



E.C.O.S.E.P.



6TH CONGRESS OF ECOSEP

EUROPEAN COLLEGE OF SPORTS & EXERCISE PHYSICIANS

FROM LABS
TO THE PITCH



29/30
Nov. 2019

INSEP
PARIS - FRANCE
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PROGRAM



08.00 - 09.00	REGISTRATION
09.00 - 10.00	SESSION 1 : RESEARCH IN SPORT - FROM LABS TO THE PITCH
PARIS 1900 - BUILDING D	SCHWARTZ C. (BELGIUM) Interest of motion analysis in prevention and to improve performances (15 min.)
CHAIR: MALLIAROPOULOS N. (GREECE)	VALLE X. (SPAIN) Surgery in hamstring injuries, why and when (15 min.)
	GUILHEM G. (FRANCE) Performance analytics & tech transfer in a high performance environment (15 min)
10.00 - 10.30	SESSION 2 : OPENING CEREMONY
PARIS 1900 - BUILDING D	LOHRER H. (GERMANY)
	LE GARREC S. (FRANCE)
	KAUX J.F. (BELGIUM)
	STAMOS T. (GREECE)
10.30-11.00	COFFEE BREAK
11.00-13.00	SESSION 3 : TENDINOPATHIES
PARIS 1900 - BUILDING D	PYNE D. (UK) Medical tendon disorders which can affect athletes (15 min.)
	PEERS K. (BELGIUM) New method of evaluate the tendon (15 min.)
CHAIR: KAUX J.F. (BELGIUM) - PADHIAR N. (UK)	CHAN O. (UK) Intra-substance achilles tendon tears - imaging ant treatment (15 min.)
	PADHIAR N. (UK) Achilles tendon Update - Is high volume image guided injection the best treatment for mid-portion Achilles tendinopathy? (15 min.)
	GARD S. (SWITZERLAND) Scapular dyskinesia in sport: an update (15 min)
	GROBLER D. (GERMANY) Subscapularis, please help me ! (15 min)
	QUESTIONS AND ANSWERS (15 min.)

11.00-13.00	SESSION 4 : TEAM PHYSICIAN CHALLENGE
AMPHITHÉÂTRE - BUILDING C	GHRAIRI M. (UEA) What team doctor does not learn at the medical school (15 min.)
	PAKRAVAN A. (UK) Team behind the team (15 min.)
CHAIR: GHRAIRI M. (UEA) - FREY A. (FRANCE)	FREY A. (FRANCE) The medical specificities of judo in the field (15 min.)
	NGUYEN S. (FRANCE) French team physician: experiences with Gymnastics and Women's Tennis (15 min.)
	MAILLÉ P. (FRANCE) Role of club doctors in a professional football club (15 min.)
	SÉBASTIEN P. (FRANCE) Yes handball can... (15 min.)
	QUESTIONS AND ANSWERS (30 min.)
11.00-13.00	SESSION 5 : GLOBAL SPORTS DENTISTRY DEVELOPMENT AND SPORTS MEDICINE (EA4SD)
LONDRES - BUILDING C D'ORIOLA	CANTAMESSA S. (FRANCE) Impact of the oral health in sports performance (20 min.)
	MILLS S. (USA) Sports dentistry in USA, its history, its present, its future (20 min.)
CHAIR: DARTEVELLE J.L. (FRANCE) - KNOWLTON R. (USA)	GOETTERT F. (GERMANY) The DGSZM functional treatment concept for Olympic and elite athletes (20 min)
	ENGELS-DEUTSCH M. (FRANCE) Oral cavity bacterial factor and overall health of athletes (20 min.)
	STAMOS T. (GREECE) Is sport dentistry the new specialty? The athletes give the answer (20 min.)
	FINE P. (UK) Sports dentistry, it's all about education (20min)
11.00-13.00	SESSION 6 : ORAL PRESENTATIONS
GRECQUE - BUILDING D	CHALATSIS E. (GREECE) The effects of the foot strike pattern on lower limb muscle activity and vibration in recreational runners: a systematic review (10 min.)
CHAIR: LOHRER H. (GERMANY) - LE GARREC S (FRANCE)	TZOANOS G. (GREECE) Healing of the patella harvest donor site and tendon graft in bone-tendon-bone anterior cruciate ligament reconstruction in football players (10 min.)
	DAOUKAS S. (UK) Conservative treatment options for Achilles tendinopathy neovascularization : a systematic review (10 min.)
	KEKELEKIS A. (GREECE) Rehabilitation process and return to play criteria after plantar fascia rupture of a player. A clinical case. (10 min.)

