



**1ST
EDITION**

“IRC / ISB-P ADVANCED COURSE ON CANCER BIOLOGY AND THERAPY”

NETWORK LAUNCHING : MOROCCAN ONCOGENETICS NETWORK - MoON

- Tumor microenvironment and Immunoncology
- Cancer therapy and drug development
- Cancer genomic and precision oncology
- Hereditary Cancer Genetics
- Biobanking and Big data for precision oncology

HYBRID COURSES

October 20-23, 2021
Training Center University
– UM6P - Marrakech
Kingdom of Morocco

For further information:

📞 06 62 78 13 27

✉ contact@irc.ma

Synopsis

“IRC / ISSB-P advanced course on cancer biology and therapy” is the first educational event in molecular oncology and precision medicine in morocco.

The course is oriented to oncologists, hematologists, radiotherapists, pathologists, pharmacists, and biologists.

The main objective is to offer an up-to-date course on the molecular oncology, and new therapeutic approaches.

International and national key speakers will provide lectures on different topics in the field of precision oncology ranging from molecular mechanisms to therapeutic applications.

The course will provide workshop sessions developed specifically to discuss the clinical implementation of new technologies into clinical practice.

Learning objectives

- To understand the basics of cancer development
- To understand the basics of cancer immunotherapy and their applications
- To learn about the current and upcoming molecular approaches to implement precision oncology.
- To understand the challenges regarding the interpretation and the clinical utility of molecular profiling results.
- To learn about current and potential applications of liquid biopsies to evaluate blood-based biomarkers and to develop more effective therapeutic strategies based on a molecular monitoring of the disease.
- To learn about genetic testing and counseling in hereditary cancer for patients and their families

To launch the “MoON” Network : Moroccan Oncogenetics Network MoON

- Presentation of the MoON 2020-2023: action plan
- Presentation of the National steering committee

Key sessions

- Cancer cell and tumor micro-environnement
- Precision medicine: Integrating new technologies into clinical practice
- Hereditary cancer genetics
- Drug development in Oncology

Target audience

This course is oriented to clinicians (oncologists, radiotherapists, onco-hematologists, Pathologists), pharmacists, and biology researchers interested in molecular oncology. 50 participants will attend the event in person. The meeting will be streamed live and the e-sessions will be available according to the presenter's agreement to release them.

Hybrid courses



Program

October 20th 2021 **Reception of the participants, visit of the laboratories and Opening Ceremony**

Day 1
October 21st 2021 **Hereditary Cancer Genetics
Cancer therapy and drug development**

Day 2
October 22nd 2021 **Cancer genomic and precision oncology**

Biobanking and Big data for precision oncology

Day 3
October 23rd 2021 **Tumor microenvironment and Immun oncology**

Wednesday

October 20th 2021

**Reception of the participants.
Visit of the laboratories. Opening Ceremony**

MOHAMMED VI POLYTECHNIC UNIVERSITY

13:00-14:00

Welcome and Reception of the participants

15:00-16:00

**Visit of the laboratories
"MOHAMMED VI POLYTECHNIC
UNIVERSITY"**

Symposium

16:00-16:20

**Symposium Thermo Fisher Scientific
Precision medicine.**

16:20-16:40

**Symposium Illumina
"Comprehensive Genomic Profiling
Clinical utility and more..."**

**Fabrice Magnin o, PhD
Associate Director, Medical Affairs
EMA Illumina**

16:30-17:30

Opening Ceremony



Rachid EL FATIMY

**Research Director
Institut Supérieur
des Sciences
Biologiques et
Paramédicales (ISSBP)
University
Mohammed IV
Polytechnic**



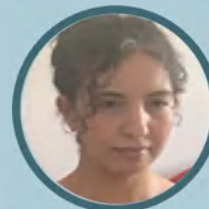
Gabriel Malka

**Director
Institut Supérieur des
Sciences Biologiques
et Paramédicales
(ISSBP) University
Mohammed IV
Polytechnic**



Karim OULDIM

**Director
Cancer Research
Institute IRC**



Sarnia ARIFI

**Coordinator
« IRC/ISSB-P
advanced course on
cancer biology and
therapy »**

Network Launching : Moroccan Oncogenetics Network MoON

17:30-18:30

- Presentation of the MoON 2020-2023: action plan
- Presentation of the National steering committee

19:00

Dinner cocktail





Hereditary Cancer Genetics

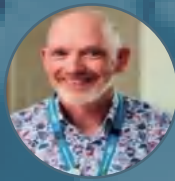

Moderators : Nisrine ABOUSSAIR, Hind DEHBI.

