

Enrico Giuliani
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Professional experience

CEO at Neuron Guard S.r.l.
Innovative start-up active in the field of neurosciences
May 2013 – present
Modena - Italy

Research Grant
Biomaterials for cardiovascular applications and organ perfusion
Cardiac Surgery
University of Modena and Reggio Emilia
March 2014 – March 2015
Modena – Italy

Biomaterials for cardiovascular applications and organ perfusion
Anaesthesiology and Intensive Care
University of Modena and Reggio Emilia
May 2012 – May 2013
Modena – Italy

Locumtenens
Anaesthesiology and Intensive Care
Azienda Ospedaliero-Universitaria di Modena
May 2012 – November 2012
Modena – Italy

Residency
Anaesthesiology and Intensive Care
Azienda Ospedaliero-Universitaria di Modena
2008 - 2012
Modena – Italy

Observership
Department of Anaesthesiology
Mount Sinai Medical Centre
02/15/2011 – 03/15/2011
New York, US

Education

University of Modena and Reggio Emilia Medical School (110/110 cum laude)
2001-2007
MD

Modena – Italy

Statistica applicata ai quesiti clinici (Academic course of biostatistics)

2009-2010

Modena Italy

Languages

Italian (written fluent, spoken fluent)

English (written fluent, spoken fluent) – Certificate of Proficiency in English, University of Cambridge.

Medical Licensure

Ordine dei Medici Chirurghi ed Odontoiatri di Modena

Italian licence

Graduate Training

Seedlab incubation program for innovative start-ups at Milan Talent Garden

May 2013 – September 2013

Certificate of high tech entrepreneurship of the MIB School of Management

May 2013 – September 2013

Doctorate School in Clinical and Experimental Medicine of the University of Modena and Reggio Emilia

January 2013-February 2016

Residency (110/110 cum laude)

Anaesthesiology and Intensive Care

Azienda Ospedaliero-Universitaria di Modena

2008 - 2012

Modena – Italy

Research grant

Biomaterials for cardiovascular applications and organ perfusion

University of Modena and Reggio Emilia

2012-2013

Modena-Italy

Awards

Seal of Excellence of the European Commission for the Project Frezee (H2020-SMEINST-2-2015) - Horizon 2020 Program

Winner of the Intel Global Challenge 2014 for the category Internet of Things Hardware (November 2014, Berkeley)

Ranked 2nd at Intel Business Challenge Europe 2014 (September 2014, Vilnius)

Winner of the prize Dall'Idea all'Impresa of Premio Gaetano Marzotto 2013

Winner of the Seedlab incubator start-up competition in Milan (Italy) with Neuron Guard (September 2013)

Lectures

Lecture at the Innovation and Entrepreneurship Project – Intel Day @ CERN, at CERN on the 26/11/2015 (Genève, Switzerland)

Book Chapters

Giuliani E, Parravicini V, Parravicini R. Cardiovascular tissue engineering using functional marine biomaterials. In: Kim S. Functional Marine Biomaterials: Properties and Applications.

June 25, 2015, Pages 63-67

(Book Chapter)