BÄCKER H. (GERMANY)

Epidemiology and injury patterns of Swiss aerial sports (5 min.)

VASILEIOS S. AND BASDEKIS G. (GREECE)

Knee injury and oxygen uptake at rest in Greece professional soccer players : a preliminary report (5 min.)

KHUDADAH M. (UK)

Review of efficiency of the current referral pathways to the Bart's health sport and exercise medicine center : results of clinical audit and recommendation for setting a novel virtual sports and exercise triage clinic (5 min.)

KHUDADAH M. (UK)

Retrospective review and case series of Judo related injuries presented to the Barts Health NHS Sport and Exercise Medicine Department (5 min.)

PARASKEVAIDIS M. (UK)

Extracorporeal Shockwave Therapy in Sports and Rehabilitation Medicine in view of treating ankle ligament injuries (5 min.)

KHAN M.D. (UK)

Bluesfest lacrosse : medical cover and the use of diagnostic pitch-side ultrasound (5 min.)

EKOUTA MALLET D. (CAMEROUN)

Sports health in Cameroun : from basic activities to generalization for a whole population (5 min.)

TSIKOURIS G. (GREECE)

The Suprascapular Nerve Arthroscopic Anterior and Endoscopic Posterior Release in Elite Volleyball Players (5 min.)

QUESTIONS AND ANSWERS (40 min.)**11.00-13.00****LOS ANGELES /
SÉOUL -
BUILDING B****SESSION 7 : WORKSHOP INDUSTRY - GENOUROB****11.00-13.00****BARCELONE -
BUILDING B****SESSION 8 : WORKSHOP INDUSTRY - BOIRON****13.00-14.30****LUNCH BREAK****14.30-16.30****SESSION 9 : ANKLE****PARIS 1900 -
BUILDING D****MALLIAROPOULOS N. (GREECE)**

Lateral Ankle Ligaments Clinical Classification (20 min.)

FREY A. (FRANCE)

Syndesmotic lesions of the ankle (20 min.)

GEHRING D. (GERMANY)

Chronic ankle instability - Functional and biomechanical aspects (20 min.)

LOHRER H. (GERMANY)

Suture tape augmentation for additional stabilization of lateral ankle instability (20 min.)

AGUILANIU A. (BELGIUM)

Rehabilitation of ankle sprain (20 min.)

GOLLHOFFER A. (GERMANY)

Role of external stabilizers in rehabilitation and prevention of ankle injuries in sport (20 min.)

