11 S2: **Jean-Jacques GODON** "Unstable environment enhanced ecological resilience in anaerobic digestors"

11:15-11:30: OC12 S2: **José DUARTE** "new bioreactor for ethanol production with flocculent yeast"

11:30-11:45: OC13 S2: **Mireille KALLASSY-AWAD** "Novel isolates of *Bacillus thuringiensis* strains presenting a polymorphism of cry1A genes with difference of in vivo activity"

11:45-12:00: OC14 S2: **Samiha SIOUD MEDDEB** "Detection of the biosynthesis pathway of a DKP active molecule produced by the new isolated *Streptomyces* sp.US24 strain"

12:00-12:15: OC15 S2: **Walid SAIBI** " Purification and biochemical characterization of a transglucosylating β -glucosidase of *Stachybotrys* strain"

12:15-12:30: OC16 S2: **Mohamed CHAMKHA** "Biodiversity of aerobic bacteria from a Tunisian high-temperature oil field and biodegradation potential of some aromatic compounds and hydrocarbons"

12:30-14:00: Lunch

14:00-15:00: Poster session

15:00-16:00 : Chairperson: Pr. S. Abdelhak [Pasteur Institute of Tunis]

PC 5: Pr. **Hitoshi MIYAZAKI** " Effects of Olive Leave Compounds on the Functions of Vasculature and Ovary"

16:00-18:30: Chairpersons: Pr. A. Cornet [IRD France] & **Pr. M. Hamdi** [INSAT]

16:00-16:30: TC4-S2: Pr. **Gerhard SCHORIES** "lignocellulosic co-substrates for anaerobic digestion of agricultural wastes and energy crops (Project AGROBIOGAS)"

16:30-17:00: Coffee break

17:00-17:15: OC17 S2: **Abdelkader BEKKI** "Rhizobia-leguminous symbiosis: Diversity and biotechnology application"

17:15-17:30: OC18 S2: **Layla BEN AYED** "Detection of *Cryptosporidium* oocysts and *Giardia* cysts from sewage and sludge samples in Tunisia"

17:30-17:45: OC19 S2: **Raja REZGUI** "Phylogenetic characterisation and metabolic potentialities of original bacteria isolated from a South Tunisian deep subterrestrial petroleum environment"

17:45-18:00: OC20 S2: **Sabiha ACHAT** "Antibacterial activity (*in vitro*) of phenolic extract of three medicinal plants sage, celery and laurel"

Wednesday, May 7th

09:00-10:00 : Chairperson: Pr. A. Gargouri [CBS]

PC 6: Pr. David HOPWOOD "Using Microbial Genetics to Find and Develop New Antibiotics"

10:00-12:30: Chairpersons: Pr. M. Nasri [ENIS] & Pr. A. Dhouib [CBS]

10:00-10:30: TC5-S2: Pr. Abdellatif BOUDABBOUS "Bacterial species, reality or mirage"?

10:30-11:00: Coffee break

11:00-11:30: TC6-S2: Pr. J. A. C. ARCHER "Building of Genomics led green chemistry for industrial biotechnology"

11:30-11:45: OC21 S2: Kais JAMOSSI "Heterologous expression of the B. thuringiensis vegetative insecticidal protein Vip3LB in *Photobacterium* temperata strain K122 and oral toxicity against the Lepidoptera *Ephesia kuehniella* and *Spodoptera littoralis*"

11:45-12:00 :OC22 S2: Fakher KAMOUN "Purification, Biochemical Characterization and Genes Identification of New *Bacillus thuringiensis* Bacteriocins"

12:00-12:15: OC23 S2: Bassem JAOUADI "Novel oxidant- surfactant- and bleach-stable serine alkaline protease from a newly isolated *Bacillus pumilus* CBS strain: biochemical and molecular characterization"

12:15-12:30: OC24 S2: Ameny FARHAT "Gene cloning and characterization and of a novel thermostable phytase from *Bacillus subtilis* US417"

12:30-12:45: OC25 S2: Ines BORGHI "A spontaneous direct repeat deletion in the P_{gex} fusion vector decreases the expression level of recombinant proteins in *E. coli*"

12 :45-13:00: OC26 S2: Zouhaier BOUALLAGUI "Hydroxytyrosol recovery through microbial transformation"