09:00 - 09:15	Introduction	
09:15 - 09:35	Hereditary breast and ovarian cancer: BRCA and beyond	 <p>Siham CHAFAI EL ALAOUI Kingdom of Morocco</p>
09:35 - 09:55	Hereditary gastro-intestinal cancer	 <p>Leila BOUGNOUCH Kingdom of Morocco</p>
09:55 - 10:10	Discussion	
10:10 - 10:30	Hereditary syndromes in neuroendocrine tumors	 <p>Ilham RATBI Kingdom of Morocco</p>
10:30 - 10:50	Rare hereditary diseases with defects in DNA repair	 <p>Yassamine DOUBAJ Kingdom of Morocco</p>
10:50 - 11:05	Discussion	
11:05 - 11:30	Coffee break	
11:30 - 12:30	Workshop Genetic testing and counseling in hereditary cancer	  <p>Abdelaziz SEFIANI and Siham CHAF AI EL ALAOUI</p>
Lunch		

Cancer therapy and drug development

Moderator : Nabil ISMAILI ALAOUI





14:00 - 14:20	Drug development in the era of precision medicine	
14:20 - 14:40	Biomarkers: Selection and Validation	Patricia MARTIN ROMANO France
14:40 - 14:55	Discussion	
14:55 - 15:10	The design and evaluation of a new lipophilic Platinum(IV) oxaliplatin derivative	
		Simon BENITA Israel
15:10 - 15:30	Development of new nonchemotherapy treatment for cutaneous T cell lymphomas	
		Armand BENSUSSAN Kingdom of Morocco
15:30 - 15:45	Discussion	
15:45 - 16:15	Coffee break	
16:15 - 16:35	Deciphering leukemia pathogenesis through therapy response.	
		Hugues DETHE France

16:35 - 17:55	Using allogeneic Cord Blood Transplant in Refractory Haematological Malignancy in Children	 <p>Robert WYNN United Kingdom</p>
17:55 - 17:15	Cell therapy in oncology	 <p>Anass BELBACHIR Kingdom of Morocco</p>
17:15 - 17:30	Discussion	
End of day 1		

Cancer genomic and precision oncology

Moderator : EL HFID mohamed

Supported By ROCHE

09:00 - 09:20	Genomic instability and drivers in cancer development	 Houcine OUAFIK France
09:20 - 09:40	Epigenetic changes in cancer: miRNA	 Fadila GUESSOUS Kingdom of Morocco
09:40 - 10:00	New nuclear function for miRNA as a modulator of splicing machinery in Glioblastoma	 Rachid EL FATIMY Kingdom of Morocco
10:00 - 10:15	Discussion	
10:15 - 10:35	Clinical implementation of NGS; organisation and the role of MTB	 Houcine OUAFIK France
10:35 - 11:05	« Molecular tumor board »: case discussion	
11:05 - 11:20	Discussion	
11:20 - 11:40	Coffee break	

