



Next Generation Medicine — 2026

Future of Longevity

Program Agenda

7th to 10th November 2026

Atlantis The Royal, Dubai, UAE



Day 1

The New Discipline: Standards, Safety, and the 2030 Clinic

7TH November 2026

Theme: From Evidence to Adoption – Building the Clinic of 2030 Today

Moderator: Dr Saba Habibollah

9:00 AM – 9:45 AM

STANDARDS KEYNOTE

From Bench to Bedside 2030: How Emerging Regenerative Modalities Will Reshape Real-World Clinical Practice

PROFESSOR SEAN NG
Founder and Consultant, Ming Medical in Malaysia
Immunotherapy & Regenerative Medicine

9:45 AM – 10:30 AM

Regeneration Under the Microscope: ISSCR 2025 Guidance and its Influence on Emerging UAE Regulatory Frameworks for Advanced and Regenerative Therapies

DR SHAIKHA AL MAZROUEI
Co-founder, CELL LAB7
Member of International Stem Cells Research Association ISSCR
Member of International society of Cell and Gene Therapy
Member of the International Cryobiology Society
Head of UAE Stem Cell Group

10:30 AM – 11:00 AM

COFFEE & EXHIBITION

11:00 am – 11:30 AM

GRAND OPENING & WELCOME NOTE

(Moderator: Dr Saba Habibollah)

11:30 AM – 12:00 PM

VISION KEYNOTE

Medicine 3.0: Shift from population risk to AI-driven digital twins for personalized care

MR PHILIPPE GERWILL
DIGITAL HEALTHCARE HUMANIST & FUTURIST
HEALTHCARE AI & METAVERS KOL

12:00 PM – 12:25 PM

SPOTLIGHT

How to design, run, and future-proof a next-gen longevity/regenerative clinic

PROFESSOR DOMINIK THOR
PRESIDENT OF GENEVA COLLEGE OF LONGEVITY SCIENCE, PROFESSOR OF PHARMACY
VISITING PROFESSOR CAROL DAVILA UNIVERSITY OF MEDICINE & PHARMACY

12:25 PM - 12:50 PM

TREND SPOTLIGHT

Global trends linking research innovation and investment in 2026

MS ROKSANA GEDIR
CHAIR ADVISORY BOARD THERME ART AND MANAGING DIRECTOR THERME GROUP

12:50 PM - 13:15 PM

Translating Regenerative Medicine into Clinical and Policy Frameworks: Ethics, Innovation & Future Adoption

MS ALYAA AL MULLA
FOUNDER, LONGEVITY THINK TANK
LONGEVITY POLICY ADVISOR & FOUNDER, LONGEVITY THINK TANK

13:15 PM – 14:15 PM

NETWORKING LUNCH**TRACK A****Data to Decisions: Digital twins, RWE, Quality Metrics for Longevity Service Lines**

Moderator: Mr Philippe Gerwill

14:15 PM – 14:45 PM

From Patient Data to AI-Powered Digital Twins: Predicting Disease Trajectories & Simulating Interventions Before They Reach the Clinic

MR PHILIPPE GERWILL
DIGITAL HEALTHCARE HUMANIST & FUTURIST
HEALTHCARE AI & METAVERS KOL

14:45 PM – 15:15 PM

Agentic AI-powered Evidence-Based Medicine for Regenerative Care

DR FADY HANNAH-SHMOUNI
FOUNDER & CEO OF FABC GROUP

15:15 PM – 15:45 PM

Autonomous Clinics: AI Decision Support, Automation, and the Ethics of Algorithmic Medicine

DR MAZIN GADIR
DIRECTOR, HEALTHCARE & LIFE SCIENCES TO ALVAREZ & MARSAL (DUBAI)
DIGITAL HEALTH EXPERT IN WHO DIGITAL HEALTH TECHNICAL ADVISORY GROUP AND ROSTER OF EXPERTS

15:45 PM- 16:30 PM

PANEL DISCUSSION**Intelligence at the Bedside: How AI is Redefining Clinical Decision-Making and the Future of Longevity Care**

MODERATOR:
MR PHILIPPE GERWILL

PANELLISTS:
DR MAZIN GADIR; MR MARIO COLABUFO; MR SAKTHI VISAKAN; DR ANMOL KAPOOR

TRACK B**Theme: Regenerative Ophthalmology**

Moderator: Dr Sajjad Ahmad

14:15 PM – 14:45 PM

From Degeneration to Restoration: Cutting-Edge Approaches in Retinal Repair Science

PROF HENRY KLASSEN MD, PHD
PROFESSOR AT UC IRVINE
FOUNDER OF JCYTE, INC.

14:45 PM – 15:15 PM

Corneal Regeneration & Cellular Therapy: from stem cell sheets to exosome enhanced transplants for burns and trauma

DR SAJJAD AHMAD
CONSULTANT OPHTHALMOLOGIST & PROFESSOR OF CORNEAL REGENERATION,
MOORFIELDS EYE HOSPITAL / UCL

15:15 PM- 15:45 PM

Retinal regeneration and neuro-restoration strategies: gene editing, organoids and photoreceptor replacements

DR ROLY MEGAW
CONSULTANT OPHTHALMOLOGIST IN NHS LOTHIAN
SENIOR CLINICAL LECTURER AT THE UNIVERSITY OF EDINBURGH

15:45 PM- 16:30 PM

PANEL DISCUSSION**The Future of Vision Restoration: Translating Regenerative Ophthalmology from Lab to Clinic**

MODERATOR:
DR SAJJAD AHMAD

PANELLISTS:
PROF HENRY KLASSEN; DR ROLY MEGAW; DR VINOD GAUBA

16:30 PM – 17:00 PM

COFFEE & EXHIBITION

17:00 PM – 18:00 PM

INVESTOR & INNOVATOR PANEL

A focused session bringing together leading investors and breakthrough innovators to discuss emerging opportunities, strategic collaborations, and future directions in longevity, regenerative, and precision health.

