

Curriculum Vitae

Marianna Laviola

Personal Data:

Family name: Laviola
First name: Marianna
Date of birth: June 17, 1984
Place of birth: Policoro, Italy
Nationality: Italian
Citizenship: Italian, EU

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Education and Professional Studies:

Date: From October 2013 up to now

Organization: Czech Technical University in Prague – Faculty of Biomedical Engineering (Kladno, Czech Republic)

Position: Researcher Post Doc

Date: April 2013

Degree: PhD in Bioengineering at Politecnico di Milano (Milan, Italy).

Thesis title: Development of new methods for noninvasive functional evaluation of the diaphragm: ultrasounds and opto-electronic pletysmography.

Date: April 2009

Degree: Master Degree in Biomedical Engineering at Politecnico di Milano (Milan, Italy).

Thesis title: Measurement of blood shifts between the splanchnic circulation and the extremities.

Appointments:

Date: October 2013– present

Organization: Czech Technical University in Prague, Faculty of Biomedical Engineering

Position: Researcher Post Doc

Date: January 2012 – September 2013

Organization: IRCCS Medea Associazione La Nostra Famiglia (Bosisio Parini, LC, Italy)

Position: Research scientist

Date: January 2010- December 2011

Organization: Fondazione IRCCS Cà Granda Ospedale Maggiore Policlinico di Milano (Milan, Italy)

Position: Research scientist

Date: April 2010 – June 2012

Organization: Politecnico di Milano (Milan, Italy)

Position: Teaching and tutoring activity - Labview lectures and laboratory - Course: Sensors technology and clinical instrumentation.

Research Experience Abroad

Date: October – November 2012; April - May 2013; September 2013

Position: Visiting Researcher in the European Project FP7 “PlanHab, Planetary Habitat Simulation” Planica – Slovenia

Date: October – December 2009

Organization: McGill University, Montréal Québec, Canada

Position: Visiting Researcher

Awards

Date: September 2010

Organization: European Respiratory Society (ERS) (Barcelona, Spain) - ERS Young Scientist Sponsorship for the abstract: “In vivo assessment of diaphragm thickness changes by ultrasonography”

Publications

- M. Laviola, O. Hajny, K. Roubik: Continuous distending pressure effects on variables contributing to oxygenation in healthy and ARDS model pigs during HFOV. AIP Conf. Proc. 1618, 962, 2014 Oct.

M. Laviola, A. Zanini, R. Priori, F. Macchini, E. Leva, M. Torricelli, C. Ceruti, A. Aliverti: Thoraco-abdominal asymmetry and asynchrony in congenital diaphragmatic hernia. Ped.Pulm. 2014 Jun.

- A. LoMauro, M. Romei, R. Priori, M. Laviola, M.G. D’Angelo, A. Aliverti: Alterations of thoraco-abdominal volumes and asynchronies in patients with spinal muscle atrophy type III. Respir Physiol Neurobiol. 197:1-8, 2014 March.

- M. Nosotti, M. Laviola, S. Mariani, E. Privitera, P. Mendogni, I.F. Nataloni, A. Aliverti, L. Santambrogio: Variations of thoraco-abdominal volumes after lung transplantation measured by opto-electronic plethysmography. Transplantation Proceedings Vol. 45, Issue 3, Pages 1279-1281, 2013 April.

- A. Aliverti, B. Uva, M. Laviola, D. Bovio, A. Lo Mauro, C. Tarperi, E. Colombo, B. Loomas, A. Pedotti, T. Similowski, P. T Macklem: Concomitant ventilatory and circulatory functions of the diaphragm and abdominal muscles. J Appl Physiol.; 109(5):1432-40, 2010 Nov.

Memberships

Silver Membership – European Respiratory Society since 2014