



TO MAGNIFICO RETTORE OF UNIVERSITA' DEGLI STUDI DI MILANO

ID CODE 4882

I the undersigned asks to participate in the public selection, for qualifications and examinations, for the awarding of a type B fellowship at Dipartimento di Fisiopatologia Medico Chirurgica e dei Trapianti

Scientist- in - charge: Prof Ristagno Giuseppe

Aurora Magliocca

CURRICULUM VITAE

PERSONAL INFORMATION

Surname	Magliocca
Name	Aurora
Date of birth	28/04/1987

PRESENT OCCUPATION

Appointment	Structure
Postdoctoral Fellow	Mario Negri Institute for Pharmacological Research IRCCS

EDUCATION AND TRAINING

Degree	Course of studies	University	year of achievement of the degree
MD	Medical Doctor	La Sapienza	2012
PhD	Molecular and Translational Medicine - DIMET	Milano-Bicocca	2021
Degree of medical specialization	Anesthesia, Critical Care and Pain Medicine	Milano-Bicocca	2018
Other	Postdoctoral Research Fellowship	Harvard Medical School	2016
Other	Advanced Perioperative Transesophageal Echocardiography examination	National Board of Echocardiography	2017



REGISTRATION IN PROFESSIONAL ASSOCIATIONS

Date of registration	Association	City
04/03/2013	Ordine dei Medici Chirurghi e degli Odontoiatri	Frosinone

FOREIGN LANGUAGES

Languages	level of knowledge
English	Excellent

AWARDS, ACKNOWLEDGEMENTS, SCHOLARSHIPS

Year	Description of award
2019	Young Investigator Start-Up Grant European Society of Anesthesia (ESA). P.I. of the project: Improving Outcomes in Cardiac Arrest and Cardiopulmonary Resuscitation targeting Indoleamine 2,3- Dioxygenase. 22,500€
2018	Levi-Montalcini Biomedical Sciences Award from the European Society of Intensive Care Medicine (ESICM). P.I. of the project: Inhibition of Kynurenine Pathway after Cardiac Arrest and Cardiopulmonary Resuscitation: effects on outcome. 20,000€
2018	The Zoll Foundation Grant - supporting Resuscitation and Acute Critical Care Research. P.I. of the project: Impact of kynurenine pathway inhibition on survival and neurological outcome after cardiac arrest and cardiopulmonary resuscitation. 27,278\$
2012	"Excellent Medical Degree" at Sapienza University in Rome. Award for the academic career during Medical School.

TRAINING OR RESEARCH ACTIVITY

2015-2016: Postdoctoral Research Fellowship in the Department of Anesthesia Critical Care and Pain Medicine, Massachusetts General Hospital, Harvard Medical School, Boston, MA (USA) (Director Prof F. Ichinose, MD, PhD). Leading role in: 1) preclinical studies (i.e. cardiac arrest and cardiopulmonary resuscitation in mice). 2) clinical research project (i.e. non-invasive cardiac output monitoring in liver transplantation). Collaborator in: 1) preclinical studies (i.e. protective effects of inhalation of H₂S in spinal cord injury; and role of sulfide catabolism and hypoxia tolerance in mice and naturally hypoxia-tolerant ground squirrels).

2017-2021: Ph.D. Program in Translational and Molecular Medicine (DIMET) at Milano-Bicocca University, Monza (Italy) and postdoctoral researcher at Mario Negri Institute for Pharmacological Research, Department of Cardiovascular Medicine, Milan (Italy). Leading role in preclinical studies (i.e. cardiac arrest and cardiopulmonary resuscitation in mice and pigs).

P.I. of the project "Modulation of Kynurenine Pathway to Prevent Brain Injury after Cardiac Arrest". Leading role in the project: LUCAS Versus Manual Chest Compression During Ambulance Transport: A Hemodynamic Study in a Porcine Model of Cardiac Arrest. Leading role in the translational project: Cardiopulmonary Resuscitation-Associated Lung Edema (CRALE) - A Translational Study. Collaborator in: 1) preclinical studies (i.e. protective effects of inhalation of Argon in traumatic brain injury in mice; and neuroprotective effects of Argon after cardiac arrest in pigs); 2) multicenter clinical studies (i.e. Cerebral VEin Thrombosis International Study, AMSA trial, WARD-COVID).



