

Francesco Lacquaniti Pubblicazioni ultimi 5 anni:

1. Daprati E, Wriessnegger S, Lacquaniti F. (2007) Knowledge of one's kinematics improves perceptual discrimination. **Conscious Cogn.** 16:178-88.
2. Daprati E, Wriessnegger S, Lacquaniti F. (2007) Kinematic cues and recognition of self-generated actions. **Exp Brain Res.** 177:31-44.
3. Dominici N, Ivanenko YP, Lacquaniti F. (2007) Control of foot trajectory in walking toddlers: adaptation to load changes. **J Neurophysiol.** 97:2790-801.
4. Ivanenko YP, Dominici N, Lacquaniti F. (2007) Development of independent walking in toddlers. **Exerc Sport Sci Rev.** 35:67-73.
5. Scivoletto G, Ivanenko Y, Morganti B, Grasso R, Zago M, Lacquaniti F, Ditunno J, Molinari M. (2007) Plasticity of spinal centers in spinal cord injury patients: new concepts for gait evaluation and training. **Neurorehabil Neural Repair.** 21:358-65.
6. Ivanenko YP, Cappellini G, Dominici N, Poppele RE, Lacquaniti F. (2007) Modular control of limb movements during human locomotion. **J Neurosci.** 27:11149-61.
7. Miller WL, Maffei V, Bosco G, Iosa M, Zago M, Macaluso E, Lacquaniti F. (2008) Vestibular nuclei and cerebellum put visual gravitational motion in context. **J Neurophysiol.** 99:1969-82.
8. Ivanenko YP, d'Avella A, Poppele RE, Lacquaniti F. (2008) On the origin of planar covariation of elevation angles during human locomotion. **J Neurophysiol.** 99:1890-8.
9. Zago M, McIntyre J, Senot P, Lacquaniti F. (2008) Internal models and prediction of visual gravitational motion. **Vision Res.** 48:1532-8.
10. d'Avella A, Fernandez L, Portone A, Lacquaniti F. (2008) Modulation of phasic and tonic muscle synergies with reaching direction and speed. **J Neurophysiol.** 100:1433-54.
11. Ivanenko YP, Cappellini G, Poppele RE, Lacquaniti F. (2008) Spatiotemporal organization of alpha-motoneuron activity in the human spinal cord during different gaits and gait transitions. **Eur J Neurosci.** 27:3351-68.
12. Bosco G, Carrozzo M, Lacquaniti F. (2008) Contributions of the human temporoparietal junction and MT/V5+ to the timing of interception revealed by transcranial magnetic stimulation. **J Neurosci.** 28:12071-84.
13. Zago M, McIntyre J, Senot P, Lacquaniti F. (2009) Visuo-motor coordination and internal models for object interception. **Exp Brain Res.** 192:571-604.
14. Ivanenko YP, Poppele RE, Lacquaniti F. (2009) Distributed neural networks for controlling human locomotion: lessons from normal and SCI subjects. **Brain Res Bull.** 78:13-21.
15. Dominici N, Daprati E, Nico D, Cappellini G, Ivanenko YP, Lacquaniti F. (2009) Changes in the limb kinematics and walking distance estimation after shank elongation. Evidence for a locomotor body schema? **J Neurophysiol.** 101:1419-29.
16. Daprati E, Nico D, Duval S, Lacquaniti F. (2010) Different motor imagery modes following brain damage. **Cortex.** 46:1016-30.
17. Maffei V, Macaluso E, Indovina I, Orban G, Lacquaniti F. (2010) Processing of targets in smooth or apparent motion along the vertical in the human brain: an fMRI study. **J Neurophysiol.** 103:360-70.
18. Cappellini G, Ivanenko YP, Dominici N, Poppele RE, Lacquaniti F. (2010) Motor patterns during walking on a slippery walkway. **J Neurophysiol.** 103:746-60.