MODERATOR:
MR TARIQ QUREISHY

PANELLISTS:
MR PAYAM TAMIZI; DR ANMOL KAPOOR, DR FADY HANNAH-SHMOUNI; DR JAFFER KHAN

18:00 PM- 20:00 PM

SUNSET COCKTAILS - SPEAKER ONLY NETWORKING

ATLANTIS THE ROYAL

A detailed microscopic image of cells, likely from a tissue sample, showing various cellular structures and membranes. The cells are stained, with some appearing in shades of orange and brown, while others are more translucent. The background is dark, making the cellular details stand out.

Day 2

Healthy Longevity: Therapeutics, Trials & Real-World Outcomes

8TH November 2026

Healthy Longevity: Therapeutics, Trials and Real-World Outcomes

Moderator: Mr Ettiene Du Plessis

9:00 AM – 9:30 AM

SPOTLIGHT ADDRESS

The Future of Medicine: Longevity, Data, and the Human Potential Revolution

MR. QURIESHY
CEO OF XPONENTIAL & MAD GROUP
BOARD MEMBER, GLOBAL SPEAKER, TRANSFORMATION ADVISOR & EXPERT, AUTHOR,
PODCAST VOICES OF THE FUTURE
FOUNDER OF THE FUTURE READINESS INSTITUTE

9:30 AM – 10:00 AM

HEALTHSPAN KEYNOTE

From Geroscience to Guidelines: Turning aging science into practical, measurable clinical frameworks

PROF BRIAN KENNEDY
DIRECTOR AT CENTER OF HEALTHY LONGEVITY
PROFESSOR DEPARTMENTS OF BIOCHEMISTRY & PHYSIOLOGY AT NATIONAL UNIVERSITY

10:00 AM – 10:30 AM

METABOLIC KEYNOTE

The GLP-1 Decade: Beyond Weight – Cardiometabolic Risk & Sarcopenia

DR ANDREA GARTNEBACH
CO-FOUNDER, AXMANN GARTENBACH – PRIVATE HEALTH MANAGEMENT
DIRECTOR OF EDUCATION, GENEVA COLLEGE OF LONGEVITY SCIENCE

10:30 AM – 11:00 AM

COFFEE & EXHIBITION

Theme- Therapeutics: mTOR modulation, NAD+ & mitochondria, microbiome-informed protocols

Moderator: Mr Ettiene Du Plessis

11:00 AM – 11:30 AM

mTOR Modulation 2.0: Designing Rapalog & Novel Inhibitor Programs for Safe Healthspan Extension

PROF BRIAN KENNEDY
DIRECTOR AT CENTER OF HEALTHY LONGEVITY
PROFESSOR DEPARTMENTS OF BIOCHEMISTRY & PHYSIOLOGY AT NATIONAL UNIVERSITY

11:30 AM - 12:00 PM

Powering the Aging Cell: NAD+ Restoration, Mitochondrial Therapies & Device-Assisted Delivery (PBM, IV Endolaser etc)

DR MICHAEL WEBER
DIRECTOR OF THE CENTER OF TCM, MITOCHONDRIAL AND PREVENTIVE MEDICINE IN PORTUGAL
PRESIDENT OF EUROPEAN TCM LASER ACADEMY

12:00 PM - 12:20 PM

The Longevity Microbiome: Precision Pre/Probiotics, Postbiotics & Gut-Immune Reprogramming for Healthy Aging and systemic resilience

DR ALLA ZAENTC
FUNCTIONAL MEDICINE SPECIALIST AT AEON CLINIC

12:20 PM - 12:40 PM

Designing the Longevity Clinic of Tomorrow: Operational Excellence, Regulation & Innovation in the UAE and GCC

DR. MISHKAT SHEHATA, MBBS, MRCP, MPH, DRCOG, DIPIBLM, AFMCP
FOUNDING MEMBER & VICE PRESIDENT, ELLMS
EXECUTIVE COMMITTEE MEMBER, WLMO
CHIEF MEDICAL OFFICER, OMICS
ADVISORY BOARD MEMBER, TITIAN LIFE SCIENCES
BOARD-CERTIFIED CONSULTANT PHYSICIAN IN LIFESTYLE, FUNCTIONAL & FAMILY MEDICINE
ADVISOR & EDUCATOR

12:40 AM - 13:00 AM

The Longevity Education Revolution: Training Physicians for the Healthspan Century

PROFESSOR DOMINIK THOR
PRESIDENT OF GENEVA COLLEGE OF LONGEVITY SCIENCE, PROFESSOR OF PHARMACY
VISITING PROFESSOR CAROL DAVILA UNIVERSITY OF MEDICINE & PHARMACY

12:40 PM - 13:00 PM

Precision in Practice: Integrating Genomic Data into Longevity Care

DR SABA HABIBOLLAH
MD, PHD, MSC, DIRECTOR CLINICAL OPERATIONS AND GENOMIC & LONGEVITY MEDICINE
SPECIALIST AT AEON CLINIC

13:15 PM - 14:15 PM

NETWORKING LUNCH

14:15 PM - 14:45 PM

SPOTLIGHT**Ozone Therapy and Longevity: Redox Balance, Mitochondrial Optimization & Systemic Regeneration**

ASSOCIATE PROFESSOR ADRIANA BOTEZATU

TRACK A**Theme: Regenerative Immunology & Inflammaging Reset**

Moderator: Dr Yevgeniy Khavkin

14:45 PM - 15:15 PM

KEYNOTE**The Current status and Immediate Future of Regenerative Medicine**

PROF. CHRIS PAULUS
EXECUTIVE DIRECTOR AT AMERICAN SOCIETY OF REGENERATIVE MEDICINE (ASRM),
AMERICAN BOARD OF REGENERATIVE MEDICINE (ABRM) AND AMERICAN
ACADEMY OF REGENERATIVE MEDICINE (AARM)

15:15 PM- 15:45 PM

Rebooting Immunity: A Regenerative Approach to Mitochondrial Dysfunction and Orthomolecular Restoration

