

ASSOCIATION DES CHERCHEURS EN ACTIVITÉS PHYSIQUES ET SPORTIVES

# ACAPS 2021

19<sup>ÈME</sup> CONGRÈS INTERNATIONAL

LE NUMÉRIQUE DANS  
L'ACTIVITÉ PHYSIQUE  
ET SPORTIVE

## PROGRAMME



<https://acaps2021.sciencesconf.org>

**MONTPELLIER**  
LE CORUM

du 27 au 29 octobre 2021

ACAPS  
2021



# Édito

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Une équipe dynamique se mobilise depuis plusieurs mois afin que cette première édition montpelliéraine du congrès de l'ACAPS soit une réussite. Il y a quatre ans, nous avons proposé le thème du numérique, en tant qu'objet de recherche, outil de travail, secteur d'innovation, prenant une ampleur considérable pour les sciences de l'activité physique et du mouvement. Nous n'avions pas anticipé que les deux années passées depuis le précédent congrès verraient nos activités fortement restreintes à des interactions numériques, et c'est avec soulagement que nous avons pu préserver le congrès en présentiel.

En plus d'un programme scientifique d'une grande richesse qui s'articulera autour de conférences plénières, communications orales et affichées, l'accueil de stands, ainsi que l'organisation de deux soirées, visent à ouvrir notre rassemblement au monde socioéconomique (soirée networking, rapprochant les acteurs académiques et de l'entrepreneuriat) et au grand public (conférence / débat sur la promotion des mobilités douces au quotidien).

Nous avons également souhaité que ces quelques jours passés ensemble soient une opportunité pour vous de découvrir notre superbe ville universitaire, au cœur d'un territoire passionné de sports. Nous espérons que vous repartirez gonflés d'énergie après un séjour stimulant et convivial.

Bienvenue à Montpellier !

Julie BOICHE, Présidente du Comité d'Organisation ACAPS 2021

La 19<sup>ième</sup> édition 2021 du congrès de l'ACAPS restera une édition singulière à plusieurs titres : premier congrès en présentiel dans l'ère post pandémie, nombre de participants record, un congrès thématique riche et entouré de soirées destinées à promouvoir l'activité physique et sportive dans des grands domaines (entrepreneuriat) / enjeux sociétaux (environnement, santé) en réunissant différents acteurs du monde socioéconomique.

L'Association des Chercheurs en Activités Physiques et Sportives est très heureuse de vous retrouver en vous accueillant pour la première fois en terres languedociennes à Montpellier, ville sportive par essence se faisant souvent appelée la « surdouée » par son dynamisme économique et les différents écosystèmes présents.

Le programme de cette 19<sup>ième</sup> édition affiche plusieurs thèmes variés dans les sessions pour satisfaire les nombreux congressistes présents cette année. Les conférenciers invités aborderont selon un éclairage interdisciplinaire des sujets de recherche d'actualité et prometteurs reliant les APS et le vaste domaine du Numérique désormais omniprésent dans notre quotidien. Les pauses café et déjeuners disposés au milieu des nombreux partenaires exposant leurs produits faciliteront les échanges tant désirés en cette période. Tout est prêt pour des rencontres amicales, sportives, scientifiques et professionnelles au sein des espaces du CORUM de Montpellier.

Très bon congrès à toutes et tous !

Stéphane PERREY, Président de l'ACAPS (2013-2021)



# Welcome

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Dear Delegate,

On behalf of the members of the Organizing and Scientific Committees, it is our pleasure to welcome you to the 19<sup>th</sup> International ACAPS Conference. Welcome to Montpellier!

By attending this meeting, you join scientists, clinicians, students, trainers, ... around France and other 14 countries around the world who share the fields of Physical Activity, Sport, Human Movement. Our meeting strives for a cross-fertilized multidisciplinary view, advancing deep knowledge on Movement, Physical activity and Sport. The theme of this meeting, Digital for Physical Activity and Sport should be the coming together of knowledge from different academic disciplines.

The scientific program committee members have organized world-class plenary lectures in some topic areas with renowned speakers. The guest speakers will address, from an interdisciplinary perspective, current and promising research topics linking physical activity and the vast field of digital technology, which is now all-over in our daily life. In addition to these invited lectures, we received plenty of abstracts. We accepted 10 symposia involving 51 talks, 240 oral presentations and 140 poster presentations. The organizers are grateful to the authors for their enthusiasm and to the reviewers for their work and time given to evaluate the volunteered submissions. Because of the overwhelming amount of investigator proposed content, we have set 5 parallel sessions and one symposium at times so that we could include as many of the excellent communication proposals as possible. The program for this 19<sup>th</sup> edition displays several varied themes among the sessions to satisfy all delegate.

Poster presentation have been organized in 3 sessions, distributing the 140 posters by large topic area. Posters will be available for viewing during coffee breaks and lunches. Finally, we are grateful for the industry support of this meeting. The topic of this meeting requires close interaction with companies, as new technologies and digital tools are constantly emerging and being modified, often with the input of scientists, engineers and clinicians. The exhibitions should provide you with up-to-date information on the latest basic research and clinical/sport equipment. The exhibits will be available during the sessions, lunches and breaks.

In addition to a very rich scientific program, two evenings are proposed aiming to open our gathering to the socio-economic world (networking evening, bringing together academic and entrepreneurship players) and the general public (conference / debate on the promotion of soft mobility on a daily basis). We also want these few days spent together to be an opportunity for you to discover Montpellier. So, please discuss, learn, debate, practice, ask questions and have fun

Kind regards,

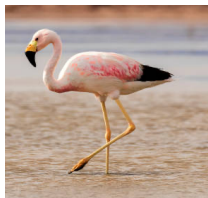
**Conference Co-Organizers**

# Programme synthétique - Overview

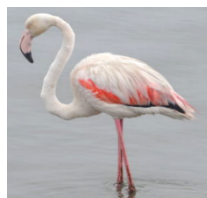
	Mercredi 27 octobre	Jeudi 28 octobre	Vendredi 29 octobre
8:00		Communications Orales 3 Symposium	Communications Orales 6 Symposium
8:15			
8:30			
8:45			
9:00			
9:15			
9:30		Pause Café	Pause Café
9:45	Accueil	Visite Stands partenaires	Visite Stands partenaires
10:00			
10:15		Conférence Plénière	Conférence Plénière
10:30	Workshop	<i>Juleen Zierath</i>	<i>Krasimira Tsaneva-Atanasova</i>
10:45			
11:00			
11:15			
11:30		AG ACAPS	Forum Jeunes Chercheurs
11:45			
12:00			
12:15			
12:30	Accueil		
12:45			
13:00			
13:15	Discours d'ouverture	Déjeuner	Déjeuner
13:30			
13:45			
14:00			
14:15	Conférence inaugurale	Conférence Plénière	Conférence Plénière
14:30	<i>Brian Castellani</i>	<i>Nadia Bianchi-Berthouze</i>	<i>Emig Thorsten</i>
14:45			
15:00			
15:15	Communications Orales 1 Symposium	Communications Orales 4 Symposium	Communications Orales 7 Symposia
15:30			
15:45			
16:00			
16:15			
16:30	Session POSTER 1	Session POSTER 2	Session POSTER 3
16:45	Pause Café	Pause Café	Pause Café
17:00	Visite Stands partenaires	Visite Stands partenaires	Visite Stands partenaires
17:15			
17:30			
17:45	Communications Orales 2 Symposium	Communications Orales 5 Symposia	Communications Orales 8 Symposium
18:00			
18:15			
18:30			
18:45			
19:00			
19:15			
19:30			
19:45			
20:00	Soirée Networking	Soirée Grand Public	Soirée de Gala
20:15	<i>sur inscription</i>	<i>Favoriser l'activité physique au quotidien</i>	<i>La Gazete Café</i>
20:30			<i>Remise des prix JC</i>
20:45			
21:00			
21:15			
21:30			
22:00			

## Et sinon, y'a quoi d'autre au programme ?

D'abord un peu de culture générale en dehors du domaine des APS : il existe 5 espèces de Flamants. Si, si ! C'est Wikipédia et même le directeur du Zoo de Lunaret à Montpellier (au passage : une bonne idée de promenade – gratuite – à faire...) qui nous l'ont dit. Donc il y a : Le Flamant des Andes, le Flamant des Caraïbes, le Flamant du Chili, le Flamant de James, et le Flamant Rose. Ça méritait d'être précisé, vous ne trouvez pas ? Pour le challenge ci-dessous, le Rose on l'a renommé « Flamant de Camargue » afin que ça soit un peu plus homogène dans les terminologies (et puis on est un peu chauvin !). On récapitule, les Flamants et les équipes associées :



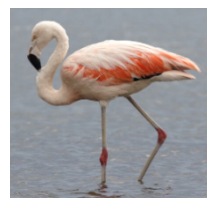
Andes



Camargue



Caraïbes



Chili



James



La croix des  
Andes



La croix de  
Camargue



Le décor des  
Caraïbes... ?



Le drapeau du  
Chili



Bond, James  
Bond !

Après cet interlude ornithologique, revenons à nos moutons... On dit que les cordonniers sont les plus mal chaussés : les spécialistes de l'activité que nous sommes sont souvent contraints d'assister à de longues réunions ou présentations. Alors cette année, on s'est dit : **ça va bouger au congrès de l'ACAPS !**

Chacun d'entre vous fait donc partie d'une équipe (voir le logo sur votre badge) pour le **grand jeu des 1000 bornes du Flamant !** Votre mission, si vous l'acceptez : réussir collectivement à cumuler 1000 km grâce à tous les déplacements effectués à l'extérieur du Corum, à la force de vos mollets (seront comptabilisés la marche, la course à pied, le vélo, etc). Pour cela, Décathlon (<https://decathlon-sport-challenge.web.app/inscription/acaps>) met à notre disposition une application à installer sur votre téléphone qui fonctionne avec le GPS – il vous suffit de scanner le QR code ci-contre :

Mais ce n'est pas tout ! Pour ne pas rester trop statique pendant les communications orales, vous trouverez **de quoi faire travailler vos muscles dans les salles.**

Et sur le chemin vers les stands des partenaires ou du traiteur (endroit stratégique donc !), vous aurez l'occasion de **brûler quelques calories avec vos bras ou vos jambes** et de prendre conscience de l'empreinte énergétique d'une banale ampoule qui reste allumée...



Enfin, grâce à la Métropole, les plus motivés pourront se déplacer à vélo (en dehors du Corum, faut pas exagérer non plus !). De quoi marquer des points pour les 1000 bornes !

**Vous l'aurez compris : on est très heureux de vous recevoir !**



19<sup>ÈME</sup> CONGRÈS DE L'ASSOCIATION  
DES CHERCHEURS EN ACTIVITÉS PHYSIQUES ET SPORTIVES



CORUM DE MONTPELLIER  
27 AU 29 OCTOBRE 2021



## WEDNESDAY, OCTOBER 27TH 2021

9:30 - 13:00

### REGISTRATION

#### ATELIERS - WORKSHOPS

10:30 - 12:00

**Chaire Active Aging 2.0** (J.J. Temprado)

Joffre 5

10:30

› Can Exergames be improved to better enhance behavioral adaptability in older adults? An ecological dynamics perspective - *Jean-Jacques Temprado - Institut des Sciences du Mouvement, Aix-Marseille Université, CNRS*

11:00

› Comparison of gait adaptability behavior between real and virtual environments - *Lisa Delbes - Institut des Sciences du Mouvement Etienne Jules Marey*

11:15

› Improving cognitive functions in healthy older adults: a comparison of three combined training programs - *Marta Maria Torre - Institute de Sciences du Mouvement, Aix-Marseille Université, CNRS*

11:30

› Perceptual-motor adjustments allowing elderly people to drive across an intersection - *Lola Tran Van - Aix Marseille Université (CNRS)*

11:45

› Physical activity via a mobile telepresence robot in older adults: Perception, effectiveness, and acceptance - *Amélie Voron - Institut des Sciences du Mouvement Etienne Jules Marey*

10:30 - 12:00

**Chaire Psychologie du Sport** From data collection to rapid feedback on the pitch - A hands-on demonstration based on a multidisciplinary project on resilience in sports (R. Meerhoff, R. Den Hartigh)

Sully 3

10:30 - 12:00

**Mouvement in sport sciences** : une maturité technologique pour des évaluations accessibles, efficaces et peu intrusives (N. Long, COO Trinoma)

Sully 1

13:15 - 14:00

### OPENING CONFERENCE

Auditorium  
Pasteur

14:00 - 14:50

**PLENARY SESSION 1 – Brian Castellani**  
**Big Data Mining and Complexity:** Addressing the digital challenges of human movement, physical activities, and sport (R. Meerhoff)

Auditorium  
Pasteur

15:00 - 16:30	<b>Symposium Psychophysiological aspects of performance</b> (R. Lepers)	Auditorium Pasteur
15:00	› Introduction - <i>Romuald Lepers, INSERM U1093, Université de Bourgogne, France</i>	
15:05	› Mental fatigue: how to avoid its negative effects? - <i>Thomas Jacquet - CAPS, INSERM U1093, LEAD - CNRS UMR5022, Université Bourgogne Franche-Comté, Dijon, France</i>	
15:25	› Boredom, a possible confounding factor in protocol aiming to examine cognitive fatigue effects on physical performance - <i>Michel Audiffren - CeRCA (CNRS-UMR 7295), Université de Poitiers, Poitiers</i>	
15:45	› How to manage Exercise-Induced-Pain during a high intensity task? Psychological strategies used by expert crossfitters - <i>Nadia Sondt - Université de Bretagne Occidentale</i>	
16:05	› Measuring sensory responses to physical exercise: Why and how? – <i>Mathieu Gruet - Université de Toulon, Laboratoire IAPS (n°201723207F), Toulon</i>	
15:00 - 16:30	<b>Neurosciences - Contrôle moteur – Learning</b> (L. Marin)	Sully 2
15:00	› The effect of overlearning on the consolidation of a motor skill. – <i>Nicolas Amiez, INSERM UMR1093-CAPS, Université Bourgogne Franche-Comté, UFR des Sciences du Sport, F-21000, Dijon</i>	
15:15	› Visual feedback Reliability influences learning of continuous motor task - <i>Marie Bernardo, Centre de Recherches sur la Cognition et l'Apprentissage</i>	
15:30	› Motor learning and sleep-related memory consolidation following action observation, motor imagery and physical practice - <i>Adrien Conessa, Complexité, Innovation, Activités Motrices et Sportives</i>	
15:45	› Learning an arm movement on a mechatronic device: influence of visual feedbacks occurrence - <i>Rebecca Crolan, Arnaud Decatoire, Université de Poitiers, Institut Pprime UPR 3346</i>	
16:00	› Postural control interacts with spatial learning in older adults navigating in an ecological environment - <i>Catherine P Agathos, Sorbonne Université, INSERM, CNRS, Institut de la Vision</i>	
16:15	› Time of day effects on motor learning processes - <i>Charlène Truong, INSERM UMR1093-CAPS, Université Bourgogne Franche-Comté, UFR des Sciences du Sport, F-21000, Dijon</i>	
15:00 - 16:30	<b>Biomécanique - Muscular Biomechanics</b> (D. Amarantini)	Sully 1
15:00	› Muscles synergies during upper limbs cycling - <i>Théo Cartier, Institute of Movement Sciences (CNRS UMR 7287), Marseille</i>	
15:15	› Effect of gait speed on fiber dynamics of plantarflexor and dorsiflexor and the metabolic cost - <i>Pauline Gerus, LAMHESS, Université Côte d'Azur, Nice</i>	
15:30	› Does different activation between the medial and the lateral gastrocnemius during walking translate into different fascicle behavior? - <i>Raphaël Hamard, Université de Nantes</i>	
15:45	› Kinematics analysis of upper limbs during a hand sewing task: comparison between Experts, Intermediates and Novices. - <i>Jean Maillet, Université de Nantes</i>	
16:00	› Passive-induced hyperthermia decreases soft tissues stiffness - <i>Adèle Mornas, Université de Paris, INSEP, Research Department, Laboratory Sport, Expertise and Performance (EA7370)</i>	
16:15	› Influence of maturation status and gender on the force-velocity profile - <i>Anthony Sudlow, Laboratoire IAPS (n°201723207F), Toulon</i>	
15:00 - 16:30	<b>Physiologie - Physical activity, COVID and pneumology</b> (P. Leconte)	Barthez

