Under the aegis of the Ministry of Health and Social Protection

وزارة الصحة والحماية الاجتماعية

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Ministère de la Santé et de la Protection Sociale

Société Marocaine de Génomique et Génétique Humaine SM2GH

AfSHG

African Society of Human Genetics

The 14th Meeting of AfSHG and the 2nd International Congress of SM2GH

THEME:

Applications of Genomic Medicine in Africa

12-17 DECEMBER 2022

Prof. Khalid SADKI
Mohammed V University, Rabat
President Founder of SM2GH
Chairman of the congress

Prof. Ambroise Wonkam
Johns Hopkins University, USA
President of AfSHG
Co-Chair of the congress

moroccansocietyofgenomics SM2GH

https://sm2gh.ma https://www.afshg.org

Centre de Conférences de la Fondation Mohammed VI

RABAT - MOROCCO

Sponsors :

Partners :

PROGRAM

DAY 1&2

12 - 13 December 2022

The 14th Meeting of AfSHG and the 2nd International Congress of SM2GH

PRE-CONGRESS WORKSHOP

NGS Analysis Workshop for Monogenic Disease in African Populations

Supported by AfSHG, SM2GH and Wellcome Connecting Science

Hour	Monday 12 December
07h00	Transport - Hotel to CC
07h30	REGISTRATION at conference centre
08h00	Welcome and Introductions
08h15	Reference variation datasets *Aleena Mushtaq* *Segun Fatumo*
09h30	NGS Technologies *Maria Mudau, Bana Alamad* *Mohamed Zahir*
10h30	TEA & COFFEE
11h00	Variant analysis & workflow QC *Christian Gilissen* *Kevin Kum Esoh* *Catherine Tcheandjieu*
12h00	Mapping, variant calling, CNVs *Kevin Kum Esoh* *Christian Gilissen*
13h00	LUNCH
14h00	Variant Annotation *Samuel Adadey* *Aleena Mushtaq*
15h00	Variant filtering strategies & prioritisation *Christian Gilissen* *Kevin Kum Esoh*
16h00	TEA & COFFEE
16h30	Clinical significance, validity/utility *Maria Mudau* *Mohamed Zahir*
17h30	Functional characterisation - model systems *Mohamed Zahir* *Samuel Adadey*
18h30	END OF DAY 1
18h30	Transport to hotel

Hour	Tuesday 13 December
07h00	Participants check out of hotel Transport Hotel to CC
07h30	Recap/Day review
08h00	Interpretation of genetic variants *Maria Mudau* *Christian Gilissen, Mohamed Zahir*
09h00	Case study exercises *Maria Mudau* *Christian Gilissen*
10h30	TEA & COFFEE
11h00	Case study exercises, presentations *Maria Mudau* *Christian Gilissen*
12h30	International networks *Victoria Nembaware, Bana Alamad*
13h00	LUNCH
14h00	Limitations of genome analysis methods *Catherine Tcheandjieu, Bana Alamad*
15h00	Ethical considerations *Syntia Munung* *Bana Alamad*
16h00	Wrap-up and Close of workshop
16h30	TEA & COFFEE / END OF COURSE
17h00	AfSHG YOUNG INVESTIGATORS FORUM

Pyramidale Room

Join us in Rabat for this memorable experience.

DAY 2

Tuesday 13 December 2022

Abdelaziz Meziane BELFKIH Room

Afternoon

YOUNG INVESTIGATORS FORUM (YIF)

Chairs: Vicky Nembaware & Mohamed Nejmeddine & Sellama Nadifi

16h30 ► 17h05 **Network and Capacity building through Genetics and Genomics Education.**
Charles Wray, The JAX cancer center, National Cancer Institute, USA.

17h05 ► 17h40 **Seminar on PhenoDB**
Nara Lygia De Macena Sobreira, Johns Hopkins University, USA.

17h40 ► 18h30 **CAREER PANEL**
Leon Mutesa, Nchangwi Syntia Munung, Youssef Idaghdour.