DR MICHAEL WEBER

DIRECTOR OF THE CENTER OF TCM, MITOCHONDRIAL AND PREVENTIVE MEDICINE IN PORTUGAL
PRESIDENT OF EUROPEAN TCM LASER ACADEMY
EXPERT IN THE FIELD OF FUNCTIONAL, ORTHOMOLECULAR MEDICINE & MITOCHONDRIAL MEDICINE

15:45 PM - 16:10 PM

Inflammaging Reversal: Targeting Cellular Senescence, Cytokine Drift & Immune Dysregulation Across the Lifespan

DR. BASANTA KHATRY-CHHETRY

GENERAL PRACTITIONER- FUNCTIONAL, REGENERATIVE AND WELLNESS MEDICAL
PRACTITIONER AT AEON CLINIC

16:10 PM - 16:40 PM

Ozone Therapy in Clinical Medicine: Immune Modulation, Microcirculation & Systemic Healing Pathways

PROFESSOR NICOLAE BODRUG

HEAD OF THE DISCIPLINE OF GERIATRICS AND OCCUPATIONAL MEDICINE
PROFESSOR OF INTERNAL MEDICINE, "NICOLAE TESTEMIȚANU" STATE UNIVERSITY OF MEDICINE
AND PHARMACY

16:40 PM - 17:00 PM

Multi-Omics Medicine: Transforming Complex Data into Personalized Health Strategies

DR WAEL ABDRABOU

ASSISTANT PROFESSOR & SYSTEMS BIOLOGY RESEARCHER, ABU DHABI UNIVERSITY

TRACK B**Theme: Peptide Therapeutics & Advanced IV Medicine**

Moderator: Dr Ahmad Baraka

14:45 PM - 15:10 PM

Peptides for Recovery & Performance Longevity: Accelerating Tissue Repair, Musculoskeletal Healing & Neuro-Recovery in Active Individuals

DR HAYTHAM SALEM

CONSULTANT IN SPORTS & EXERCISE MEDICINE AND MUSCULOSKELETAL MEDICINE
FOUNDER & MEDICAL DIRECTOR, ARTHREGEN CLINICS

15:10 PM – 15:35 PM

Peptide Medicine 2.0 – Mechanistic Longevity: Cellular Repair, Senolytic Modulation & Tissue Regeneration

DR JOSPEH DIB

MEDICAL DIRECTOR, JUMEIRAH AMERICAN CLINIC
EXPERT IN FUNCTIONAL & REGENERATIVE MEDICINE

15:35 PM – 16:00 PM

Metabolic Rejuvenation with Peptides: Mitochondria, Energy Pathways & Metabolic Reset Protocols

DR BISHOY SAWIRIS

GLOBAL DIRECTOR OF BUSINESS DEVELOPMENT & MEDICAL AFFAIRS AT FUSION APOTHECARY

ADVANCED IV THERAPY TRACK

16:00 PM – 16:30 PM

Evaluating Premium IV Formulations: Pharmaceutical Quality, Stability, Bioavailability & Clinical Relevance

DR BISHOY SAWIRIS

GLOBAL DIRECTOR OF BUSINESS DEVELOPMENT & MEDICAL AFFAIRS AT FUSION

16:30 PM – 17:00 PM

Targeted IV Protocol Design for Regeneration: Mitochondrial Rescue, Immune Rebalancing & Inflammation Control

DR ALLA ZAENTC

FUNCTIONAL MEDICINE SPECIALIST AT AEON CLINIC

17:00 PM – 17:30 PM

COFFEE & EXHIBITION

14:45 PM- 15:15 PM

CASE GRAND ROUNDS

Interactive clinical case review on complex longevity protocols.

MODERATOR:

DR. FRANCISCO DE MELO

PANELLISTS:

DR ALLA ZAENTC, DR JOSEPH DIB, DR WASSIM ADADA; DR YASIR SHAFI



Day 3

**Regeneration in Motion: MSK/
Ortho, Pain & Brain – Mental
Health Longevity**

9TH November 2026

Regeneration in Motion: MSK/Ortho, Pain & Brain – Mental Health Longevity

Moderators: Dr. Fatima Jamali and Dr. Shaikha Al Mazrouie

9:00 AM – 9:50 AM

SPOTLIGHT TALK

The Regenerative Human: Rebuilding Body and Mind in the Age of Intelligent Healing

MR. TARIQ QUREISHY
CEO OF XPONENTIAL & MAD GROUP
BOARD MEMBER, GLOBAL SPEAKER, TRANSFORMATION ADVISOR & EXPERT, AUTHOR, PODCAST
VOICES OF THE FUTURE
FOUNDER OF THE FUTURE READINESS INSTITUTE

09:30 AM – 09:50 AM

ORTHO KEYNOTE

Orthobiologics 2.0: Evidence-based updates in PRP, MSC, and Exosome-adjunct therapies

PROF. DR. MASSIMO PIRACCI
CONSULTANT ORTHOPEDIC SURGEON SPECIALIZED IN REGENERATIVE &
SPORTS MEDICINE AT MEDCARE ORTHOPEDIC SPINE

09:50 AM – 10:10 AM

From injury to elite performance: a case presentation on combined PRP/HA and peptide therapy in injury management

DR HAYTHAM SALEM
CONSULTANT IN SPORTS & EXERCISE MEDICINE AND MUSCULOSKELETAL MEDICINE
FOUNDER & MEDICAL DIRECTOR, ARTHREGEN CLINICS

10:10 AM – 10:30 AM

The New Standard of Care: Integrating Diagnostic Ultrasound in Holistic Longevity and Regenerative Practice

DR ROZINA BADAL
GLOBAL DEVELOPMENT DIRECTOR AT AMERICAN BOARD OF REGENERATIVE MEDICINE

10:30 AM – 11:00 AM

COFFEE & EXHIBITION

Theme: Regenerative Orthopaedics & Chronic Pain Longevity

Moderator: Dr Fatima Jamali

11:00 AM - 11:20 AM

Stem Cell Therapy in Chronic Pain Management: A Regenerative Approach to Long-Term Relief