15:00	› Link between airway damage and dehydration of the airways computationally determined by an original model. - <i>Valérie Bougault, LAHMES, Centre VADER, Université Côte d'Azur, Nice, France</i>
15:15	› Recovery of neuromuscular and cardiorespiratory functions in COVID-19 survivors after an ICU stay - <i>Djahid Kennouche, Laboratoire Interuniversitaire de Biologie de la Motricité</i>
15:30	› Effects of the COVID-19 national lockdown on dietary habits in active vs. non-active French adults - <i>Lisa Lehmann, Laboratoire Impact de l'Activité Physique sur la Santé (IAPS), Toulon</i>
15:45	› Effect of the COVID-19 national lockdown on physical fitness in active vs inactive French adults - <i>Eric Watelain, Laboratoire Impact de l'Activité Physique sur la Santé (IAPS), Toulon</i>
16:00	› Is Afghan walking sessions integration of interest for COPD patients rehabilitation? - <i>Pauline Triballier, Institute of Physical Education and Sports Sciences (IFEPSA)</i>
15:00 - 16:30	<b>Psychologie - Sciences de l'intervention - Motivation</b> (D. Trouilloud) <span style="float: right;">Sully 3</span>
15:00	› Changes in motivation towards physical activity during interventions for adults with chronic diseases: systematic review and meta-analysis - <i>Christophe Latrille, EuroMov Digital Health in Motion, Physiologie &amp; médecine expérimentale du Cœur et des Muscles [U 1046], Montpellier.</i>
15:15	› Social dimensions of situational interest in young adults in a exergames setting: an exploratory study - <i>Steven Le Pape, Centre de Recherche sur l'Éducation, les apprentissages et la didactique</i>
15:30	› The MoVe toward Physical Activity (MVPA) Game: A Study Protocol - <i>Silvio Maltagliati, Université Grenoble Alpes</i>
15:45	› Identifying approach and avoidance motivational attractors in sport: A cluster analysis - <i>Anne Teboul, EuroMov Digital Health in Motion, Univ Montpellier, IMT Mines Ales</i>
16:00	› Effects of exergames on situational interest and physical activity in high school students: a pilot program in Physical Education - <i>Elise Allard-Latour, Université de Brest, Centre de Recherche sur l'Éducation, les apprentissages et la didactique</i>
16:15	› Why do adolescents like watch risky sports programs on television? A protective frame approach - <i>Eric Fruchart, Laboratoire Interdisciplinaire Performance Santé Environnement de Montagne (LIPSEM), Univ Perpignan</i>
15:00 - 16:30	<b>Sc. et Tech. du Numérique - Digital technology for movement</b> (P. Guyot) <span style="float: right;">Joffre 5</span>
15:00	› Measuring Emotions from Motion: a markerless motion capture case study - <i>Victor P. M. Brossard - Univ. Lille, CNRS UMR 9193, SCALab-Sciences Cognitives et Sciences Affectives, Lille, France.</i>
15:15	› Deep Learning for Underwater Gesture Identification From Airbone Training - <i>Bilal Ghader, Claire Dune, Laboratoire Conception des Systèmes Mécaniques et Robotiques - EA 7398</i>
15:30	› Reconstructing locomotor trajectories at home from a sensing floor - <i>Mélodie Sannier,, EuroMov Digital Health in Motion, Univ Montpellier, IMT Mines Ales</i>
15:45	› A Big Data Approach for Studying Muscular Tuning for Pointing Directions - <i>Elizabeth Thomas, Université de Bourgogne</i>
16:00	› Looking for optimal biomechanical configurations in weightlifting and powerlifting - <i>Charlotte Vedel, LaMCoS, INSA Lyon</i>
16:15	› Integration of video tools in training programs: the case of collective performance in football - <i>Simon Isserte, Unité Mixte de Recherche Education, Formation, Travail, Savoirs (UMR EFTS)</i>
16:30 - 17:30	<b>EXHIBITORS VISIT – REFRESHMENT BREAK</b> <span style="float: right;">Joffre</span>



- 1 › A comparison of two grouping methods in classification of young rugby players - *Gregory Lentin, Laboratoire Impact de l'Activité Physique sur la Santé, Univ Toulon*
- 2 › Anticipated DHEA response to competition in elite college soccer players - *Zak Labsy, CIAMS, Université Paris Saclay*
- 3 › Athletic pubalgia impairs static postural balance in soccer players - *Fatma Chaari, laboratoire Education, Motricité, Sport et Santé, EM2S, LR19JS01, High Institute of Sport and Physical Education of Sfax, University of Sfax, Tunisia.*
- 4 › Determination of lower limbs explosive muscular power of high level basketball and volleyball players - *Ben Ayed Karim, High Institute of Sport and Physical Education. Kef. University of Jendouba, El Kef, Tunisia - Latiri Imed, Faculté de médecine de Sousse*
- 5 › Do athletes with unilateral patellar tendinopathy have postural balance inter-limb asymmetry? - *Fendri Thouraya, Laboratory 'Education, Motricity, Sports and Health', (EM2S, LR19JS01), High Institute of Sport and Physical Education, Sfax University, Sfax, Tunisia*
- 6 › Effect of 5 weeks of HIT in hypoxia on physiological profiles measured in situ by GPS with elite soccer players. - *Christophe Manouvrier, Federation Marocaine de football, Rabat, Marocco*
- 7 › Effect of a sleep education program in a professional ice hockey team - *Valentin Bourlois, unité de recherche pluridisciplinaire sport santé société (URePSSS)*
- 8 › Effect of an intermittent exercise training program including short apneas on the aerobic and anaerobic power - *Fabrice Prieur, CIAMS, Université Paris Saclay*
- 9 › Effects of different preseason training protocols on physical performance, hematological parameters and plasma volume variations, in professional soccer players - *Mohanad Omar, Nidhal Jebabli, Higher Institute of Sport and Physical Education of Ksar-Said, University Manouba, Tunisia.*
- 10 › Effects of eastward flight with a synchronization strategy at destination, on sleep-wake and core body temperature rhythms in professional road cyclists - *Lucas Garbellotto, UFR STAPS Besançon, Fédération Française de Cyclisme, Marqueurs pronostiques et facteurs de régulations des pathologies cardiaques et vasculaires - UFC (EA 3920)*
- 11 › Effects of melatonin ingestion on cellular damage and physical performance following maximal running exercise in soccer players - *Tarak Driss, Laboratoire Interdisciplinaire en Neurosciences, Physiologie et Psychologie : Activité Physique, Santé et Apprentissages (LINP2), UFR STAPS, UPL, Université Paris Nanterre, Nanterre*
- 12 › Effects of post-exercise whole-body cryotherapy/cryostimulation and hyperbaric oxygenation on sleep quality in cyclists - *Joris Grevillot, Laboratoire Culture, sport, santé, société - UFC (EA 4660)*
- 13 › Serum metabolite biomarkers following a 12-week High-Intensity Interval Training combined to citrulline supplementation in obese older individuals. - *Philippe Noirez, UFR STAPS, Unité Performance Santé Métrologie Société (EA-7507)*
- 14 › Effects of repeated cryostimulation on sleep parameters in healthy subjects - *Coralie Arc-Chagnaud, Laboratoire "Mobilité, Vieillesse, Exercice" (MOVE)*
- 15 › Effet de l'entraînement à des intensités autour de la vitesse critique sur la performance du 400 mètres crawl chez les jeunes nageurs. – *Jed Mohamed Tijani, ISSEP Ksar Saïd*
- 16 › Effets de la privation partielle de sommeil, de la sieste et de la caféine sur la somnolence subjective et le temps de réaction - *Mohamed Romdhani, Activité physique, sport et santé, UR18JS01, Observatoire National des sports, Tunis, Tunisie*
- 17 › Force-Velocity profile: gender effect - *Paul Galantine, Pascale Duché, Laboratoire IAPS (n°201723207F), Univ. Toulon*

18	› Gender effect on energy expenditure and substrate metabolism during sub-maximal running - <i>Chrystal Bélard, Laboratoire IAPS (n°201723207F), Univ. Toulon</i>	
19	› Influence of repeated sprint ability on the in-game activity profiles of semi-professional rugby union players according to position - <i>Paul Glaise, Laboratoire Interuniversitaire de Biologie de la Motricité</i>	
20	› Isometric strength database for muscle maximal voluntary endurance field tests: normative data. - <i>Frédéric Janik, Centre de Réadaptation Fonctionnelle « Les Hautois », Unité de Recherche Pluridisciplinaire Sport, Santé, Société (URePSSS) - EA 7369</i>	
21	› Melatonin intake during Ramadan fasting reduces muscle damage but not repeated sprint performances in elite female handball players - <i>Ahmed Graja, Laboratoire Interdisciplinaire en Neurosciences, Physiologie et Psychologie : Activité Physique, Santé et Apprentissages (LINP2), UFR STAPS, UPL, Université Paris Nanterre, Nanterre, France, Research Laboratory, Molecular Bases of Human Pathology, LR19ES13, Faculty of Medicine, University of Sfax, Sfax, Tunisia</i>	
22	› Nap improved technical and tactical game-related performance during small-sided basketball games in professional players - <i>Maher Souabni, Laboratoire Interdisciplinaire en Neurosciences, Physiologie et Psychologie : Activité Physique, Santé et Apprentissages (LINP2), UFR STAPS, UPL, Université Paris Nanterre, Nanterre, France</i>	
23	› On the road of world class performance in the pole vault: changes according to ages and genders - <i>Johan Cassirame, Société Mtraining, R&amp;D division, Ecole Valentin, France, EA 4660, Culture, Sport, Health and Society Department and Exercise Performance, Health, innovation platform, University of Bourgogne - France Comté, Besançon, France.</i>	
24	› Origins of gastric disorders and optimization of nutrition during Ultra-Trail events. - <i>Pierre Louis Delaunay, U1075 Laboratoire COMETE Unicaen/INSERM - Benoit Mauvieux, U1075 Laboratoire COMETE Unicaen/INSERM</i>	
25	› Physiological Impact of A Typical Training Session With Different Volumes On The Day Preceding A Soccer Match. - <i>Tom Douchet, Dijon Football Côte d'Or (DFCO), 21000 Dijon, Center for performance expertise, U1093 INSERM, University of Bourgogne-Franche-Comté</i>	
26	› Predicting percentage of heart rate reserve and rating of perceived exertion during bench stepping in young adults: preliminary data - <i>Stéphanie Paquet - APCoSS - Institut de Formation en Education Physique et en Sport (IFEPSA)</i>	
27	› Relationships of the 5-Jump Test (5JT) performance of youth players with volleyball specific' laboratory tests for explosive power - <i>Ben Ayed Karim, High Institute of Sport and Physical Education. Kef. University of Jendouba, El Kef, Tunisia</i>	
28	› The effect of strenuous aerobic training on energy intake in adolescent swimmers: comparison with home confinement - <i>Mathieu Grisolle, Association APAO-P – 83220 LE PRADET, UFR STAPS Toulon</i>	
29	› The Effects of Menstrual Cycle Phase on Elite Athlete Performance: a longitudinal and prospective study - <i>Alice Meignie, INSEP, Paris</i>	
30	› The Interplay Between Plasma Hormonal Concentrations, Physical Fitness, Workload and Mood State Changes to Periods of Congested Match Play in Professional Soccer Players. - <i>Saidi Karim, LBEPS, Université d'Évry-Val-d'Essonne</i>	
31	› Validity and Reliability of the Favero's Assioma Duo pedals Power Meter - <i>Joseph Salas, Thomas Brioche, Dynamique Musculaire et Métabolisme, Univ Montpellier, INRAe</i>	
<b>16:30 - 17:30</b>	<b>Sciences de l'intervention - POSTER SESSION 1</b>	Joffre
32	› Contextualisation de l'activité physique traditionnelle EKIENGA en éducation physique à l'école primaire - <i>Gorgon Lember, Université Marien Ngouabi / Institut Supérieur d'Education Physique et Sportive</i>	
33	› Effectiveness of multilevel interventions based on socioecological model to decrease sedentary time in children: a systematic review of controlled studies - <i>Marie Cholley-Gomez, Pascale Duché, Impact de l'Activité Physique sur la Santé (IAPS), Univ Toulon</i>	

34	› Effects of orienteering game on directional skills and geometric thinking in children 7-8 aged. - <i>Anis Ben Chikha- Aymen Hawani, National Sports Observatory (ONS) Research Unit, Physical Activity, Sport &amp; Health, Tunis, Tunisia.</i>	
35	› Effets du confinement COVID-19 sur les comportements d'agression chez les footballeurs à Brazzaville (Congo) - <i>Lucien Litoto Pambou, Université Marien Ngouabi / Institut Supérieur d'Education Physique et Sportive</i>	
36	› EPS à l'école primaire : un état des pratiques d'enseignement - <i>Laurence Munoz, Unité de Recherche Pluridisciplinaire Sport, Santé, Société (URePSSS)-ULR 7369, Université du Littoral Côte d'Opale</i>	
37	› Evaluation des parcours aménagés dans le domaine des STAPS : une approche pluridisciplinaire – <i>Fanny Dubois, CRESCO Université Fédérale de Toulouse</i>	
38	› Influence de la formation initiale sur l'action didactique des enseignants d'EPS Congolais - <i>Paulin Mandoumou, Université Marien Ngouabi, Université Marien Ngouabi</i>	
39	› L'effet de l'utilisation de certaines méthodes d'enseignement sur le niveau de certains éléments de forme physique chez les étudiants en éducation physique de l'Université technique de Palestine "Khadouri" - <i>Abderraouf Ben Abderrahman, Institut supérieur du sport et de l'éducation physique, Université de la Manouba, Ksar-Saïd, Tunisie.</i>	
40	› Le « Body language » exemple de formation en communication à la fin de cursus universitaire des métiers liée à la profession enseignante quel (s) enjeu(x) et quelle(s) formation(s) - <i>Aymen Hawani, ISEP, Tunis</i>	
41	› Lockdown and gender effects in 1219 young athletes aged 15 to 21 - <i>Narjiss Mekaoui N, ILEPS, CY Cergy Paris Université</i>	
42	› Problématique de l'élaboration de la fiche pédagogique sur les contenus d'enseignement en EPS - <i>Gabin Fernandes Balou, Institut Supérieur d'Éducation Physique et Sportive</i>	
43	› Regards sur les motivations psychosociologiques des adultes congolais à la pratique des activités physiques et sportives - <i>David Sylvain Mabassa, Institut Supérieur d'Education Physique et Sportive, Université Marien Ngouabi</i>	
44	› Relationship between physical literacy and physical activity levels among college students - <i>Charlie Nezondet, Gautier Zunquin, Mouvement, Équilibre, Performance, Santé, Université de Pau et des Pays de l'Adour</i>	
45	› Co-construct, implement and evaluate a multilevel intervention for the prevention of sedentary lifestyle in school-aged children: the CIPRES project – protocol design and pilot study - <i>Marion Carayol, Unité de recherche « Impact de l'Activité Physique sur la Santé » (IAPS – UR n°201723207F)</i>	
46	› The impact of music while racing on sport performances and motivation of students in physical education – <i>Marion Chavanne, Pascal Bourgeois, ILEPS, CY Cergy Paris Université</i>	
47	› The impact of the institutionalization of women's soccer: a comparative analysis of the careers of French and Canadian women players - <i>Cassandra Rivrais, Université Claude Bernard Lyon 1</i>	
17:30 - 19:00	<b>Symposium Technologies for promoting physical activity to health</b> (M. Hayotte)	Auditorium Pasteur
17:30	› Effects and acceptability of technology-based physical activity interventions in bariatric surgery: a scoping review - <i>Hayotte Meggy, LAMHESS, Nice</i>	
17:50	› Acceptance of a virtual reality headset designed for fall prevention in older adults - <i>Nicolas Mascret, Chaire Active Aging 2.0, Institut des Sciences du Mouvement Etienne Jules Marey, Marseille</i>	
18:10	› Does gamification improve physical activity? A systematic review and meta-analysis. - <i>Alexandre Mazéas, Unité de Nutrition Humaine, Univ Clermont-Auvergne ; Sport et Environnement Social, Univ Grenoble Alpes</i>	

