

Publications 2017-2012

1. Hogrel J-Y, Payan C, Ollivier G, Tanant V, Attarian S, Couillandre A, Dupeyron A, Lacomblez L, Meininger V, Tranchant C, Pouget J, Desnuelle C (2007) Development of a French Isometric Strength Normative Database for Adults by Use of Quantified Muscle Testing (QMT). *Arch Phys Med Rehabil.* 88: 1289-97.
2. Couillandre A, Duque Ribeiro M, Thoumie P, Portero P (2008) Changes in balance and strength parameters induced by training on a motorised rotating platform: A study on healthy subjects. *Ann Readapt Med Phys.* 51 (2): 59-73.
3. Couillandre A, Duque Ribeiro M, Thoumie P, Portero P (2008) Modification des paramètres d'équilibration et de force associés au reconditionnement sur plateforme motorisée de rééducation : étude chez le sujet sain. *Ann Readapt Med Phys.* 51: 59-73.
4. Couillandre A, Lewton Brain P, Portero P (2008) Exploring the effects of kinesiological awareness and mental imagery on movement intention in the performance of demi-plié. *Journal of Dance Medicine & Science.* 12 (3) : 91-98.
5. Vinti M, Couillandre A, Thoumie P (2010) Does somatosensory loss induce adaptation of the gait initiation process? *Neurosci Lett.* 480(3): 178-81.
6. Vinti M, Couillandre A, Hausselle J, Bayle N, Merlo A, Hutin E, Gracies J.M (2012) Influence of Effort Intensity and Gastrocnemius Stretch on cocontraction and Torque Production in the Healthy and Paretic Ankle. *Clinical Neurophysiology* 2012 Oct 10. doi:pii: S1388-2457(12)00579-2.
7. Liacu D, Idy-Peretti I, Ducreux D, Bouilleret V, de Marco G. Quantitative fiber tracking findings in cingulum fibers of patients with temporal lobe epilepsy. *J Magn Reson Imaging.* 2012 Sep;36(3):561-8 (IF 2.747)
8. Costalat R, Francoise JP, Menuel C, Lahutte M, Vallée JN, de Marco G, Chiras J, Guillevin R. Mathematical modeling of metabolism and hemodynamics. *Acta Biotheor.* 2012 Jun;60(1-2):99-107. (IF 1.468)
9. Lehmann P, Saliou G, de Marco G, Monet P, Souraya SE, Bruniau A, Vallée JN, Ducreux D. Cerebral peritumoral oedema study: Does a single dynamic MR sequence assessing perfusion and permeability can help to differentiate glioblastoma from metastasis? *Eur J Radiol.* 2012 Mar;81(3):522-7. (IF 2.606)
10. Destrieux C, Hommet C, Domengie F, Boissy JM, de Marco G, Joannette Y, Andersson F, Cottier JP. Influence of age on the dynamics of fMRI activations during a semantic fluency task. *J Neuroradiol.* 2012 Jul;39(3):158-66. (IF 1.213)
11. Guillevin R, Menuel C, Vallée JN, Françoise JP, Capelle L, Habas C, de Marco G, Chiras J, Costalat R. Mathematical modeling of energy metabolism and hemodynamics of WHO grade II gliomas using in vivo MR data. *C R Biol.* 2011 Jan;334(1):31-8 (IF 1.53)
12. Guillevin R, Menuel C, Taillibert S, Capelle L, Costalat R, Abud L, Habas C, de Marco G, Hoang-Xuan K, Chiras J, Vallée JN. Predicting the outcome of grade II glioma treated with temozolomide using proton magnetic resonance spectroscopy. *Br J Cancer.* 2011 Jun 7;104(12):1854-61. (IF 4.346)
13. de Marco G. Effective connectivity and brain modeling by FMRI. *Advanced Studies in Biology*, Vol. 1, 2009, no. 3, 139 – 144 (IF 0.207)
14. D Liacu, G de Marco, D Ducreux, Viviane Bouilleret, Pascal Masnou, Ilana Peretti. Diffusion tensor changes in epileptogenic hippocampus of TLE patients. *Neurophysiol Clin.* 2010 Jun;40(3):151-7. (IF 2.00)