PATENTS

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CONGRESSES AND SEMINARS

Date	Title	Place
14-16/11/2020	Resuscitation Science Symposium, American Heart Association	online
12/10/2020	Introduction to Grant Writing. University of Milano-Bicocca	Monza, Italy
28/09-2/10/2019	32nd Annual Congress European Society of Intensive Care Medicine ESICM	Berlin, Germany
13-14/05/2019	Women in sciences. University of Milano-Bicocca	Monza, Italy
01-03/06/2019	Euroanesthesia The European Society Anesthesiology Congress	Vienna, Austria
20-24/10/2018	31st Annual Congress European Society of Intensive Care Medicine ESICM	Paris, France
20-26/05/2018	SIAARTI Academy CREM Critical Emergency Medicine	Lampedusa, Italy
03-07/12/2018	ESICM fellowship program "Infections in ICU: Modern Management" University Hospital ATTIKON Department of Critical Care	Athens, Greece
21-22/11/2017	Managing Pneumonia in the ICU - State of Art 2017 - European Society of Intensive Care Medicine ESICM	Brussels, Belgium
04-07/04/2017	Introduction Medical Statistics. University of Milano-Bicocca	Monza, Italy
05/09/2016-23/11/2016	Fundamentals of Clinical and Traslational Research. Certification Harvard Catalyst. Harvard Clinical and Translational Science Center	Boston, MA, USA
01/03/2016-01/05/2016	Successful Grant Writing Strategies. Certification Harvard Catalyst. Harvard Clinical and Translational Science Center	Boston, MA, USA
12-13/05/2016	Challenges in Mechanical Ventilation and Airway Technologies Massachusetts General Hospital	Boston, MA, USA
12-13/05/2016	Clinical Electroencephalography for the Anesthesiologist. Massachusetts General Hospital	Boston, MA, USA
03/10/2016	AKI: are we in a paradigm shift away from	Boston, MA, USA



	creatinine? Cardio Renal Society of America	
01/12/2014-01/03/2015	BLS/D/PBLSD/PALSD/ACLS/Medical Maxi-Emergency. AAT 118 San Gerardo Hospital, Milan-Bicocca University	Monza, Italy
22-24/06/2017	ATLS student Course American College of Surgeons ATLS Italian Regional Faculty	Milan, Italy

PUBLICATIONS

Books
Dentali F, Magliocca A, Rezoagli E. Urgenze in emostasi e trombosi: Anemia ed emorragia acuta. Manuale di emergenze medico - chirurgiche, Milone-Di Minno Edition: 2019. Chapter: 8. Publisher: Edra - Masson