18:30	› Videoconference-based adapted physical activity interventions for health purposes. Shared qualitative approach in oncology and cystic fibrosis. - <i>Amelie Fuchs, SAS Mooven</i>
17:30 - 19:00	<b>Neurosciences - Contrôle moteur - EMG and miscellaneous</b> (L. Damm) <span style="float: right;">Sully 2</span>
17:30	› The combination of deep breathing and mental imagery promotes cardiovascular recovery in firefighters - <i>Jean Philippe Biéchy, ToNIC, Toulouse NeuroImaging Center, Univ Toulouse, Inserm, UPS, France; Institut National Universitaire Champollion, EIAP, Dépt. STAPS, Campus de Rodez, France</i>
17:45	› RV-REEDUC project: Using a virtual reality protocol for the rehabilitation of upper limb functions in children with cerebral palsy - <i>Simone Burin-Chu, CESAMS, Université de Caen-Normandie</i>
18:00	› Motor modularity to effectively applied force during pedaling - <i>Julien Frère, GIPSA-Lab, Grenoble</i>
18:15	› Does motor exploration in new walkers originate from a low-dimensional modular control or from a high-dimensional command ? - <i>Caroline Teulier, Complexité, Innovation, Activités Motrices et Sportives, Complexité, Innovation, Activités Motrices et Sportives, Université Paris Saclay</i>
18:30	› Longitudinal investigation of the evolution of modularity from birth to independent walking - <i>Elodie Hinnekens, Complexité, Innovation, Activités Motrices et Sportives, Complexité, Innovation, Activités Motrices et Sportives, Université Paris Saclay</i>
18:45	› The use of virtual reality exposure for the management of fear of falling and postural disorders among older adults: A preliminary study - <i>Hajer Rmadi, Institut des Sciences du Sport-Santé de Paris</i>
17:30 - 19:00	<b>Physiologie, Biomécanique - Original evaluation approaches</b> (S. Colson) <span style="float: right;">Sully 1</span>
17:30	› Relationships between anthropometric measurements and sensory and motor current thresholds in healthy men - <i>Loïc Espeit, Laboratoire Interuniversitaire de Biologie de la Motricité, St Etienne</i>
17:45	› Effect of epoch length on intensity classification and on accuracy of measurement under controlled conditions on treadmill: towards a better understanding of accelerometer measurement. - <i>Nicolas Fabre, Mouvement, Équilibre, Performance, Santé, Université de Pau et des Pays de l'Adour</i>
18:00	› Effectiveness of soft versus rigid back-support exoskeletons during a lifting/lowering task. - <i>Mathilde Schwartz, Développement, Adaptation et Handicap. Régulations cardio-respiratoires et de la motricité, Institut national de recherche et de sécurité, Vandoeuvre lès Nancy</i>
18:15	› Mechanisms modulating spinal excitability after nerve stimulation inducing extra torque - <i>Florian Vitry, INSERM UMR1093-CAPS, Université Bourgogne Franche-Comté, F-21000, Dijon</i>
18:30	› Development and assessment of test-retest reliability of a new simple test to evaluate performance fatigability in adolescents and young adults: study protocol - <i>Mathieu Gruet, Université de Toulon, Laboratoire IAPS (n°201723207F), Toulon</i>
18:45	› Effect of motor imagery training on motor unit recruitment - <i>Vianney Rozand, Laboratoire Interuniversitaire de Biologie de la Motricité, St Etienne</i>
17:30 - 19:00	<b>Physiologie, Biomécanique - Muscle damage and injury determinants</b> (R. Lepers) <span style="float: right;">Barthez</span>
17:30	› The effect of knee joint angle on neuromuscular changes after an exercise-induced muscle damage - <i>Vincent Martin, Laboratoire AME2P (EA 3533), Institut Universitaire de France</i>
17:45	› Validity of the indirect biomarkers used in exercise-induced muscle damage: A systematic review with meta-analysis - <i>Emeric Chalchat, IRBA, Laboratoire AME2P (EA 3533)</i>
18:00	› Influence of core stability on knee joint loading during change of direction - <i>Youri Duchene, Développement, Adaptation et Handicap. Régulations cardio-respiratoires et de la motricité, Université de Lorraine</i>

18:15	› Melatonin supplementation ameliorates cellular damage and physical performances recovery during an intensive training schedule - <i>Omar Hammouda, Laboratoire Interdisciplinaire en Neurosciences, Physiologie et Psychologie (LINP), UFR STAPS, UPL, Nanterre, France</i>
18:30	› Circulating microRNAs after a 24-h ultramarathon run in relation to muscle damage markers in elite athletes - <i>Julien Siracusa, Laboratoire de Biologie de l'exercice pour la Performance et la Santé, Institut de Recherche Biomédicale des Armées</i>
18:45	› De la biomécanique de course spontanée à l'épidémiologie des blessures. - <i>Adrien Thouvenot, Marqueurs pronostiques et facteurs de régulations des pathologies cardiaques et vasculaires - UFC (EA 3920), Recherche &amp; Développement, Volodalen</i>
17:30 - 19:00	<b>Sciences de l'intervention - Physical Education (D. Nourrit)</b> <span style="float: right;">Joffre 5</span>
17:30	› The use of digital technology in school placement: the self-confrontation interview instead of the traditional post-lesson interview - <i>Magali Descoedres, Sandra Jourdan, Haute école pédagogique du canton de Vaud, unité d'enseignement et de recherche en éducation physique et sportive</i>
17:45	› Schooling Yoga in High School: From Teaching Experiences to the Design of a Professional Training System for Physical Education Teachers - <i>Laurent Dastugue, Education, Formation, Travail, Savoirs, Université Toulouse - Jean Jaurès : UMR MA122</i>
18:00	› Analyse de l'activité enseignante au cours d'un cycle de football, en milieux « ordinaire » et « difficile » : une double approche ergonomique et didactique - <i>Maher Gharbi, Apprentissage, Didactique, Evaluation, Formation, IUFM Aix-Marseille, Marseille</i>
18:15	› An Ecological Conceptualization of the strategy for using new technology among PE teachers - <i>Clément Llana – URePSSS, Univ Lille</i>
18:30	› Analyse de l'Intelligence Émotionnelle des enseignants d'Éducation Physique Sportive : Comparatif avec les enseignants des autres disciplines. - <i>Edwin Girard, Sciences de l'Éducation, Université de Rouen Normandie</i>
18:45	› Findings about School-Based Interventions to Promote 24-Hour Movement Guidelines among Children - <i>Javier Rodrigo-Sanjoaquin, Universidad de Zaragoza, Mouvement, Équilibre, Performance, Santé (MEPS), Université de Pau et des Pays de l'Adour</i>
17:30 - 19:00	<b>Sciences sociales - Social sciences and institutions (R. Richard)</b> <span style="float: right;">Sully 3</span>
17:30	› L'engagement managérial, (in)compatible avec les actions d'Activités Physiques en entreprise? - <i>Yann Baup, Laboratoire sur les Vulnérabilités et l'Innovation dans le Sport (EA 7428)</i>
17:45	› From Esports to Virtual Sports: The Olympic Strategy Regarding Competitive Video Gaming - <i>Nicolas Besombes, Institut des Sciences du Sport-Santé de Paris</i>
18:00	› A turning point? Evaluating the impact of the 2019 FIFA Women World Cup in France on sports' clubs in host cities - <i>Guillaume Bodet, Laboratoire sur les Vulnérabilités et l'Innovation dans le Sport (EA 7428), Université Claude Bernard Lyon 1</i>
18:15	› Experiences of women footballers in clubs affiliated to the French Football Federation (FFF): between discrimination and identity construction - <i>Alison Hernandez, Laboratoire sur les Vulnérabilités et l'Innovation dans le Sport (EA 7428), Université Claude Bernard Lyon 1</i>
18:30	› Une approche exploratoire des partenariats entre les fédérations sportives et les collectivités locales. - <i>Clément Lopez, Laboratoire CIAMS Paris Saclay</i>
18:45	› Analyse discursive de l'intégration des concepts de l'intégrité et de la crédibilité dans le lexique du mouvement olympique international. - <i>Pim Verschuuren, Université de Lausanne</i>
<b>19:15 - 22:00</b>	<b>SOIRÉE NETWORKING</b> <span style="float: right;">Auditorium / Joffre</span> <i>Only on registration</i>





## THURSDAY, OCTOBER 28TH 2021

08:00 - 09:30	Symposium <b>Promotion of health in high performance sport</b> (F. d'Arripe Longueville)	Auditorium Pasteur
08:00	› Health-related lifestyle and behaviors in French elite athletes: A qualitative study - <i>Aurélia Chretien, Laboratoire Motricité Humaine Expertise Sport Santé, Nice</i>	
08:20	› Stress and coping dynamics during the qualification phase for the Tokyo 2021 Olympic Games: Relationships with performance and burnout among elite artistic swimmers - <i>Emilie Pété, Laboratoire Motricité, Interactions, Performance, Nantes</i>	
08:40	› When being an elite athlete conflicts or enriches with being a student and vice versa: Psychometric validation of inter-role interactions and consequences on well-being. - <i>Solène Lefebvre du Grosriez, Laboratoire Sport et ENvironnement Social (SENS), Grenoble</i>	
09:00	› Interventions and programs for doping prevention in sport: a systematic review. - <i>Valentine Filleul, Laboratoire Motricité Humaine Expertise Sport Santé, Nice</i>	
08:00 - 09:30	Neurosciences - Contrôle moteur - <b>Fatigue</b> (T. Driss)	Barthez
08:00	› Influences of hip abductor muscles fatigue on ankle stability - <i>Jeanne Dury, Laboratoire Culture, sport, santé, société - UFC (EA 4660), Univ Bourgogne Franche Comté</i>	
08:15	› Effects of acute physical fatigue on gaze behaviour and performance in novice badminton players - <i>Alexis Ruffault, French Institute of Sport, Research Department, Laboratory Sport, Expertise and Performance (EA7370), Paris, France.</i>	
08:30	› Relationship between the level of mental fatigue induced by a prolonged cognitive task and the degree of balance disturbance - <i>Frédéric Noé, Laboratoire MEPS, Univ Pau et des Pays de l'Adour</i>	
08:45	› Brain adaptations to mental fatigue induced by a time-trial cycling exercise; a preliminary study - <i>Victor Scholler, Laboratoire Culture, sport, santé, société - UFC (EA 4660), Labcom LAME (Athlete Material Environment Laboratory), Univ Bourgogne Franche Comté</i>	
09:00	› Effect of pre-exercise subjective fatigue on perception of effort, performance, and recovery of fatigue perception following a standardised incremental stepwise cycling test - <i>Jeanne Dekerle, Fatigue and Exercise Laboratory, School of Sport and Health Sciences, University of Brighton</i>	
09:15	› Sequential NMES: an effective method to reduce fatigue during a muscle strengthening session? - <i>Mael Descollonges - Cognition, Action, et Plasticité Sensorimotrice [Dijon - U1093]</i>	
08:00 - 09:30	Physiologie, Biomécanique - <b>Team sports</b> (P. Besson)	Sully 1
08:00	› Soccer match activity during the menstrual cycle in elite French women soccer players - <i>Pierre-Hugues Igonin, Laboratoire Interuniversitaire de Biologie de la Motricité, St Etienne</i>	

08:15	› Effect of 40 min nap opportunity on physiological responses and physical abilities in elite basketball players - <i>Maher Souabni, Laboratoire Interdisciplinaire en Neurosciences, Physiologie et Psychologie : Activité Physique, Santé et Apprentissages, UFR STAPS, Univ. Paris Nanterre, France</i>
08:30	› Effects of video games on endurance performance and perceived exertion in team sport players - <i>Wajdi Souissi, Laboratoire Interdisciplinaire en Neurosciences, Physiologie et Psychologie : Activité Physique, Santé et Apprentissages, UFR STAPS, Univ. Paris Nanterre, Nanterre, France</i>
08:45	› Reliability of a new in vivo neck-muscle loading measurement device : Cervistab - <i>Marc Julia - CHU Lapeyronie, Montpellier, EuroMov Digital Health in Motion, Univ Montpellier, IMT Mines Ales</i>
09:00	› Validation of on-field ground reaction forces measured through force sensors embedded into a football shoe - <i>Alexandre Karamanoukian, Complexité, Innovation, Activités Motrices et Sportives, Phyling, Université Paris Saclay</i>
09:15	› Physical and physiological responses to 10 km cycling time trial following video games in team sport players - <i>Wajdi Souissi, Mohamed Ayachi, Laboratoire Interdisciplinaire en Neurosciences, Physiologie et Psychologie: Activité Physique, Santé et Apprentissages, UFR STAPS, Univ. Paris Nanterre, France</i>
08:00 - 09:30	<b>Physiologie - Hypoxia and food supplementation</b> (C. Koechlin-Ramonatxo) <span style="float: right;">Sully 3</span>
08:00	› Effet de l'entraînement en hypoxie et d'une supplémentation en nitrates sur le stress oxydant et le métabolisme du NO - <i>Marie Chambion-Diaz, Laboratoire Interuniversitaire de Biologie de la Motricité - Vincent Pialoux, Laboratoire Interuniversitaire de Biologie de la Motricité, Univ Claude Bernard Lyon 1</i>
08:15	› Spirulina supplementation prevents exercise-induced lipid peroxidation, inflammation and skeletal muscle damage in elite rugby players. - <i>Mehdi Chaouachi, Univ-Rennes, Laboratoire M2S, France</i>
08:30	› Does performance improvement following repeated sprints in hypoxia correlate with oxygen (de)saturation during training sessions? - <i>Gutknecht Alexandre, DMeM INRAe - Univ Montpellier</i>
08:45	› Effects of hydroxyurea on force production and skeletal muscle energetics in thalassemia minor-like mice - <i>Constance Michel, CRMBM, UMR 7339 CNRS / Aix-Marseille Université Marseille</i>
09:00	› Physiological responses to a single session of repeated-sprint training in hypoxia combined with whole-body cryotherapy: a preliminary study. - <i>Thibaud Mihailovic, Laboratoire Culture, sport, santé, société - UFC (EA 4660), ANR Labcom Athlete Material Environment Laboratory, Besançon, France</i>
09:15	› HIIT and flaxseed oil association promote n-3 PUFAs derivatives conversion and modulate gut microbiota composition - <i>Claire Plissonneau, Microbes, Intestin, Inflammation et Susceptibilité de l'Hôte Institut National de la Santé et de la Recherche Médicale : UMR1071, Lab. des Adaptations Métaboliques à l'Exercice en Conditions Physiologiques et Pathologiques, Université Clermont Auvergne</i>
08:00 - 09:30	<b>Psychologie - Physical activity and COVID</b> (C. Boris) <span style="float: right;">Sully 2</span>
08:15	› Psychological and attentional effects of a short online mindfulness meditation intervention in university students during the remote learning period imposed by the COVID-19 pandemic - <i>Louise Devillers-Reolon - Institut des Sciences du Mouvement Etienne Jules Marey, Marseille</i>
08:30	› Emergence of online sports coaching videos in pandemic period - <i>Bernard Massiera, Laboratoire Motricité Humaine, Education, Sport, Santé, Nice</i>
08:45	› Staying at home during the COVID-19 pandemic: Well-being and physical activity in overweight or obese women under lockdown in France - <i>David Le Foll, Olivier Rascle, Violences, Innovations, Politiques, Socialisations et Sports, Université de Rennes 2</i>
09:00	› Personality traits and onset of COVID-19 disease's symptoms - <i>Coralie Réveillé, Yannick Stephan, EuroMov Digital Health in Motion, Univ Montpellier, IMT Mines Ales</i>