13:00-14:00: Lunch

14:00-15:00: Poster session

15:00-16:00 : Chairperson: Pr. S. Sayadi [CBS]

PC 7: Pr. Christine PETIT " Human Hereditary Deafness : from genes to pathogenesis and beyond"

16:00-18:30: Chairpersons: Pr. H. Belguith [CBS] & Pr. M. Labat [IRD Marseille]

16:00-16:30: TC7-S2: Pr. Nidhal HILAL "Quantification of (bio) interactive forces at the nano-scale"

16:30-17:00: Coffee break

17: 00-17:30:TC8-S2: Pr. Jean Luc THOLOZAN "Extremophylic anaerobic bacteria: Characterization, ecology and potential applications"

17:30-17:45: OC27 S2: Sonia KHOUI "Ultrafiltration for advanced olive mill wastewater treatment for ferti-irrigation"

17:45-18:00: OC28 S2: Olfa BEN SAID "study of microbial community diversity in superficial sediments of coastal anthropized bizerte lagoon (tunisia)"

18:00-18:15: OC29 S2: Rashed AL-SA`ED "Assessment of current conventional and membrane technologies for wastewater treatment and effluent reclamation in Palestine"

18:15-18:30: OC30 S2: Rima ALBESHARAT "Investigations on the influence of the fermentation conditions on the vitality of a probiotic culture after drying"

Thursday, May 8th :

9:00-10:00 : Chairperson: Pr. H. Makni [Faculty of Medicine of Sfax]

PC8: Pr. S. Chauhan VIRANDER., "Development of Malaria Vaccine: Current Scenario"

10:00-12:45: Chairpersons: Pr. N. Gharsallah [Faculty of Science of Sfax] & Pr. S. Maâlej [Faculty of Science of Sfax]

11:00-11:30: TC9 S2: Pr. Richard HASER "News from sugar-converting enzymes: from structures towards catalysis and synthesis of attractive oligosaccharides"

10:30-11:00: Coffee break

10:00-10:30: TC10-S2: Pr. Mohamed AMAR "Biological Resource Centres for Bioeconomy in Developing Countries"

11:30-11:45: OC31 S2: Raida ZGHAL ZRIBI "Evidence of the importance of the Met115 for Bacillus thuringiensis subsp. israelensis Cyt1Aa protein cytolytic activity"

11:45-12:00 :OC32 S2: Cherif BEN-YOUSSEF "Kinetic modelling of the benzene inhibitory effect on nitrifying batch cultures"

12:00-12:15: OC33 S2: Nour SHAFIK EL-GENDY "Assessment of biostimulation effect on a highly heavy metals and oil polluted soil"

12:15-12:30: OC34 S2: Maxime DUMONT "Automatic Control may Help to Investigate Microbial Ecological Questions"

12:30-12:45: OC35 S2: Ouardia BELOUANA BORN BENBELKACEM "Study of the nitrate pollution conversion to the gas nitrogen with a fixed biomass on consumable support (Alfa Stem)"

12:45-13:15: closing ceremony

13:15-14:45: Lunch

15:00- Touristic trip

20:00 Dinner-Ceremony

SESSION 3: AGRICULTURAL, FOOD AND MARINE BIOTECHNOLOGY

Monday, May 5th

9:00-10:00: Chairperson: Pr. H. Ayadi [Director General of the CBS]

PC 2: Pr. Hechmi LOUZIR "Immunology of human leishmaniasis: challenges for vaccine development"

10:00-12:45: Chairpersons: Pr. N. Marrakchi [Pasteur Institute of Tunis] & Pr. M. Mathlouthi [Faculty of Science, Reims]

10:00-10:30: TC1-S3: Pr. Emmanuel GUIDERDONI "Rice Mutant Resources for Deciphering Developmental and Adaptive Processes"

10:30-11:00: Coffee break

11:00-11:30: TC2-S3: Pr. Juan FERRE "Basis of resistance to *Bacillus thuringiensis* toxins in Lepidoptera "

11:30-11:45: OC1S3: Karim MEZHOUD "Global quantitative analysis of protein expression and phosphorylation status in the liver Medaka exposed to microcystin-LR"