Articles in reviews
Magliocca A , Rezoagli E, Zani D, Manfredi M, De Giorgio D, Olivari D, Fumagalli F, Langer T, Avalli L, Grasselli G, Latini R, Pesenti A, Bellani G, Ristagno G. Cardiopulmonary Resuscitation-Associated Lung Edema (CRALE) - A Translational Study. <i>Am J Respir Crit Care Med</i> . 2021 Feb 15;203(4):447-457. doi: 10.1164/rccm.201912-2454OC.
Magliocca A , Olivari D, De Giorgio D, Zani D, Manfredi M, Boccardo A, Cucino A, Sala G, Babini G, Ruggeri L, Novelli D, Skrifvars MB, Hardig BM, Pravettoni D, Staszewsky L, Latini R, Belloli A, Ristagno G. LUCAS Versus Manual Chest Compression During Ambulance Transport: A Hemodynamic Study in a Porcine Model of Cardiac Arrest. <i>J Am Heart Assoc</i> . 2019 Jan 8;8(1):e011189. doi: 10.1161/JAHA.118.011189
Magliocca A , Omland T, Latini R. Dipeptidyl peptidase 3, a biomarker in cardiogenic shock and hopefully much more. <i>Eur J Heart Fail</i> . 2019 Dec 15. doi: 10.1002/ejhf.1649
Magliocca A , Manfredi M, Olivari D, De Giorgio D, Cucino A, Zani DD, Ristagno G. High quality chest compression: Don't be afraid of breaking ribs to gain a life! <i>Heart Lung</i> . 2019 Mar - Apr;48(2):173-174. doi: 10.1016/j.hrtlng.2018.12.004
Magliocca A , Rezoagli E, Anderson TA, Burns SM, Ichinose F, Chitilian HV. Cardiac output measurements based on the pulse wave transit time and thoracic impedance exhibit limited agreement with thermodilution method during orthotopic liver transplantation. <i>Anesth Analg</i> . 2018;126:85-92 doi: 10.1213/ANE.0000000000002171
Moro F, Fossi F, Magliocca A , Pascente R, Sammali E, Baldini F, Tolomeo D, Micotti E, Citerio G, Stocchetti N, Fumagalli F, Magnoni S, Latini R, Ristagno G, Zanier ER Efficacy of acute administration of inhaled argon on traumatic brain injury in mice. <i>Br J Anaesth</i> . 2021 Jan;126(1):256-264. doi: 10.1016/j.bja.2020.08.027. Epub 2020 Sep 22.
Hayashida K, Bagchi A, Miyazaki Y, Hirai S, Seth D, Silverman MG, Rezoagli E, Marutani E, Mori N, Magliocca A , Liu X, Berra L, Hindle AG, Donnino MW, Malhotra R, Bradley MO, Stamler JS, Ichinose F. Improvement in Outcomes After Cardiac Arrest and Resuscitation by inhibition of S- Nitrosoglutathione Reductase. <i>Circulation</i> . 2018 Oct 4. doi: 10.1161/CIRCULATIONAHA.117.032488
Fumagalli F, Olivari D, Boccardo A, De Giorgio D, Affatato R, Ceriani S, Bariselli S, Sala G, Cucino A, Zani D, Novelli D, Babini G, Magliocca A , Russo I, Staszewsky L, Salio M, Lucchetti J, Maisano M, Fiordaliso, F, Roberto Furlan, Gobbi M, Luini MV, Pravettoni D, Scanziani E, Belloli A, Latini R, Ristagno G. Ventilation with argon improves survival with good neurological recovery after prolonged untreated cardiac arrest in pigs. <i>J Am Heart Assoc</i> . 2020 Dec 15;9(24):e016494. doi: 10.1161/JAHA.120.016494. Epub 2020 Dec 8.
Bellani G, Grasselli G, Cecconi M, Antolini L, Borelli M, De Giacomo F, Bosio G, Latronico N, Filippini M, Gemma M, Giannotti C, Antonini B, Petrucci N, Zerbi SM, Maniglia P, Castelli GP, Marino G, Subert M, Citerio G, Radrizzani D, Mediani TS, Lorini FL, Russo FM, Faletti A, Beindorf A, Covello RD, Greco S, Bizzarri MM, Ristagno G, Mojoli F, Pradella A, Severgnini P, Da Macallè M, Albertin A, Ranieri VM,



Rezoagli E, Vitale G, **Magliocca A**, Cappelleri G, Docci M, Aliberti S, Serra F, Rossi E, Valsecchi MG, Pesenti A, Foti G; COVID-19 Lombardy ICU Network. Noninvasive Ventilatory Support of COVID-19 Patients Outside the Intensive Care Units (WARD-COVID). *Ann Am Thorac Soc.* 2021 Jan 4. doi: 10.1513/AnnalsATS.202008-1080OC. Online ahead of print.

Rezoagli E, **Magliocca A**, Bellani G, Pesenti A, Grasselli G. Development of a Critical Care Response - Experiences from Italy during the Covid19 Pandemic. *Anesthesiology Clinics* (2021), in press. doi: <https://doi.org/10.1016/j.anclin.2021.02.003>.