09:15	› Self-control resources and past physical activity as predictors of the evolution of physical activity during COVID-19 lockdown - <i>Claudia Teran-Escobar, Sport et Environnement Social, Laboratoire de sciences sociales, Université Grenoble Alpes</i>	
08:00 - 09:30	<b>Sc. et Tech. du Numérique - E-learning and Behavior</b> (N. Margas)	Joffre 5
08:00	› Personality aware Self-Quantification System for Physical Activity Support - <i>Paul Dulaud, Université de Technologie de Troyes</i>	
08:15	› Embodying digital technology in orienteering: a middle school example. - <i>Gaetan Guironnet, Centre de Recherche Interdisciplinaires, Paris, Institut des sciences du sport santé de Paris (URP 3625 I.3.S.P.)</i>	
08:30	› Incorporating Technology in Physical Education: How increasing the uncertainty in practice can foster exploratory learning. - <i>John Komar, Université de Rouen Normandie, Nanyang Technological University, National Institute of Education</i>	
08:45	› Implementation of brief meditative practices in the training of young teachers: a pilot study based on the digital tool. - <i>Nicolas Burel, Magali Descoedres, UER EPS - Haute Ecole de Pédagogie de Vaud / University of Teacher Education Lausanne</i>	
09:00	› Setting up a remote care pathway for fibromyalgia patients: protocol of the Fibr'online study - <i>Claire Colas, Department of Clinical and Exercise Physiology, University Hospital Center, Univ. Lyon, Autonomic Nervous System Research Laboratory, SAINBIOSE INSERM, U1059, Saint-Etienne</i>	
09:15	› Automaticity of E-health for Exercise and Physical Activity - <i>Gonzalo Marchant, Laboratory of Vulnerabilities and Innovation in Sport, UFR STAPS, Université Claude Bernard - Lyon I</i>	

**09:30 - 10:00 EXHIBITORS VISIT – REFRESHMENT BREAK**

Joffre

10:00 - 10:50	<b>PLENARY SESSION 2 - Juleen Zierath</b> <b>Exercise, Inactivity, and Circadian Rhythms – Re-setting the clock in</b> Metabolic Disease (V. Ollendorff)	Auditorium Pasteur
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**Assemblée générale ACAPS – General Assembly ACAPS**

<https://www.acaps.asso.fr>

11:00 - 12:30



Auditorium Pasteur

12:30 - 14:00	<b>Déjeuner - Lunch</b>	
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14:00 - 14:50	<b>PLENARY SESSION 3 - Nadia Bianchi-Berthouze</b> <b>Affective technology and opportunities in selfdirected ubiquitous physical rehabilitation</b> (J. Lagarde)	Auditorium Pasteur
15:00 - 16:30	<b>Symposium Good or bad vibrations? From local to global vibration and from controlled to non-controlled vibration</b> (F. Hintzy)	Auditorium Pasteur
15:00	› Whole Body Vibration: what about fatigue? - <i>Serge Colson, Laboratoire Motricité Humaine Expertise Sport Santé, Nice</i>	
15:15	› How can prolonged local vibration exposure influence central nervous system excitability? - <i>Thomas Lapole, Laboratoire Interuniversitaire de Biologie de la Motricité, St Etienne</i>	
15:30	› Soft Tissue Vibrations Standards of measurement, physiological interpretation, and clinical use - <i>Christophe Hautier, Laboratoire Interuniversitaire de Biologie de la Motricité, Lyon</i>	
15:45	› Intra-cycle analysis of the Vastus Lateralis muscle vibration during cycling. - <i>Frédérique Hintzy, Laboratoire Interuniversitaire de Biologie de la Motricité, Chambéry</i>	
16:00	› Acute effect of adding vibration exercise during recovery on performance during consecutive explosive resistance exercises - <i>Sébastien Duc, Performance, Health, Metrology Society (PSMS, EA 7507), Reims, France</i>	
16:15	› Effects of new method combining vibrations and gravity-facilitated traction: Biomechanical, neurophysiological, health and performance aspects - <i>Jérémy Robert, William Bertucci, Performance, Health, Metrology Society (PSMS, EA 7507), Reims, France</i>	
15:00 - 16:30	<b>Neurosciences - Contrôle moteur - Mental imagery and expertise</b> (A. Guillot)	Barthez
15:00	› Mental simulation of whole-body movements implicitly influences muscle contraction and pupil diameter as a function of preference to physical effort - <i>Yvonne Delevoye, Univ. Lille, CNRS, UMR 9193, SCALab-Sciences Cognitives et Sciences Affectives, F-59000 Lille, France.</i>	
15:15	› Tracking expertise in visual information pickup when throwing basketball using virtual reality - <i>Antoine Morice, Aix-Marseille Université, CNRS, Institut des Sciences du Mouvement UMR 7287, Marseille, France - Pooya Soltani, Centre for the Analysis of Motion, Entertainment Research and Applications, Dept. Computer Science, Dept. Health, University of Bath, Claverton Down, Bath BA2 7AY,</i>	
15:30	› Influence of imaginative suggestions on motor control - <i>Benjamin Moutardier, Laboratoire sur les Interactions Cognition, Action, Emotion, Université Paris Nanterre</i>	
15:45	› Influence of core training and proprioceptive exercises on balance control performance in horseback riders - <i>Agnès Olivier, Complexité, Innovation, Activités Motrices et Sportives, Plateau technique "Équitation et performance sportive", Saumur</i>	
16:00	› Smoothness discriminates motor performance improvement following mental and physical practices of arm-reaching movements. - <i>Dylan Rannaud Monany, INSERM UMR1093-CAPS, Université Bourgogne Franche-Comté, UFR des Sciences du Sport, F-21000, Dijon</i>	
16:15	› Evidence of sport-dependent effects of intensive sport training on the sensory control of balance during upright posture: a comparison between professionals in horseback riding, judo, and non-athletes. - <i>Jean-Philippe Viseu, Complexité, Innovation, Activités Motrices et Sportives, Paris Saclay</i>	
15:00 - 16:30	<b>Physiologie - Adaptation to acute and chronic exercise</b> (C. Fabre)	Sully 2
15:00	› Energy system contributions during a rowing ergometer performance in young competitive rowers - <i>Allison Diry, French Rowing Federation</i>	

15:15	› An in vitro electrical pulse stimulating protocol (EPS) mimicking exercise-induced myokines release to study myocytes - muscle resident progenitors crosstalk. - <i>Corentin Guilhot, UFR STAPS, Dynamique Musculaire et Métabolisme, Univ Montpellier, INRAe</i>	
15:30	› An in vitro electrical pulse stimulating protocol (EPS) to study resistance exercise. - <i>Guillaume Py, UFR STAPS, Dynamique Musculaire et Métabolisme, Univ Montpellier, INRAe</i>	
15:45	› A new model of training load quantification in resistance training - <i>Frank Imbach, EuroMov Digital Health in Motion, Univ Montpellier, IMT Mines Ales, Montpellier, DMeM, Univ Montpellier, INRAe, Seenovate, France</i>	
16:00	› Relationships between training load, subjective markers of recovery, salivary cortisol and physical capacity in professional offshore sailors. - <i>Kilian Philippe - Laboratory of Movement, Balance, Performance and Health, University of Pau and Pays de l'Adour, Tarbes, France EA-4445</i>	
16:15	› Impacts of real-time cardiac biofeedback on anticipatory stress - <i>Sophie Schlatter, Laboratoire Interuniversitaire de Biologie de la Motricité, Université Claude Bernard-Lyon I</i>	
15:00 - 16:30	<b>Physiologie - Exercise, blood and oncology</b> (K. Collomp)	Sully 3
15:00	› Effects of acute and chronic exercise in sickle cell anemia - <i>Philippe Connes, Laboratoire Interuniversitaire de Biologie de la Motricité, Equipe "Biologie vasculaire et du globule rouge", Laboratoire d'Excellence du Globule Rouge (Labex GR-Ex), PRES Sorbonne, Paris, Institut Universitaire de France</i>	
15:15	› Feasibility of an acute physical exercise before immunotherapy and chemotherapy infusion for metastatic non-small-cell lung cancer patients: ERICA study - <i>Manon Gouez, Inter-University Laboratory of Human Movement Biology EA7424, Department of Prevention Cancer Environment, Lyon</i>	
15:30	› Impact of endurance exercises on blood rheology and red blood cell physiology - <i>Elie Nader - Laboratoire LIBM, Equipe Biologie Vasculaire et du Globule Rouge, Lyon</i>	
15:45	› Effects of two modalities of physical activity on pancreatic cancer induced cachexia - <i>Cindy Richard, Laboratoire Mouvement Sport Santé, Rennes</i>	
16:00	› Dysregulation of mitochondria-related oxidative stress in breast cancer patients during chemotherapy: the first step to decipher the mechanisms of muscle deconditioning - <i>Joris Mallard - Institut de Cancérologie Strasbourg Europe, UR 3072, Centre de Recherche en Biomédecine de Strasbourg, Centre Européen d'Enseignement, de Recherche et d'Innovation en Physiologie de l'Exercice, Fédération de Médecine translationnelle,</i>	
16:15	› Central and peripheral fatigue during exercise in breast cancer patients following (neo)adjuvant chemotherapy - <i>Elyse Hucteau, Institut de Cancérologie Strasbourg Europe, Centre d'Enseignement, de Recherche et d'Innovation en Physiologie de l'Exercice, Faculté des Sciences du Sport, UR 3072, Centre de Recherche en Biomédecine de Strasbourg, Fédération de Médecine Translationnelle</i>	
15:00 - 16:30	<b>Psychologie - Benefits associated with physical activity</b> (C. Clément-Guillotin)	Sully 1
15:00	› How the development of students' emotional competences can enable them to learn to cope with difficulties: an exploratory and comparative study - <i>Manon Dugué, Centre d'études des transformations des activités physiques et sportives, Université de Rouen Normandie</i>	
15:15	› "Workplace Physical Activity Program" (WOPAP) study: A four-arm randomized controlled trial intended to prevent burnout and promote vigor - <i>Clément Ginoux, Sport et Environnement Social, Université Grenoble Alpes</i>	
15:30	› Physical activity prescription: report on 3 seasons of the Occitan program. - <i>Christophe Martinez, APSYv, Université de Nîmes</i>	



15:45	› The impact of the physical activity level of master athletes on executive and memory processes: a study using virtual reality. - <i>Indra Nina Maurisse, Laboratoire Mémoire, Cerveau &amp; Cognition (MC2 Lab, EA 7536), Université de Paris</i>	
16:00	› Effet du pic, de la pente et de l'autorégulation de l'intensité sur la réponse affective à l'exercice chez les femmes âgées - <i>Damien Tessier, Université Grenoble Alpes</i>	
16:15	› Relation between eating disorders, physical activity and psychological disturbances in sport sciences students - <i>Marc Toutain, COMETE UMR-S 1075, Université de Caen</i>	
15:00 - 16:30	<b>Sciences sociales - Psychology Sociology (Y. Stephan)</b>	Joffre 5
15:00	› The influence of the coach's emotional intelligence and the coach's mental toughness on athletes' burnout: using the self-determination theory - <i>Emma Baggio, Laboratoire sur les Vulnérabilités et l'Innovation dans le Sport (EA 7428), Université Claude Bernard Lyon 1</i>	
15:15	› Effortless self-control in physical activity: the deleterious role of social identity threat - <i>Margaux de Chanaille, Laboratoire SENS, Univ. Grenoble Alpes, Grenoble, France</i>	
15:30	› Analyse socio-technique d'un dispositif villeurbannais de prévention par l'activité physique adaptée - <i>Emmanuel Dizin, Laboratoire L-ViS, Université Claude Bernard Lyon 1</i>	
15:45	› Physical Commitment Increases Adherence to Salient Descriptive Norms and Values - <i>Tess Schweizer, Sport Sciences Institute, University of Lausanne</i>	
16:00	› Sports media and audiovisual technique: media coverage of video assistant refereeing during the 2018 and 2019 football World Cups - <i>Pierrick Desfontaine, Centre de Recherche Sciences Sociales Sport et Corps, École normale supérieure - Rennes</i>	
16:30 - 17:30	<b>EXHIBITORS VISIT – REFRESHMENT BREAK</b>	Joffre
16:30 - 17:30	<b>Neurosciences - Contrôle moteur - POSTER SESSION 2</b>	Joffre
48	› An identification method to improve the transparency of an exoskeleton: development and validation - <i>Nicolas Vignais, Complexité, Innovation, Activités Motrices et Sportives, Univ Paris Saclay</i>	
49	› Apprentissage par imitation motrice chez des enfants atteints du syndrome d'Angelman - <i>Amira Ajailia, institut supérieur de sport et d'éducation physique du Kef</i>	
50	› Building an internal model of friction for the parameterization of arm movement when sliding an object toward a target - <i>Sylvain Famié, Laboratoire d'Informatique pour la Mécanique et les Sciences de l'ingénieur, Laboratoire d'informatique Avancée de Saint-Denis, Complexité, Innovation, Activités Motrices et Sportives</i>	
51	› Cognitive-postural behaviour assessments in over 65-year-olds: Linking behavioral fluctuations to Perceptual Style - <i>Hadrien Ceyte, Université de Lorraine, DevAH</i>	
52	› Complexity matching for the restoration of the complexity of walking in the elderly: a potential for preventing falls - <i>Samar Ezzina, Union Nationale Sportive Léo Lagrange, Euromov Digital Health in Motion, Univ Montpellier, IMT Mines Ales</i>	
53	› Does indoor skydiving have an effect on the static balance of indoor skydiving elite athletes? - <i>Daniel Zegarra-Chávez, Universitat Internacional de Catalunya, Actium Anatomy Group</i>	
54	› Done in 100 ms: using intermuscular coherence to investigate the engagement of neural binding between muscles in mediating fast motor corrections. - <i>Vincent Ardonceau, Toulouse Neuro Imaging Center, Université Grenoble Alpes, UFR STAPS, Grenoble</i>	

