



8^o I.S.Mu.L.T. Congress

Open mind and new technologies in muscles,
ligaments and tendons

Salerno - 30th November - 1st December 2018
Grand Hotel Salerno

Congress President

Nicola Maffulli
Alfonso Maria Forte

Programme Committee

Lucio Cipollaro, Giovanna Della Porta, Antonio Frizziero,
Lorenzo Giordano, Francesco Oliva, Antonio Oliviero,
Alfonso Maria Romano, Giovanni Felice Trinchese.

3 Awards of € 1.000 each

Sponsored by **IBSA Foundation** for scientific research.

Friday, 30 November

7:30 ○ Registration

8:30 ○ Welcome from the authorities

○ **SESSION 1**

Tendinopathy: Not Always that easy!

Chairman: A. Giai Via, N. Maffulli

9:00 Acute and chronic tendinopathies - **C. Rugiero (Roma)**

9:10 High ankle partial sprain arthroscopic treatment - **M.Krochmalski (Poland)**

9:20 Biological therapies for tendinopathy - **W. Murrell (UAE)**

9:30 Tendinopathy: pain management during return to sport - **C. Foti (Roma)**

9:40 **DISCUSSION**

○ **SESSION 2**

Mainlectures

Chairman: F. Oliva

9:50 Biomechanical Bioscaffold Test for cartilage degeneration - **B. Innocenti (Belgium)**

10:10 ○ **I.S.Mu.L.T. Guidelines**

Chairman: N. Maffulli, G. Nanni

Muscles Injuries Guidelines Update after 5 Years.

10:30 ○ **COFFEE BREAK**

○ **AULA CILENTO “PARALLEL SESSION BASIC SCIENCE “ REGENERATIVE MEDICINE SOLUTIONS FOR THE MUSCULOSKELETAL SYSTEM**

Chairman: B. Barboni, A. C. Berardi, M. Fini, G. Della Porta, E. Giordano

11:00 Tenogenic commitment of Mesenchymal Stem Cells in a 3D scaffold and dynamic culture - **M.C. Ciardulli (Salerno)**

11:10 Biopolymer Tendon Biomimetic Scaffolds and the behavior of Amniotic Epithelial Stem Cells - **M. El Khatib (Teramo)**

11:20 Micro/nano-carriers engineering for the controlled release of bio-actives - **I. Palazzo (Italy)**

11:30 Amplification protocol to improve tendon regenerative potential of amniotic epithelial derived cells - **A. Canciello (Italy)**

11:40 Medium perfusion flow improves osteogenic commitment of human stromal cells - **J. Lovecchio (Bologna)**

11:50 Stem cells in the treatment of osteoarthritis: an experimental model in sheep - **A. Muttini (Teramo)**

12:00 **DISCUSSION**

SESSION 3

Mainlectures

Chairman: N. Maffulli, F. Oliva, R. Romeo

11:00

Prof. Kessler History and tendon Repair - **A. Oron (Israel)**

11:20

In memory of Prof John B King - **N. Maffulli (Salerno)**

SESSION 4

Tenosynovitis and Peritenonitis

Chairman: A. Frizziero, A. Siano

11:30

Pathological conditions related to tenosynovitis - **G. Criscuolo (Salerno)**

11:40

The role of power doppler and US evaluation for the best treatment - **A. Mahmoud (Egypt)**

11:50

Rheumatological conditions - **P. Moscato (Salerno)**

12:00

DISCUSSION

12:10

WORKSHOP FIDIA “HYALURONIC ACID AND TENDINOPATHIES”

Chairman: M. Fini, M. Fogli, L. Osti

The Role Of Hyaluronic Acid In Tendinopathies: In-Vivo And In-Vitro Studies - **F. Veronesi (Bologna)**

Therapeutic Effects Of Hyaluronic Acid Injections In Tendinopathies - **A. Frizziero (Padova)**