DR TAREK SULTAN
MSC,MD, PHD CONSULTANT ANESTHESIOLOGIST & PAIN MANAGEMENT & REGENERATIVE
MEDICINE IN UNITED NATIONS HOSPITAL,VETERAN ASSOCIATION HOSPITAL, GAINESVILLE
FLORIDA UNIVERSITY FL USA
PROFESSOR RESEARCHER AT COLLEGE OF MEDICINE UNIVERSITY OF FLORIDA USA

11:20 AM - 11:40 AM

Muscle & Tendon Regeneration: From Injury Recovery to Performance Longevity

DR AHMAD BARAKA
HEAD OF PHYSIOTHERAPY & REHABILITATION IN AEON CLINIC

11:40 AM - 12:10 PM

MENTAL HEALTH AND BRAIN LONGEVITY KEYNOTE**Regenerating the Mind: Cellular, Peptide & Neuromodulation Strategies for Mental Health and Cognitive Resilience**

MODERATOR:
DR ALI VAHDANI

PROF. DR. ALEXANDER T. SACK
CHAIR & PROFESSOR OF BRAIN STIMULATION AND APPLIED COGNITIVE NEUROSCIENCE AT
MAASTRICHT UNIVERSITY & MUMC+

12:10 PM - 12:30 PM

The Inflammatory Brain: Neurovascular Cell Therapy, Stem Cell and Exosome Applications in Stroke Recovery

ASSOCIATE PROFESSOR DR. MOJTABA KHAZAEI
NEUROLOGIST, NEUROVASCULAR INTERVENTIONIST, SPECIALIST & STEM CELL THERAPY
EXPERT AT BESAT HOSPITAL, HAMADAN UNIVERSITY OF MEDICAL SCIENCE, IRAN

12:30 PM - 12:50 PM

The Brain's Cleansing System: Glymphatic Function, Sleep Architecture & Waste Clearance for Longevity

DR OLIVIA LY LESSLAR
FACULTY LECTURER AT GENEVA COLLEGE OF LONGEVITY SCIENCE
FUNCTIONAL MEDICINE PRACTITIONER, PSYCHONEUROIMMUNOLOGY, QUANTUM MED &
TEDX SPEAKER

12:50 PM - 13:15 PM

Precision Neuromodulation in Practice: rTMS and Beyond for Depression, Anxiety & Cognitive Longevity

DR ALI VAHDANI
MEDICAL DIRECTOR AT AIC CITY POLYCLINIC
SPECIALIST PSYCHIATRIST AT AEON CLINIC
HEALTHCARE ACCREDITATION & QUALITY IMPROVEMENT

13:15 PM - 14:15 PM

NETWORKING LUNCH

Theme: Translational Updates – New Horizons in Regenerative Medicine

Moderator: Dr Yevgeniy Khavkin

14:15 PM – 14:45 PM

Metabolic Syndrome- a cure for Type 2 Diabetes Mellitus

PROFESSOR SEAN NG
FOUNDER AND CONSULTANT, MING MEDICAL IN MALAYSIA
IMMUNOTHERAPY & REGENERATIVE MEDICINE

14:45 PM – 15:15 PM

Advances in Hemoglobinopathy Management: From Pathogenic to Curative CRISPR-Cas9 Gene Editing/Therapy Approaches

DR MEHRAN KARIMI
PEDIATRIC HEMATOLOGIST-ONCOLOGIST AT AMERICAN HOSPITAL
PROFESSOR EMERITUS OF PEDIATRIC HEMATOLOGY & ONCOLOGY

15:15 PM – 15:45 PM

Immunotherapy (Natural Killer Cells and EV Chemo-drug transport)

PROFESSOR SEAN NG
FOUNDER AND CONSULTANT, MING MEDICAL IN MALAYSIA
IMMUNOTHERAPY & REGENERATIVE MEDICINE

15:45 PM – 16:05 PM

Metabolic Regeneration 2.0: Redefining Detox Through Next-Generation Perfusion & Oxygenation Therapies

DR MARTIN KRUPITZA
FOUNDER, BIOCANNOVEA MEDICAL LONGEVITY CLINICS

16:05 PM- 16:30 PM

AI Will Not Replace Doctors but Doctors Using AI will Redefine Medicine

MR MARIO COLABUFO
FOUNDER & CEO OF MC HOLDING & DIGITAL MINDS MARKETING MANAGEMENT COMPANIES

14:15 PM – 16:30 PM

MASTERCLASSES (HANDS-ON AND LIVE DEMONSTRATION)**TRACK A****Neuromodulation & Brain Longevity**

Hands-on with rTMS and neurodevices for cognitive resilience

TRACK B**Bridging Biology and Biomechanics: The Future of Regenerative Orthopedics**

Injectable hydrogels, exosome scaffolds, and stem cells for repair

16:30 PM – 17:00 PM

COFFEE & EXHIBITION

17:00 PM - 18:00 PM

PLENARY PANEL**Exosomes, MSCs & Orthobiologics: What's Real, What's Next, What's Regulated in regenerative science**

MODERATOR:
DR ASAWARI BAPAT

PANELLISTS:
DR SHAIKHA; DR HIBA KHALIL; DR GUISEPPE MUCCI; DR FATIMA AL JAMALI

Neuromodulation & Brain Longevity

Hands-on with rTMS and neurodevices for cognitive resilience

DR ALI VAHDANI
MEDICAL DIRECTOR AT AIC CITY POLYCLINIC
SPECIALIST PSYCHIATRIST AT AEON CLINIC
HEALTHCARE ACCREDITATION & QUALITY
IMPROVEMENT SPECIALIST

PROF. DR. ALEXANDER T. SACK
CHAIR & PROFESSOR OF BRAIN
STIMULATION AND APPLIED COGNITIVE
NEUROSCIENCE AT MAASTRICHT
UNIVERSITY & MUMC+

Workshop Overview

A practical training designed to build competency in rTMS application through live demonstrations, supervised practice, and case-based learning to build real-world clinical competency through immersive practice.