11:40 - 12:00

**Cytogenetic and
molecular testing in
Chronic Lymphocytic
Leukemia and Multiple
Myeloma. Practical
aspects**



Abdellah MADANI
Kingdom of Morocco

12:00- 12:10

Discussion

Metagenomics and cancer

12:10 - 12:30

**Metagenomics :
new horizon in
cancer research**



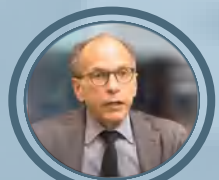




Keith CRAND ALL
United States of
America

Lunch

Biobanking and Big data for precision oncology



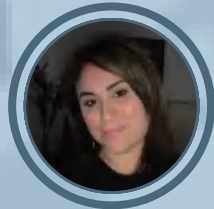

Moderator : Basma KHANOUSSI



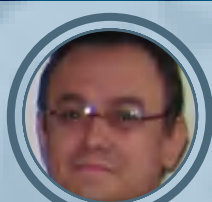
14:00 - 14:20	Biobanking: why it is important?	 Kurt ZATLOUKAL Austria
14:20 - 14:40	Artificial intelligence and Big data in oncology	
14:40 - 15:00	OSIRIS a model of Data Set for Data Sharing and Interoperability in Oncology	 Maud TOULMONDE France
15:00 - 15:15	Discussion	
15:15 - 15:30	Symposium Thermo Fisher Scientific Oncogenomics	
15:30 - 16:00	Coffee break	
16:00 - 16:20	Ethical issues regarding Big Data in Research	 Henry Silverman United States of America, U.S.A

16:20 - 16:40	Data protection in healthcare and biomedical research in Morocco	 <p>Farid HAKKOU Kingdom of Morocco</p>
16:40 - 17:00	Implementing precision medicine: personnel data protection and the ethical challenges	 <p>Omar SEGHRUCHNI Kingdom of Morocco</p>
17:00-17:15	Discussion	
End of day 2		

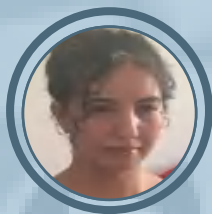
Tumor microenvironment and Immunoncology

Moderator : Samia ARIFI

09:00 - 09:20	Tumor micro-environment	 <p>Florent PETIPREZ United Kingdom</p>
09:20 - 09:40	Tumor immunology	 <p>Mohammed EL AZAMI EL IDRISI Kingdom of Morocco</p>
09:40 - 10:00	Antigen receptors as molecular switches regulating inflammation	 <p>Sanae BEN MKADDEM Kingdom of Morocco</p>
10:00 - 10:15	Discussion	
10:15 - 10:30	Coffee break	
10:30 - 10:50	Anti PD1/PD-L1 immunotherapy and current predictive biomarkers -Symposium MSD -	 <p>Saber Boutayeb Kingdom of Morocco</p>

10:50 - 11:10	How does CART-cell therapy work in treating cancer?	 <p>Antonio CARRASCO YALÁN Peru</p>
11:10 - 11:25	Discussion	
11:25 - 11:45	Biomarkers in immuno-oncology	 <p>Hicham EL ATTAR Kingdom of Morocco</p>
11:45 - 12:05	Pronostic and predictive value of the immunoscore in patients with colorectal cancers	
12:05 - 12:25	Mechanisms of resistance to immunotherapy	 <p>Franck PAGÈS France</p>
12:25 - 12:40	Discussion	
Synthesis and feedback from attendees		
End of day 3		

Speakers



Samia, ARIFI
MD, Professor

Kingdom of Morocco

Coordinator

Professor in cell biology and Medical Oncologist

**Department of Medical Oncology,
University hospital Hassan II Fez,
Faculty of Medicine and Pharmacy-
Fez, Sidi Mohamed Ben Abdellah
University(USMBA)- Fez.**

**Scientific Council member of Cancer
Research Institute, IRC**



Abdelaziz SEFIANI
MD, PhD

**Medical geneticist
- Professor
Kingdom of Morocco**

**Medical geneticist – Professor, Head
of Medical Genetics Department ,
INH Rabat
Faculty of Medicine and Pharmacy,
University Mohammed V, Rabat.**



Abdellah Madani

**MD
Professor**

Kingdom of Morocco

Hematology-oncology – Professor

**Head of clinical hematology and
pediatric oncology department Ibn-
Rochd University hospital,
Casablanca,**

**President of the Moroccan Society
of Hematology.**

**Faculty of Medicine and Pharmacy,
Hassan II Ain Chock University -
Casablanca**



Anass BELBACHIR
MD, Professor

**Kingdom
of Morocco**

Professor of Pathology,

**Head of Center for Regenerative
Medicine Mohammed VI University
Hospital of Marrakech
Faculty of Medicine and Pharmacy
Marrakech**