I.S.Mu.L.T. Guidelines For Achilles Tendon Ruptures - **F. Oliva (Italy)**

DISCUSSION

SESSION 5

Mainlecture

Chairman: N. Maffulli

12:50

Circulating HRNA during training - **G. Banfi (Milano)**

13:20

LUNCH

SESSION 6

Management of Sport

Chairman: V. Agosti, C. Foti, M. Sirico

14:20

The role of nutraceuticals in tendinopathies - **S. Bisicchia (Roma)**

14:30

Recover-sensibility of neuromuscular performances in clinically healthy soccer players under fatigue conditions - **L. Riela (Croatia)**

14:50

Muscle injury and nutrition - **A. Paoli (Padova)**

15:00

DISCUSSION

AULA CILENTO "PARALLEL SESSION ATHENA BIOMEDICAL INNOVATION" CELL THERAPY UPDATE IN MUSCLE LIGAMENTS AND TENDON REGENERATION

Chairman: S. Rossi

- 15:00 Peripheral Blood Mononuclear Cells (PBMNC) : Mechanism of action and scientific rationale - **L. Rehak (Roma)**
- 15:15 Cell therapy in vascular surgery. The Italian college of vascular surgery - experience - **S. Furgiuele (Roma)**
- 15:30 PBMNC preliminary data on tendons regeneration: ultrasound and clinical findings - **F. Occhigrossi (Roma)**
- 15:45 **DISCUSSION**

ASSEMBLEA PLENARIA SOCI

A. Frizziero, N. Maffulli, F. Oliva

- 15:10 Adeguamento Statuto previsto dal D.M. del 2 agosto 2017 - **A. Fusco (Roma)**
- 15:20 **Votazione Soci**

WORKSHOP IBSA

Chairman: N. Maffulli, F. Oliva

- Efficacy of topical diclofenac epolamine patch for treatment of musculoskeletal pain - **A.Forte (Salerno)**
- High and low-molecular weight hyaluronic acids for the treatment of Osteoarthritis:
What's new? - **A.Frizziero (Padova)**

AULA CILENTO SESSION PARALLEL SITOD "OPEN MIND AND NEW POTENTIALITIES FOR ESWT"

Chairman: E. Amelio, A. Notarnicola, M. C. Vulpiani

- 16:00 ESWT and self - healing: the present and new perspectives - **M. C. D'Agostino (Milano)**
- 16:10 ESWT in bone diseases - **S. Gigliotti (Napoli)**
- 16:20 ESWT in muscle - **A. Notarnicola (Bari)**
- 16:30 ESWT in tendinopathies - **M. Vetrano (Roma)**
- 16:40 **DISCUSSION**

SESSION 7

The Traumatic knee

Chairman: P. Farsetti, E. Pintore

- 16:30 Management of Floating Knee - **G. F. Trinchese (Napoli)**
- 16:40 Management of Knee Dislocation - **L. Panarella (Roma)**
- 16:50 Complex Fractures associated with soft tissue injuries - **V. Calvisi (L'Aquila)**
- 17:00 **DISCUSSION**

AULA CILENTO PARALLEL SESSION BASIC SCIENCE 2 “ADVANCED TARGET AND CONTROLLED DELIVERY OF THERAPEUTICS FROM LAB TO BED SIDE”

Chairman: A. C. Berardi, F. Oliva, G. Della Porta

- 17:00 Liposomes: novel fabrication technology and perspective from drug delivery in orthopaedics - **P. Trucillo (Salerno)**
- 17:10 Musculoskeletal applications of liposomes technology - **L. Cipollaro (Salerno)**
- 17:20 Heat shock induces the expression of pro-inflammatory cytokines in human Achilles tendon tenocytes - **A. D'Addona (Salerno)**
- 17:30 Therapeutic potential of MicroRNA in tendon injuries - **L. Giordano (Salerno)**
- 17:40 MicroRNA in osteoarthritis physiopathology diagnosis and therapeutic challenge - **A. Oliviero (Salerno)**
- 17:50 **DISCUSSION**