Duration: 2 hours 15 mins

Format: Live Demonstration; Supervised Practice; Case Simulations

Target Audience: Physicians, Psychiatrist, Neurologists, Mental Health Practitioners

Workshop Summary

- Hands-on focus: 70% practical, 30% theory
- Small group rotations ensure direct practice for all participants
- Live supervision: immediate correction and feedback from facilitators
- Case-based learning: bridges theory with real-world clinical practice

14:15 PM – 14:25 PM

Orientation to rTMS Principles (10 mins)

Fundamentals of rTMS technology and clinical applications
Safety considerations and patient selection

14:25 PM – 14:40 PM

Demonstration: rTMS Device & Setup (15 mins)

Equipment overview and calibration
Coil types and positioning basics

14:40 PM- 15:05 PM

Hands-On Practice: Coil Positioning (25 mins)

Motor threshold determination
Correct placement techniques with peer-to-peer practice

15:05 PM – 15:35 PM

Protocol Application (30 mins)

Application of standard protocols (depression, anxiety, OCD, ADHD)
Troubleshooting and patient comfort strategies

15:35 PM – 16:00 PM

Integration & Case Scenarios (25 mins)

Case-based exercises linking protocols to clinical presentations
Role-play for patient intake and consent

16:00 PM – 16:15 PM

Documentation & Compliance (15 mins)

Recording session parameters and outcomes
Regulatory and quality assurance requirements

16:15 PM – 16:30 PM

Wrap-Up & Competency Check (15 mins)

Practical assessment of skills
Feedback and certification of participation

Bridging Biology and Biomechanics: The Future of Regenerative Orthopedics

Injectable hydrogels, exosome scaffolds, and stem cells for repair

DR MASSIMO PIRACCI
CONSULTANT ORTHOPEDIC SURGEON SPECIALIZED IN REGENERATIVE & SPORTS
MEDICINE AT MEDCARE ORTHOPEDIC SPINE HOSPITAL

Workshop Overview

The session will convey how injectable biomaterials, exosome-based scaffolds, and stem cell integrations are converging to restore function in orthopedic, pain, and neuro-regenerative applications.

The goal: demonstrate transition from bench to bedside – how smart biomaterials and biologics are being used today in real clinical protocols.

14:15 PM – 14:25 PM

Opening and Framing the Session

SPEAKER:
DR. MASSIMO PIRACCI (CHAIR / MODERATOR)

Welcome and introduction: Overview of the regenerative paradigm: how hydrogels, exosomes, and scaffolds enhance repair in musculoskeletal and neural tissues

Objectives of the live demonstrations:

- Demonstrate clinically applicable methods for integrating biomaterials and biologics
- Provide scientific rationale backed by translational research
- Encourage interactive learning through live demonstrations

14:25 PM – 14:50 PM

Keynote Lecture

Topic: Smart Biomaterials: From Injectable Hydrogels to Functional Tissue Integration

SPEAKER:
DR. SHARMILA TULPULE
ORTHOPEDIC SURGEON WITH EXPERTISE IN REGENERATIVE MEDICINE AT MEDCARE ORTHOPEDICS & SPINE
HOSPITAL DUBAI. EXPERT IN ORTHOPEDIC REGENERATIVE TREATMENTS: PRP, STEM CELLS, GOLDIC.

Content Focus:

- Evolution of bio-scaffolds
- Mechanotransduction and microenvironment design
- Translational hurdles: safety, vascularization, degradation kinetics

14:50 PM – 15:15 PM

Translational Science Update

14:50 PM- 15:10 PM

Topic: Cellular Products in Regenerative Orthopedics: Science-Based Personalized Protocols

SPEAKER:
PROF. HIBA BADRELDIN KHALIL AHMED
PROFESSOR OF HEMATOLOGY AND STEM CELL TECHNOLOGY – MLS; RESEARCH SCIENTIST, ABU DHABI STEM
CELLS CENTER, UAE; FOUNDER OF ALNEELAIN STEM CELL CENTER, SUDAN; DIPLOMAT & AFFILIATE OF AMERICAN
BOARD OF REGENERATIVE MEDICINE

15:10 PM - 15:30 PM

Topic: Exosome-Enhanced Scaffolds: A Next-Generation Platform for Orthobiologic Repair

SPEAKER:

DR. HAYTHAM ELKHATIB)
ORTHOPEDIC SURGEON IN DUBAI MARINA WITH CERTIFICATION IN REGENERATIVE MEDICINE, PRP, GUIDED
INJECTIONS, ETC. (EMIRATES HOSPITALS)

Key Features:

- Role of MSC-derived exosomes in modulating inflammation and regeneration
- Integration of exosomes within biomaterials (collagen, hyaluronic, fibrin-based)
- Early-phase clinical outcomes in tendon, cartilage, and neural applications

15:30 PM – 16:10 PM

Live Demonstration (Masterclass Segment I)

Theme: Injectable Biologic Scaffolds in Orthopedic and Pain Applications

LEAD DEMONSTRATORS:

PROF. DR. MASSIMO PIRACCI

Practical demonstration of hydrogel + stem cell mixture for joint and spine regenerative therapy

PROF. DR. MOHAMMED AL JUMAILY

Intervertebral disc and paraspinal applications

Live Focus:

- Preparation and activation of injectable hydrogels
- Combination with PRP, BMAC, or ADSCs
- Ultrasound-guided injection techniques

16:10 PM – 16:30 PM

Live Demonstration (Masterclass Segment II)

Theme: Exosome Scaffold and Neuroregeneration Interface

LEAD DEMONSTRATORS:

PROF. DR. MOHAMMED AL JUMAILY

Peripheral nerve repair with biologic conduits

Highlights:

- Exosome-rich scaffolds for nerve gap repair
- Cross-talk between exosomes and host Schwann cells
- Pain modulation and neuroplasticity implications

16:30 PM – 16:40 PM

Closing Remarks and Discussion

SPEAKER:

PROF. DR. PIRACCI MASSIMO

Integrative summary of orthopedic, pain, and neuroregenerative themes

A microscopic view of cells and bubbles, likely representing reproductive health. The image shows several large, clear, spherical structures (possibly oocytes or sperm) with internal granular details, surrounded by smaller bubbles and a network of fine lines. The background is a soft, out-of-focus light green and blue. A semi-transparent orange banner is overlaid on the bottom left, containing the event details.