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DAY 3

Wednesday 14 December 2022

AfSHG African Society of Human Genetics

The 14th Meeting of AfSHG and the 2nd International Congress of SM2GH

Morning

08h30 ► 12h30

25 SELECTED ORAL PRESENTATIONS 10 MINS/PHD STUDENTS AND POST-DOC.

Chairs: Michel Ramsay & Mohammed Mzibri & Hind Dehbi

Exome sequencing of families from Ghana reveals known and candidate hearing impairment genes.
Samuel Mawuli Adadey. Faculty of Health Sciences, University of Cape Town, South Africa,

Temporal dynamics of host blood transcriptomes in malarial children in Burkina Faso.
Massar Dieng. New York University Abu Dhabi, United Arab Emirates

Computational Based SLIMs approach identifies Plasmodium Tryptophan protein A5K5E5_PLAVS as an interactor for Band 3 Anion Transporter.
Fatoumata Gnine Fofana. University of Sciences, Techniques and Technologies of Bamako / African Center of Excellence in Bioinformatics, Mali

Genomic sequencing of SARS-CoV-2 in Rwanda reveals the importance of incoming travelers on lineage diversity.
Yvan Butera. Ministry of Health, Rwanda

When women became men: genetic diagnosis of 46,XY Tunisian women presenting primary amenorrhea.
Khouloud Rjiba. Laboratory of cytogenetics and Biology of Human reproduction, Tunisia

Genetic study of isolated achalasia in a family of Tunisian origin.
Melek Trigui. Laboratory of Human Cytogenetics, Molecular Genetics and Reproductive Biology, Farhat HACHED University Hospital, Tunisia

Clinical and molecular characterization of Xeroderma Pigmentosum in Moroccan population.
Meriame Abbassi. Hassan II University Hospital, Morocco

Neurexin 2: a novel candidate gene for Parkinson's disease?
Katelyn Cuttler. Faculty of Medicine and Health Sciences, Stellenbosch University, South Africa

Mutation spectrum of the connexin 26 (gjb2) gene in moroccan patients with non-syndromic hearing loss. *Khawla El Fizazi. Sidi Mohamed Ben Abdellah University, Morocco*

WISP3 gene analysis among pseudorheumatoid dysplasia and juvenile idiopathic arthritis patients.
Dina El Dessouki. National Research Centre, Egypt

Clinical and genetic characterization of a large cohort of patients with Corpus Callosum Malformations in Tunisian population.
Bochra Khadija. Laboratory of Human Cytogenetics, Molecular Genetics and Reproductive Biology CHU Farhat Hached Sousse, Tunisia

Advances in genomic diagnosis of a large cohort of Egyptian patients with disorders of sex development.
Mona El Gammal. National Research Centre, Egypt

Host genetic factors contributing to the susceptibility to COVID-19.

DAY 3

Wednesday 14 December 2022

The 14th Meeting of AfSHG and the 2nd International Congress of SM2GH

The causal effects of lipids on Kidney function in Africans: bidirectional and multivariable Mendelian-randomization study.
Christopher Kintu. Makerere University, Uganda.

GWAS identifies genetic clusters of cardiometabolic risk factors in rural Ugandans and urban South Africans.
Tafadzwa Machipisa. University of Cape Town, South Africa

Impact of CTLA-4 and STAT3 genes polymorphisms on breast cancer susceptibility in the Moroccan population.
Nassima Ighid, Soumaya Elakil and El Hassan Izaabel. Ibn Zohr University, Morocco

Detection of AZFc deletion using MLPA in a cohort of Egyptian patients with idiopathic male infertility.
Maha Eid. National research center, Egypt

Transforming Genomics Research in Africa: Lessons from Successful Research Partnerships.
Hiba Babiker. Division of Genetic Research Partnerships, Variant Bio Inc. Seattle, USA"

LUNCH (12h30 ▶ 13h30)

Afternoon

12h00 ▶ 14h00 **PARTICIPANT REGISTRATION**

16h00 ▶ 17h00 **OPENING CEREMONY**
Salle Abdelaziz Meziane BELFKIH

Prof. Khalid Aït Taleb
Minister of Health and Social Protection

Prof. Nawal Boulahyaoui
Dean of the faculty of Dental Medicine, Mohammed V University of Rabat

Dr. Maryam Bigdeli
WHO Representative in Morocco

Chairs of the Conference:

*** Prof Khalid SADKI, President founder of the SM2GH**
*** Prof Ambroise Wonkam, President of the AfSHG**

Chairs: Khalid Sadki & Ambroise Wonkam

17h00 ▶ 17h35 **Plenary Conference 1:**
The translational genomics of complex diseases
Eleftheria Zeggini, German Research Center for Environmental Health Externes, Germany.