SESSION 8

Training and Rehabilitation

Chairman: D. Falera, A. M. Forte, S. Rossi

- 17:10 The HIPSTER programme for rehabilitation after joint arthroplasty - **V. Guarino (Napoli)**
- 17:20 Tendinopathy - **D. Sessa (Salerno)**
- 17:30 Muscle Lesion - **C. S. Ramponi (Treviso)**
- 17:40 ACL - **M. C. Calabrese (Salerno)**
- 17:50 **DISCUSSION**

SESSION 9

Peripheral Nerve Ailments

Chairman: F. Esposito, G. Iaconetta

- 18:00 Diagnostic evaluation EMG - **G. Iaconetta (Salerno)**
- 18:10 Ultrasound - **M. Zappia (Napoli)**
- 18:20 Surgical procedures for drop foot - **N. Maffulli (Salerno)**
- 18:30 Upper Limb Nerve compression Syndrome - **G. Criscuolo (Salerno)**
- 18:40 **DISCUSSION**

21:00 GALA DINNER

Saturday, 1 December

SESSION 10

It is swollen! Should we stick a needle in it?

Chairman: G. Borsellino, P. Somma, A. Tucciarone

8:30

Synovitis - **C. Albeni (Roma)**

8:40

Recalcitrant swollen knees - **P. Moscato (Salerno)**

8:50

Management of blunt injury to the thigh. How I do it. - **A. Valent (Modena)**

9:00

DISCUSSION

SESSION 11

Bone Oedema

Chairman: S. Gatto, G. Maccauro, A. Toro

9:10

PEMS in bone oedema - **M.Fini (Bologna)**

9:20

Post-traumatic bone oedema - **A. De Carli (Roma)**

Systematic collection of clinical data: a web based registry for physical and rehabilitative medicine - **N. Maffulli (Salerno)**

9:55

DISCUSSION

AULA CILENTO "PARALLEL SESSION SISPEC"

Chairman: A. Basile, E. Pintore

10:00

Os Trigonum Syndrome - **E. Tagliatela (Caserta)**

10:10

Luxation Of Lesser Toes: Percutaneous - **G. Lucattelli (Perugia)**

10:20

Treatment Of Morton's Neuroma - **O. Catani, F. Sergio, F. Zanchini (Napoli)**

10:30

Compartment Syndrome Of The Foot - **F. Barca (Modena)**

10:40

A New Mt-P1 Flexible Hinge Implant - **S. Fieschi (Verona)**

10:50

DISCUSSION

WORKSHOP AGAVE

"TENDINOPATHY: UPDATE ON DIAGNOSTIC AND THERAPEUTIC STRATEGY"

Chairman: Prof. N. Maffulli

10:00

Epidemiology, risk factors and diagnostic approach - **F. Oliva (Roma)**

10:10

Critic role of Nitric Oxide in hypoxic condition - **D. Tiso (Rimini)**

10:20

Impact of nutraceuticals to improve extracorporeal shock wave therapy effectiveness in the treatment of plantar fasciopathy - **M. Barazzuol (Mestre)**

10:40

COFFEE BREAK

SESSION 12

Tendinopathies around the Knee

Chairman: F. Bruno, F. Oliva, G. Di Rienzo

11:10

Distal Ileo tibial tendinopathy - **M. Vetrano (Roma)**

11:20

Pes Anserinus Tendinopathy - **V. De Luna (Roma)**

11:30

Quadriceps Tendinopathy- **F. Vittadini (Venezia)**

11:40

DISCUSSION

AULA CILENTO “ PARALLEL SESSION SIA “ MINIMIZING ACL REINJURIES IN SOCCER

Chairman: A. Corsini, L. Moretti

12:00

I'm orthopedic: my point of view - **A. Russo (Enna)**

12:15

I'm radiologist: my point of view - **F. Di Pietto (Napoli)**

12:30

I'm team doctor: my point of view - **G. Nanni (Bologna)**

12:45

DISCUSSION

SESSION 13

Shoulder fracture when Prosthesis

Chairman: N. Capuano, F. Lisanti, M. Spoliti

11:50

Shoulder prosthesis for failed osteosynthesis of Proximal humerus fractures - **M. Spoliti (Roma)**