Day 4

**Reproductive & Sexual Health,
Women's Health, Andrology and
Aesthetic Longevity**

10TH November 2026

Reproductive & Sexual Health, Women's Health, Andrology and Aesthetic Longevity

Moderator: Dr. Yuliya Burmagina

09:00 AM – 9:30 AM

Biomarkers of Aging: Mapping the Molecular Signatures of Longevity

DR EVELYNE BISCHOF
CO-FOUNDER & PRESIDENT, HEALTHY LONGEVITY MEDICINE SOCIETY
PROFESSOR OF MEDICINE, SHANGHAI UNIVERSITY OF MEDICINE & HEALTH SCIENCES
MEDICAL DIRECTOR, SHEBA LONGEVITY DEPARTMENT
GLOBAL LEADER IN HEALTHY LONGEVITY MEDICINE, AI & PRECISION HEALTH

09:30 AM – 10:00 AM

WOMEN'S HEALTH KEYNOTE

Reproductive Longevity: Regenerating ovarian function and extending fertility span

DR ANNA SEPIOLO
CO-FOUNDER OF EV CLINIC IN DUBAI
FUNCTIONAL & AESTHETIC GYNECOLOGIST

10:00 AM – 10:30 AM

ANDROLOGY KEYNOTE

Male Sexual Health & Vitality: Redefining Masculine Longevity in the Modern Era

DR FLUTURA HAROLD
GENERAL PRACTITIONER FUNCTIONAL MEDICINE LONGEVITY DOCTOR

10:30 AM – 11:00 AM

COFFEE & EXHIBITION

TRACK A

Theme: Fertility & Sexual Health Regeneration- Clinical applications in hormone and fertility restoration

11:00 AM - 11:20 AM

The Endocrine Clock of Fertility: Mitochondria, Epigenetics & Hormone Axis Rejuvenation

DR JASMIN MALEK
CONSULTANT IN FAMILY MEDICINE
SPECIALIST IN HORMONES, METABOLIC HEALTH, AESTHETIC AND REGENERATIVE MEDICINE
FOUNDER OF MENOPAUSE CIRCLE

11:20 AM - 11:40 PM

Root Cause Reversal: Integrative and Functional Strategies for Infertility Management

DR JOSEPH DIB
MEDICAL DIRECTOR, JUMEIRAH AMERICAN CLINIC
EXPERT IN FUNCTIONAL & REGENERATIVE MEDICINE

11:40 PM - 12:00 PM

Regenerative Performance Medicine: Optimizing testosterone, vascular health, and libido in aging men

DR OLEKSANDR KNIGAVKO
CONSULTANT IN REGENERATIVE UROLOGY AND MENS SEXUAL HEALTH AT AEON CLINIC

12:00 PM - 12:20 PM

Reprogramming the Mind-Body Axis: The Psychology of Stress, Hormones, and Fertility Longevity

DR OLIVIA LY LESSLAR
FACULTY LECTURER AT GENEVA COLLEGE OF LONGEVITY SCIENCE
FUNCTIONAL MEDICINE PRACTITIONER, PSYCHONEUROIMMUNOLOGY, QUANTUM
MED & TEDX SPEAKER

12:20 PM - 13:00 PM

PANEL DISCUSSION**From Hormone Decline to Fertility Longevity: Integrative, Regenerative & Mind-Body Strategies That Work**

MODERATOR:
DR JASMIN MALEK

PANELLISTS:
DR OLEKSANDR KNIGAVKO; DR OLIVIA LY LESSLAR; DR ANNA SEPIOLO; DR YULIYA BURMAGINA

TRACK B**Theme: Reconstruction Aesthetic and Longevity - Cellular and biologic interventions for skin and hair rejuvenation.**

Moedrator: Dr Francisco De Melo

11:00 AM - 11:30 AM

Cellular Aesthetics: Exosomes, Stem-Cell-Derived Factors & Regenerative Biologics for Skin Longevity

DR. LICA ECATERINA
DERMATOLOGY SPECIALIST AT AEON
CEO & MEDICAL DIRECTOR OF DOCTOR LICA CLINIC IN MOLDOVA
CO-FOUNDER OF LONGEVITY CODE COURSE

11:30 AM - 12:00 PM

Hair Regeneration: Restoring Follicle-Fibroblast Signaling for Youthful Renewal

DR MOHAMMAD MAZHAR HUSSAIN
CONSULTANT FAMILY MEDICINE, FUNCTIONAL MEDICINE
PHYSICIAN & HAIR RESTORATION SPECIALIST AT AEON CLINIC
FOUNDER, REVIVO HEALTH

12:00 PM - 12:30 PM

Regenerative Reconstruction: Biologic Scaffolds, Fat-Derived MSCs & Exosome-Enhanced Healing in Post-Surgical Aesthetics

DR FRANCISCO DE MELO
SENIOR CONSULTANT PLASTIC SURGEON AND REGENERATIVE & AESTHETIC SURGERY EXPERT AT
AEON CLINIC AND AESTHETIC INTERNATIONAL
FACULTY MEMBER AT VILLA FORTUNY ACADEMY

12:30 PM - 13:00 PM

Scar Revision 2.0: Regenerative Approaches to Fibrosis, Vascularity & Collagen Remodeling

DR MAZEN AL SAMARRAE
SPECIALIST GENERAL SURGEON & REGENERATIVE & AESTHETIC MEDICINE EXPERT AT AEON CLINIC

13:00 PM - 13:15 PM QUESTIONS & ANSWERS

13:15 PM - 14:15 PM NETWORKING LUNCH

Theme: Building the Longevity Economy

Moderator: Dr Samar Habibullah

14:15 PM – 14:45 PM

KEYNOTE

Longevity Destinations: Positioning the UAE as a Global Hub for longevity Medicine and Medical Tourism

MR PAUL BAKER
PRESIDENT OF ATLANTIS AT KERZNER INTERNATIONAL

14:45 PM – 15:10 PM

Advancing Human Longevity Through Cellular and Subcellular Therapies: Clinical, Scientific, and Economic Perspectives

DR DZIHAN ABAZOVIC
MONTENEGRO- GRA (GLOBAL REGENERATIVE ACADEMY PRESIDENT)

15:10 PM – 15:30 PM

Investment Readiness for Regenerative Startups- Building investor confidence and global market access.