17h35 ▶ 18h05 **Plenary Conference 2:**
The evolution of public health immunogenomics into the new era of personalized medicine. (Past, Present, and Future)
Dominique charron, AP-HP Saint Louis Hospital, Paris University, France.

WELCOME COCKTAIL (18h05 ▶ 19h00)

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DAY 4

Thursday 15 December 2022

AfSHG African Society of Human Genetics

The 14th Meeting of AfSHG and the 2nd International Congress of SM2GH

Abdelaziz Meziane BELFKIH Room

Theme 1: Population Genetics and Bioinformatics (H3Africa)

Chairs: Leon Mutesa & Mohammed Zahir

08h30 ▶ 09h05 Keynote: **Genomic analyses reveal a complex African population demographic history and signatures of local adaptation.**
Sarah Tishkoff, University of Pennsylvania, USA

Session 1: Population Genetics and Bioinformatics I

09h05 ▶ 09h30 **African genome studies: Human migration and health.**
Neil Hanchard, National Human Genome Research Institute, USA.

09h30 ▶ 09h55 **Genomic contributions to cardiometabolic diseases in African populations from the H3Africa AWI-Gen study.**
Michèle Ramsay, University of the Witwatersrand, Johansburg, South Africa.

COFFEE BREAK / POSTERS (09h55 ▶ 10h25)

Session 2: Population Genetics and Bioinformatics II

Morning

Chairs: Scott Williams & Ahmed Belmouden

10h25 ▶ 10h50 **Genomic insights into the population history of North African groups.**
David Comas, Universitat Pompeu Fabra Barcelona, Spain.

10h50 ▶ 11h10 **Embracing African genetic diversity for novel gene discovery and genetic risk prediction.**
Segun Fatumo, MRC/UVRI & LSHTM, Uganda Medical Informatics Centre, Uganda.

11h10 ▶ 11h20 **Unravelling the genetic risk associated with major depressive disorder among an ethnically diverse African ancestry population.**
Kester Bevin Bataringaya Tindi, Ronald Galiwango, Dickens Howard Akena, Eugene Kinyanda and Allan Kalungi.

11h20 ▶ 11h30 **Mitochondrial HVRI and whole mitogenome sequence variations portray similar scenarios on the genetic structure and ancestry of northeast Africans.**
Maha Mohammed, Hisham Hassan, Mohammed Elnour, Heeran Makkan, Eyoab Gebremeskel, Thoyba Gais, Mahmoud Koko, Himla Soodyall and Muntaser Ibrahim.

11h30 ▶ 11h40 **Validation of New Gene Variant Classification Methods: a Field-Test in Diagnostic Cardiogenetics.**
Mohamed Zahir, Helga Westers, Yvonne Vos, K Joeri van der Velde, Rolf Sijmons, Paul van der Zwaag, Birgit Sikkema-Raddatz and Jan Jongbloed.

LUNCH (11h40 ▶ 12h40)

Join us in Rabat for this memorable experience.

DAY 4

Thursday 15 December 2022

AfSHG
African Society of Human Genetics

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Afternoon

Theme 2: Genetics of Infectious diseases / Single Cell Genomics

Chairs: Guida Landoure & Hicham Oumzil

12h40 ► 13h15 Keynote: **Mycobacterium-human interactions and the severity of tuberculosis.**
Scott Williams, Case Western Reserve University, USA.

Session 3: Genetics of Infectious Diseases 1

13h15 ► 13h40 **Burden of post-traumatic stress disorder and leukocyte methylomic imprints in associated neurocognitive outcomes in postgenocide Rwandan population.**
Leon Mutesa, Center for Human Genetics, Rwanda.

13h40 ► 14h05 **Inter-ethnic differences in global metabolomic responses to infection.**
Youssef Idaghdour, New York University Abu Dhabi, UAE.

14h05 ► 14h15 **Molecular characterization of SARS-CoV-2 detected in Morocco during the Omicron wave: Identification of the amino acid substitutions related to transmissibility and severity.**
Hassan Ihazmade, Khalid Sadki and Hicham Oumzil.

14h15 ► 14h25 **Resistome Analysis of Wastewater Treatment Plants in the Agadir Region, Morocco.**
Maryem Wardi, Zohra Lemkhente, Mohamed Aghrouch, Aicha Ait Alla, Noureddine Slimani, M'Hamed Abali, Fatima Boubrik and Ahmed Belmouden.