12:00

Main causes of shoulder prosthetic dislocation - **F. Spiezia (Potenza)**

12:10

Management of Shoulder Prosthetic instability - **A. M. Romano (Napoli)**

12:20

DISCUSSION

SESSION 14

Shoes and insoles

Chairman: J.Padulo, M. C. Vulpiani

12:30

From foot plantar pressure analysis to Insoles prescription - **L. Russo (L'Aquila)**

12:40

Shoes and insoles related to the motor task - **J. Padulo (Novredate)**

12:50

News on Insole - **M. D'Antuono (Roma)**

13:00

Scientific update on shoes: from daily life to sports and treatment - **M.Frezza (Napoli)**

13:10

DISCUSSION

13:30

LUNCH

SESSION 15

Ankle instability what is new?

Chairman: L. Di Lorenzo, D. Notarfrancesco, F. Oliva

14:30

Chronic Syndesmosis Injuries - **A. Saxena (USA)**

14:40

Anterior Talofibular Ligament Reconstruction - **F. Treia (Roma)**

14:50

Deltoid ligament reconstruction - **C. Biz (Padova)**

15:00

Rehabilitation after ligament repair - **F. Forte (Salerno)**

15:10

DISCUSSION

15:20

ISMULT & IBSA Foundation "Award 2018"

Chairman: B. Innocenti, N. Maffulli, F. Oliva, J. Padulo

SESSION 16

Mainlecture

Chairman: N. Maffulli

15:30

Evidence of Posterior lengthening for Equinus Deformity - **A. Saxena (USA)**

15:40

Prolotherapy: The evidence is mounting - **W. Murrell (UAE)**

16:00

AULA CILENTO "ROUND TABLE SIMRIM" INTERVENTIONAL REHABILITATION MEDICINE: PRESENT AND FUTURE

Discussants :R. Saggini, P. Fiore, A. Frizziero: M. Vetrano

SESSION 17

The aged patients fractured

Chairman: G. Lenza, N. Maffulli, B. Moretti

15:50

Decades of pharmacological treatment for osteoporosis: does it really help? - **F. Gimigliano (Napoli)**

16:00

Evidence based nails and plates for femur fractures - **A. Medici (Avellino)**

16:10

Sarcopenia and risk of fractures - **A. M. Martone (Roma)**

16:20

Balance and proprioception in aged patients - **A. Servadio (Roma)**

16:30

DISCUSSION

SESSION 18

Stiff shoulder

Chairman: G. Cotugno, A. M. Romano

16:40

Injection therapies - **C. Costantino (Parma)**

16:50

Calcific tendinopathy and stiff shoulder - **A. Gaii Via (Milano)**

17:00

Scapular dyskinesia and stiff shoulder - **A. Frizziero (Padova)**

17:10

Frozen shoulder and stiff shoulder: same joint, much differences - **M. Vetrano (Roma)**

17:20

Proprioception training for management and prevention - **D. Creta (Bologna)**

17:30

DISCUSSION

SESSION 19

Spastic muscle and botulinum toxin therapy

Chairman: L. Cannaviello, C. Cisari, P. Fiore

17:40

Physiopathology and therapy of spasticity - **A. Santamato (Foggia)**

17:55

Rationale of botulinum toxin treatment for spasticity in adult patients - **L. Cannaviello (Salerno)**

18:10

Beyond botulinum toxin: post injection treatment and functional surgery - **A. Baricich (Novara)**

18:25

DISCUSSION

18:40

CLOSING REMARKS AND PRESENTATION OF ISMULT 2019

Prof. N. Maffulli

GENERAL INFORMATION

Congress Venue

Grand Hotel Salerno - Auditorium Tafuri

Lungomare Clemente Tafuri 1, 84127 Salerno

Official Language

Italian. Italian/English and vice versa simultaneous translation will be provided.