TINA WOODS
FOUNDER & CEO, COLLIDER HEALTH
FOUNDER & CEO, BUSINESS FOR HEALTH
EXECUTIVE DIRECTOR, INTERNATIONAL INSTITUTE OF LONGEVITY

15:30 PM – 16:00 PM

Genome Stability and DNA Repair Capacity- the Future of Longevity Medicine

DR GIUSEPPE MUCCI
CHIEF EXECUTIVE OFFICER & FOUNDER AT BIOSCIENCE INSTITUTE

16:00 PM - 16:45 PM

CAPSTONE PANEL

Clinics of 2030: Expert projections for how longevity clinics will operate by 2030.

MODERATOR:
DR JAFFER KHAN

PANELLISTS:
TINA WOODS; DR EVELYNE BISCHOFF; DR BRIAN KENNEDY, PROF. DOMINIK THOR

16:45 PM – 17:00 PM

CLOSING KEYNOTE

Mesenchymal Stem Cells and Longevity: Promise, Mechanisms and Ongoing Controversies

DR GIUSEPPE MUCCI
CHIEF EXECUTIVE OFFICER & FOUNDER AT BIOSCIENCE INSTITUTE

TRACK A

14:15 PM – 17:00 PM

**Theme: A GCLS Translational Longevity Science
for Clinicians Workshop**

25% tuition reduction on GCLS Certified Longevity Physician Programme should attendees wish to enroll in the full course. Guidelines and Case Studies from the GCLS Certified Longevity Physician Programme

TRACK B

14:15 PM – 17:00 PM

**Musculoskeletal Diagnostic Ultrasound
Workshop- Knee joint Ultrasound**

17:00 PM – 17:30 PM

COFFEE & EXHIBITION

GCLS Translational Longevity Science for Clinicians Workshop

MODERATORS:

DR. ANDREA GARTENBACH (DIRECTOR OF MEDICAL EDUCATION DEPARTMENT, GCLS)
PROF. DOMINIK THOR (PRESIDENT OF GCLS)

An Advanced Practitioner Workshop

This specialized workshop, delivered in collaboration with the Geneva College of Longevity Science (GCLS), offers a structured and evidence-driven immersion into the clinical foundations, diagnostics, and applied practice of modern longevity medicine. Designed for physicians and advanced practitioners, the programme provides a rigorous translational bridge between cutting-edge longevity science and real-world clinical implementation.

Foundations of Longevity Medicine

An evidence-based introduction to the central physiological systems and clinical domains that define contemporary longevity medicine. This session establishes a clear conceptual framework for practitioners, outlining the learning objectives, competency pillars, and clinical scope of practice required for responsible and impactful longevity care.

The Swiss Framework for Healthy Longevity Medicine Clinics

A detailed exploration of the landmark publication "Towards Responsible Longevity Medicine: Swiss Framework for Healthy Longevity Medicine Clinics" (Taylor & Francis). Participants will gain key insights into the ethical, structural, and operational principles proposed by the Swiss working group, and learn how these guidelines translate into real-world clinical governance, patient safety, and evidence-based longevity practice.

Diagnostics Protocol Deep Dive

A comprehensive review of the biomarker domains and functional assessments essential for risk stratification and personalized intervention planning. This segment covers:

- Multi-system biomarker panels
- Interpretation strategies and clinical thresholds
- Biological age assessment and phenotypic profiling
- Functional performance testing
- Decision-making pathways for individualized programs

Participants will gain clarity on practical application, sequencing, and integration of diagnostics in a longevity-focused clinical workflow.

Applied Clinical Cases: From Evaluation to Intervention

Through interactive case-based learning, clinicians will examine real-world patient scenarios that demonstrate:

- Translational use of diagnostic data
- Personalized multimodal intervention planning
- Longevity therapeutics selection and sequencing
- Monitoring, outcome tracking, and longitudinal optimization

This session emphasizes practical reasoning, clinical nuance, and evidence-based management strategies that can be directly incorporated into daily practice.

Workshop Impact

Participants will leave with:

- A structured clinical framework informed by GCLS standards
- Enhanced competency in longevity diagnostics and risk assessment
- Practical tools for designing personalized longevity treatment plans
- Ethical and governance principles aligned with international best practice
- Greater confidence in integrating longevity science into routine clinical workflows

Musculoskeletal Diagnostic Ultrasound- Knee joint Ultrasound - Hands-On Workshop

Ultrasound Scanning Basics and Diagnostic Sonographic Evaluation of the Knee Joint

LEAD INSTRUCTOR:
DR. ROZINA BADAL MUNIR
ULTRASOUND SPECIALIST, KAISER PERMANENTE WLA, CA, USA | GLOBAL DEVELOPMENT
DIRECTOR ABRM/ASRM

This hands-on session is designed to build practical competency in MSK ultrasound with a focus on real-time scanning of the knee joint. Participants will rotate through structured scanning stations and learn standardized protocols used in orthopedic, sports medicine, and regenerative practice.