Olivari D, De Giorgio D, Staszewsky LI, Fumagalli F, Boccardo A, Novelli D, Manfredi M, Babini G, Luciani A, Ruggeri L, **Magliocca A**, Zani DD, Masson S, Belloli A, Pravettoni D, Maiocchi G, Latini R, Ristagno G. Searching for Preclinical Models of Acute Decompensated Heart Failure: a Concise Narrative Overview and a Novel Swine Model. *Cardiovasc Drugs Ther.* 2020 Oct 24. doi: 10.1007/s10557-020-07096-5. Online ahead of print.

Porceddu E, Rezoagli E, Poli D, **Magliocca A**, Scoditti U, Di Minno MND, De Stefano V, Siragusa S, Ageno W, Dentali F; CEVETIS (CErebral VEin Thrombosis International Study) Investigators Sex-related characteristics of cerebral vein thrombosis: A secondary analysis of a multicenter international cohort study. *Thromb Res.* 2020 Dec;196:371-374. doi: 10.1016/j.thromres.2020.09.023. Epub 2020 Sep 17.

Rezoagli E, **Magliocca A**, Ristagno G, Bellani G. CO₂ Oscillation during Cardiopulmonary Resuscitation: the Role of Respiratory System Compliance. *Am J Respir Crit Care Med.* 2019 Jan 25. doi: 10.1164/rccm.201812-2331LE

Kakinohana M, Marutani E, Tokuda K, Kida K, Kosugi S, Kasamatsu S, **Magliocca A**, Ikeda K, Kai S, Sakaguchi M, Hirai S, Xian M, Kaneki M, Ichinose F. Breathing hydrogen sulfide prevents delayed paraplegia in mice. *Free Radic Biol Med.* 2018 Dec 8;131:243-250. doi: 10.1016/j.freeradbiomed.2018.12.003.

Rezoagli E, **Magliocca A**, Catenacci SS, Bellani G, Fumagalli R. Identification of Biological Phenotypes in Acute Respiratory Distress Syndrome. From Biomarkers to Clinical Outcome. *Am J Respir Crit Care Med.* 2018 May 1;197(9):1209-1211 doi: 10.1164/rccm.201708-1713RR.

De Santis V, Vitale D, Santoro A, **Magliocca A**, Porto AG, Nencini C, Tritapepe L Ivabradine: potential clinical applications in critically ill patients. *Clin Res Cardiol.* 2013 Mar;102(3):171-8. doi: 10.1007/s00392-012-0516-3

Congress proceedings

Magliocca A, Rezoagli E, Bellani G, Ristagno G. CO₂ oscillation during Cardiopulmonary Resuscitation: mechanical versus manual chest compression in a porcine model of cardiac arrest. *Intensive Care Medicine Experimental* 2019, 7(Suppl 3):001610

Fossi F, Moro F, **Magliocca A**, Micotti E, Citerio G, Stocchetti N, Latini R, Ristagno G, Zanier E. Inhaled Argon improves neurological outcome in experimental traumatic brain injury. *Intensive Care Medicine Experimental* 2019, 7(Suppl 3):001119

Olivari D, De Giorgio D, Novelli D, **Magliocca A**, Ruggeri L, Ristagno G. Hemodynamically-Guided Optimum Chest Compression Point in a Rat Model of Cardiopulmonary Resuscitation. *Circulation.* 2018;138:A262

Hayashida K, Ikeda K, Marutani E, **Magliocca A**, Mori N, Tainsh RET, Johansson KB, Rhee DK, Buys ES, F. Ichinose. Soluble Guanylate Cyclase- α 1 in Bone Marrow Derived Cells is Required for Inhaled Nitric Oxide to Improve Outcomes After Cardiac Arrest and Cardiopulmonary Resuscitation in Mice. *Circulation.* 2017;136:A18149

OTHER INFORMATION

Reviewer for Peer Reviewed Journal:
Resuscitation
Scientific reports



Frontiers in Medicine
BMC Anesthesiology

Declarations given in the present curriculum must be considered released according to art. 46 and 47 of DPR n. 445/2000.

The present curriculum does not contain confidential and legal information according to art. 4, paragraph 1, points d) and e) of D.Lgs. 30.06.2003 n. 196.

Place and date: Milano, 26/02/2021

SIGNATURE