11:45-12:00 :OC2S3: Imen BEN SALAH "Comparative study of the response of growth, nitrogen fixation and carbohydrate metabolism in *Medicago ciliaris* lines cultivated under salt stress"

12:00-12:15: OC3 S3: Rania BEN SAAD "Over expression of an alien ZnFAl gene from *A. littoralis* in tobacco enhances salt and drought stress tolerance"

12:15-12:30: OC4 S3: Slim TOUNSI "Improvement of oral toxicity of *Photorhabdus temperata* strain K122 against *Prays oleae* and *Manduca sexta* by heterologous expression of *Bacillus thuringiensis* cry1Aa and cry1Ia genes"

12:30-12:45: OC5 S3: Nader Farid ABUSARA "Optimal Growth Conditions for the Production of β -Carotene and Glycerol from a Halophilic Microalga *Dunaliella* sp. Isolated from the Dead Sea, Jordan"

12:45-14:00: Lunch

14:00-15:00: Poster session

15:00-16:00 : Chairperson: Pr. S. Jaoua [CBS]

PC 3: Pr. Brian FEDERICI "Basic Biology and Genetic Engineering of *Bacillus thuringiensis*"

16:00-18:15: Chairpersons: Pr. A. Ghorbel [CBBC] & E. Bonnin [INRA, France]

16:00-16:30: TC3-S3: Pr. Gerald BERKOWITZ "Mechanisms mediating Ca²⁺ involvement in pathogen perception, programmed cell death and plant innate immunity"

16:30-17:00: Coffee break

17: 00-17:15: OC6S3: Muhammad AASIM "Efficient, Simple and Rapid Transformation of two Turkish Cowpea (*Vigna unguiculata* L.) Cultivars by *Agrobacterium tumefaciens*"

17:15-17:30: OC7S3: Kakha NADIRADZE "In vitro and in vivo virus free potato seed production using Elisa Reader"

17:30-17:45: OC8 S3: Aymen EZZINE "Cloning and Expression of Human Papillomavirus type 16 Capsid Protein L1 in *Arabidopsis thaliana*"

17:45-18:00: OC9 S3: Essaid AIT BARKA "The induced state of resistance in inflorescence of *Vitis vinifera* L. by a Plant growth promoting bacteria, *Burkholderia phytofirmans* strain PsJN against *Botrytis cinerea* Pers"

Tuesday, May 6th

9:00-10:00 : Chairperson: Pr. S. Hamon [IRD, Montpellier]

PC 4: Pr. Martin PARRY "Integrated Approaches to Wheat Improvement under drought"

10:00-12:30 : Chairpersons: R. Gargouri Bouzid [ENIS] & Pr. J. Ferre [University of Valencia Spain]

10:00-10:30: TC4-S3: Pr. Khaled MASMOUDI "Functional characterization of genes involved in drought and salinity tolerance in plants"

10 :30-11:00: Coffee break

11:00-11:15: OC10 S3: Ikram ZAIDI "identification and molecular characterization of durum wheat map kinase phosphatase 1 (tmkp1)"

11:15-11:30 :OC11 S3: Orhan ARSLAN "Rapid and Highly efficient micropropagation of Two Turkish woods *Isatis constricta* Davis and *I. aucheri* Boiss. under in vitro conditions"

11:30-11:45: OC12 S3: Lina AL-AMIR "The effect of crude aqueous *Juniperus excelsa* leaf and fruit extracts on some human pathogenic bacteria"

11:45-12:00: OC13 S3: Mariam DAMMAK KARRAY "Evidence of the involvement of the C-terminal region of *Bacillus thuringiensis* Cry1Ac in delta-endotoxin crystallization"

12:00-12:15: OC14 S3: Imen SAADAoui "Cloning, sequencing and expression of cry1A genes of a new *Bacillus thuringiensis* strain highly toxic to Lepidopteran larvae"

12:15-12:30: OC15 S3: Shahidul HAQUE MD "Biotechnological Approaches for Improvement of Garlic(*Allium ativum* L.)"