**CHAIR:
GOLLHOFFER A.
(GERMANY) -
FREY A.
(FRANCE)**

14.30-16.30	SESSION 10 : ULTRA SPORTS SCIENCE FOUNDATION
AMPHITHÉÂTRE - BUILDING C	BROCHERIE F. (FRANCE) Scientific support in a multi-stage marathon competition (15 min.)
	LE GOFF C. (BELGIUM) Cardiac biomarkers and long distance running (15 min.)
CHAIR: SCHEER V. (GERMANY) - LE GARREC S. (FRANCE)	SCHEER V. (GERMANY) Medical problems in ultra endurance running (15 min.)
	MILLET G. (SUISSE) Physiology of ultra-endurance - updated evidence-based risks assesement (30 min.)
	LE GARREC S. (FRANCE) Open water Swimming : Medical approach to international competitions (15 min.)
	RICHALET J.P. (FRANCE) Acute High-Altitude Sickness prevention and management (15 min.)
	QUESTIONS AND ANSWERS (15 min.)
14.30-16.30	SESSION 11 : EXERCISE MEDICINE AND SPORTS PREVENTION
LONDRES - BUILDING C D'ORIOLA	FRANCAUX M. (BELGIUM) Activation of autophagy during exercices: consequence for health (15 min.)
CHAIR: PADHIAR N. (UK) - EDOUARD P. (FRANCE)	THOREUX P. (FRANCE) Immediate and Long-term Outcomes of a Physical Activity Intervention Impacted by Chronic Disease Diagnosis: an explorative study about 383 patients (15 min.)
	VALLE X. (SPAIN) FCB, How we try to protect players (15 min.)
	SILVERA J. (FRANCE) Particularities of the ulnar nerve in weightlifters (15 min.)
	BRUCHARD A. AND SANIEL G. (FRANCE) Risk profiles and injury link in soccer (15 min.)
	EDOUARD P. (FRANCE) Injury prevention in athletics (track and field) (15 min.)
	FORTHOMME B. (BELGIUM) The example of the shoulder (15 min.)
	TRACHSEL H. (SWITZERLAND) Rehabilitation following surgical repair of type A aortic dissection ; its influence on the quality of life, return to work and physical activities in general (10 min.)
	QUESTIONS AND ANSWERS (5 min.)

14.30-16.30	SESSION 12 : EUROPEAN ASSOCIATION FOR SPORT DENTISTRY (EA4SD) : DGSZM WORKSHOP MODERN MOUTH GUARDS AND NEW TECHNOLOGIES
GRECQUE - BUILDING D	AVGERINOS S. (GERMANY) The DGSZM intrasmile one4all sports mouth guard concept (30 min.)
CHAIR: AVGERINOS S. (GERMANY)	HERZOG J. (GERMANY) The centric bite registration (30 min.)
	THADEN M. (GERMANY) Step-by-step technical realization of the one4all concept (30 min.)
	QUESTIONS AND ANSWERS (30 min.)
14.30-16.00	SESSION 13 : ORAL PRESENTATIONS
LOS ANGELES / SÉOUL - BUILDING B	RAIMAN L. (UK) Sport and Exercise Medicine (SEM) in undergraduate medicine (10 min.)
	CHAWATAMA E. (UK) The use of vitamin and amino acid supplementation in the treatment of tendinopathy: a narrative review (10 min.)
CHAIR: WINKLER L. (FRANCE) - GUILHEM G. (FRANCE)	THOMPSON D. (UK) Popliteal artery entrapment syndrome - a diagnostic challenge (10 min.)
	TSIKOURIS G. (GREECE) Reconstruction of the Medial Collateral Ligament of the Elbow - Clinical Outcomes in Elite Weightlifters (5 min.)
	PAPAKONSTANTINOOU G. (GREECE) Effectiveness of therapeutic exercises (protocols) in people with subacromial impingement syndrome: a systematic review (5 min.)
	MARTENS G. (BELGIUM) Ergogenic and physiologic effects of TDCS on maximal aerobic performance: protocol description (5 min.)
	AHMED I. (UK) Mind the soft tissue gap: "integrating sports and exercise physicians (SEM) into the care of acute MSK injuries (5 min.)
	QUESTIONS AND ANSWERS (15 min.)
16.30-17.00	COFFEE BREAK
17.00 - 18.30	SESSION 14 : SESSION Re-FORM
PARIS 1900 - BUILDING D	LE GARREC S. (FRANCE) Introduction (5 min.)
	CREMA M. (FRANCE) Imaging of Hamstring Injuries and Return to Play: What is the Evidence? (15 min.)
CHAIR: LE GARREC S. (FRANCE) - KAUX J.F. (BELGIUM)	FORTHOMME B. (BELGIUM) Rotator cuff tendinopathy rehabilitation, an update (15 min.)
	MOUTON C. (LUXEMBOURG) Clinical pathways in ACL patients (15 min.)
	TSCHOLL P. (SUISSE) Unstable and painful patella (15 min.)
	LECLERC S. (QUÉBEC) Statistical model to attempt to predict the injury risk of an athlete based on training monitoring data with a machine learning approach (15 min.)
	QUESTIONS AND ANSWERS (10 min.)
20.00	OFFICIAL DINNER : GALA DINNER DURING A CRUISE ON THE BATEAUX PARISIENS

