



# Europass Curriculum Vitae

## Personal information



First name / Surname Degree(s) **Marco Ghionzoli, MD PhD**

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Nationality Italian

Date of birth 07 September 1979

## Current positions

**Consultant in Pediatric Surgery at Meyer Children's Hospital – *Dirigente Medico - Chirurgo Pediatra presso Ospedale Pediatrico Meyer (Oct 2018)***

## Work experience

Nov 09 – Jul 11 - Clinical fellow – General Paediatric Surgery – Great Ormond Street Hospital – London (UK)

Jan 10 - Jul 11 – Locum fellow – HCL Thames Medics Ltd – Senior House Officer and Registrar position in Paeds (NICU-wards-labour room) covering South East - South West - East of England - London consortium.

Jul 11 – Oct 13 - Locum Consultant in Paediatric Surgery at Meyer Children Hospital, Florence (Italy)

Oct 13 – Oct 18 – Consultant in Pediatric Surgery at Meyer Children's Hospital and Assistant Professor at University of Florence.

## Surgical experience

Nov 05 – Mar 18 – > 2800 tracked surgical procedures of which  
- > 600 minimally invasive procedures  
- > 1100 first operator procedures

> 500 mentored procedures

## Education and training

- 1993-1998 Secondary school focusing on sciences – (Liceo Scientifico) – Pisa, Italy
- 1998 – 2004 Medical School – University of Pisa, Italy
- Sep 03 – Feb 03 Internship “in rota” (“ADO”) in Dermatology – Orthopaedics - Ophthalmology - Otorhinolaryngology, Head and Neck Surgery at Semmelweis University (SOTE) – Budapest, Hungary
- Jul 03 – Aug 03 Internship in Paediatric ward – International Exchange project of medical students (IFMSA) – Hospital Civil de Guadalajara, Universidad de Guadalajara, Mexico
- Sep 03 – Oct 04 – Training in Paediatric Surgery dept. (Dir. Prof. C. Spinelli) – University of Pisa (outpatients and theatre activities)
- Oct 04 – Medical Degree – University of Pisa  
Thesis: “Linfadenectomia cervicale nel carcinoma differenziato della tiroide in età pediatrica”.  
(Cervical lymphectomy in differentiated thyroid carcinoma of paediatric age)

## Postgraduate training

- Mar 05 – Registration to Medical Council No 4804 (Ordine dei Medici Chirurghi e degli Odontoiatri della Provincia di Pisa) - Italy
- Mar 05 – Jul 05 – General Medical Services – licensed doctor - Pisa, Italy
- Mar 05 - Jul 05 – Attendance in Paediatric Surgery dept. (Dir. Prof. A. Messineo) – Meyer Children Hospital, Firenze (outpatients and theatre activities)
- Jul 05 – Oct 09 Postgraduate training school of Paediatric Surgery (University of Florence), Italy
- Sep 07 – Mar 08 – Rota in general adult surgery focusing on minimally invasive surgical techniques at Careggi Hospital – Director: Dr. A. Valeri, Florence, Italy
- Mar 08 – Aug 08 – Participation surgical and clinical activities in an international co-operative project through NGO at Hopital Saint Camille - Nanoro, Burkina Faso
- From Nov 08 to date – Honorary Fellow Researcher at Institute of Child Health – Surgery Unit (Dir. Prof A. Pierro) London, United Kingdom
- Jun 09 – Registration to General Medical Council – Full reg. No.7047559 (United Kingdom)
- Oct 09 –Degree of Specialist in Paediatric Surgery c/o University of Florence, Italy  
Thesis “Amniotic fluid stem cell migration after intraperitoneal injection in pup rats: implication for therapy” (Sup. Prof. A. Messineo – Co.sup. Dr. P. De Coppi)
- Jan 10 – Jan 13 PhD student at University of Florence  
PhD project outline – Human amniotic fluid stem cells can functionally differentiate along smooth muscle lineage  
(Joint project UCL (London, U.K.) – Università di Firenze (Firenze, Italy) PI – Dr. Marco Ghionzoli Supervisors – Mr.Paolo De Coppi / Prof.ssa Elisabetta Cerbai / Prof Antonio Messineo
- Apr 2016 – Qualification to hold Associate Professor position - Abilitazione Scientifica Nazionale II fascia (2016/2018 I session)
- Sep 2018 - Qualification to hold Full Professor position - Abilitazione Scientifica

## Peer reviewed publications

Pani E, Martin A, Buccoliero A, Ghionzoli M, Messineo A. Giant Ovarian Lymphangioma: Case Report and Review of the Literature. *Fetal Pediatr Pathol.* 2018 Sep 6:1-7. doi: 10.1080/15513815.2018.1502382. [Epub ahead of print] PubMed PMID: 30188242.