Registration Fees

	I.S.Mu.L.T. Members	No members
Registration for physicians	€ 100 (VAT exempt)	€ 200 (VAT exempt)
Registration for other professionals	€ 60 (VAT exempt)	€ 110 (VAT exempt)
I.S.Mu.L.T. annual membership	€ 50 (12 months)	

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Registration tool

Registration form must be completed online. It is available on ismult.com/iscrizione.php

Accepted payment methods available online.

CME credits

11 CME credits will be available for Physician: rehabilitation medicine specialists, sportphysicians, surgeons, rheumatologists, orthopedics and traumatology specialists, orthopedists, radiologists, x-ray technicians, physiotherapists, nurse and physical educators.

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Veronesi F.
Vetrano M.
Vittadini F.
Vulpiani M. C.
Zanchini F.
Zappia M.

POSTER 2018

ALDO FERRARI

L'impiego della ginocchiera Teno-dol® nel trattamento conservativo non farmacologico del dolore cronico del ginocchio. Primi risultati

A. Ferrari, E. Cuciniello, A. Ganzu

LORENZO RIELA

Functional Movement Screen in football: a pilot study

L. Riela, M. Muratore, J. Padulo

VITTORIA MARIA PATANIA

The benefits of the music on low intensity vs. high intensity exercise on RPE

V. Patania, A. De Giorgio, L. P. Ardigò, R. Coppola, J. Padulo

EDOARDO BORI

Analysis of the passive ligament tension in natural knee: already 40 N are enough to achieve stability. A cadaveric biomechanical study

E. Bori, M. G. Branni, M. Ledl, M. T. Birke, T. Paszicsnyek, B. Innocenti

Development of an experimental set-up to characterize human articular cartilage

E. Bori, J. C. Larrieu, J. Vanlauwe, T. Scheerlinck, B. Innocenti

GIOVANNI GALEOTO

Musculoskeletal Health Questionnaire: translation, cultural adaptation and validation of the Italian version (MSK-HQ-I)

G. Galeoto, V. Piepoli, E. Ciccone, R. Mollica, J. Sansoni, A. Servadio

IDA PALAZZO

Supercritical Emulsion Extraction technology: a case study on PLGA/PLA micro/nano-carriers engineering for the controlled release of bio-actives

I. Palazzo, M. C. Ciardulli, E. Reverchon, N. Maffulli, G. Della Porta

MARCO MICELI

Prime esperienze di imaging dinamico muscolo-scheletrico con apparecchiatura dedicata RM

M. Miceli, D. Olimpi

MARIA CAMILLA CIARDULLI

hGDF-5 drives the tenogenic commitment of hBM-MSCs: a case study on a 3D multiphase scaffold with the cooperative effect of cyclic strain

M. C. Ciardulli, L. Marino, I. Palazzo, J. LoVecchio, E. Giordano, C. Selleri, N. Maffulli, G. Della Porta

MONICA MONICI

Pain control and protective effect of NIR laser therapy by MLS-Mis source in a rat model of compressive mononeuropathy: an in vivo and ex vivo study

M. Monici, F. Cialdai, A. Pacini, J. J. V. Branca, L. Morbidelli, E. Lucarini, C. Ghelardini, L. Micheli, L. Di Cesare Mannelli

DANILO RANIERI

An innovative amplification protocol to improve tendon regenerative potential of amniotic membrane derived cells

A. Canciello, V. Russo, A. Mauro, O. Di Giacinto, M. Turriani, E. Mazzotti, A. Muttini, H. Sanyal, B. Barboni

ANGELO CANCELLO

Surgical Achilles Tendon Tears Using Platelet-Rich Fibrin Matrices and conventional methods: An outcomes evaluation

M. Mangone, A. Bernetti, F. Agostini, F. Alviti, V. Santilli

ELEONORA MAZZOTTI

Effects of donor age on proliferation and differentiation potential of Synovial Fluid derived mesenchymal stem cells

E. Mazzotti, F. Mastrangelo, F. Chiarini, A. Muttini, G. Teti

FEDERICA LEPORE

La sindrome ischio femorale e gli esiti di fratture trocanteriche

F. Lepore, S. Gatto, G. Toro, A. De Cicco, A. Toro, A. Schiavone Panni

MOHAMMAD EL KHATIB

The Physical and Chemical Properties of Biopolymer Scaffolds Affect the Behavior of Amniotic Epithelial Stem Cells while Mimicking Tendon Extracellular Matrix