14h25 ► 14h35 **Causal effect of malaria on dyslipidemia in African Ancestry Individuals: A Mendelian randomization study.**
Mariam Traore, African Center of Excellence in Bioinformatics, University of Sciences, Techniques and Technologies of Bamako.

DAY 4

Thursday 15 December 2022

The 14th Meeting of AfSHG and the 2nd International Congress of SM2GH

COFFEE BREAK/POSTERS/EXHIBITS (15h50 ► 16h20)

Parallel Session 5

MEGAFLEX COMPANY SYMPOSIUM (16h20 ► 17h20)

Abdelaziz Meziane BELFKIH Room

Chair: Abdelilah Laraqui & Muntaser Ibrahim

Unlocking Precision Medicine thanks to Illumina combined NGS and Microarrays solutions.
Xavier David, Senior Manager – Genotyping Sales at Illumina.

Importance of QC in NGH and CGH workflows.
Hervé Chaulet, Agilent Technologies

CERBA COMPANY SYMPOSIUM (16h20 ► 17h00)

Abderrahman CHENNAF Room

Chair: Zohra Lemkhente & Larbi Baassi

The new era of cancer genetics in clinical practice.
Raouf Benabdelali.

M. tuberculosis gene resistance sequencing: a new tool in diagnosis.
Sabine Trombert.

THERMOFISHER COMPANY SYMPOSIUM (17H00 ► 17H40)

Chair: Fatima Boubrik & Amadou Gaye

Predictive Genomics: Using of Microarrays from mutation Screening to Polygenic Risk Scores.
Gonçalo Carvalho, Thermo Fisher Scientific.

WES and high troughtput genotyping supports the application of precision medicine into clinical practice.
Emiliano Giardina, Department of Biomedicine and Prevention, University of Rome Tor Vergata

Session 6: Genetics of Infectious Diseases 2

Chairs: Segun Fatumo

17h20 ► 17h40	**Wastewater genomic surveillance as an approach to track infectious diseases pathogens in the Agadir region.** *Ahmed Belmouden, Ibn Zohr University, Agadir, Morocco.*
17h40 ► 18h00	**Genomic approaches to malaria elimination.** *Issiaka Soulama, Ouagadougou, Burkina Fasso.*
18h00 ► 18h20	**Spillover: Jumping viruses and thé risque of new epidemic diseases.** *Sayeh Ezzikouri, Institut Pasteur du Maroc, Casablanca, Morocco.*

General Assembly of the AfSHG

(18h00)

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DAY 5

Friday 16 December 2022

AfSHG African Society of Human Genetics

The 14th Meeting of AfSHG and the 2nd International Congress of SM2GH

Morning

Abdelaziz Meziane BELFKIH Room

Theme 3: Hereditary disorders

Chairs: Melanie Newport & Hamid Barakat

08h30 ► 09h05 Keynote: **Five Priorities of African Genomics Research: The Next Frontier**
Ambroise Wonkam, McKusick-Nathans Institute and Department of Genetic Medicine, Johns Hopkins University.

Session 7: Genetics of Rare Diseases

09h05 ► 09h30 **High-throughput genomics reveals new findings on Moroccan family with Hyper IgE Syndrome: Towards a new atypical Entity.**
Khalid Sadki, Mohammed V University in Rabat, Morocco.

09h30 ► 09h55 **Rare diseases research in Africa: Achievements and remaining challenges**
Aimé Lumaka, University of Kinshasa, Democratic Republic of Congo.

09h55 ► 10h20 **Consanguinity and incidence of rare disorders in North Africa: From burden to opportunity.**
Ghada El-Kamah, Human Genetics and Genome Research Institute, National Research Center, Egypt.

Chairs: Issiaka Soulama & Amal Bouziane

10h20 ► 10h30 **Whole exome sequencing reveals known and candidate genes in non-syndromic hearing impairment in Mali.**
Abdoulaye Yalcouyé, Isabelle Schrauwen, Oumou Traoré, Christian Domilongo Bope, Alassane Dit Baneye Maiga, Abdoulaye Taméga, Anushree Acharya, Thashi Bharadwaj, Carmen de Kock, Mario Jonas, Oluwafemi G Oluwole, Cheick O Guinto, Guida Landouré, Suzanne M. Leal and Ambroise Wonkam.

10h30 ► 10h40 **The state of the art of Tunisian patients with Netherton Syndrome: Founder mutation in seven patients.**
Hamza Chouk, Sana Mokni, Lobna Boussofara, Noureddine Litaiem, Houda Hammami, Mourad Mokni, Badreddine Sriha, Ali Saad, Alain Hovnanian, Mohamed Denguezli and Dorra H'Mida.