University Cadi Ayyad of Marrakech,

**Scientific Council member of Cancer
Research Institute 'IRC'**



**Yalán Antonio
CARRASCO**
MD

Peru

Clinical Hematologist

**Postdoctoral fellow of the University
of Texas, MD Anderson Cancer Center,
Houston, USA..**

**Past Head of Hematology Service
of the Hematopoietic Progenitor
Transplant Department of the
National Institute of Child Health
San Borja, Lima, Peru.**

**Hematologist doctor of the Anglo
American Clinic and Delgado Clinic -
AUNA.**



**Armand
BENSUSSAN**
MD, PhD,
Professor

Kingdom of Morocco

**Affiliated Professor University
Mohammed IV Polytechnic**

**Ben Guérir, Kingdom of Morocco
Past chief of the Skin Research
Center and of the INSERM unit 976 at
Saint-Louis Hospital, Paris,
Past Director Emeritus at INSERM,
Scientific Director of the Cancer
Institute Jean Godinot in Reims,
France**



Basma KHANOUSSE
MD,
Professeur

Kingdom of Morocco

Professor of Pathology,

**Head of Department of Oncology-
Pathology**

**National Institute of Oncology (INO),
Rabat**

**Faculty of Medicine and Pharmacy -
Rabat.**

University Mohammed V, Rabat.

**Scientific Council member of Cancer
Research Institute IRC**



Fadila GUESSOUS
PhD,
Professor

**Kingdom of
Morocco**

**Professor of Immunology and
Cancer Biology**

**Mohammed VI University of Health
Sciences (UM6SS), Faculty of
Medicine, Casablanca, Morocco**

**Adjunct Associate Professor of
Immunology and Cancer Biology at
Medical School, University of
Virginia, USA**



Farid Hakkou
MD, PhD,

**Kingdom
of Morocco**

**Clinical Pharmacology and biology
- Professor Past Head of clinical
pharmacology and head of biology
department University King
Hassan II hospital, Faculty of
médecine Casablanca, Director of
biology and medical research
laboratory : Laboasis Casablanca
President of ethical research
committee Faculty of médecine
Casablanca,**



Florent PETIPREZ

PhD,

United Kingdom

PhD Team Cancer, Immune Control and Escape, Centre de Recherche des Cordeliers, INSERM, Paris, France.

Centre de Recherche des Cordeliers, Sorbonne University, Paris, Affiliated to « Programme Cartes d'Identité des Tumeurs », launched by Ligue Nationale Contre le Cancer, Paris, Actual Affiliation MRC Centre for Reproductive Health, the Queen's Medical Research Institute, University of Edinburgh, United Kingdom.



Franck PAGÈS

**MD, PhD,
Professor**

France

- Professor of Immunology at the Faculty of Medicine of the Paris University.

- Deputy Director of the Biological Immunology Department at the Georges Pompidou European Hospital (HEGP) in Paris.

- Head of the immunomonitoring platform, where the "Immunoscore" test was designed and is performed, of which he is the co-inventor.

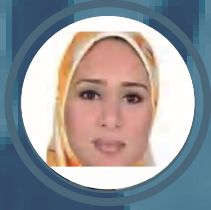
- Head of a research group within the "Integrative Cancer Immunology Team" whose research theme is the analysis of the immune component of the tumor microenvironment.