55	› Effect of Acute Moderate and High Intensity Intermittent Exercise on Cognitive Flexibility: role of cerebral oxygenation. - <i>Olivier Dupuy, Ecole de Kinésiologie et des Sciences de l'activité Physique, Faculté de Médecine, Université de Montreal, Laboratoire "Mobilité, Vieillesse, Exercice" (MOVE)</i>
56	› Effect of gender, handedness, footedness and eyedness on injuries of 3275 young athletes from 15 to 21 years old. - <i>Pascal Bourgeois, CY Cergy Paris Université</i>
57	› Effect of high intensity interval training (HIIT) on some neurotransmitters and perceptual motor skills in children with attention deficit hyperactivity disorder (ADHD). - <i>Farnaz Torabi, Department of Physical Education, Payame Noor University.</i>
58	› Effect of nighttime melatonin ingestion on unipedal postural balance and functional mobility in persons with multiple sclerosis - <i>Sonda Jallouli, Research laboratory of evaluation and management of musculoskeletal system pathologies, LR20ES09 University of Sfax, Sfax Tunisia</i>
59	› Effects of motor imagery combined with transcranial direct current stimulation on the acquisition of a finger-tapping task in healthy young and older adults - <i>Angèle Métais, Laboratoire Interuniversitaire de Biologie de la Motricité</i>
60	› Effects of using immersive virtual reality on parameters time and number of steps while performing « Timed Up and Go » task according to age and gender. - <i>Alexandre Renaux, Développement, Adaptation et Handicap. Régulations cardio-respiratoires et de la motricité.</i>
61	› Effects of Exercise Intensity and Expertise on Recognition of Emotional Facial Expressions - <i>Adel Jouini, Institut Supérieur de Sport et de l'Education Physique Ksar Said, Université de la Manouba</i>
62	› Embodiment and body listening: contributions to martial arts and combat sports (MA&CS) - <i>Thabata Castelo Branco Telles, University of São Paulo (EEFERP), Institut des Sciences du Sport-Santé de Paris</i>
63	› Emotional predictions as controlling factor of reaching movement - <i>Lola Lachaud, Laboratoire sur les Interactions Cognition, Action, Emotion</i>
64	› Fine morphocinetic motions in ASD children: effect of writing amplitude on the isochrony principle - <i>Aurélie Benckekri, Equipe RoBioSS, Institut PPRIME, UPR 3346, Centre de Recherches sur la Cognition et l'Apprentissage</i>
65	› Gesture-speech synchrony in schizophrenia - <i>Margo Dautheville Guibal, EuroMov Digital Health in Motion, Univ Montpellier, IMT Mines Ales</i>
66	› How distinct are continuous and discrete movements? Hints from transfer of visuomotor adaptation between reaching and tracking movements - <i>Adrien Coudiere, Frederic Danion, Centre de Recherches sur la Cognition et l'Apprentissage</i>
67	› How the way we move impacts the way we perceive others' actions - <i>Pauline Hilt, UFR Sciences du Sport (STAPS) (Université de Bourgogne)</i>
68	› Human working in interaction with a cobot: what do its gesture, posture and gaze tell us? - <i>Kévin Bouillet, Laboratoire DevAH</i>
69	› Impact of fasting and practicing sports on the response time and the selective attentional ability in preteen and teenage boys - <i>Latiri Imed, Faculté de médecine de Sousse [Ibn EL Jazzar]</i>
70	› Individual Motor and Perceptual Signatures - <i>Arthur Devemy, UFR Sciences du Sport (STAPS) (Université de Bourgogne), Cognition, Action, et Plasticité Sensorimotrice [Dijon - U1093]</i>
71	› Influence of physical exercise on inhibition of return - <i>Alexandre Coutté, Laboratoire sur les Interactions Cognition, Action, Emotion, Université Paris Nanterre</i>
72	› Information throughput in healthy individuals who are comparable in age and gender with persons with stroke. - <i>Tifenn Fauviaux, EuroMov Digital Health in Motion, Univ Montpellier, IMT Mines Ales</i>
73	› Proprioceptive contribution to learning an elbow flexion-extension task - <i>Romain Tisserand, Centre de Recherche sur la Cognition et l'Apprentissage - CNRS UMR 7295, Institut Pprime - UPR 3346</i>

- 74 › Restoring arm complexity of stroke patient through arm dyadic synchronization - *Zainy.M.H AL Murad, Faculty of Physical Education and Sports Sciences, Univ. Mosul*
- 75 › The Effects of 2 minutes of breathing relaxation on the balance of 4th graders when they are carrying, or not carrying, a school bag. - *Pauline Salmont, Pascal Bourgeois, CY ILEPS*
- 76 › Toward an individual emotional motor signature - *Mathilde Parisi, EuroMov Digital Health in Motion, Univ Montpellier, IMT Mines Ales*
- 77 › What level of analysis to detect expertise during basketball shooting in a virtual reality ? - *Antoine Morice, Aix-Marseille Université, CNRS, Institut des Sciences du Mouvement UMR 7287, 13288, Marseille, France*

**16:30 - 17:30 Psychologie - Sciences de l'intervention - POSTER SESSION 2**

Joffre

- 78 › Adapted physical activity as complementary treatment to alleviate the symptoms of endometriosis? The CRESCENDO program (inCREASE physical Exercise and Sport to Combat ENDometriosis) - *Géraldine Escriva, Laboratoire Interuniversitaire des Sciences de l'Éducation et de la Communication*
- 79 › Automatic processes associated with physical activity and sedentary behavior from a lifespan perspective - *Matthieu Boisgontier, School of Rehabilitation Sciences, Faculty of Health Sciences, University of Ottawa, Bruyère Research Institute, Ottawa*
- 80 › Dynamics of approach/avoidance motivations during positive and negative series of feedback - *Anne Teboul, EuroMov Digital Health in Motion, Univ Montpellier, IMT Mines Ales.*
- 81 › Ego Depletion: Criticisms & Perspectives for future investigation of its role on physical inactivity - *Cyril Forestier, Laboratoire Motricité, Interactions, Performance - EA4334, Le Mans Université, Le Mans, France*
- 82 › Enhancement of the Rubber Hand Illusion (RHI) by the touch-proprioceptive coupling: a self-initiated procedure of the RHI. - *Hélène VanBorren, Laboratoire LICAE, UFR STAPS*
- 83 › Influence of physical activity intensity on students' level of well-being and emotional intelligence - *Manon Dugué, Centre d'études des transformations des activités physiques et sportives*
- 84 › Motivation toward physical activity in patients with musculoskeletal disorders: two meta-analyses of the association with behaviour and the efficacy of behavioural interventions - *Matthieu Haas, EuroMov Digital Health in Motion, Univ Montpellier, IMT Mines Ales*
- 85 › Psychological state and living conditions during and after the COVID-19 lockdown: A longitudinal study on active vs non-active French adults - *Giovanna Del Sordo, Marie Cholley-Gomez, Impact de l'Activité Physique sur la Santé (IAPS)*
- 86 › Sensorimotor decrease by aging suit to study cognitive impairment in aging: an innovative experimental protocol - *Ilona Moutoussamy, Centre de Recherches sur la Cognition et l'Apprentissage, Laboratoire de psychologie des âges de la vie et adaptation, Université François Rabelais, Tours*
- 87 › Study of the effect of an unforeseen event in rugby on team adaptation and the adaptation process - *Laura Chareyre, EuroMov Digital Health in Motion, Univ Montpellier, IMT Mines Ales*
- 88 › The Relationships between team momentum and the dynamics of collective organization in football - *Hervé Gautier, Faculté des Sciences du Sport, UFR STAPS, EuroMov Digital Health in Motion, Univ Montpellier, IMT Mines Ales*
- 89 › Validation of the Ricci & Gagnon physical activity self-questionnaires with determinants of physical fitness, in subjects with abdominal obesity. - *Simon Réault, Centre médico-sportif Mon Stade [Paris], Laboratoire MOVE - EA6314 [Poitiers]*
- 90 › Visual feedbacks of hands' movements and the construction of the body schema - *Hamza Sabek, Laboratoire des Interaction Cognition, Action, Emotion (LICAE)*

91	› “Corporeal non-property”: psychomotor evaluation after a traumatic brain injury - <i>Marie Agostinucci, Institut des Sciences du Sport-Santé de Paris</i>	
17:30 - 19:00	<b>Symposium Psychological factors related to physical functioning with advancing age</b> (B. Canada and Y. Stephan)	Auditorium Pasteur
17:30	› Introduction Symposium - <i>Brice Canada, Laboratoire sur les vulnérabilités et l'Innovation dans le sport, Université Claude Bernard Lyon 1 - Yannick Stephan, EuroMov Digital Health in Motion, Univ Montpellier, IMT Mines Ales</i>	
17:40	› Being old but physically active to not fall into the traditional stereotype in ingroup descriptions and self-descriptions - <i>Corentin Clément-Guillotin, LAMHES</i>	
18:00	› Does the effect of stereotypes in older people depend upon task intensity? - <i>Maxime Deshayes, Université de Nîmes, APSY-V, Nîmes, France - Corentin Clément-Guillotin, Université Côte d'Azur, LAMHES, France</i>	
18:20	› The Association between Subjective Age and Motoric Cognitive Risk Syndrome - <i>Yannick Stephan, EuroMov Digital Health in Motion, Univ Montpellier, IMT Mines Ales</i>	
18:40	› Association Between Personality Traits and (Instrumental) Activities of Daily Living Limitations - <i>Brice Canada, Laboratoire sur les vulnérabilités et l'Innovation dans le sport, Univ Claude Bernard Lyon 1 - Yannick Stephan, EuroMov Digital Health in Motion, Univ Montpellier, IMT Mines Ales</i>	
17:30 - 19:00	<b>Symposium Novel approaches to the complexity and the dynamics of sport performance</b> (C. Gernigon)	Sully 1
17:30	› Introduction: Novel approaches to the complexity and the dynamics of sport performance - <i>Christophe Gernigon, EuroMov Digital Health in Motion, Univ Montpellier, IMT Mines Ales</i>	
17:40	› Approach-avoidance motivational states in sport: Dynamics of the conservation versus adaptation dialectics in sport - <i>Anne teboul, EuroMov Digital Health in Motion, Univ Montpellier, IMT Mines Ales</i>	
18:00	› The merits of data science in sports: Revealing micro- and macro- processes of Resilience - <i>Rens Meerhoff, Leiden Institute of Advanced Computer Science, Leiden University, the Netherlands</i>	
18:20	› Antifragility – Leveraging Stress to Enhance Performance - <i>Yannick Hill, Heidelberg University</i>	
18:40	› Talent selection in a complex sports context: Improving performance predictions of athletes - <i>Ruud den Hartigh, Department of Psychology, University of Groningen</i>	
17:30 - 19:00	<b>Neurosciences-Contrôle moteur - Cerebral responses in humans</b> (F. Di-Rienzo)	Sully 2
17:30	› Neural correlates of functional upper limb motor task performance using combined fNIRS-EEG - <i>Camille O. Muller, EuroMov Digital Health in Motion, Univ Montpellier, IMT Mines Ales, CHU Montpellier.</i>	
17:45	› The modulation of corticomuscular coherence reflects alteration of the central-peripheral network after stroke. - <i>Célia Delcamp, ToNIC, Toulouse NeuroImaging Center</i>	
18:00	› Functional status is associated with prefrontal cortex activation in gait in subacute stroke patients: A functional near-infrared spectroscopy study - <i>Anaick Perrochon, Laboratoire HAVAE, EA 6310, Univ Limoges</i>	
18:15	› Effect of simultaneous physical and cognitive training on executive functions in aging people - <i>Manon Pellegrini-Laplagne, Laboratoire Mobilité, Vieillesse, Exercice MOVE, Univ Poitiers</i>	

18:30	› Neural plasticity induced by motor imagery strength-training - <i>Cecilia Neige</i> - <i>INSERM UMR1093-CAPS, Université Bourgogne Franche-Comté, UFR des Sciences du Sport, F-21000, Dijon</i>
18:45	› Unconscious reading of action verbs modulates corticospinal excitability during motor imagery - <i>William Dupont</i> - <i>INSERM UMR1093-CAPS, Université Bourgogne Franche-Comté, UFR des Sciences du Sport, F-21000, Dijon.</i>
17:30 - 19:00	<b>Physiologie, Biomécanique - Eccentric exercise</b> (V. Martin) <span style="float: right;">Barthez</span>
17:30	› Time-course of functional and morphological muscle adaptations during downhill running training - <i>Bastien Bontemps</i> , <i>Research Institute for Sport and Exercise Sciences (RISES), Liverpool John Moores University, Liverpool, UK, Laboratoire IAPS (n°201723207F), Toulon, France</i>
17:45	› Energy cost of running in highly trained athletes: towards slope-dependent factors - <i>Marcel Lemire</i> , <i>Translational Medicine Federation (FMTS), UR 3072, Strasbourg</i>
18:00	› Repeated bout effect: Neuromuscular and cardiorespiratory responses during downhill walking in relation to muscle function loss - <i>Sebastian Garcia</i> , <i>Laboratoire de Biologie de l'Exercice pour la Performance et la Santé, Institut de Recherche Biomédicale des Armées</i>
18:15	› Neuromuscular alterations induced by concentric versus eccentric cycling at the same workrate or effort perception - <i>Adrien Mater</i> , <i>INSERM U1093, Université de Bourgogne, France</i>
18:30	› Metabolic responses and adaptations to eccentric cycling training - <i>Luis Peñailillo</i> , <i>Exercise Science Laboratory, School of Kinesiology, Faculty of Medicine, Universidad Finis Terrae, Santiago, Chile</i>
18:45	› Differential effects of concentric and eccentric contractions on the primary motor cortex - <i>Marion Desachy</i> , <i>EuroMov Digital Health in Motion, Univ Montpellier, IMT Mines Ales</i>
17:30 - 19:00	<b>Physiologie, Biomécanique - Performance determinants</b> (G. Rao) <span style="float: right;">Sully 3</span>
17:30	› Study of the choice of slope according to duration for a trail-running D+ record attempt - <i>Corentin Hingrand</i> , <i>U1075 Laboratoire COMETE Unicaen/INSERM</i>
17:45	› Effects of shoe longitudinal bending stiffness on running economy and biomechanics during graded running - <i>Titouan Perrin</i> , <i>Laboratoire Interuniversitaire de Biologie de la Motricité, École normale supérieure - Rennes</i>
18:00	› Two weeks of running sprint interval training (R-SIT) improve sprint mechanics, power and jump performance in young male basketball players. - <i>Jaume Lloria-Varela</i> , <i>Laboratoire Interuniversitaire de Biologie de la Motricité, Université Jean Monnet Saint-Étienne</i>
18:15	› Biomechanical analysis of curve sprinting in male and female track athletes - <i>Benjamin Millot</i> , <i>Fédération Française d'Athlétisme, French Institute of Sport (INSEP), Research Department, Laboratory Sport, Expertise and Performance (EA7370)</i>
18:30	› Impact of cold and heat on skin temperature on manual performance during maneuverability exercises in powerchair soccer players. - <i>Aurélien Vandenbergue</i> , <i>Université de Picardie Jules Verne</i>
18:45	› Breathing-related stability among 10 meter air pistol shooters - <i>Samuel Hybois</i> , <i>Institut de Biomécanique Humaine Georges Charpak, Département STAPS, UFR SMBH</i>
17:30 - 19:00	<b>Sciences et Technologies du Numérique - Digital health</b> (G. Dray) <span style="float: right;">Joffre 4</span>
17:30	› Setting up a remote care pathway for fatigue management for patients with COVID-19: the CoviMouv' protocol study. – <i>Pierre Labeix</i> , <i>Department of Clinical and Exercise Physiology, University Hospital Center, Saint-Etienne, France, Univ. Lyon, UJM-Saint-Etienne Autonomic Nervous System Research Laboratory, SAINBIOSE INSERM, U1059, Saint-Etienne, France</i>



17:45	› Assessment of a digital assistant for physical activity prescription: a preliminary study - <i>Alex Cousien, Faculté des Sciences du Sport, UFR STAPS, Mooven, Université Côte d'Azur</i>
18:00	› Design and methods of a national, multicenter, randomized controlled trial to assess the efficacy of a physical activity program to improve quality of life and reduce fatigue in women with metastatic breast cancer: the ABLE02 trial - <i>Lidia Delrieu, Laboratoire Inter-universitaire de biologie et de la motricité, EA7424, Université Claude Bernard Lyon 1, Université de Lyon, Villeurbanne, France., Département Cancer Environnement, Centre Léon Bérard, Lyon, France.</i>
18:15	› A Face-to-face and videoconference-based adapted physical activity training for elderly: a comparison study - <i>Olga Kuldavletova, COMETE UMR-S 1075 - Gaëlle Quarck, COMETE UMR-S 1075</i>
18:30	› Hybrid program based on virtual and real games increases fundamental movement skills in children with intellectual disability: A quasi-experimental study - <i>Ghada Regaieg, Centre de Recherche sur l'Éducation, les apprentissages et la didactique EA 3875</i>
18:45	› Comparative study of a respiratory rehabilitation program in hospital and tele-rehabilitation program for patients suffering from post-covid 19 sequelae. - <i>Jean-Marc Vallier, Laboratoire Impact de l'Activité Physique sur la Santé, Univ Toulon</i>
17:30 - 19:00	<b>Psychologie - Sciences de l'intervention - Perception attention</b> (C. Teulier) <span style="float: right;">Joffre 5</span>
17:30	› Urban design evaluation in virtual reality: the impact of colorful floor marking on spontaneous walking, gaze and affective states - <i>Adamantia Batistatou, University of Lille</i>
17:45	› Do physical activity, sedentary time, motor skills and aerobic fitness predict primary school children's attention? Use of data mining strategy. - <i>Caroline Maité Marie Bernal, Mouvement, Equilibre, Performance, Santé (MEPS), Université de Pau et des Pays de l'Adour</i>
18:00	› On the perception of movement vigor - <i>Ombeline Labaune, CIAMS, Univ Paris Saclay</i>
18:15	› Validation of the computerized Trail Making Test in adults - <i>Alicia Leclercq, Laboratoire Motricité, Interactions, Performance, MIP, Univ Nantes</i>
18:30	› Physical activity as a protective factor against deficit in emotional regulation in adult ADHD - <i>Antony Philippe, Univ. NIMES, APSY-V, F-30021 Nîmes Cedex 1, France</i>
18:45	› Influence of body mobility on executive control in school-aged preterm and term born children - <i>Joëlle Rosenbaum, Développement, Adaptation et Handicap. Régulations cardio-respiratoires et de la motricité, Université de Lorraine</i>