15. de Marco G and A Le Pellec. Modeling of circuits within networks by fMRI. *Wireless Sensor Network*, 2010, 2, 208-217 (IF 1.41)

16. de Marco G, Vrignaud P, Destrieux C, de Marco D, Devauchelle B, Berquin P. Principle of Structural Equation Modeling for Exploring Functional Interactivity within a Putative Network of Interconnected Brain Areas. *Magn Reson Imaging* 2009 Jan; 27(1):1-12. (IF 2.042)
17. Lehmann P., Monet P., de Marco G., Saliou G., Perrin M., Stoquart-Elsankari S., Bruniau A., Vallée JN. A Comparative Study of Perfusion Measurement in Brain Tumours at 3 Tesla MR: Arterial Spin Labeling versus Dynamic Susceptibility Contrast Enhanced MRI. *Eur J Neurol*. 2010;64(1):21-6. (IF 3.692)
18. Périn B, Godefroy O, Fall S, de Marco G. Exploration of an attentional network in the right hemisphere: an fMRI study of brain interactivity enhanced during phasic alertness. *Brain Cogn*. 2010 Mar;72(2):271-81 (IF 3.00)
19. Lehmann P, Vallée JN, Saliou G, Fichten A, Monet P and de Marco G. Dynamic contrast-enhanced T2*-weighted Mr imaging : a peritumoral brain oedema study. *J Neuroradiol*. 2009 May; 36(2):88-92. (IF 1.213)
20. de Marco G, Devauchelle B, Berquin P. Brain functional modeling, what do we measure with fMRI data? *Neurosci Res*. 2009 May;64(1):12-9. (IF 2.250)
21. Querne L, Berquin P, Vernier MP, Fall S, Deltour L, de Marco G. Dysfunction of the attentional brain network in children with Developmental Coordination Disorder: a fMRI study. *Brain Research*, 2008, 1244, 89-102. (IF 2.728)
22. Genolini C, Pingault JB, Driss T, Côté S, Tremblay RE, Vitaro F, Arnaud C, Falissard B. KmL3D: A non-parametric algorithm for clustering joint trajectories. *Comput Methods Programs Biomed*. 2012. doi:pii: S0169-2607(12)00213-1. 10.1016/j.cmpb.2012.08.016. (IF 1.56)
23. Driss T, Lambertz D, Rouis M, Vandewalle H. Influence of musculo-tendinous stiffness of the plantar ankle flexor muscles upon maximal power output on a cycle ergometer. *Eur J Appl Physiol*. 112(11):3721-8. DOI 10.1007/s00421-012-2353-5 (IF 2.214)
24. Serrau V, Driss T, Vandewalle H, Behm DG, Lesne-Chabran E, Le Pellec-Muller A. Muscle activation of the elbow flexor and extensor muscles during self-resistance exercises: comparison of unilateral maximal co-contraction and bilateral self-resistance. *J Strength Cond Res*. 2012 26: 2468-77. (IF 1.848)
25. Chtourou H, Driss T, Souissi S, Gam A, Chaouachi A, Souissi N. The Effect of Strength Training at the Same Time of the Day on the Diurnal Fluctuations of Muscular Anaerobic Performances. *J Strength Cond Res*. 2012. 26: 217-25. (IF 1.848)
26. Chtourou H, Chaouachi A, Driss T, Dogui M, Behm DG, Chamari K, Souissi N. The Effect of Training at the Same Time of Day and Tapering Period on the Diurnal Variation of Short Exercise performances. *J Strength Cond Res*. 2012. 26: 697-708. (IF 1.848)
27. Souissi N, Driss T, Chamari K, Vandewalle H, Davenne D, Gam A, Fillard JR, Jousselin E. Diurnal variation in Wingate test performances: influence of active warm-up. *Chronobiol Int*. 2010; 27: 640-52. (IF 5.766)
28. Lang, A. ,Gapenne, O., Aubert, D., Ferrel-Chapus, C. (On line Publication). "Implicit" sequence learning in a continuous pursuit-tracking task. *Psychological Research*, doi: 10.1007/s00426-012-0460-x. (IF 2.47).