12 :30-14:00: Lunch

14:00-15:00: Poster session

15:00-16:00 : Chairperson: Pr. S. Abdelhak [Pasteur Institute of Tunis]

PC 5: Pr. Hitoshi MIYAZAKI " Effects of Olive Leave Compounds on the Functions of Vasculature and Ovary"

16:00-18:00: Chairpersons: Pr S. Bejar [CBS] & Pr. C. Franche [IRD, Montpellier]

16:00-16:30: TC5-S3: Pr. Estelle BONNIN "Extraction of "green labelled" pectin from plant by-products"

16:30-17:00: Coffee break

17:00-17:15: OC16 S3: Fadila Maiza BENABDESSELAM "In vitro antioxidant studies on phenolic and alkaloid extracts of two *Fumaria* Algeria species"

17:15-17:30: OC17 S3: Lobna MESRATI-ABDELKEFI "Characterization of a novel Vip3-type toxin of *Bacillus thuringiensis* strain BUPM95"

17:30-17:45: OC18 S3: Mohamed TRIGUI "Seasonal variation in antimicrobial activity of crude extracts of the green alga *Ulva rigida* (Ulvaceae)"

17:45-18:00: OC19 S3: Hayat MAKEE "Effect of inherited sterility and *Bacillus thuringiensis* on mortality and reproduction of *Phthorimaea operculella* Zeller (Lepidoptera: Gelechiidae)"

Wednesday, May 7th

9:00-10:00 : Chairperson: Pr. A. Gargouri [CBS]

PC 6: Pr. David HOPWOOD "Using Microbial Genetics to Find and Develop New Antibiotics"

10:00-12:30: Chairpersons: Pr. S. Hamon [IRD, Montpellier] & Pr. F. Molina [CNRS, France]

10:00-10:30: TC6-S3: Pr. Claudine FRANCHE "Genetic transformation of forest trees"

10:30-11:00: Coffee break

11:00-11:15: OC20S3: Mohamed Rabie EL-AKHAL "Genetic diversity of rhizobial isolates obtained from root nodules of *Arachis hypogaea* in northwestern Morocco"

11:15-11:30 :OC21S3: Wafa JALLOULI "Overcome of *Photorhabdus* limitations of production and overproduction of corresponding bioinsecticides by fermentation"

11:30-11:45: OC22S3: Saoussen BEN KHEDHER "Development of a new generation of *Bacillus thuringiensis* bioinsecticides based on asporogenic and oligosporogenic mutants"

11:45-12:00: OC23 S3: Igor KOVALCHUK "Improved transformation of tobacco and wheat plants via modification of homologous recombination frequency"

12:00-12:15: OC24 S3: Maher CHAOUACHI "A High-Throughput Multiplex Method adapted for GMO Detection"

12:15-12:30: OC25 S3: Farid MAI "Influence of differentiation state, salt stress and Methyl jasmonate on in vitro production of cucurbitacins from tissue cultures of *Ecballium elaterium* and *Cucumis prophetarum*"

12:30-14:00: Lunch

14:00-15:00: Poster session

15:00-16:00 : Chairperson: Pr. S. Sayadi [CBS]

PC 7: Pr. Christine PETIT " Human Hereditary Deafness : from genes to pathogenesis and beyond"

16:00-18:00: Chairpersons: Pr. N. Drira [Faculty of Science of Sfax] & R. Frutos [CIRAD Montpellier]

16:00-16:30: TC7-S3: Pr. Frank MOLINA "BaSysBio, a systems biology approach for *Bacillus Subtilis* modelling"

16:30-17:00: Coffee break

17: 00-17:15: OC26 S3: Samia DALDOUL "Cloning of full length cDNA for *Vitis vinifera* SIP/raffinose synthase related to salt stress response"

17:15-17:30: OC27 S3: Khan GOHARTAJ "Alteration of ABA mediated resistance against *Alternaria* blight in *Brassica* through osmotin gene transformation"

17:30-17:45: OC28 S3: Bassam AL-SAFADI "Selection of potato mutants tolerant to salinity using *in vitro* and DNA marker techniques"

17:45-18:00: OC29S3: Sameh SELLAMI "Overexpression of the Vegetative Insecticidal Protein of *Bacillus thuringiensis* during vegetative growth and sporulation phases"

Thursday, May 8th :

09:00-10:00 : Chairperson: Pr. H. Makni [Faculty of Medicine of Sfax]

PC8: Pr. S. Chauhan VIRANDER., “Development of Malaria Vaccine: Current Scenario”