19. Goodale MA, Lacquaniti F, Marzi CA. (2010) Behavioural sciences and neuropsychology. **Exp Brain Res.** 200:1-2.
20. Zago M, Iosa M, Maffei V, Lacquaniti F. (2010) Extrapolation of vertical target motion through a brief visual occlusion. **Exp Brain Res.** 201:365-84.
21. Dominici N, Ivanenko YP, Cappellini G, Zampagni ML, Lacquaniti F. (2010) Kinematic strategies in newly walking toddlers stepping over different support surfaces. **J Neurophysiol.** 103:1673-84
22. Logan D, Kiemel T, Dominici N, Cappellini G, Ivanenko Y, Lacquaniti F, Jeka JJ. (2010) The many roles of vision during walking. **Exp Brain Res.** 206:337-50.
23. Cappellini G, Ivanenko YP, Dominici N, Poppele RE, Lacquaniti F. (2010) Migration of motor pool activity in the spinal cord reflects body mechanics in human locomotion. **J Neurophysiol.** 104:3064-73.
24. Carrozzo M, Moscatelli A, Lacquaniti F. (2011) Tempo rubato: animacy speeds up time in the brain. **PLoS One.** 5(12):e15638.
25. Gravano S, Ivanenko YP, Maccioni G, Macellari V, Poppele RE, Lacquaniti F. (2011) A novel approach to mechanical foot stimulation during human locomotion under body weight support. **Hum Mov Sci.** 30:352-67.
26. Ivanenko YP, Sylos Labini F, Cappellini G, Macellari V, McIntyre J, Lacquaniti F. (2011) Gait transitions in simulated reduced gravity. **J Appl Physiol.** 110:781-8.
27. d'Avella A, Cesqui B, Portone A, Lacquaniti F. (2011) A new ball launching system with controlled flight parameters for catching experiments. **J Neurosci Methods.** 196:264-75.
28. Moscatelli A, Polito L, Lacquaniti F. (2011) Time perception of action photographs is more precise than that of still photographs. **Exp Brain Res.** 210:25-32.
29. Ivanenko YP, Dominici N, Daprati E, Nico D, Cappellini G, Lacquaniti F. (2011) Locomotor body scheme. **Hum Mov Sci.** 30:341-51.
30. Moscatelli A, Lacquaniti F. (2011) The weight of time: gravitational force enhances discrimination of visual motion duration. **J Vis.** 11(4). pii: 5.
31. Daprati E, Wriessnegger S, Lacquaniti F. (2011) Dealing with individual variability: when telling what is real depends on telling who is acting. **Neurosci Lett.** 498:6-9.
32. Leurs F, Ivanenko YP, Bengoetxea A, Cebolla AM, Dan B, Lacquaniti F, Cheron GA. (2011) Optimal walking speed following changes in limb geometry. **J Exp Biol.** 214:2276-82
33. Labini FS, Ivanenko YP, Cappellini G, Gravano S, Lacquaniti F. (2011) Smooth changes in the EMG patterns during gait transitions under body weight unloading. **J Neurophysiol.** 106:1525-36.
34. Viviani P, Figliozzi F, Campione GC, Lacquaniti F. (2011) Detecting temporal reversals in human locomotion. **Exp Brain Res.** 214:93-103.
35. Zago M, La Scaleia B, Miller WL, Lacquaniti F. (2011) Coherence of structural visual cues and pictorial gravity paves the way for interceptive actions. **J Vis.** 11(10):13.
36. Zago M, La Scaleia B, Miller WL, Lacquaniti F. (2011) Observing human movements helps decoding environmental forces. **Exp Brain Res.** 215:53-63.
37. Viviani P, Figliozzi F, Lacquaniti F. (2011) The perception of visible speech: estimation of speech rate and detection of time reversals. **Exp Brain Res.** 215:141-61.

38. Zago M, Carrozzo M, Moscatelli A, Lacquaniti F. (2011) Time, observation, movement. **Cogn Crit.** 4:61-86.
39. d'Avella A, Portone A, Lacquaniti F. (2011) Superposition and modulation of muscle synergies for reaching in response to a change in target location. **J Neurophysiol.** 106:2796-812.
40. Dominici N, Ivanenko YP, Cappellini G, d'Avella A, Mondì V, Cicchese M, Fabiano A, Silei T, Di Paolo A, Giannini C, Poppele RE, Lacquaniti F. (2011) Locomotor primitives in newborn babies and their development. **Science.** 334:997-9.
41. Maclellan MJ, Ivanenko YP, Cappellini G, Sylos Labini F, Lacquaniti F. (2012) Features of hand-foot crawling behavior in human adults. **J Neurophysiol.** 107:114-25.
42. Cheron G, Duvinage M, De Saedeleer C, Castermans T, Bengoetxea A, Petieau M, Seetharaman K, Hoellinger T, Dan B, Dutoit T, Sylos Labini F, Lacquaniti F, Ivanenko Y (2012) From spinal Central Pattern Generators to cortical network: integrated BCI for walking rehabilitation. **Neural Plast.** doi:10.1155/2012/375148 ID 375148, 1-13
43. Senot P, Zago M, Le Séac'h A, Zaoui M, Berthoz A, Lacquaniti F, McIntyre J. (2012) When up is down in 0g: How gravity sensing affects the timing of interceptive actions. **J Neurosci** in press
44. Lacquaniti F, Ivanenko YP, Zago M (2012) Control of human locomotion. **J Physiol (Lond)** invited review, in press
45. Lacquaniti F, Ivanenko YP, Zago M (2012) Development of human locomotion. **Curr Op Neurobiol** invited review, in press
46. Cesqui B, d'Avella A, Portone A, Lacquaniti F (2012) Catching a ball at the right time and place: individual factors matter. **PLoS One.** in press