19:15 - 21:30 **SOIREE GRAND PUBLIC**  
**FAVORISER L'ACTIVITE PHYSIQUE AU QUOTIDIEN - Sonia Lavadinho**  
 et grands témoins Auditorium  
Pasteur

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19<sup>ÈME</sup> CONGRÈS DE L'ASSOCIATION  
DES CHERCHEURS EN ACTIVITÉS PHYSIQUES ET SPORTIVES



CORUM DE MONTPELLIER  
27 AU 29 OCTOBRE 2021



## FRIDAY, OCTOBER 29TH 2021

08:00 - 09:30	Symposium <b>Paralympic sports</b> (A. Faupin)	Auditorium Pasteur
08:00	› Conditions socio-environnementales de préparation sportive des médaillés et non médaillés paralympiques français - <i>Maxime Luigi - French Institute of Sport (INSEP), Research Department, Laboratory Sport, Expertise and Performance (EA7370)</i>	
08:12	› The search for stability in para-shooting: a medical and sporting compromise. - <i>Didier Pradon - Pôle parasport santé CHU Raymond Poincaré</i>	
08:24	› Influence of wheelchair on performance in wheelchair rugby players - <i>Sadate Bakatchina - Université de Toulon, IAPS, EA 6312, 83957 La Garde, France</i>	
08:36	› Field test using Inertial Measurement Units (IMU) in a high-level wheelchair badminton player - preliminary results - <i>Iлона Alberca - IAPS, Univ Toulon</i>	
08:48	› Involvement in Multiple Race Events Among International Para and Non-disabled Swimmers - <i>Julien Schipman - IRMES, Paris</i>	
09:00	› Is the visual impairment origin a performance factor? Analysis of international level Para swimmers and Para athletes - <i>Bryan Le Toquin - IRMES, Paris</i>	
09:12	› Biomechanical performance analysis of wheelchair racing using IMU sensors - <i>Christophe Sauret, Institution Nationale des Invalides / CERAH, Institut de Biomécanique Humaine Georges Charpak, Arts et Métiers ParisTech ENSAM</i>	
08:00 - 09:30	Neurosciences - Contrôle moteur - <b>Rhythm</b> (Y. Delevoye)	Sully 2
08:00	› Can rhythmic abilities distinguish neurodevelopmental disorders? - <i>Mélody Blais, International Laboratory for Brain, Music and Sound Research (BRAMS), Montreal, EuroMov Digital Health in Motion, Univ Montpellier, IMT Mines Ales</i>	
08:15	› BeatWalk: personalized music-based gait rehabilitation in Parkinson's disease - <i>Valérie Cochen De Cock, Department of Epidemiology and Biostatistics - Loïc Damm, EuroMov Digital Health in Motion, Univ Montpellier, IMT Mines Ales</i>	
08:30	› Do Modality and Tempo of rhythmic stimuli influence sensorimotor synchronization in young adults? - <i>Anaïs Desbernats, ToNIC, Toulouse NeuroImaging Center, Université de Toulouse</i>	
08:45	› Locomotor-Respiratory-Coupling translates into flexible breathing rhythm and stable cadence - <i>Loïc Damm, EuroMov Digital Health in Motion, Univ Montpellier, IMT Mines Ales</i>	
09:00	› Interpersonal synchronization: Discrete correction of asynchronies vs complexity matching - <i>Didier Delignieres, EuroMov Digital Health in Motion, Univ Montpellier, IMT Mines Ales</i>	
09:15	› Breathing rhythm shapes conscious access and the ability to guess - <i>Ludovic Molle, EuroMov Digital Health in Motion, Univ Montpellier, IMT Mines Ales, CHU Nîmes</i>	

08:00 - 09:30	<b>Physiologie - Sleep, physical (in)activity and health</b> (P. Duché)	Sully 1
08:00	› Study of relation between sleep and physical activity in young and middle-aged adults: preliminary results - <i>Pauline Baron, unité de recherche pluridisciplinaire sport santé société (URePSSS), Univ Lille</i>	
08:15	› Good nap, perform high? anywhere? - <i>Nicolas Bessot, COMETE UMR-S 1075, Univ Caen</i>	
08:30	› Effect of the depth of cold water immersion on sleep architecture and recovery among well-trained male endurance runners - <i>Maxime Chauvineau, Laboratory of Sport, Expertise and Performance (EA 7370), French National Institute of Sport (INSEP), Paris</i>	
08:45	› Ambulatory study of the relationship between perceived light and sleep - <i>Emma Milot, COMETE UMR-S 1075, Univ Caen</i>	
09:00	› Effects of cycling workstation to get tertiary employee moving on their overall health: the REMOVE study. - <i>Terry Guirado, INRA UMR1019, Metabolic Adaptations to Exercise under Physiological and Pathological Conditions, (AME2P), UE3533, Clermont Auvergne University</i>	
09:15	› Impact of extreme physical inactivity and low-dose testosterone treatment on iron distribution in male rats - <i>Mathieu Horeau, Nutrition, Métabolismes et Cancer, Laboratoire Mouvement Sport Santé, Université de Rennes 2</i>	
08:00 - 09:30	<b>Sc. et Tech. du Numérique - Digital methods for training</b> (P. Slangen)	Joffre 5
08:00	› Can we predict the internal load (perceived exertion) from the external load (GPS) with machine learning? - <i>Emmanuel Vallance, Euromov Digital Health in Motion, Univ Montpellier, IMT Mines Ales</i>	
08:15	› Assessment of two weekly training models of tactical periodization in professional rugby union players via wearable technology. - <i>Xiaopan Hu, East China Normal University [Shangai], École normale supérieure - Rennes</i>	
08:30	› Visual tracking assessment in a soccer-specific virtual environment: a web-based study - <i>Alexandre Vu, M2S Lab, Rennes</i>	
08:45	› Effects of an 8-week lockdown due to Covid-19 on training habits, stress, fatigue and sleep habits in trail runners - <i>Frederic Sabater Pastor, Laboratoire Interuniversitaire de Biologie de la Motricité, Université Jean Monnet de Saint-Etienne</i>	
09:00	› Methodology for the induction of competitive stress during virtual reality trainings in shooting sports. - <i>Nina Franiatte, Alexandra Delmas, Onepoint - R&amp;D Department, Bordeaux, France</i>	
09:15	› Cardiac indices as markers of the detection of cognitive fatigue during a continuous vigilance task - <i>Alexis Boffet, Laboratoire IMS, équipe PMH_DySCo, Université de Bordeaux</i>	
08:00 - 09:30	<b>Psychologie - Physical activity predictors</b> (B. Canada)	Sully 3
08:15	› Does personality predict physically active lifestyle after pulmonary rehabilitation among patients with chronic respiratory diseases? - <i>Pauline Caille, DRIS, Les Cliniques du Souffle, EuroMov Digital Health in Motion, Univ Montpellier, IMT Mines Ales</i>	
08:30	› Additional physical education sessions during 21 days of thermal spa healthcare care: a 1 year follow-up pilot study - <i>Julien Maitre, Laboratoire Mouvement, Equilibre, Performance et Santé, Université de Pau et des Pays de l'Adour</i>	
08:45	› A mobility program for seniors: ADYMA – <i>Emma Guillet Descas, Laboratoire sur les Vulnérabilités et l'Innovation dans le Sport (EA 7428 L-ViS), Université Claude Bernard - Lyon 1</i>	
09:00	› Self-control as a mediator between executive functions and physical activity - <i>Cyril Forestier, Laboratoire Motricité, Interactions, Performance, MIP - EA4334, Le Mans Université, Le Mans</i>	

09:15	› Climate Change, Physical Activity and Sport: A Systematic Review - <i>Guillaume Chevance, Instituto de Salud Global - Institute For Global Health [Barcelona] - Paquito Bernard, Université du Québec à Montréal</i>	
08:00 - 09:30	<b>Psychologie - Sport psychology</b> (C. Gernigon)	Barthez
08:00	› Effects of self-control fatigue on sprint performance in elite athletes - <i>Félicie Pommerell, Laboratoire Motricité, Interactions, Performance, MIP - EA4334, Le Mans Université, Le Mans</i>	
08:15	› Mental imagery and tennis: beneficial effect of a service routine for expert players. - <i>Laurent Dominique, Adaptation, Climat Tropical, Exercice et Santé, Université des Antilles</i>	
08:30	› Modelling the dynamics of power balance in team sports : a notational analysis system - <i>Yoann Drolez, Laboratoire Cultures, Éducation, Sociétés (LACES), Département STAPS</i>	
08:45	› The coordination between crew members of double-handed foiling catamarans: A partnership with the boat or an enslavement of the crew members? - <i>Eric Terrien, Motricité, interactions, performance EA 4334, Univ Nantes</i>	
09:00	› Athletes' injuries occurrence and stress level: The predicting role of temporal evolution of the quality of the coach-athlete relationship in intensive handball training centers - <i>Valentin Roux, Sport et Environnement Social, Univ Grenoble Alpes</i>	
09:15	› Impact of innovative technologies to deal with thermal stress in aerobic performances of Paris 2024 – <i>Guillaume Coudeville, Université des Antilles (Pôle Guadeloupe)</i>	
<b>09:30 - 10:00</b>	<b>EXHIBITORS VISIT – REFRESHMENT BREAK</b>	Joffre
10:00 - 10:50	<b>PLENARY SESSION 4 - Krasimira Tsaneva-Atanasova</b> <b>Identifying and Quantifying Movement Signatures.</b> (B..Bardy)	Auditorium Pasteur
11:00 - 12:30	<b>Forum Réseau Jeunes Chercheurs ACAPS – Young Investigators Forum OPEN SCIENCE</b> <a href="https://www.acaps.asso.fr/rencontres-du-rjc/">https://www.acaps.asso.fr/rencontres-du-rjc/</a>	Auditorium Pasteur
12:30 - 14:00	<b>Déjeuner - Lunch</b>	

14:00 - 14:50	<b>PLENARY SESSION 5 - Emig Thorsten</b> <b>Taking the exercise lab to the real world: What can we learn from big data in endurance sports?</b> (J. Montmain)	Auditorium Pasteur
15:00 - 16:30	<b>Symposium Eccentric contractions: recent advances in neural, musculotendinous and psychophysical insights for exercise prescription</b> (S. Colson)	Auditorium Pasteur
15:00	› Eccentric contractions: recent advances in neural, musculotendinous and psychophysical insights for exercise prescription - <i>Serge Colson, Laboratoire Motricité Humaine Expertise Sport Santé, Nice</i>	
15:05	› Why is the neural control of lengthening contractions considered so unique? - <i>Dorian Glories, Julien Duclay, Toulouse NeuroImaging Center</i>	
15:25	› Does elastography provide a valid estimation of the amount of muscle damage? - <i>Lilian Lacourpaille, Laboratory Movement, Interactions, Performance, Nantes</i>	
15:45	› Eccentric cycling: training benefits, fatigability and perspectives - <i>Pierre Clos, INSERM U1093, Université de Bourgogne, France</i>	
16:05	› Kinesthetic alterations after submaximal fatiguing eccentric contractions: the role of central fatigue - <i>Flavio Da Silva, Laboratoire Motricité Humaine Expertise Sport Santé, Nice</i>	
15:00 - 16:30	<b>Symposium Visuomotor compatibility effects: a window into the neurocognitive processes underlying human movement</b> (L. Brunel and L. Heurley)	Barthez
15:00	› Assessing the integration of motor related components in Visuomotor Compatibility effect - <i>Lionel Brunel - Dynamique des capacités humaines et des conduites de santé, Université Paul Valéry Montpellier</i>	
15:15	› An insight into the effect of context in visuomotor compatibility through laterality, force, and behavioral immune system. - <i>Arthur-Henri Michalland – Laboratoire Innovation Formes Architectures Milieux, Université de Montpellier</i>	
15:30	› The visuomotor effects of compatibility: a window into the size of the body schema - <i>Loïc Heurley - Laboratoire des Interaction Cognition, Action, Emotion (LICAE), Université Paris Nanterre</i>	
15:45	› Visuomotor compatibility effect: a window into the neurocognitive processes underlying human movement - <i>Lionel Brunel - Dynamique des capacités humaines et des conduites de santé</i>	
16:00	› Stimulus-Response Compatibility Paradigm and Unmanned Aircraft Vehicle Systems - <i>Anne-Claire Large - Dynamique des capacités humaines et des conduites de santé, Université Paul Valéry Montpellier</i>	
15:00 - 16:30	<b>Neurosciences - Contrôle moteur - Methodology and technology</b> (J.J. Temprado)	Sully 1
15:00	› Entropy and multifractality in heart rate dynamics as markers of specific brain-heart coordinations when adapting to cognitive tasks - <i>Pierre Bouny, Laboratoire IMS, équipe PMH_DySCo, URGOTECH, Univ Bordeaux</i>	
15:15	› Multifractal hand dynamics as a marker of motor control adaptation during a visuomotor virtual reality task in sport students - <i>Yvan Pratviel, Laboratoire de l'intégration, du matériau au système, Centre Aquitain des Technologies de l'Information et Electroniques, Univ Bordeaux</i>	
15:30	› Assessment of human movement complexity: toward a gold standard task and a new way of using fractal analyses - <i>Clément Roume, Euromov Digital Health in Motion, Univ Montpellier, IMT Mines Ales</i>	