Publications

1. Barbieri A, Pinna C, Basso GP, Molinari R, Giuliani E, Fruggeri L, Nolli M. Specificity and reliability of prognostic indexes in intensive care evaluation: the spontaneous cerebral haemorrhage case. *J Eval Clin Pract.* 2009; 15: 242-5.
2. Bonfreschi V, Giuliani E, Malagnino FC, Navi A, Coppi G, Silingardi R, D'Amico R, Barbieri A. Analgesia during abdominal aortic aneurysm endovascular repair: remifentanyl vs. fentanyl-midazolam--a randomized controlled trial. *Eur J Anaesthesiol.* 2009; 26: 782-7.
3. Giuliani E, Lazzerotti S, Fantini G, Guerri E, Serrantoni C, Modena MG, Barbieri A. Acute Myocardial Infarction – from territory to definitive treatment in an Italian Province. *J Eval Clin Pract.* 2010; 16: 1071-5.
4. Giuliani E, Iseppi D, Orlandi MC, Alfonso A, Barbieri A. Prolonged neurological burden in severe lithium intoxication. *Minerva Anesthesiol.* 2010; 76: 463-5.
5. Giuliani E, Albertini G, Vaccari C, Barbieri A. pH 6.68 – surviving severe metformin intoxication. *QJM.* 2010; 103: 887-90.
6. Coppi F, Roversi S, Giuliani E, Sansone R, Sangiorgi GM, Modena MG, Barbieri A. Circumflex coronary artery agenesis associated with thoracic great vessels anomalies. *J Thorac Imaging.* 2011; 26: W9-11.
7. Barbieri A, Giuliani E, Genazzani A, Baraldi E, Ferrari A, D'Amico R, Coppi G. Analgesia and endocrine surgical stress Effect of two analgesia protocols on cortisol and prolactin levels during abdominal aortic aneurysm endovascular repair. *Neuro Endocrinol Lett.* 2011; 32: 526-9.
8. Parravicini R, Cocconcelli F, Verona A, Parravicini V, Giuliani E, Barbieri A. Tuna cornea as biomaterial for cardiac applications. *Tex Heart Inst J.* 2012; 39:179-83.
9. Giuliani E, Albertini A, Vaccari C, Manenti A, Barbieri A. Multi-organ failure

- following severe cocaine-tetramisole intoxication in a body-packer. *Anaesth Intensive Care*. 2012; 40:562-4.
10. Barbieri A, Giuliani E, Lazzerotti S. Logbook implementation in Anaesthesiology Residency training. A retrospective analysis. *Med Teach*. 2012; 34:513.
 11. Barbieri A, Giuliani E, Marchetti G, Ugoletti E, Della Volpe S, Albertini G. Plasma renin concentration as a predictor of outcome in a medical intensive care setting: A retrospective pilot study. *Minerva Anesthesiol*. 2012; 78: 1248-53.
 12. Giuliani E, Melegari G, Lazzerotti S, Fantini G, Serantoni C, Barbieri Estudio de los tiempos transcurridos desde el inicio de los síntomas hasta la angioplastia primaria. *Emergencias*. 2013; 25: 51-54.
 13. Manenti A, Giuliani E, Colasanto D. Computed Tomography Aids Minimally Invasive Mitral Valve Surgery. *Tex Heart Inst J*. 2013; 40: 211.
 14. Manenti A, Giuliani E, Curti T. Abdominal Aortic Aneurysm with Double Rupture into the Retroperitoneum and the Inferior Vena Cava. *Tex Heart Inst J*. 2013; 40: 211-212.
 15. Manenti A, Giuliani E. The Pelvic Compartment Syndrome. *J Am Coll Surg*. 2013; 217: 374.
 16. Manenti A, Giuliani E. A Simplified Approach to Incisional Hernias. *J Am Coll Surg*. 2013; 217: 167.
 17. Barbieri A, Giuliani E, Marchetti G, Ugoletti E, Della Volpe S, Albertini G. Authors reply to "Can renin predict mortality of patients in intensive care unit?" *Minerva Anesthesiol*. 2013; 79: 575.
 18. Barbieri A, Giuliani E, Carone C, Pederzoli F, Mascheroni G, Greco G, Stucchi C, Genedani S. Clinical severity of ischemic stroke and neural damage biomarkers in the acute setting: the STROke MArkers (STROMA) study. *Minerva Anesthesiol* 2013; 79: 750-757.
 19. Giuliani E, Coppi F, Bertolotti V, Gorlato G, Zavatta M, Barbieri A. Critical illness in energy metabolism genetic disorder: rhabdomyolysis, acute kidney injury, respiratory arrest. *West Indian Med J*. 2013; 62: 773-775.
 20. Farinetti A, Lonardi R, Barbieri A, Giuliani E, Pennella S, Pozza M, Saviano M, Manenti A, Mattioli AV. Surgical approach to intramyocardial administration of bone marrow stem cells in an animal model. *Ann Ital Chir*. 2013; 84: 455-458.
 21. Giuliani E, Genedani S, Moratto R, Veronesi J, Carone C, Bonvecchio C, Mosca F, Coppi G, Barbieri A. Neural Damage Biomarkers during Open Carotid Surgery versus Endovascular Approach. *Ann Vasc Surg*. 2014; 28: 1671-1679.
 22. Barbieri A, Giuliani E, Lazzerotti S, Villani M, Farinetti A. education in anesthesia: three years of online logbook implementation in an Italian school. *BMC Education*. 2015; DOI: 10.1186/s12909-015-0298-1.