10h40 ► 10h50 **Long-reads Nanopore-based sequencing to fully sequence the CFTR gene on potential CF African patients.**
Nada El Makhzen, Alexandre Bokhobza, Laila Bouguenouch and Hugues Abriel.

COFFEE BREAK / POSTERS (10h50 ► 11h15)

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DAY 5

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Session 8: Genetics of Complex Diseases

Morning

Chairs: Ghada El-Kamah & Nisrine Aboussair

11h15 ▶ 11h40 **Genetics of hearing loss: state of the art in Morocco.**
Hamid Barakat, Institut Pasteur du Maroc, Morocco.

11h40 ▶ 12h05 **Clinical and genetic characteristics of 53 Moroccan children's patients with Lysosomal storage diseases.**
Rachid Abilkassem, Hôpital d'instruction Militaire Med V de Rabat, Morocco.

Chairs: Rachid Abilkassem & Said Aoufouchi

12h05 ▶ 12h30 **Meta-analysis of estimated glomerular filtration rate (eGFR) among African Ancestry Individuals identifies PDZK1 as a novel locus for renal function.**
Richard Mayanja, Opeyemi S. Soremekun, Guanjie Chen, Abram Kamiza, Mariam Nakabuye, Christopher Kintu, Daudi Jjingo, Obondo J. Sande, Moffat Nyirenda, Charles N. Rotimi, Adebowale Adeyemo, Tinashe Chikowore and Segun Fatumo.

12h30 ▶ 12h40 **Cis-eQTL mapping of TB-T2D comorbidity elucidates the involvement of African ancestry in TB susceptibility.**
Yolandi Swart, Caitlin Uren, Clare Eckold, Jacqueline Cliff, Stephanus Malherbe, Katharina Ronacher, Cisca Wijmenga, Hazel Dockrell, Reinout van Crevel, Gerhard Walzl, Leanie Kleyn hans and Marlo Möller.

12h40 ▶ 12h50 **Discovery and fine-mapping in lipid multi-trait genome-wide study of 125,000 individuals of African ancestry.**
Abram Kamiza, Sounkou Touré, Opeyemi Soremekun, Tafadwa Machipisa, Feng Zhou, Cheickna Cissé, Christopher Kintu, Mamadou Wélé, Oyekanmi Nashiru, Jeffrey Shaffer, Aboubacrine Touré, Seydou Doumbia, Jennifer Asimit, Tinashe Chikowore and Segun Fatumo.

12h50 ▶ 13h00 **Copy number variation in autism spectrum disorders in Egyptian patients.**
Amal Mohamed, Ola Eid, Marwa Farid, Peter Safwat, Rana Mahrous, Saly Gharib, Nagwa Meguid, Amal Elsaeid and Maha Hemimi.

13h00 ▶ 13h10 **Microsatellite instability assessment of colorectal cancer (CRC) in Rwandan Patients.**
Nadia Hitimana, Yvan Butera and Leon Mutesa, University of Rwanda, Rwanda Ministry of health, Rwanda.

LUNCH: Talk with Editor about publishing; Scott Williams, PLOS Genetics (Session 9) (13h10 ▶ 14h10)

Afternoon

Free time

GALA DINNER (19h30)

DAY 6

Saturday 17 December 2022

The 14th Meeting of AfSHG and the 2nd International Congress of SM2GH

Abdelaziz Meziane BELFKIH Room

Theme 4: Cancer Genetics and Genomics

Chairs: Collet Dandara & Hassan Errihani

08h30 ► 09h05 Keynote: **Cancer genetics and polygenic inheritance.**
Walter Bodmer, Cancer and Immunogenetics Laboratory, Weatherall Institute of Molecular Medicine, University of Oxford, Oxford, UK.

Session 10: Cancer Genetics and Genomics

09h05 ► 09h30 **PerMediNA Project: precision medicine beyond oncology**
Yosr HAMDI, Pasteur Institute of Tunis, Tunisia.