10:00-12:45: Chairperson: Pr M. N. Marzouki [INSAT]& **Pr. K. Masmoudi** [CBS]

10:00-10:30: TC8-S3: Pr. Noureddine DRIRA "Biotechnologie et déterminisme du sexe chez les végétaux supérieurs"

10:30-11:00: Coffee break

11:00-11:30: TC9-S3: Pr. Mahmoud SAKER “Plant Biotechnology in Egypt: Current Status and Future Scenarios”

11:30-11:45: OC30 S3: Rafiq MUHAMMAD “Production of azadirachtin through in vitro culture of neem (*Azadirachta indica* A. Juss)”

11:45-12:00 :OC31 S3: J. SATHEESH “microbial technology of *Bacillus thuringiensis* var. *kurstaki* (berliner) formulation against defoliator *PODOPTERA LITURA* (*Fabricius*) in groundnut (*Arachis hypogea*)”

12:00-12:15: OC32 S3: Mohammed Najib SAIDI “Molecular investigation of brittle leaf disease affected date palm (phoenix *Dactylifera* L) leaves”

12:15-12:30: OC 33 S3: Halima EL-HATMI “*protective whey proteins from camel (CAMELUS DROMEDARIUS) milk*”

12:30-12:45: OC34 S3: Houda HANANA “Primary cultures of heart cells from the clam *Ruditapes decussatus* as an alternative method for ecotoxicological studies”

12:45-13:15: Closing ceremony

13:15-14:45: Lunch:

15:00- Touristic trip

20:00 Dinner-Ceremony

Satellite Sessions

Monday, May 5th

Satellit1 Innovative Biotechnology PROMEMBRANE International Conference:
09:00-10 :00 : PC 2
10 :00-10 :315: Opening ceremony and welcome to PROMEMBRANE International Conference: Prof. Sami Sayadi
10 :15-10 :30: Presentation of ProMembrane project : Ms. Marisol Oropeza
10 :30-11 :00: Coffee break
11 :00-11 :45: Key Note Lecture: Current water scarcity situation in MENA countries: an overview Mourad Bino (to be confirmed)
11 :45-12 :30: Key Note Lecture: Visualization and quantification of membrane properties at the nano-scale Prof. Nidal Hilal
12 :30-14 :00: Lunch
14 :00-15 :00: Opening Fair and visit to the stands
15 :00-15 :30 : Nanotechnologies and membrane engineering at the core of water and related questions in Mediterranean and Middle-East countries : Prof. Gilbert M. Rios
15 :30-16 :00 : Water recovery, reuse and advanced products formulations with integrated membrane operations: Enrico Drioli
16 :00-16 :10 : Young Scientist Award: Results and Certificate deliverance
16 :10-16 :30 : Young Scientist Award North Africa: 1st place Anaerobic membrane bioreactor treatment of domestic and agro-industrial wastewaters in Tunisia Ahlem Saddoud (Tunisia)
16 :30-17 :00: Coffee break
17 :00-17 :20: MBR technology: towards the search of an innovative and suitable wastewater treatment solution for isolated areas Miguel Ángel Orbaneja Bioazul S.L. (Spain)
17 :20-17 :40: Young Scientist Award Middle East: 1st place Optimization of membrane bioreactor system integrated with cross flow membrane filtration
17 :40-18:00: Mohammad Issa (Syria): Membranes in the sanitation field Barreto Leonellha: ttz Bremerhaven (Germany)
18 :00-18:30: Panel discussion: Moderator: Dr Drioli