08.30 - 10.30	SESSION 15 : MUSCLE INJURIES
PARIS 1900 - BUILDING D	<p>MALLIAROPOULOS N. (GREECE) Clinical relevance of muscle injuries Classifications (15 min.)</p>
<p>CHAIR: VALLE X. (SPAIN) - CROISIER J.L. (BELGIUM)</p>	<p>CROISIER J.L. (BELGIUM) Is there still a place for Isokinetic testing? (15 min.)</p>
	<p>GUILHEM G. (FRANCE) Muscle coordination and elasticity in injured athletes: a link with injury recurrence? (15 min.)</p>
	<p>EDOUARD P. (FRANCE) Hamstring rehabilitation including biomechanics works and practical application for patients (15 min.)</p>
	<p>DELVAUX F. (BELGIUM) Return-to-play process after hamstring muscle injury (15 min.)</p>
	<p>EDOUARD P. (FRANCE) Hamstring prevention in sprint-related sport (15 min.)</p>
	<p>BRUCHARD A. AND SANIEL G. (FRANCE) Hamstring risk profile exists? (15 min.)</p>
	<p>QUESTIONS AND ANSWERS (15 min.)</p>
08.30 - 10.30	SESSION 16 : ATHLETE'S SPINE
AMPHITHÉÂTRE - BUILDING C	<p>BETHLEN S. (BELGIUM) Scolioses and sport (15 min.)</p>
<p>CHAIR: ALASEIRLIS D. (GREECE) - BETHLEN S. (BELGIUM)</p>	<p>RENOUX J. (FRANCE) EOS in sport (15 min.)</p>
	<p>VIALLE R. (FRANCE) High grade spondylolisthesis in children and adolescents (15 min.)</p>
	<p>GROSDENT S. (BELGIUM) Athletes motor control (15 min.)</p>
	<p>GROBLER D. . (SOUTH AFRICA) The unhappy triad. The quadratus lumborum - Glut Medius - Adductor "secret" (15 min.)</p>
	<p>THEOCHARI E. (UK) The effet of a 10 min and 20 min Long Roll Passive Extension Exercice on Active Thoracic spin Flexion and Extension : an observational study (10 min.)</p>
	<p>QUESTIONS AND ANSWERS (35 min.)</p>
08.30 - 10.30	SESSION 17 : THE INTERACTION BETWEEN STOMATOGNATHIC SYSTEM AND BODY (EA4SD)
LONDRES - BUILDING C D'ORIOLA	<p>HAUGHEY J. (UK) The influence of the lower jaw position on sports performance (20 min.)</p>