23. Mapelli J, Gandolfi D, Giuliani E, Prencipe FP, Pellati F, Barbieri A, D'Angelo E, Bigiani A. The effect of desflurane on neural communication at a central synapse. *PLoS One*. 2015; 10: e0123534.
24. Corazza I, Caporusso F, giuliani E, Rossi PL, Bianchini D, Zannoli R. Numerical models, In vitro simulation and first prototype verification of a controlled cerebral cooling neck collar. *J Mech Med Biol*. 2015; 15: 1540031-1-1540031-7.
25. Silingardi R, Azzoni I, Giuliani E, Saitta G, Gennai S, Coppi G. Unibody endografts for abdominal aortic aneurysm repair reduce radiation and nephrotoxic exposure compared with modular endografts. *Ann Vasc Surg*. 2015; 29: 751-757.
26. Giuliani E, Melegari G, Farinetti A, Barbieri A, Mattioli AV. An unusual case of enoxaparin induced thrombocytopenia in intensive care unit. *Ann Ital Chir*. 2015; 86: 545-547.
27. Giuliani E, Magnoni S, Fei M, Addis A, Zanasi R, Stocchetti N, Barbieri A. A Novel Cooling Device for Targeted Brain Temperature Control and Therapeutic Hypothermia: Feasibility Study in an Animal Model. *Neurocrit Care*. 2016. [Epub ahead of print]
28. Daniele Vandelli, Federica Palazzoli, Patrizia Verri, Cecilia Rustichelli, Filippo Marchesi, Anna Ferrari, Carlo Baraldi, Enrico Giuliani, Manuela Licata, Enrico Silingardi. Development and validation of a liquid chromatography-tandem mass spectrometric assay for quantitative analyses of triptans in hair. *Journal of Chromatography B* 2016; 1017: 136-144.
29. G Marchetti, E Giuliani, S Urbinati, A Barbieri. Dabigatran anticoagulation and Stanford type A aortic dissection: not a lethal coincidence. *Acta Anaesthesiologica Scandinavica* 2016; 60: 544-544.
30. F Benassi, E Giuliani, D Corticelli, R Parravicini. A novel portable extra-corporeal life support system for the treatment of cardio-pulmonary failure under controlled hypothermia. Preliminary study in experimental animals. *Acta Bio Medica Atenei Parmensis*. 2016; 87: 28-37.
31. A Ferrari, C Baraldi, M Licata, D Vandelli, F Marchesi, F Palazzoli, P Verri, Rustichelli C, Giuliani E, Silingardi E. Hair analysis for detection of triptans occasionally used or overused by migraine patients—a pilot study. *European journal of clinical pharmacology* 2016; 72: 1075-1081
32. Pennella S, Bonetti LR, Migaldi M, Manenti A, Lonardi R, Giuliani E, Barbieri A, Farinetti A, Mattioli AV. Does stem cell therapy induce myocardial neoangiogenesis? Histological evaluation in an ischemia/reperfusion animal model. *J Cardiovasc Med*. 2017; 18: 277-282.

Patent applications:

1. 13812101.7 (Europe)
2. 2.887.781 (Canada)
3. 238196 (Israel)
4. 707719 (New Zealand)
5. 2013328316 (Australia)
6. 201380053193.0 (China)
7. 2853/DELNP/2015 (India)

8. 2015-536266 (Japan)
9. BR 11 2015 008121 5 (Brazil)
10. QA/201504/00140 (Qatar)
11. 2015117184 (Russia)
12. 2015/469 (United Arab Emirates)
13. 15/458,841 (United States)
14. 14722733.4 (Europe)
15. 14/777,928 (United States)

Granted Patents:

1. 1413653 (Italy)
2. 9622904 (United States)

Modena, 24th of October 2017