Tuesday, May 6th

<p align="center">Satellite1 Innovative Biotechnology</p>	<p align="center">Satellite 2 - Biosafety and Quality Management in biotechnology laboratories</p>	<p align="center">Satellite 3 Eurohear: Advances in hearing science: from functional genomics to therapies</p>
<p>9:00-10 :00 : Key Note Lecture: Membrane Bioreactor Technology: Design and Applications Dr Tom Arnot (to be confirmed) 9:30-9 :50 : Young Scientist Award North Africa: 2nd place: Sally Ibrahim (Egypt) 9 :50-10 :10: Young Scientist Award Middle East: 2nd place Membrane used for water treatment Daad Hassan (Syria) 10 :10-10 :30: Panel discussion Moderator: Dr Schories 10 :30-11 :00: Coffee break 11 :00-11 :20: Advancing membrane technologies for wastewater treatment and effluent reclamation in selected Arab Mediterranean and North African countries Dr. Rashed Al-Sa'ed: Birzeit University (Palestine) 11 :20-11 :40: Applying the MBR technology in wastewater treatment with reuse of wastewater on coastal areas in Croatia Alena Vlastic: Water Management Institute (Croatia) 11 :40-12 :00: Membrane operations for water purification Dr. Alberto Figoli: Institute on Membrane Technology (ITM-CNR),Italy 12 :00-12 :30: Current water scarcity situation in the Middle East Prof. Adnan J. Ghata and Prof. Fouad Atallah <i>Director of Training &Development, Al-Baath University (Syria)</i></p>	<p>9:00-10 :00 : PC 4 10 :00-10 :30: -Quality management: what for ? Dr. Roger Frutos 10 :30-11 :00: Coffee break 11 :00-11:30: Quality assurance for biotechnology laboratories: Dr. Roger Frutos 11 :30-12 :30: Discussion: Chaired by Pr. Samir Jaoua 12 :30-14 :00: Lunch</p>	<p>16 :30-17 :00: Coffee break 17:00-17:05: Opening of the Eurohear satellite session 17:05-17:15: Tunisia: an incredible population and genetics journey: Pr. Hammadi Ayadi 17:15-17:25: OC1: GJB2 mutation 35delG: Prevalence in Algeria and further evidence for founder effect:Imen Amar 17:25-17:35: OC2: Mutational analysis of the mitochondrial 12s rRNA, the tRNA^{Ser}(UCN) and the tRNA^{Leu}(UUR) genes in Tunisian patients with nonsyndromic inherited hearing loss: Emna Mkaouar-Rebai 17:35-17:45: OC3: Novel mutations in the <i>TMPRSS3</i> gene in Spanish DFNB8/10 families with autosomal recessive non-syndromic hearing impairment: Dr. Antonio VIÑUELA 17:45-17:55: OC4: Redefining the DFNB33 locus to the chromosome 10p11.23-q21.1: Hanan Belguith 17:55-18:15: Discussion</p>

<p>12 :30-14 :00: Lunch 14 :00-14 :30: Potential and examples for applications of membrane technology in water treatment Dr. Gerhard Schories Tech. Dir. Environmental Institute, ttz Bremerhaven (Germany) 14 :30-14 :50: Membrane bioreactor for wastewater treatment: overview and application in Egypt Prof. Hussein Abdel-Shafy Water Research & Pollution Control Dept., National Research Centre (Egypt) 14 :50-15 :10: Membrane operations for water purification Dr. Alberto Figoli: Institute on Membrane Technology (ITM-CNR),Italy 15 :10-15 :30: PV-RO desalination stand-alone system in the village of Ksar Ghilène (Tunisia). Vanessa Milan (or co-author) Spain 15 :30-15 :50 : Young Scientist Award North Africa: 3rd place :Firas Feki (Tunisia) 15 :50-16 :10 : Young Scientist Award Middle East: 3rd place Treatment of water with high (TDS , hardness , SO4²⁻,and H2S) by using Reverse Osmosis system and the problems (scaling salts) of membrane : Shadi Shaheen (Syria) 16 :10-16 :30 : Panel discussion Moderator: Dr Rashed Al-Sa'ed 16 :30-17 :00: Coffee break 17 :00-17 :30: Conclusions and Closing of the Conference</p>		
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Wednesday, May 7th