15:45	› Innovative Virtual Reality method to assess the influence of a blur in boxing anticipation. - <i>Annabelle Limballe, M2S Lab, Univ Rennes 2</i>	
16:00	› Evolution of static and dynamic field dependence following virtual immersion - <i>Luca Fantin, DevAH, F-5400 Nancy, IADI, F-5400 Nancy</i>	
16:15	› Validity and reliability of video analysis for ankle proprioceptive reintegration during postural control. - <i>Brice Picot, Fédération Française de Handball, Société Française des Masseurs-Kinésithérapeutes du Sport, Laboratoire Interuniversitaire de Biologie de la Motricité, St Etienne</i>	
15:00 - 16:30	<b>Physiologie - Physical activity and pathology/impairment (miscellaneous)</b> (A. Varray)	Sully 3
15:00	› Neuromuscular origin of chronic fatigue among patients with multiple sclerosis. - <i>Nicolas Royer, Laboratoire Interuniversitaire de Biologie de la Motricité, St Etienne</i>	
15:15	› Home-based, video-supervised exercise study testing improved cardiorespiratory fitness and enhanced muscle metabolism in chronic kidney disease. - <i>Gwenaelle Begue, Kinesiology Department, California State University, Sacramento, California.</i>	
15:30	› Mechanisms of muscle pH regulation in sickle cell disease - <i>Manon Riccetti, Laboratoire Interuniversitaire de la Biologie de la Motricité, Université Savoie Mont Blanc</i>	
15:45	› Does proximal ischemia in intermittent claudication worsen gait instability? A preliminary study - <i>Céline Guilleron, Laboratoire Motricité, Interactions, Performance, Université de Nantes</i>	
16:00	› The effect of progressive intradialytic exercise program (resistance + endurance) combined with melatonin supplementation on postural stability in hemodialysis patients - <i>Housseem Marzougui, Laboratoire Interdisciplinaire en Neurosciences, Physiologie et Psychologie, Université Paris Nanterre, Bases moléculaires de la pathologie humaine, Faculté de médecine de Sfax, Tunisie</i>	
16:15	› Preliminary results of the physical activity and carotid atherosclerotic plaque hemorrhage (PACAPh) project - <i>Mathilde Mura, Laboratoire Interuniversitaire de Biologie de la Motricité, Université Claude Bernard Lyon 1</i>	
15:00 - 16:30	<b>Psychologie - Perceptual motor integration</b> (J. Tallet)	Sully 2
15:00	› Moving with someone happy makes you happy - <i>Juliette Lozano-Goupil, EuroMov Digital Health in Motion, Univ Montpellier, IMT Mines Ales</i>	
15:15	› Automatic affective reactions elicited by physical effort: a virtual reality study - <i>Boris Cheval, Laboratory for the Study of Emotion Elicitation and Expression, Dep. Psychology, Unive Geneva, Switzerland - Matthieu Boisgontier, Faculty of Health Sciences, Univ Ottawa, Canada</i>	
15:30	› An ideomotor illusion in the rubber hand illusion: when ideomotor processes participate to body awareness - <i>Fleur Touzard, Laboratoire LICAE, Université Paris Nanterre</i>	
15:45	› Modelling the activity of expert ecyers: "contact" as a manifestation of sensorimotor empathy - <i>Marine Leblanc, Motricité, interactions, performance EA 4334, Université de Nantes</i>	
16:00	› Effect(s) of a motor interface used to navigate a virtual environment on cybersickness, presence and age - <i>Marie-Philippine Séba - Institut des Sciences du Sport-Santé de Paris</i>	
15:00 - 16:30	<b>Physiologie, Biomécanique - Physical activity and ageing</b> (P. Bernard)	Joffre 5
15:00	› Association between habitual physical activity and bone health in very old patients - <i>Anne-Laurence Demoux, Geriatric day hospital for illnesses and falls of the elderly, North Hospital, Marseille</i>	

15:15	› Acute Effects of Whole-Body Vibration on the Postural Organization of Gait Initiation in Young Adults and Elderly: A Randomized Sham Intervention Study - <i>Thomas Vialleron, Complexité, Innovation, Activités Motrices et Sportives, Université Paris-Saclay</i>	
15:30	› Effects of Home-Based Videoconferencing Adapted Physical Activity, Bright Light Exposure and Vestibular Stimulation Programs on Sleep in Older Adults: Study Protocol for a Randomized Controlled Trial - <i>Stéphane Rehel, COMETE UMR-S 1075, Univ Caen</i>	
15:45	› Non-inferiority of a home-based videoconference physical training program in comparison with face to face training in healthy older adults - <i>Antoine Langeard, COMETE UMR-S 1075, Univ Caen</i>	
16:00	› Effect of ergothionein in the prevention of age-related muscle deconditioning - <i>Théo Fovet, Dynamique Musculaire et Métabolisme, INRAe, Univ Montpellier</i>	
16:15	› Complex systems approaches to apprehend the adaptability of human behaviour with a special focus on healthy aging and chronic diseases: a meta-narrative review - <i>Louis Hognon, EuroMov Digital Health in Motion, Univ Montpellier, IMT Mines Ales</i>	
<b>16:30 - 17:30 EXHIBITORS VISIT – REFRESHMENT BREAK</b>		Joffre
<b>16:30 - 17:30 Physiologie, Biomécanique - POSTER SESSION 3</b>		Joffre
92	› Accelerometry-based determination of physical activity level in adults with cystic fibrosis - <i>Benoit Borel, Université de Limoges, Laboratoire HAVAE, EA6310, F-87000 Limoges</i>	
93	› Analysis of the modifications of the different components of eating behavior during acute exposures to cold and heat - <i>Keyne Charlot, Institut de Recherche Biomédicale des Armées, Laboratoire de Biologie de l'exercice pour la Performance et la Santé</i>	
94	› Beneficial effects of a personalized home-based training among patients suffering from the Marfan syndrome - <i>Arroussi Jouini, Institut des Sciences du Sport-Santé de Paris</i>	
95	› Benefits of cardiac telerehabilitation on cardiorespiratory capacities during COVID-19 pandemic in coronary artery disease patients - <i>Marie Fanget, Univ. Lyon, UJM-Saint-Etienne Autonomic Nervous System Research Laboratory, SAINBIOSE INSERM, U1059, Saint-Etienne, France, Department of Clinical and Exercise Physiology, University Hospital Center, Saint-Etienne, France</i>	
96	› Cerebral oxygenation may predict cognitive performance under acute normobaric hypoxia - <i>Eléonore Fresnel, EuroMov Digital Health in Motion, Univ Montpellier, IMT Mines Ales, SAS Semaxone</i>	
97	› Characterization of the combined effects of exercise and immuno-chemotherapy treatments on tumour growth and skeletal muscle in MC38 colorectal cancer mice. - <i>Etienne Gouraud, Inter-university Laboratory of Human Movement Sciences, Université Claude Bernard-Lyon I, France</i>	
98	› Contractile and viscolastic properties of peroneus muscle in athletes with a history of ankle sprain. - <i>Luis Llurda-Almuzara, Actium Anatomy Group, Universitat Internacional de Catalunya</i>	
99	› Effect of COVID-19 lockdown on sleep quality, sleepiness and chronotype in active and non-active French adults. - <i>Julie Larribaut - Unité de recherche Impact de l'Activité Physique sur la Santé (IAPS – UR n°201723207F), Univ Toulon</i>	
100	› Effect of crossfit, Lesmills and resistance trainings on cardio-respiratory, endurance and body composition responses on sedentary subjects - <i>Habil Hamdouni, Institut supérieur du sport et de l'éducation physique de Ksar Said</i>	
101	› Effect of High-Intensity Interval Training and Continuous Endurance Training on Peak Oxygen Uptake Among Seniors Aged 65 or Older: A Meta-Analysis of Randomized Controlled Trials - <i>Walid Bouaziz, French Armed Biomedical Research Institute, Unit of Physiology of Exercise and Activities in Extreme Conditions, Brétigny sur Orge, Univ. Evry, IRBA, Univ. of Paris-Saclay, Evry.</i>	

102	› Effect of movement and music intervention on the behaviors, motor functions and social integration of children with Autism. - <i>Chayma Kanzari, Ben Ayed Karim, High Institute of Sport and Physical Education. Kef. University of Jendouba, El Kef, Tunisia.</i>
103	› Effect of melatonin intake combined with self-paced exercise training during four weeks of intermittent fasting on inflammatory markers and body composition in overweight-obese women - <i>Imen Ben Dhia, Research laboratory of evaluation and management of musculoskeletal system pathologies, LR20ES09 University of Sfax, Sfax Tunisia</i>
104	› Effect of physical activity on glucose uptake by cancerous tumor: the MusculoTEP study - <i>Tristan Martin, Laboratoire Motricité, Interactions, Performance, EA4334, Le Mans Université, Le Mans, France</i>
105	› Effect of the COVID-19 lockdown on physical activity levels and sedentary behaviours: a longitudinal study - <i>Lou Dambel, Impact de l'Activité Physique sur la Santé</i>
106	› Effect of the level of vascular occlusion on muscle oxygenation at rest - <i>Marie Gernigon, Julien Desanlis, Complexité, Innovation, Activités Motrices et Sportives</i>
107	› Effects of capacitive-resistive electric transfer therapy in common regions of lower extremity injury during sports activities: A cadaveric studies. - <i>Jacobo Rodríguez-Sanz, Actium Anatomy Group, Universitat Internacional de Catalunya</i>
108	› Effects of Diacutaneous Fibrolysis on passive neuromuscular response and mechanosensitivity in athletes with hamstring shortening. A randomized within-participant clinical trial - <i>Aida Cadellans-Arroniz, Actium Anatomy Group, Universitat Internacional de Catalunya</i>
109	› Effects of Ramadan intermittent fasting and exercise on body composition, inflammation and hepatic damage in obese Humans - <i>Rami Maaloul, Molecular Bases of Human Pathology, LR19ES13, Faculty of Medicine, University of Sfax, Tunisia</i>
110	› Evolution of muscular oxygenation parameters during walking test in pre-term children - <i>Zoey Owen-Jones, ILFOMER, F-87000 Limoges</i>
111	› Expérience congolaise de la lutte contre le surpoids et l'inactivité physique au cours du confinement Covid-19 - <i>Jean Georges André Moulongo, Université Marien Ngouabi / Institut Supérieur d'Education Physique et Sportive</i>
112	› Four weeks of detraining induced by COVID-19 reverse cardiac adaptations from eight weeks of fitness-Dance training in older adults with mild cognitive impairment – <i>Achraf Amar, Otto-von-Guericke University [Magdeburg], Laboratoire Interdisciplinaire en Neurosciences, Physiologie et psychologie</i>
113	› Gut Microbiota and skeletal muscle cross-talk : lessons from muscle remarkable phenotypes - <i>Maxence Jollet, Dynamique Musculaire et Métabolisme, Univ Montpellier, INRAe</i>
114	› Handgrip strength and 6-min walk test data (6MWT) of patients with chronic hepatitis B (CHB): a case-control study - <i>Jihène Bergaoui, Latiri Imed</i>
115	› Impact of breast cancer chemotherapy on muscle deconditioning and fatigue: the PROTECT-01 cohort study - <i>Allan F. Pagano, Centre d'Enseignement, de Recherche et d'Innovation en Physiologie de l'Exercice (CEERIPE), UR 3072, Centre de Recherche en Biomédecine de Strasbourg (CRBS), Fédération de Médecine Translationnelle</i>
116	› Impact of competition stress on exercise cortisol response and diurnal pattern - <i>Katia Collomp, Laboratoire CIAMS, Département des Analyses, AFLD</i>
117	› Impact of level of physical activity on cortisol awakening response in morbidly obese women - <i>Marine Asselin, Laboratoire CIAMS Université d'Orléans et Paris-Sud</i>
118	› Impact of peripheral artery disease on the risk of carotid plaque instability: effect of physical fitness level. - <i>Emeraude Rivoire, Service de Chirurgie Vasculaire et endovasculaire, Service de Médecine Interne et de Médecine Vasculaire, Laboratoire Interuniversitaire de Biologie de la Motricité</i>

119	› Impact of speed and slope on the Rearfoot / Forefoot profiles - <i>Sylvain Durand, Laboratoire Motricité, Interactions, Performance</i>
120	› Impact of the angular variation of the trunk during a propulsion cycle using inertial measurement units (IMU) - <i>Florian Brassart, Impact de l'Activité Physique sur la Santé, Université de Bordeaux, Laboratoire IMS, UMR 5218, PMH_DySCo, 33607 Pessac.</i>
121	› Inertial Measurement Unit to measure and evaluate work load in gymnastics - <i>Tom Lecocq, Plateforme EPSI</i>
122	› Influence of stroke rate on core stability and rowing ergometer performance - <i>Frederic Simon, Développement, Adaptation et Handicap. Régulations cardio-respiratoires et de la motricité.</i>
123	› Is Blood Flow Restriction Training effective to improve muscle strength and physical performance in older adults? A systematic review and meta-analysis. - <i>Albert Pérez-Bellmunt, Actium Anatomy Group, Universitat Internacional de Catalunya</i>
124	› Mechanical, cardiorespiratory, and muscular oxygenation responses to sprint interval exercises under different hypoxic conditions - <i>Robert Solsona, Université de Perpignan Via Domitia</i>
125	› Preliminary results of the Physical Activity and Carotid Atherosclerotic Plaque hemorrhage (PACAPH) project - <i>Mathilde Mura, Laboratoire Interuniversitaire de Biologie de la Motricité</i>
126	› Reducing thermal perceptual and physiological strains during exercise in a warm ambient temperature improve cognitive performance after physical exercise. - <i>Benoit Dugué, Laboratoire Mobilité, Vieillesse, Exercice, MOVE (EA 6314), Université de Poitiers</i>
127	› Relationship between muscle recruitment and neuromuscular function of the Gluteus Maximus in dynamic knee valgus during un single-legged drop landing in female athletes. - <i>Max Canet, Actium Anatomy Group, Universitat Internacional de Catalunya, Barcelona, Spain.</i>
128	› Relationships between sports club participation and physical fitness and body mass index in childhood – <i>Annie Carton, Université d'Artois - Alexis Barbary, Institut des Rencontres de la Forme, Recherche et développement, Wattignies, Université Rouen Normandie</i>
129	› Reproducibility of the Portamon NIRS device after induced muscle ischemia at rest - <i>Julien Desanlis, Complexité, Innovation, Activités Motrices et Sportives, Université Paris Saclay</i>
130	› Subtyping non-specific low back pain, a protocol presentation - <i>Lucien Robinault, Laboratoire d'Automatique, de Mécanique et d'Informatique industrielles et Humaines - UMR 8201</i>
131	› The Impact of Physical Activity and Musical Therapy on Children with Autism Spectrum Disorder - <i>Sarra Miladi, Laboratoire Interdisciplinaire en Neurosciences, Physiologie et Psychologie : Activité Physique, Santé et Apprentissages (LINP2), UPL, Université Paris Nanterre, Nanterre</i>
132	› The influences of sports club participation and the type of sport on components of physical fitness and corpulence in adolescents and young adults - <i>Alexis Barbary, Institut des Rencontres de la Forme, Université Rouen Normandie (Centre d'étude des Transformations des APS)</i>
<b>16:30 - 17:30 Sc. et Tech. du Numérique - POSTER SESSION 3</b>	
	Joffre
133	› Adhesion to zoom classes and effects associated with physical activity of senior women in the Covid-19 pandemic - <i>Lucia Stefanelli, Dpt.Physical Education and Health Magister, Universidad de la República de Uruguay</i>
134	› Beating Roger Federer: Ball's trajectory production using a bio-inspired solution - <i>Guillaume Debat, Centre de recherche cerveau et cognition - Robin Baurès, Centre de recherche cerveau et cognition</i>
135	› Daily life monitoring post stroke: accelerometric references in healthy – <i>Alice Bourdon, EuroMov Digital Health in Motion, Univ Montpellier, IMT Mines Ales</i>