29. Tahej, P-K., Ferrel-Chapus, C., ,Olivier, I., Ginhac, D. & Rolland, J-P. (2012). Multiple representations and mechanisms for visuomotor adaptation in young children. *Human Movement Science*, 31, 1425–1435, <http://dx.doi.org/10.1016/j.humov.2012.02.016>. (IF 1.775)
30. Ferrel-Chapus, C. & Tahej, P-K. (2010). Processus attentionnels et apprentissage moteur. *Science & Motricité*, 71, 71–83. DOI: 10.1051/sm/2009006.

31. G  lat T., Coudrat L., Le Pellec., A (2011). Gait initiation is affected during emotional conflict. *Neuroscience Letters* 497 (1), 64-67
32. G  lat T., Le Pellec., A (2007). Why anticipatory postural adjustments in gait initiation need to be modified when stepping up onto a new level? *Neuroscience Letters* 429, 17-21
33. Longuet, S., Ferrel-Chapus, C., Or  ve, M-J., Chamot, J-M & Vernazza-Martin, S. (2012). Emotion, Intent and Voluntary Movement in Children with Autism. An Example: The Goal Directed Locomotion. *Journal of Autism and Developmental Disorders*,42(7), 1446-1458. DOI: 10.1007/s10803-011-1383. (IF: 3.341)
34. Vernazza-Martin S; Tricon, V; Martin, N; Mesure, S; Azulay JP; Le Pellec-Muller, A. Effect of aging on the coordination between equilibrium and movement: what is changed? *Exp Brain Res.* (2008) Mar 18. (IF: 2.296)
35. Tricon V, Le Pellec-Muller A, Martin N, Mesure S, Azulay P, Vernazza-Martin S. (2007) Balance control and adaptation of Kinematic synergy in aging adults during forward trunk bending. *Neurosci Lett.* Mar 19; 415(1):81-6, 2007 (Impact factor: 2.180)
36. Petitjean M, Ko JY. An age-related change in the ipsilateral silent period of a small hand muscle. *Clin Neurophysiol.* 2012 Aug 7. (IF 3,406)
37. David P, Laval D, Terrien J, Petitjean M. Postural control and ventilatory drive during voluntary hyperventilation and carbon dioxide rebreathing. *Eur J Appl Physiol.* 2012 Jan;112(1):145-54(IF 2,147)
38. David P, Mora I, Terrien J, Lelard T, Petitjean M. Leg muscles activities during hyperventilation following a cycling exercise. *Electromyogr Clin Neurophysiol.* 2010 Jan-Feb;50(1):39-45 (IF 2,91)
39. Lapole T, Deroussen F, P  rot C, Petitjean M. Acute effects of Achilles tendon vibration on soleus and tibialis anterior spinal and cortical excitability. *Appl Physiol Nutr Metab.* 2012 Aug;37(4):657-63. (IF 2,131)
40. Girard O., Millet G., Slawinski J., Racinais S., Micallef J. P. Changes in running mechanics and spring-mass behavior during a 5-km time trial. *Accept   dans Int. J. Sports Med.* 2012. (IF 2,4)
41. Slawinski J., Dumas R., Ontanon G., Miller C., Ch  ze L., Bonnefoy A. Changes in 3D joint angular velocity with different initial posture during starting block phase. *Accept   dans J Sports Sci.* 2012. Doi 10.1080/02640414.2012.729076 (IF 1,9)
42. Slawinski J., Dumas R, Ontanon G., Miller C., Ch  ze L., Bonnefoy A. 3D kinematic of bunched, medium and elongated sprint start. *Int. J Sports Med.* 2012; 33: 555-560. (IF 2,4)
43. Lepr  tre P. M., Weissland T., Slawinski J., Lopes P. Para-Cycling Performance was Rather Limited by Physiological than Functional Factors. *Front Physiol.* 2012; 3: 327. (IF 2.3)
44. Fr  re J., G  pfert B., Slawinski J., Tourny-Chollet C. Shoulder muscles recruitment during a power backward giant swing on high bar: a wavelet-EMG- analysis approach. *Human Movement Science.* 2012; 22: 207-214. (IF 1,8) (IF 2.0)