Henry Silverman
MD, MA Professor
U.S.A

**Professor of Medicine ; Epidemiology
& Public Health, University of
Maryland, School of Medicine, United
States of America,**

**Medical Ethics • Research Ethics •
Distance Learning Education)**

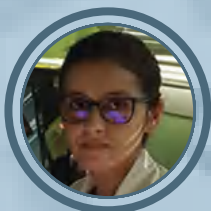


Hind DEHBI

MD Professor

Kingdom of Morocco

**Medical geneticist – Professor,
Head of Medical Genetics Department
, Ibn-Rochd
University hospital, Casablanca,
Faculty of Medicine and Pharmacy,
Hassan II Ain Chock University
- Casablanca,**



Hind EL FATEMI
MD,
Professor

Kingdom of Morocco

Professor of Pathology,

**Head of Department of Pathology,
University hospital Hassan II Fez,
Faculty of Medicine and Pharmacy-
Fez,
Sidi Mohamed Ben Abdellah
University(USMBA)- Fez**



L'Houssine OUAFIK
MD, PhD
Professor

France

**Professor (PU-PH), Biochemistry,
Molecular and Cellular Biology
Team Leader, Team 10 INP UMR
7051, School of Medicine, Marseille,
France. Head of “ Service
d'OncoBiologie ” AP HM, CHU Nord,
Marseille, France.**



Hugues DE THE
MD, PhD
Professor

France

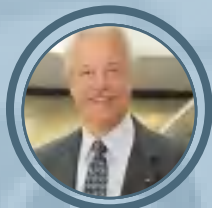
Professor of Universities and Hospital Practitioner (PU-PH) at Paris-Diderot University
Director of the CNRS unit "Molecular pathology and virology", Saint-Louis Hospital
Associate Professor, JiaoTong University, Shanghai Head of the biochemistry-molecular biology department,
Director of the Inserm 944 /CNRS/ University of Paris- Saint-Louis Hospital, since 2010.
Director of an international Inserm/CNRS associated laboratory, Chen Zhu, RuiJin Hospital, Shanghai, China



Ilham RATBI
MD, PhD, Professor

Kingdom of Morocco

Medical geneticist – Professor,
Medical Genetics Departement , INH Rabat
Faculty of Medicine and Pharmacy, University Mohammed V, Rabat.



Keith CRANDALL
PhD
Professor

U.S.A

Director of the Computational Biology Institute at George Washington University.

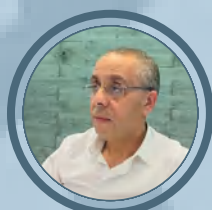
Computational biology , population genetics, and bioinformatics of a variety of organisms, from crustaceans to agents of infectious diseases United States of America
U.S.A



Kurt ZATLOUKAL
MD, PhD, Professor
of Pathology

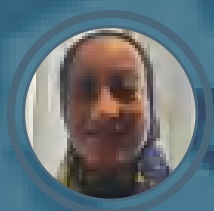
Austria

**Professor of Pathology Director of
Diagnostic and Research Center for
Molecular BioMedicine, Medical
University of Graz Director of the
Austrian National Node of Research
Infrastructure on Biobanking and
Biomolecular Resources – BBMRI. at**



Karim OULDIM
MD,
Medical genetics
– Professor
Kingdom of Morocco

**Professor of medical genetics and
oncogenetics
Director of Cancer Research
Institute IRC
President of Scientific Council
(Cancer Research Institute IRC) ,**



Leila BOUGNOUCH
MD
Professor
Kingdom of Morocco

Medical geneticist – Professor

**Head of medical genetics and
oncogenetics Unit, University
hospital Hassan II Fez,
Faculty of Medicine and Pharmacy-
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Sidi Mohamed Ben Abdellah
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Maud TOULMONDE
MD, PhD

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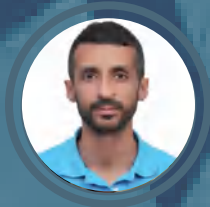
**Medical Oncologist
Early Phase trial and Sarcoma Units
Department of Medical Oncology
Institut Bergonié, Bordeaux, France
Focus of interests on clinical research
in phase I/II/III trials in sarcoma and
phase I/II trials in all tumor types;
Translational research in sarcoma,
omics, pharmacodynamic biomarkers
for immunotherapy**