136	› Design and methods of the COMON Project: how to promote physical activity and cognitive stimulation through numerical support in Huntington's disease? - <i>Julien Godard, Laboratoire Motricité, Interactions, Performance, MIP – Université de Nantes</i>	
137	› Effect of using modern technology on developing the mental perception of the tactical aspect of football players Case study of the Olympic Association of Chlef Team - <i>Tayeb Djelti, Université de Hassiba bouali, Chlef</i>	
138	› Lasso machine learning method discriminates emotional movements - <i>Andrii Smykovskyi, EuroMov Digital Health in Motion, Univ Montpellier, IMT Mines Ales</i>	
139	› Self-autonomous evaluation station and tailored training algorithm to improve quality of life and physical capacities in sedentary adults. - <i>Yann Le Mat, Laboratoire Interuniversitaire de Biologie de la Motricité, Université Claude Bernard Lyon 1</i>	
17:30 - 19:00	<b>Symposium Motor imagery training in an ecological and applied context: contributions of new technologies</b> (A. Guillot and N. Robin)	Auditorium Pasteur
17:30	› Can motor imagery compensate the fatigue induced by neuromuscular electrical stimulation? - <i>Pauline Eon, EA4660-C3S Laboratory -Culture, Sport, Health and Society, Université Bourgogne Franche-Comté, 25000 Besançon</i>	
17:45	› Motor simulation and muscle strength development: characterization of corticomotor plasticity induced by motor imagery - <i>Typhanie Dos Anjos, Centre de Recherche et d'Innovation sur le Sport (EA647), Université Claude Bernard - Lyon I</i>	
18:00	› Influence of time-of-day on acquisition and consolidation processes following physical and mental practices - <i>Célia Ruffino, INSERM UMR1093-CAPS, INSERM UMR1093-CAPS, Université Bourgogne Franche-Comté, UFR des Sciences du Sport, F-21000, Dijon</i>	
18:15	› Beneficial effect of a combination of feedback, video observation and motor imagery on the performance of the swimming dive start - <i>Nicolas Robin - Université des Antilles (Pôle Guadeloupe)</i>	
18:30	› Identification of EEG markers that reflect expertise in attentional focus and motor imagery: Heading for neurofeedback procedures to improve sport performance - <i>David Trocellier, Institut de Neurosciences cognitives et intégratives d'Aquitaine, Université de Bordeaux</i>	
17:30 - 19:00	<b>Biomécanique - Neuromuscular fatigue</b> (C. Cornu)	Joffre 5
17:30	› Relationship between force and electromyographic signals complexity during a fatiguing task - <i>Cyril Chatain, Impact de l'activité Physique sur la Santé, Université de Toulon</i>	
17:45	› Fatigability of plantar flexors following continuous and intermittent contractions - <i>Loïc Lebesque, INSERM UMR1093-CAPS, Université de Bourgogne Franche-Comté, UFR des Sciences du Sport, F-21000 Dijon, France</i>	
18:00	› Characterization of hamstrings neuromuscular fatigue and critical torque in comparison to quadriceps muscles – <i>Ansthas Massamba, Recherche &amp; Développement, CEERIPE - Faculté des Sciences du Sport, Mitochondrie, stress oxydant et protection musculaire, université de Strasbourg</i>	
18:15	› Neuromuscular fatigability during repeated sprints assessed with an innovative ergometer. - <i>Hervé Di Domenico, Inter-university Laboratory of Human Movement Sciences, Université Savoie Mont Blanc</i>	
18:30	› Effects of age on neuromuscular fatigue: comparison between isometric, dynamic and cycling tasks - <i>Giorgio Varesco, Laboratoire Interuniversitaire de Biologie de la Motricité, Université Jean Monnet, St Etienne</i>	
18:45	› Does exercise modality affect the differences in time to task failure and fatigability between children and young adults? A systematic review and meta-analysis. - <i>Robin Souron - Laboratoire IAPS, Univ Toulon</i>	



17:30 - 19:00	<b>Neurosciences - Central nervous system and posture</b> (L. Mouchnino)	Barthez
17:30	› An electroencephalographic (EEG) study of attention allocation during dual task treadmill walking in young adults and children. - <i>Delphine Fauvel, Techniques de l'Ingénierie Médicale et de la Complexité - Informatique, Mathématiques et Applications, Grenoble - UMR 5525</i>	
17:45	› When mechanical engineering inspired from physiology improves postural-related somatosensory processes while standing on a moving surface - <i>Chloe Sutter, Laboratoire de neurosciences cognitives, Aix-Marseille Université</i>	
18:00	› Natural human postural oscillations enhance early and late ERPs associated with empathy for pain. - <i>Thomas Trejal, Complexité, Innovation, Activités Motrices et Sportives, Paris Saclay</i>	
18:15	› The cerebral bases of street crossing decision - <i>Robin Baurès, Centre de recherche cerveau et cognition, Toulouse</i>	
18:30	› Effects of Motor Speed on Frontal-Hemodynamic Responses in Whole-Body Movements - <i>Ségolène M. R. Guérin, Univ. Lille, UMR 9193 - SCALab - Sciences Cognitives et Sciences Affectives, Lille, France</i>	
18:45	› Does virtual reality fool our brain only? Spinal excitability changes during a virtually simulated falling - <i>Sidney Grospretre, EA4660-C3S Laboratory -Culture, Sport, Health and Society, Université Bourgogne Franche-Comté, Besançon</i>	
17:30 - 19:00	<b>Contrôle moteur - Motor control and expertise</b> (G. Montagne)	Sully 1
17:30	› Adaptive processes applied to whole-body reaching movements in changing gravitational force fields. - <i>Loïc Chomienne, Aix Marseille Université</i>	
17:45	› The haptic channel conjecture in physical interactions: A proof using tasks asymmetry and Granger – Geweke causality - <i>Clémentine Colomer, EuroMov Digital Health in Motion, Univ Montpellier, IMT Mines Ales</i>	
18:00	› Hearing differently after vertical prism adaptation - <i>Clémence Bonnet, INSERM UMR1093-CAPS, Université Bourgogne Franche-Comté, UFR des Sciences du Sport, Dijon</i>	
18:15	› Optimal speed/accuracy in the tennis serve and golf swing - <i>Nicolas Benguigui, Centre d'Etude Sport et Actions motrices (CesamS - EA 4260)</i>	
18:30	› Joint-specificity and lateralization of upper-limb proprioceptive perception - <i>Najib Abi Chebel, Institut des Sciences du Mouvement Etienne Jules Marey, Aix-Marseille Université</i>	
18:45	› Benefits of observing point-light displays in postoperative rehabilitation of the total knee prosthesis. - <i>Christel Bidet-Ildes, Centre de Recherches sur la Cognition et l'Apprentissage, Toulouse</i>	
17:30 - 19:00	<b>Physiologie - Physical activity and obesity</b> (N. Boisseau)	Sully 2
17:30	› HIITing the brain in individuals with obesity: influence on cerebral oxygenation and affective valence during exercise - <i>Mathieu Marillier, Univ. Grenoble Alpes, Inserm, CHU Grenoble Alpes, HP2, 38000 Grenoble, France</i>	
17:45	› Beneficial effects of HIIT and/or linseed oil supplementation to limit obesity-induced oxidative stress - <i>Carole Groussard, Univ-Rennes, Laboratoire M2S, - EA7470, F-35000 Rennes, France</i>	

18:00 › The occurrence of breakpoint in calf muscles deoxy[heme] is related to the duration of an incremental treadmill walk test in children with obesity - *Louis Toulouse, Unité de Recherche Pluridisciplinaire Sport, Santé, Société (URePSSS), Univ Lille.*

18:15 › Effect of bariatric surgery on cardiorespiratory fitness in morbidly obese women - *Nancy Vibarel-Rebot, Laboratoire CIAMS*

18:30 › Effects of different aerobic training modalities on peptide myokines levels in obese children - *Rahman Soori, Professor, Department of Exercise Physiology, Faculty of Physical Education and Sport Sciences, University of Tehran, Tehran, Iran*

17:30 - 19:00 **Physiologie - Exercise and cardiovascular system** (P. Mucci) Sully 3

17:30 › Cardiopulmonary exercise testing combined with echocardiography and response after a cardiac rehabilitation program in chronic heart failure patients - *Marine Kirsch, Institut des Sciences du Sport-Santé de Paris*

17:45 › Physical activity and thromboembolic risks: role of monocytic tissue factor in patient with carotid atherosclerosis plaque. - *Laurie Josset, Laboratoire Interuniversitaire de Biologie de la Motricité, Université Claude Bernard Lyon 1*

18:00 › Long-duration exercise induced cardiac fatigue in trained adolescents assessed by left ventricular strains and myocardial work - *Anthony Birat, Université Clermont Auvergne, Fédération Française de Triathlon*

18:15 › Induced contraction of hindlimbs is associated with a cardiac output-dependent increase in cerebral blood flow. A rat study. - *Rémi Chaney, INSERM UMR1093-CAPS, Université Bourgogne Franche-Comté, UFR des Sciences du Sport, F-21000, Dijon*

18:30 › Objective definition of athlete's heart - *Vincent Menard, Laboratoire Mouvement Sport Santé, Univ Rennes 2*

18:45 › Impact of acute partial-body cryostimulation on cognitive performance, cerebral oxygenation, and cardiac autonomic activity - *Dimitri Theurot, Laboratoire "Mobilité, Vieillesse, Exercice" (MOVE), Univ Poitiers*

19:15 - 19:35

**CLOSING REMARKS**

Auditorium  
Pasteur

20:00 - 23:55 **Gala de clôture – Young Investigator Awards**  
[www.gazettecafe.com](http://www.gazettecafe.com)

La Gazette  
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LE GAZETTE CAFÉ



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# Événements - Events

**Mercredi 27 Octobre - 19 h 15**



Cet évènement, réservé aux professionnels du numérique et de l'activité physique sera l'occasion unique d'échanger et de créer des synergies recherche-entreprise autour de projets innovants dans l'écosystème Sport-Technologie-Usages en plein essor. Des opportunités nouvelles à créer dans le domaine de l'activité physique et sportive. Cette soirée a pour but de faire se rencontrer les acteurs de l'ingénierie, de l'innovation technologique et de l'industrie issus d'incubateurs, d'entreprises jeunes

## SOIREE NETWORKING

ou implantées, et les acteurs de la recherche en sciences du sport. L'ambition de cette soirée est de susciter des opportunités nouvelles dans une perspective de mise sur le marché de nouveaux produits et services du numérique liés aux APS, ou bien d'ouverture de nouveaux marchés.

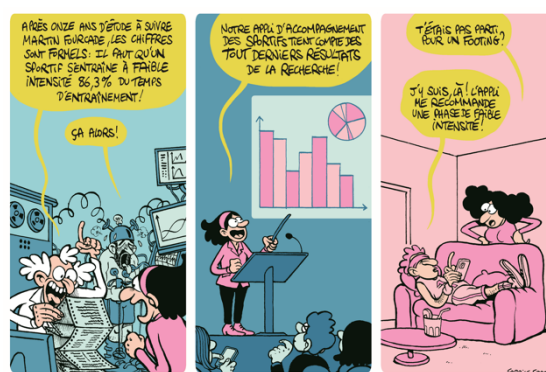


Illustration d'une collaboration chercheurs-entreprises.

**Judi 28 Octobre - 19 h 15**

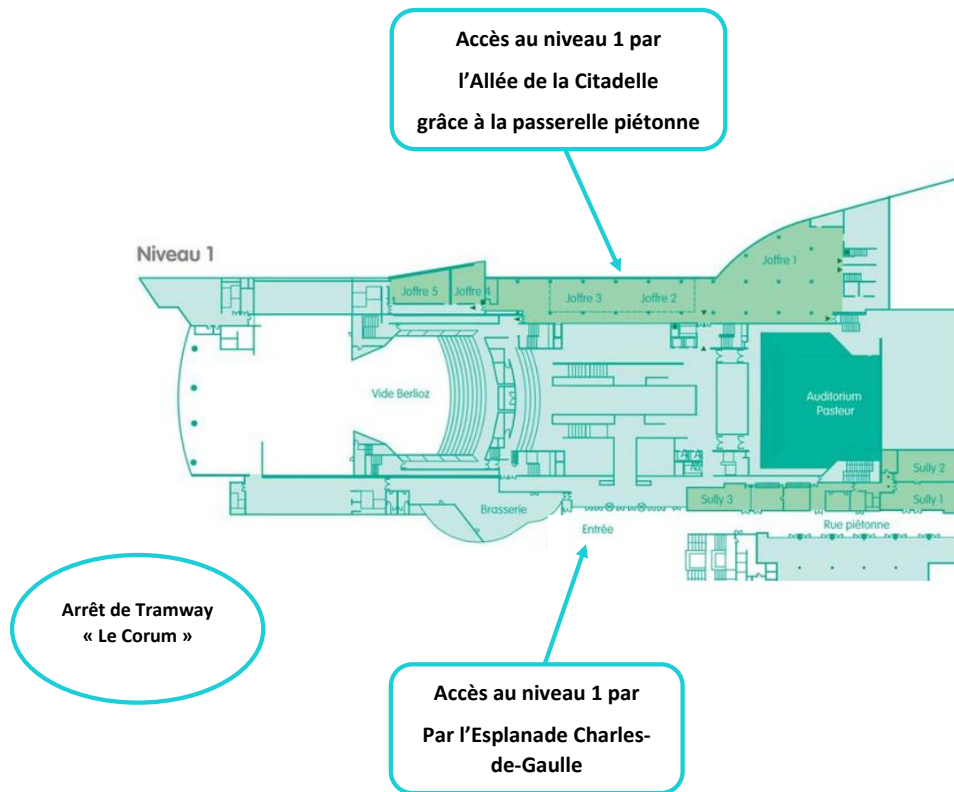


Une conférence, ouverte au public, est organisée en marge du 19ème congrès de l'ACAPS à Montpellier sur le thème de l'activité physique, de la santé et des mobilités douces.

## SOIREE GRAND PUBLIC

A l'occasion de la conférence introductive par Mme Sonia Lavadinho, anthropologue urbaine et spécialiste des mobilités douces (Lausanne, Suisse), plusieurs grands témoins interviendront, tels que M. Jean-Luc Savy (Métropole), mais aussi des représentants de la Mutuelle Générale de l'Éducation Nationale, Mme Virginie Femery (VivOptim solution) ainsi que de la Banque Populaire du Sud, M. Sébastien Baggio (app. United Heroes). La conférence se déroulera autour de 3 thématiques : l'activité physique dans la **ville**, au **travail** et son impact sur la **santé**. Elle sera animée par M. Hubert Vialatte.

# Plan des Espaces et Accès



# Remerciements - Acknowledgments

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Le comité d'organisation de la 19<sup>ème</sup> édition du congrès international de l'ACAPS tient à remercier chaleureusement :

- Les cinq conférenciers invités, les communicants et l'ensemble des participants.
- Les membres du Conseil d'Administration de l'ACAPS et son Président.
- Les membres du comité scientifique et du comité d'organisation.
- Les collègues qui ont accepté d'expertiser les résumés soumis, de modérer les présentations orales et les sessions de poster et qui ont participé à l'évaluation des prix Jeunes chercheurs.
- Les unités de recherche EuroMov Digital Health in Motion (Univ Montpellier, IMT Mines Ales) et Dynamique Musculaire et Métabolisme (Univ Montpellier, INRAe) pour leur soutien et aide.
- Les équipes administratives et techniques de l'UFR STAPS de Montpellier pour leur investissement et aide, avec un remerciement particulier adressé au service financier de la composante (Mme Nicole Bousquet et Mme Nathalie Rouquette) et au service communication (M. Olivier Roux)
- Les enseignants, enseignant-chercheurs, doctorants et étudiants pour leur aide dans la préparation et la gestion du congrès.
- Les services techniques et de communication de l'Université de Montpellier, et tout particulièrement à Mme Eléonore Avenet et M. Patrick Paris.
- Les exposants présents à cette édition du congrès de l'ACAPS : AD Instruments, Biometrics, Kistler, BeatHealth, Trinoma et associés, UNESS.FR, K-Invent, SeeNel Imaging, Seenovate, Cosmed, Actigraph et MTraining.
- Les partenaires : La Mêlée, La French Tech Méditerranée, Décathlon Odysseum, Banque Populaire du Sud, la MGEN, la MAIF, le GDR CNRS Sport et Activité Physique et l'EUR DigiSport.
- Les partenaires institutionnels : Université de Montpellier, IMT Mines Alès, I-Site MUSE, la Région Occitanie Pyrénées-Méditerranée (et AD'OCC Sport), la Métropole Montpellier Méditerranée (et le BIC), le Conseil Général de l'Hérault, Hérault Sport et le CREPS de Montpellier.
- Les différents acteurs de la soirée Networking avec en particulier Mme Nadège Esteban, M. Nicolas Forestier, M. Laurent Schmitt et M. Nicolas Bourdillon.
- M. Fabrice Erre pour avoir croqué la soirée Networking
- Les intervenants de la soirée Grand Public avec en particulier Mme Sonia Lavadinho, M. Jean-Luc Savy, Mme Virginie Femery, M. Sébastien Baggio et M. Hubert Vialatte.





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5	Conférences plénières
10	Symposia thématiques
232	Communications orales
139	Posters
1	Forum Jeunes Chercheurs
1	Soirée Networking
1	Soirée Grand Public

# Partenaires - Partners



# Exposants - Exhibitors