45. Fr  re J., G  pfert B., Hug F., Slawinski J., Tourny-Chollet C. Catapult effect in pole vaulting: an electromyographic approach. *Journal of Electromyography and Kinesiology.* 2012; 22: 145-52. (IF 2.0) (IF 2.4)
46. Fr  re J., G  pfert B., Hug F., Slawinski J., Tourny-Chollet C. Effect of the upper limbs muscles activity on the mechanical energy gain in pole vaulting. *Journal of Electromyography and Kinesiology,* 2012; 22: 207-14. (IF 2.0) (IF 2.4)

47. Rabita G., Slawinski J., Girard O., Bignet F., Hausswirth C. Spring-mass behavior during exhaustive run at constant velocity in elite triathletes. *Med Sports Sci Exerc.* 2011; 43: 685-692. (IF 4.4)
48. Frère J., L'Hermette M., Slawinski J., & Tourny-Chollet C. Influence of the scale function on the wavelets transformation of the surface electromyographic signal. *Comput Methods Biomech Biomed Engin.* 2011; 15: 111-20. (IF 1.17)
49. Slawinski J., Bonnefoy A., Ontanon G., Leveque JM, Miller C., Chèze L., Dumas R. Segment-interaction in sprint start: analysis of 3D angular velocity and kinetic energy in elite sprinters. *J Biomech*, 2010 ; 43: 1494-1502. (IF 2.4) (IF 2.5)
50. Bonnefoy-Mazure A., Slawinski J., Riquet A., Lévèque J.-M., Miller C., Chèze L. Rotation sequence is an important factor in shoulder kinematics. Application to the elite players flat serves. *J Biomech.* 2010 ; 43 : 2022-2025. (IF 2.4) (IF 2.5)
51. Frère J., L'Hermette M., Slawinski J., Tourny-Chollet C. Mechanics of Pole vaulting: a review. *Sports Biomechanics*, 2010; 9:123-38. (IF 0,93)
52. Girard O., Millet G., Slawinski J., Racinais S. , Micallef J.-P. Changes in leg-spring behavior during a 5000m self-paced run in differently trained athletes. *Sciences et Sports*, 2010; 25: 99-102. (IF 0,47)
53. Slawinski J., Bonnefoy A., Leveque JM., Ontanon G., Riquet A., Dumas R., Chèze L. Kinematic and kinetic comparison of elite and well-trained sprinter during sprint start. *Journal of strength conditioning Research*, 2010; 24 : 896-905. (IF 1,8)
54. Cottin F, Metayer N, Goachet AG, Julliand V, Slawinski J, Billat V, Barrey E. Oxygen consumption and gait variables of Arabian endurance horses measured during a field exercise test. *Equine Vet J.* 2010 ; 42 38 : 1-5. (IF 1,4)
55. Nantel J., Termoz N., Ganapathi M., Vendittoli P.A., Lavigne M., Prince F. (2009) Postural balance during quiet standing in patients with total hip arthroplasty with large diameter femoral head and surface replacement arthroplasty. *Archives of Physical Medicine and Rehabilitation*;90(9):1607-12. IF: 2.254
56. Nantel J., Termoz N., Vendittoli P.A., Lavigne M., Prince F. (2009) Gait patterns after total hip arthroplasty and surface replacement arthroplasty. *Archives of Physical Medicine and Rehabilitation*; 90(3):463-469. IF: 2.254
57. Nantel J., Termoz N., Centomo H., Lavigne M., Vendittoli P.A., Prince F. (2008) Postural balance during quiet standing in patients with total hip arthroplasty and surface replacement arthroplasty. *Clinical Biomechanics*; 23(4):402-7. IF: 2.036
58. Termoz N., Halliday S.E., Winter D.A, Frank J.S., Patla A.E., Prince F.(2008) The control of upright stance in young, elderly and Parkinson's disease subjects. *Gait and Posture* 27(3):463-70. IF: 2.313.