**Mohammed EL AZAMI
EL IDRISI**
MSc, PhD
Professor

Kingdom of Morocco

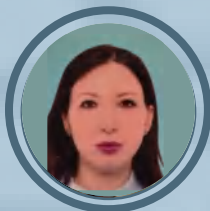
**Professor of Immunology
Vice Dean for Research and
Cooperation of the Faculty of
Medicine and Pharmacy- Fez, Sidi
Mohamed Ben Abdellah
University(USMBA)- Fez.
University hospital Hassan II Fez,**



**Nabil ISMAILI
ALAOUI**
MD,
Professor

Kingdom of Morocco

**Medical Oncologist Professor
Faculty of Medicine - Mohammed VI
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Health Sciences UM6SS of Casablanca
Sheikh Khalifa Ibn Zaid Hospital of
Casablanca Referee
in medical oncology at the University
Hospital Sheikh
Khalifa.
Vice-president of the Moroccan Cancer
Society**



Nisrine ABOUSSAIR

MD Professor

Kingdom of Morocco

**Medical geneticist – Professor, Head
of Medical Genetics Department,
Mohammed VI University Hospital of
Marrakech Faculty of Medicine and
Pharmacy Marrakech
University Cadi Ayyad of Marrakech**



Omar SEGHROUCHNI
Kingdom of Morocco

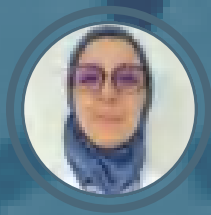
**President, Morocco's National
Commission for the Control of
Personal Data Protection (CNDP)**



**Patricia MARTIN
ROMANO**
MD, PhD

France

**Medical Oncologist, Drug
Development Department (DITEP) at
Gustave Roussy
Doctor of Philosophy (PhD) Oncology
and Cancer Biology
Master on Statistics for Life Science
Master's degree Immunology and
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Professor
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**Professor of molecular biology
University Mohammed IV
Polytechnic, Ben Guérir
Director of the Center for Doctoral
Studies at UM6P University.
Actual research Postdoctoral
training at Laval University (Canada)
and researcher at Harvard Medical
School Harvard Medical School
(USA).**



Robert WYNN
MD, PhD, Professor
United Kingdom
UK

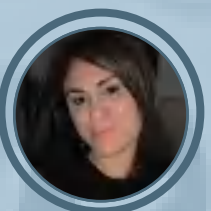
**Professor of Pediatric Hematologist
Manchester University NHS
Foundation Trust (MFT) London Consul
tant Pediatric Hematologist &
Director of Pediatric Bone Marrow
Transplant Program.**
**Blood and marrow transplant in
pediatrics, especially in inborn errors
of metabolism, Stem Cell Gene
Therapy in Pediatric Hematology and
metabolic disorders, HLH, Diagnostic
Pediatric Hematology.**



Saber Boutayeb
MD, PhD
Professor
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Professor of medical oncology

**Department of Medical Oncology
National Institute of Oncology (INO),
Rabat
Faculty of Medicine and Pharmacy -
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University Mohammed V, Rabat.**



Sanae BEN
MKADDEM
PhD, Professor
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of Morocco

**Professor of Immunology and
physiopathology**

**University Mohammed IV Polytechnic,
Ben Guérir**

**Past researcher in French Institute of
Health and Medical Research
| Inserm · Center Research on
inflammation**



Simon BENITA
PhD, Professor
Israel

Professor of Pharmaceutics

Institute for Drug Research, Research focuses on lipid and polymeric nano and microparticulate drug delivery systems aimed at improving the therapeutic performance of active ingredients. School of Pharmacy, Faculty of Medicine, The Hebrew University of Jerusalem.



Yassamine DOUBAJ
MD, PhD
Medical geneticist –
Professor
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Medical genetics and oncogenetics

**Head of onco-hematology
cytogenetics Unit**

**Medical Genetics Departement ,
INH Rabat**



EL HFID mohamed
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Professor

Kingdom of Morocco

Professor of radiotherapy

**Head department of radiotherapy
Faculty of Medicine and Pharmacy-
Tangier ,
Abdelmalek Essaâdi University
- Tangier**

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Pierre Fabre