09h30 ► 09h55 **Epigenetics Studies focussed on Cardiovascular Disease: Transcriptomics and DNA Methylation studies.**
Yasmine Aguib, Magdi Yacoub Heart Foundation (Egypt) and NHLI, Imperial College (UK)

COFFEE BREAK / POSTERS (09h55 ► 10h30)

Morning

Chairs: Rokhaya Ndiaye & Karim Ouldim

10h30 ► 10h55 **Molecular biomarkers in bladder cancer management: The era of immuno-oncology.**
Mohammed El Mzibri, National Center of Fnergy, Sciences and Nuclear, Rabat, Morocco.

10h55 ► 11h20 **Molecular characteristics of breast cancer about more than 2500 cases in the National Institute of Oncology.**
Fouzia Mamouch , National Institute of Oncology, Morocco.

11h20 ► 11h30 **Novel BRCA2 and SPART germline breast cancer variants in Ghanaian women.**
Claudia Anyigba, Lucas Amenga-Etego and Lily Paemka.

11h30 ► 11h40 **Incidental variants discovery in breast cancer predisposition genes in Malian population from 52 whole exome sequencing data.**
Modibo K Goita, Salia Bamba, Oumar Samassekou, Guida Landoure and Mahamadou Traore.

11h40 ► 11h50 **SULT1A1 c.*85C>T single nucleotide polymorphism is important in the pharmacogenomics of tamoxifen therapeutic response among South African Mixed Ancestry breast cancer patients.**
Bianca Kruger, Trevor Mafu, Jesmika Singh, Nyarai Soko, Delva Shamley and Collet Dandara.

Chairs: Rajae Elaouad & Sanaa Chala& Nadia El Kadmiri

11h50 ► 12h35 **Discussion Panel "Ethics Genomics"**

Sanaa Chala, Mohammed V University in Rabat, Morocco
Yosr Hamdi, Laboratory of Biomedical Genomics and Oncogenetics, Pasteur Institute of Tunis, Tunisia.
Nchangwi Syntia Munung, Division of Human Genetics, University of Cape Town, South Africa

12h35 ► 13h00 **AfSHG Gateway on Open Research Africa (ORA)**
Elizabeth Marincola, Science for Africa Foundation

LUNCH (13H00 ► 14H00)

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DAY 6

Saturday 17 December 2022

AfSHG
African Society of Human Genetics

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Afternoon

Theme 5: Translational Genetics

Chairs: Karima Elharti & Karim Benabdelah

14h00 ► 14h35 Keynote: **Gene addition and gene editing based therapies for inherited metabolic liver disorders.**
Gloria González Aseguinolaza, Foundation for Applied Medical Research, University of Navarra, IdisNA, Pamplona, Spain.

Session 11: Cancer Immunonotherapy

14h35 ► 15h00 **Immunotherapy anti-check point: experience of department of oncology university Mohammed V Rabat**
Hassan Errihani , National Institut of Oncology, Rabat, Morocco.

15h00 ► 15h25 **RNA therapeutics for human brain cancer treatment**
Rachid El Fatimy, Mohammed VI Polytechnic University, Morocco.

COFFEE BREAK AND GB (15h25 ► 16h00)

Session 12 : Translationnel Immunogenetics

Chairs: Dominique Charron & Gloria González Aseguinolaza

16h00 ► 16h25 **TET2 deficiency reprograms the germinal center B cell epigenome and promotes B-cell Lymphomagenesis**
Said Aoufouchi, Institut Gustave Roussy, Paris, France.

16h25 ► 16h50 **Fueling cancer immunotherapy with genome editing.**
Karim Benabdellah, Centre for Genomics and Oncological Research, Spain.

16h50 ► 17h15 **The Human Leukocyte Antigen (HLA) in psychiatric disorders.**
Ryad Tamouza, Mondor institute of biomedical research, Paris Est University Henri Mondor hospital, Créteil, France.

17h15 ► 17h25 **Proteomic variation and its correlation with obesity across two ethnic groups in Nigeria.**
Arjun Biddanda, Karen Perez de Arce, Golibe Eze-Echesi, Chiamaka Nwuba, Yusuf Ibrahim, Cameron D. Palmer, Abasi Ene-Obong, Jumi Popoola, Colm O'Dushlaine and Peter Fekkes.

17h25 ► 17h35 **Impact of rare genetic variants on ADME protein structures iden tified in sub-Saharan Africa: CYP3A5 as a study model.**
Houcemeddine Othman and Jorge E.B da Rocha.

17h35 ► 17h45 **Application of Whole Exome Sequencing Data: in Search of Infor mative African-Specific Pharmacogenetic Profiles for Warfarin.**
Arinao Ndadza, Kevin Esoh, Sarudzai Muyambo, Nyarai Soko, Pindile Mntla, Ambroise Wonkam, Mpiko Ntsekhe and Collet Dandara.