M. El Khatib, V. Russo, M. Schnabelrauch, A. Mauro, P. Berardinelli, M. R. Citeroni, O. Di Giacinto, D. Nardinocchi, M. Turriani, M. Ancora, B. Barboni

ROBERTO COPPOLA

Muscle strength, Physical exercise, Bodybuilding, Isotonic machine, Brzycki formula

R. Coppola, F. Guerra, V. M. Patania, G. Penna, J. Padulo

The Brzycki formula' optimization for the 1-RM calculation with isotonic machine in football player

R. Coppola, J. Drago, V. M. Patania, G. Penna, J. Padulo

Analysis of the effects of Dynamic Neuromuscular Stabilization technique on fitness training to develop postural stability

R. Coppola, M. Teodora

The effects of the multicolor shoes on attention during basic football tasks in children

R. Coppola, A. De Giorgio, B. Arnone, S. Costanzo, J. Padulo

DEBORA BURINI

A morphological analysis of glenohumeral joint in patients affected by calcium pyrophosphate dihydrate crystal deposition disease

D. Burini, S. Salucci, S. Burattini, F. Fardetti, V. Calvisi, A. Beccarini, P. Gob, E. Falcieri, D. Curzi

MARIA GALASSO

Posture and vision

M. Galasso, N. Di Stazio

GIOVANNI CAUTIERI

Percutaneous medializing calcaneal osteotomy: our experience

G. Cautiero, O. Catani, F. Sergio, F. Zanchini

CINZIA BONANNI

Trattamento con onde d'urto nel morbo di Dupuytren: un'opzione terapeutica?

C. Bonanni, S. Brunelli, M. Traballes, C. Foti

KROCHMALSKI MAREK

High ankle partial sprain arthroscopic treatment

M. Krochmalski, J. Krochmalski

BIAGIO MORETTI

La valutazione integrata, con test funzionali, elettromiografici e psicologici, per il ritorno in campo dopo la lesione del LCA

L. Moretti, D. Bizzoca, I. Bortone, N. Caringella, M. Delmedico, B. Moretti

CARLO STEFANO RAMPONI

Ratio between maximus gluteus strength and hamstring strength and correlation with muscle injuries in football players: a retrospective study

C. S. Ramponi, D. Babameto

PAOLO TRUCILLO

Liposomes: novel fabrication technology and perspective for drug delivery in orthopedics

P. Trucillo, L. Cipollaro, N. Maffulli, G. Della Porta, E. Reverchon

MARIA CRISTINA ZIELINSKI

Biomechanical analysis of gait disturbances in football, rugby players and skiers following anterior cruciate ligament reconstruction

M. C. Zielinski ,R. Twycross Lewis, N. Maffulli, R. Woledge

MARCO GOVONI

Innovative DBM moldable putty for the controlled release of antibiotics and osteoinductive molecules

M. Govoni, G. Della Porta, A. Santoro, A. Oliviero, E. Reverchon, N. Maffulli, M. Fini, L. Vivarelli, G. Ruspaggiari, D. Dallari

ANITA SOMMELLA

Valutazione ultra-sonografica di fascia plantare e tendine d'Achille ed impatto sulla performance del salto in atleti professionisti: studio di coorte

A. Sommella, C. Curci, A. Palomba, A. Saponara, G. Iolascon, A. Forte

ANNA KUNA

Complications of postoperative scar healing process cause pain and limit the range of motion of the knee joint

A. Kuna, J. Krochmalski, M.Krochmalski

FRANCESCA VERONESI

Pulsed electromagnetic fields and platelet rich plasma for the treatment of wear-mediated periprosthetic osteolysis: in vitro and in vivo studies

F. Veronesi, M. Tschon, M. Sartori, D. Contartese, L. Martini, A. Parrilli, M.Fini