<p align="center">Satellite 3</p> <p align="center">Eurohear: Advances in hearing science: from functional genomics to therapies</p>	<p align="center">Satellite 4</p> <p align="center">Seame, a treasure of healthy benefits</p>	<p align="center">Satellite 5</p> <p align="center">Developments for biotechnological research: success stories and networking</p>
<p>9:00-10 :00 : PC 6 10:00-10:30: TC1: Mammalian sound amplification, towards a molecular map of the auditory hair cell lateral wall: Dr. Aziz EL-Amraoui 10 :30-11 :00: Coffee break 11:00-11:15 : OC5: Large scale computational model of the cochlea of inner ear: predictions about the cochlear cellular amplifier and mutations in the potassium-transport related genes: Dr. Mistrík PAVEL 11:15-11:30: OC6: Interactions between myosin VI and interacting proteins in the sensory hair cell: Tamar Tenne 11:30-11:45: OC7: Effects of mobile Ca²⁺ buffer deficiency on the IHC synaptic transmission: Dr. Tina PANGRŠIČ 11:45-12:00: OC8: Mutations in the human miR-96, a microRNA expressed in the inner ear, causes non-syndromic progressive hearing loss: Ángeles MENCÍA RODRÍGUEZ 12:00-12:15: OC9: Prevention of hair cell death in transcription factors <i>Pou4f3</i> and <i>Gfi1</i> knockout mice using anti-apoptotic factors: Orna ATAR 12:15-12:30: Discussion 12 :30-14:00: Lunch 14:30-14 :45: Dissemination within the EuroHear project / FP7 opportunities by Laurent CHARVIN 15:00-16 :00 : PC 7 16:15-17:00: TC2: Control of connexin gene expression in cochlear organotypic cultures: Pr. Fabio MAMMANO. 17: 00-18:00: Round table chaired by Pr. Christine PETIT “Eurohear Project and research on hearing: present and future”</p>	<p>9:00-10 :00 : PC 6 10:00 - 10:15: Sesame based foods: Technological processing: (Confiserie Triki) 10 :15 - 10:30: Policy related to sesame use in agro-industry: Mr Mohamed Ben Rejeb (CTAA) 10 :30-11 :00: Coffee break 10 :00 - 10:20: Lipides: nutrition et obésité Pr Robert Verger (France) 11 :20-11:35: Digestibilité et stabilité de l’huile de sésame: Pr Youssef Gargouri (ENIS) 11 :30-11 :40: Lipides et diabetes: Dr Yassine Ben Ali 11 :40-11 : 55: Composition nutritive du sésame: Mme Naila Abid 11 : 55-12 : 10: Effets du sésame sur la santé humaine: Dr Mouna Mnif 12 : 10-12 : 30: Discussion 12 :30-14 :00: Lunch 14 :00-15 :00: Réunion/débat spécifique: consommateurs et presse : Mr Nabil Triki</p>	<p>14 h00-15 :00: Poster session 15 :00-16 :00 : PC 7 16 :00-16 :20: Analysis of water for pesticides....using 2D LCMSMS: Mr Loïc BEYET (Applied Biosystem) 16 :20-16 :40: The next generation sequencer for genomic analysis has arrived: SOLID System: Mr Marco Pirotta (Applied Biosystem) 16 h40-17 :00: Coffee break 17 :00-17 :30: Biotechnology in Malaysia: Pr. Abdellatif IBRAHIM, Malaysia 17 :30-17 :45: NEPAD/North Africa Biosciences Network (NABNet): Promoting Biotechnology projects: Pr. Mohamed Elarbi Aouani 17 :45-18 :00: Construction of a novel multifunctional extracellular matrix-bound epidermal growth factor for tissue engineering: Dr Imen Elloumi</p>

Thursday May 8th:

Satellite 6

Incubating innovations (Start-ups, Spin-offs): From opportunities to Innovative companies

9:00-10 :00 : PC 8

10:00 - 10:10: CBS-innovation : strategy and logistic : Pr Hammadi Ayadi (CBS)

10 :10 - 10:20: Success stories of biotechnology transfer from CBS: Pr Sami Sayadi (CBS)

10 :20 - 10:30: Spin-off stories from CBS incubator: Mr Ramzi Trigui, Melle Hajer Yaakoubi, Melle Sana Smaoui

10 :30 - 10:45: Panel discussion

10 :45-11 :00: Coffee break

11 :00-11:15: Incitations for innovating companies: Dr Ikram Makni (Business Center of Sfax, Tunisia)

11 :15-11 :35: INSERM- transfert expertise in biotechnology: Mallory Wolff (INSERM-TRANSFERT, France)

11 :35-11 : 55: Technology transfer and spin off mechanism in biotechnology, current challenges and practical examples from Germany: Frank Graage (Germany)

11:55-12:30: Discussion: Good practices for innovation in CBS: perspectives and consequences: Chaired by Ing. Gerhard Ebert and Pr. Daniel Thomas

12 :30-14 :00: Lunch