The goal: To ensure every participant can perform a complete diagnostic knee ultrasound, understand pathology patterns, and apply imaging skills directly to guided regenerative treatments

Introduction & Workshop Structure

INSTRUCTOR:
DR. ROZINA BADAL MUNIR

Content: Importance of ultrasound as a first-line imaging tool in MSK and regenerative medicine
Overview of workshop flow: stations, live scans, supervised practice

Learning objectives:

- Master basic ultrasound controls and probe handling
- Perform a systematic knee scan
- Identify common pathology
- Practice guidance skills for biologic injections

14:15 PM - 15:00 PM

Presentation/ Foundational Training Segment

Topic: Ultrasound Machine Basics & Image Optimization

Hands-On Components:

- Probe selection: linear probe, MHz settings
- Adjusting depth, gain, focus, and Doppler
- Eliminating artifacts such as anisotropy
- Ergonomic positioning for accuracy and patient comfort
- Sono anatomy (MSK)
- Pathology

15:00 PM - 15:45 PM

Anterior Knee Scanning Protocol

Live Demo + Hands-On Rotation
Instructor Demonstration → Participant Practice
Structures Practiced:

- Quadriceps tendon
- Suprapatellar recess (effusion, synovitis)
- Articular cartilage of femoral trochlea
- Patellar tendon (proximal, mid, distal)
- Infrapatellar fat pad

Clinical Focus:

- Sonographic patterns of tendinopathy, partial tears
- Identifying bursitis and joint effusion

15:45 PM - 16:15 PM

Medial & Lateral Knee Evaluation

Hands-On: Ligaments and Meniscus Assessment

Participants scan:

- MCL & LCL (static + dynamic stress maneuvers)
- Medial and lateral meniscus
- Iliotibial band
- Lateral recess and popliteus region

Diagnostic Goal:

- Recognize extrusion, capsular separation, cysts, fiber disruption

16:15 PM - 17:00 PM

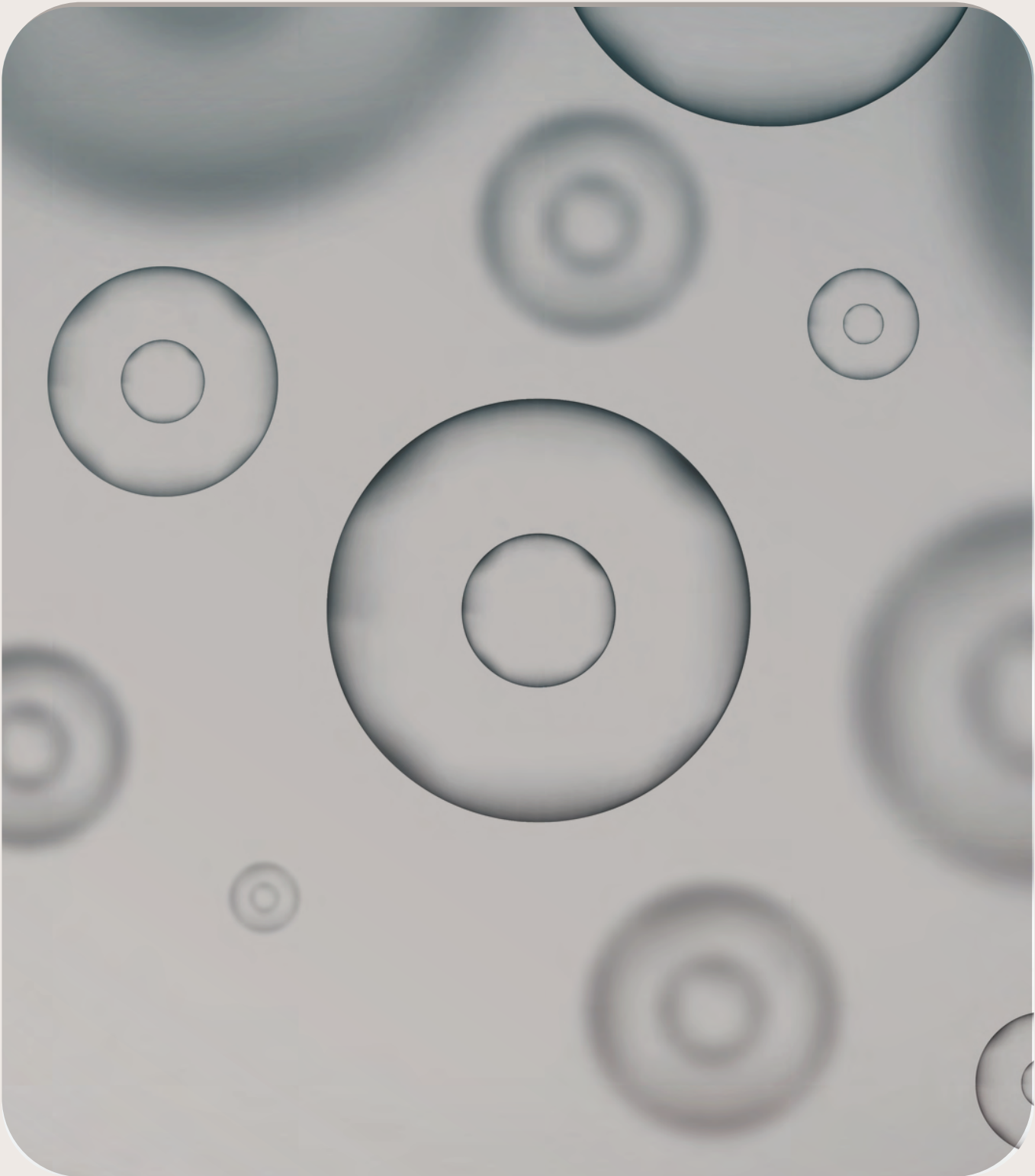
Posterior Knee & Popliteal Fossa

Structures Covered:

- Baker's cyst (identification)
- Popliteal vessels (safety mapping)
- Posterior horn meniscus
- Hamstring tendons and gastrocnemius–semimembranosus interface

Clinical Application:

- Differentiating cystic vs. solid lesions
- Doppler for pre-injection safety



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