CHAIR: STAMOS T. <i>(GREECE) -</i> GUNDUZ E. <i>(TURKEY)</i>	NANUSSI A. (ITALY) Overload management in the professional athlete: the importance of balanced occlusion (20 min.)
	MARQUARDT S. (GERMANY) The importance of accurate transfer of the physiological anatomic position of the maxilla and of exact centric bite registration for the elite athlete (20 min.)
	TAKEDA T. (JAPAN) Relation between occlusion and body function (20 min.)
	KNOWLTON R. (USA) Soda sports and energy drinks (20 min.)
	QUESTIONS AND ANSWERS (20 min.)
08.30 - 10.30	SESSION 18 : PRINCIPLES OF FIELD OF PLAY MEDICAL COVER AND EMERGENCIES, AND SPORTS EVENTS MEDICAL COVER
GRECQUE - BUILDING D	LE VAN P. (FRANCE) Emergencies during Olympics (15 min.)
CHAIR: LOHRER H. <i>(GERMANY) -</i> LE VAN P. <i>(FRANCE)</i>	GOURTSAS N. (GREECE) Sports on the Field Trauma Emergencies (15 min.)
	LECLERC S. (QUÉBEC) Concussion (15 min.)
	PAKRAVAN A. (UK) Planning for sports events medical cover (15 min.)
	BILLARD P. (FRANCE) Example of medical cover organisation of 2018 Paris World Cup of Gymnastic (15 min.)
	DECLERCK L. (BELGIUM) Adaptative sports following motor disability from acquired central neurological lesion : a systematic review on feasibility and effectiveness according to the ICF framework (10 min.)
	CRUZ FERREIRA A. (PORTUGAL) Methoxyflurane use in pitch-side care: a new tool for Portuguese Sports Physicians - case report (10 min.)
	QUESTIONS AND ANSWERS (25 min.)
08.30 - 10.30	
LOS ANGELES / SÉOUL - BUILDING B	SESSION 19 : WORKSHOP INDUSTRY : ZIMMER
08.30 - 10.30	
BARCELONA - BUILDING B	SESSION 20 : WORKSHOP INDUSTRY : NINIX
10.30-11.00	COFFEE BREAK

11.00-13.00	SESSION 21 : REGENERATIVE MEDICINE
PARIS 1900 - BUILDING D	<p>THOMPSON D. (UK) PRP for MSK pathologies. Recent Evidence (15 min.)</p> <p>ROGERS R. (UK) Regenerative Medicine in Orthopaedics & Sports Medicine (15 min.)</p> <p>KAUX J.F. (BELGIUM) PRP for tendinopathies and ostéoarthritis: a technical analysis (15 min.)</p> <p>CHAIR: PYNE D. (UK) - KAUX J.F. (BELGIUM)</p> <p>DELVAUX F. (BELGIUM) Return-to-play after PRP injection for lower limb tendinopathy (15 min.)</p> <p>ZHENG M.H. (AUSTRALIA) Autologous tendon cell injection for treatment of resistant degenerative tendinopathies, scientific rational and clinical development update (15 min.)</p> <p>GRIMAUD F. AND MAGALON J. (FRANCE) Preliminary results from microprep study : intra-articular injection of autologous microfat and platelet rich plasma in the treatment of knee arthritis (10 min.)</p> <p>QUESTIONS AND ANSWERS (35 min.)</p>
11.00-12.30	SESSION 22 : RECOVERY
AMPHITHÉÂTRE - BUILDING C	<p>CALMELS C. (FRANCE) Motor simulation and recovery (15 min.)</p> <p>NEDELEC M. (FRANCE) Sleep and recovery (15 min.)</p> <p>CHAIR: FILLIARD J.R. (FRANCE) - GHRAIRI M. (UAE)</p> <p>LOUIS J. (FRANCE) Case study : nutritional and training strategy of a competitive Master triathlete during rehabilitation from hip arthroplasty (15 min.)</p> <p>GHRAIRI M. (UAE) Recovery strategy during busy schedule in professional football (15 min.)</p> <p>VASILEIOS S. AND BASDEKIS G. (GREECE) The effect of sleep quality in perceptual ability in Greek professional soccer players (10 min.)</p> <p>QUESTIONS AND ANSWERS (20 min.)</p>

