



Bioelectronics &amp; Neuroengineering Seminar Series

# Way to go: the emergence of walking from neonates stepping to independent walking in toddlers

Scuola Superiore Sant'Anna | Pisa,  
Aula Magna (Piazza Martiri della Libertà, 33, Pisa)  
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Prof. Nadia Dominici  
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**Biography:** Nadia Dominici is an associate professor at the Faculty of Behavioural and Movement Science at Vrije Universiteit of Amsterdam where she works on the interplay between brain and muscular activity underlying independent walking in children, as well as on the biomechanics of human locomotion. After a master diploma in Physics, she obtained a PhD in Neuroscience at the University of Rome “Tor Vergata”, for work on the neurophysiology of locomotor development in children. She has held research positions at the Laboratory of Neuromotor Physiology of the Santa Lucia Foundation in Rome, where she focused on central pattern generation networks and on the development of locomotion in children, and at the Experimental Neurorehabilitation Laboratory at the University of Zürich, and EPFL in Lausanne, where she developed neurorehabilitation techniques to restore walking in animals after spinal cord injuries. She was awarded the Suzanne Klein-Vogelbach -Prize for the Research of Human Movement prize in 2013, and a 5-year NWO (Netherlands Organisation for Scientific Research) Vidi grant in 2015 and a 5-year ERC (European Research Council) Starting Grant in 2016.

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