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CLOSING CEREMONY SESSION

Chairs: khalid Sadki & Ambroise Wonkam

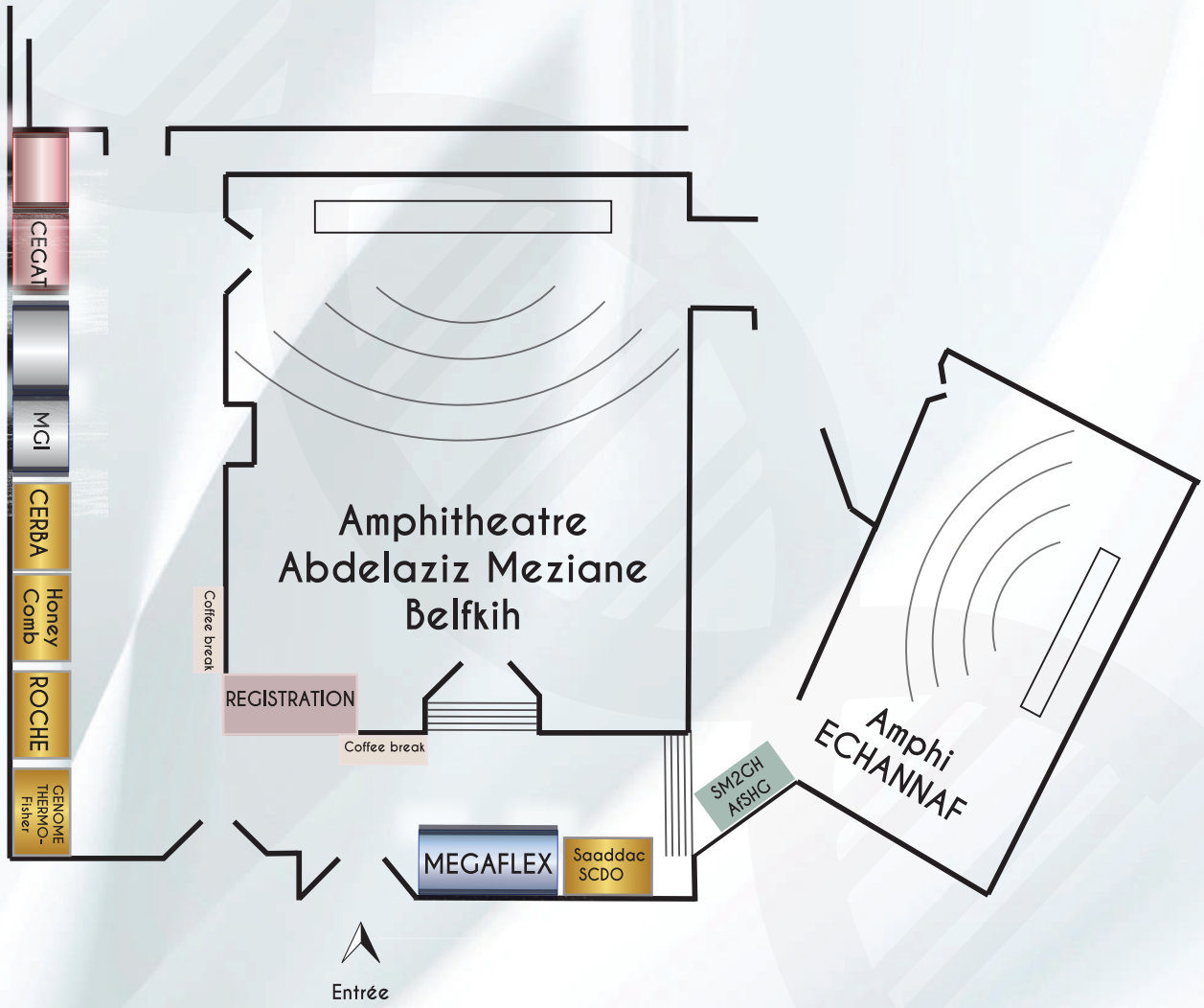
17h45 ► 18h45 Closing of Meeting and Prize Giving

PLAN

AfSHG
African Society of Human Genetics

The 14th Meeting of AfSHG and the 2nd International Congress of SM2GH

EXHIBITION FLOOR PLAN



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