11.00-13.00	SESSION 23 : DENTAL INJURIES AND PREVENTION IN SPORTS (EA4SD)
LONDRES - BUILDING C D'ORIOLA	HOY J. (USA) Competing, performing and training with dental injuries (20 min.)
	MAEDA Y. (JAPAN) How to make effective and user-friendly mouthguards with scientific back-ground (20 min.)
CHAIR: CANTAMESSA S. (FRANCE) - TAKEDA T. (JAPAN)	TROMBOWSKY F. (FRANCE) Dental emergencies in sports (20 min.)
	GUNDUZ E. (TURKEY) Mouthguard fabrication in ortho cases (20 min.)
	DARTEVELLE J.L. (FRANCE) Periodontal issues in athletes, local and distant impact (20 min.)
	DEL GROSSO F. (ITALY) Stomatognathic evaluation with sEMG of Paralympic swimming athletes (5 min.)
	FAUCCI A. (ITALY) Serranus: Bite for each sports (5 min.)
	QUESTIONS AND ANSWERS (10 min.)
11.00-13.00	SESSION 24 : SPORTS NUTRITION AND PSYCHOLOGY
GRECQUE - BUILDING D	STEVENS L. (BELGIUM) Nutrition and overuse injuries (15 min.)
	ISTACE I. (BELGIUM) Dietary approach in sport injury (15 min.)
CHAIR: PAKRAVAN A. (UK) - TIOLLIER E. (FRANCE)	TIOLLIER E. (FRANCE) Experience of sport nutrition at INSEP: from lab to plate (15 min.)
	MARQUET L.A. (FRANCE) Periodization of carbohydrate intake (15 min.)
	RUFFAULT A. (FRANCE) Socio-cognitive determinants of behaviors preventing injuries in competitive athletes: A cross-sectional study (15 min.)
	QUIGNON C. (FRANCE) The fear of psychotherapy in high level sport environment (15 min.)
	MARTIN S. (FRANCE) Psychological risk profile for overuse injuries in sport : an exploration study (10 min.)
	QUESTIONS AND ANSWERS (20 min.)

11.00-13.00	
LOS ANGELES / SÉOUL - BUILDING B	SESSION 25 : WORKSHOP INDUSTRY - ACTISOUND
11.00-13.00	SESSION 26 : UNDERGRADUATE, NEWLY QUALIFIED AND SEM TRAINEE WORKSHOP
BARCELONE - BUILDING B	TRACHSEL H. (SWITZERLAND) SEM Training In Switzerland (10 min)
	BÄCKER H. (GERMANY) SEM Training in Germany (10 min)
CHAIR: THOMPSON D. (UK) - RAIMAN L. (UK)	AHMED I. (UK) SEM Training in UK (10 min)
	CHAWATAMA E. (UK) SEM Training in Portugal (10 min)
	CHAWATAMA E. (UK) Working in Sports Medicine as a Trainee - Lessons learnt from British University & Colleges Sport (BUCS) (15min)
	RAIMAN L. (UK) Working in Sports Medicine as a Trainee - Pitchside Courses and Experiences from School Rugby (15 min)
	AHMED I. (UK) Working in Sports Medicine as a Trainee - Football and Boxing (15 Min)
	THOMPSON D. (UK) Exercise Medicine - The Forgotten E in SEM - Why Should We Care and How Do We Prescribe It? (15min)
	ALL Q+A Session - How to build your SEM CV (20 min)
13.00-14.30	LUNCH BREAK
14.30-16.30	SESSION 27 : RETURN TO PLAY CRITERIA
PARIS 1900 - BUILDING D	TAMISARI A. (ITALY) Green room philosophy and return to play (15 min.)
	DELVAUX F. (BELGIUM) Return-to-play criteria after ACL reconstruction (15 min.)

CHAIR: MALLIAROPOULOS N. (GREECE) - LECLERC S. (QUÉBEC)	AGUILANIU A. (BELGIUM) RTP after ankle sprain (15 min.)
	KAKAVAS G. (GREECE) RTP after a muscle injury (15 min.)
	LECLERC S. (QUEBEC) RTP after concussion (15 min.)
	PAULUS J. (BELGIUM) What about the online follow up of sportsmen (15 min.)
	URHAUSEN A. (LUXEMBOURG) A case report of a high level athlete as an example of the clinical pathway «from the lab to the pitch» and return to sports (15 min.)
	QUESTIONS AND ANSWERS (15 min.)
14.30-16.00	SESSION 28 : ACL
AMPHITHÉÂTRE - BUILDING C	FELMET G. (GERMANY) Biology first - implant free ACL reconstruction (15 min.)
	ALASEIRLIS D. (GREECE) ACL Graft Biological or Functional Assessment? (15 min.)
CHAIR: CROISIER J.L. (BELGIUM) - FELMET G. (GERMANY)	ETTORI M.A. (FRANCE) Management of ACL ligamentoplasty failures (15 min.)
	CROISIER J.L. (BELGIUM) Isokinetic and ACL injuries: 30 years of experience (15 min.)
	MOUTON C. (LUXEMBOURG) Seasonal aspects of ACL injuries in major ball team sports (15 min.)
	QUESTIONS AND ANSWERS (15 min.)
14.30-16.30	SESSION 29 : WOMEN AND SPORTS
LONDRES - BUILDING C D'ORIOLA	CHERMANN J.F. (FRANCE) Concussion and the female athlete: the specificities (20 min.)
	LEGENDRE G. (FRANCE) Pregnancy and sports: it's time to change (20 min.)
CHAIR: MAITRE C. (FRANCE) - GEHRING D. (GERMANY)	MAÎTRE C. (FRANCE) Sexual dysfunction in female elite athletes: prevalence and risk factors (20 min.)
	BOURCIER A. (FRANCE) Prevalence and impact of urinary incontinence in female elite athletes (20 min.)
	BAEYENS L. (BELGIUM) Bicyclist's vulva' (20 min.)
	QUESTIONS AND ANSWERS (20 min.)

14.30-16.30	SESSION 30 : HOW FOOTBALL CLUB BARCELONA MANAGE MUSCLE INJURIES IN PROFESSIONAL PLAYERS
GRECQUE - BUILDING D	RODAS G. (SPAIN) Barça Innovation Hub a great laboratory for the future of team sports (20 min.)
	PRUNA R. (SPAIN) FCB Muscle Guide : sharing daily practice and scientific evidence (focus on from the diagnostic to RTP) (20 min.)
CHAIR: VALLE X. (SPAIN)	MECHO S. (SPAIN) Emerging MRI techniques for the assessment of muscle injuries (20 min.)
	VALLE X. (SPAIN) Multidisciplinary and FCB approach of muscle injuries rehabilitation (20 min.)
	PUIGDELLIVOL J. (SPAIN) When surgical surgery is recommended in acute/chronic muscle injuries (20 min.)
	QUESTIONS AND ANSWERS (20 min.)
14.30-16.30	SESSION 31 : WORKSHOP INDUSTRY - LASER NEEDLE
LOS ANGELES / SÉOUL - BUILDING B	SCHNORR P. (SWITZERLAND) Orthobiology regenerative medicine treatment strategy of the body by activation of intrinsic regenerative capacity PBM
14.30-16.30	SESSION 32 : UNDERGRADUATE, NEWLY QUALIFIED AND SEM TRAINEE WORKSHOP
BARCELONE - BUILDING B	CHAN O. (UK) Introduction to MSK Ultrasound
CHAIR: CHAN O. (UK)	CHAN O. (UK) Hands On Practical Ultrasound
16.30 - 17.00	SESSION 33 : AWARD AND TAKE HOME MESSAGES
PARIS 1900 BUILDING D	LE GARREC S. (FRANCE)
	KAUX J.F. (BELGIUM)
	MALLIAROPOULOS N. (GREECE)