Carfagni M, Facchini F, Furferi R, Ghionzoli M, Governi L, Messineo A, Servi M, Uccheddu F, Volpe Y, A semi-automatic computer-aided method for personalized Vacuum Bell design, *Computer-Aided Design and Applications*, Volume 15, 2018 - Issue 2, <https://doi.org/10.1080/16864360.2017.1375676>

Carfagni M, Facchini F, Furferi R, Ghionzoli M, Governi L, Messineo A, Servi M, Uccheddu F, Volpe Y, Towards a CAD-based automatic procedure for patient specific cutting guides to assist sternal osteotomies in pectus arcuatum surgical correction, Jan 2018, *Journal of Computational Design and Engineering* <https://doi.org/10.1016/j.jcde.2018.01.001>

Uccheddu F, Ghionzoli M, Volpe Y, Servi M, Furferi R, Governi L, Facchini F, Lo Piccolo R, McGreevy KS, Martin A, Carfagni M, Messineo A. A Novel Objective Approach to the External Measurement of Pectus Excavatum Severity by Means of an Optical Device. *Ann Thorac Surg.* 2018 Jul;106(1):221-227. doi: 10.1016/j.athoracsur.2018.02.024. Epub 2018 Mar 13. PubMed PMID: 29549009.

Incerti F, Bertocchini A, Ghionzoli M, Messineo A. Ultrasound-Guided Bar Edge Labeling in the Perioperative Assessment of Nuss Bar Removal. *J Laparoendosc Adv Surg Tech A.* 2017 Dec;27(12):1326-1327. doi: 10.1089/lap.2017.0322. Epub 2017 Oct 31. PubMed PMID: 29087764.

Tocchioni F, Lombardi E, Ghionzoli M, Ciardini E, Noccioli B, Messineo A. Long-term lung function in children following lobectomy for congenital lung malformation. *J Pediatr Surg.* 2017 Dec;52(12):1891-1897. doi: 10.1016/j.jpedsurg.2017.08.059. Epub 2017 Sep 6. PubMed PMID: 28951013.

Facchini F, Ghionzoli M, Martin A, Tanini S, Ugolini S, Lo Piccolo R, Messineo A. Regenerative Surgery in the Treatment of Cosmetic Defect Following Nuss Procedure. *J Laparoendosc Adv Surg Tech A.* 2017 Jul;27(7):748-753. doi: 10.1089/lap.2016.0217. Epub 2017 Apr 26. PubMed PMID: 28445085.

Ghionzoli M, Deaconu DE, Ugolini S, Lo Piccolo R, Messineo A. Left anterolateral emergency thoracotomy during the Nuss procedure: Lifesaving shortcut. *Pediatr Int.* 2017 Jan;59(1):103-104. doi: 10.1111/ped.13033. PubMed PMID: 28102634.

Leng S, Ghionzoli M, Caporalini C, Buccoliero AM. Long-term intestinal bleeding in a child: a rare case of heterotopic gastric mucosa in the jejunum. *BMJ Case Rep.* 2016 Nov 25;2016. pii: bcr2016216949. doi: 10.1136/bcr-2016-216949. PubMed PMID: 27888219.

Tocchioni F, Tani C, Bartolini L, Moriondo M, Nieddu F, Pecile P, Azzari C, Messineo A, Ghionzoli M. The Role of DNA Amplification and Cultural Growth in Complicated Acute Appendicitis. *Pediatr Rep.* 2016 Sep 19;8(3):6487. eCollection 2016 Sep 19. PubMed PMID: 27777701; PubMed Central PMCID: PMC5066096.

Ghionzoli M, Martin A, Bongini M, Bongini U, Ciuti G, Grisotto L, Monaco V, Menciassi A, Defilippi C, Messineo A. Scoliosis and Pectus Excavatum in Adolescents: Does the Nuss Procedure Affect the Scoliotic Curvature? *J Laparoendosc Adv Surg Tech A*. 2016 Sep;26(9):734-9. doi: 10.1089/lap.2016.0168. Epub 2016 Aug 16. Review. PubMed PMID: 27529379.

Ghionzoli M, Bongini M, Piccolo RL, Martin A, Persano G, Deaconu DE, Messineo A. Role of thoracoscopy in traumatic diaphragmatic hernia. *Pediatr Int*. 2016 Jul;58(7):601-3. doi: 10.1111/ped.12887. Epub 2016 Apr 13. PubMed PMID: 27072876.

Tocchioni F, Ghionzoli M, Lo Piccolo R, Deaconu DE, Facchini F, Milanez De Campos JR, Messineo A. Sternal Cleft and Pectus Excavatum: A Combined Approach for the Correction of a Complex Anterior Chest Wall Malformation in a Teenager. *Ann Thorac Surg*. 2015 Jun;99(6):e131-5. doi: 10.1016/j.athoracsur.2015.03.050. PubMed PMID: 26046903.

Deaconu DE, Buccoliero AM, Martin A, Messineo A, Ghionzoli M. Unique case of epidermoid cyst located in the omentum. *Pediatr Int*. 2015 Aug;57(4):724-6. doi: 10.1111/ped.12576. Epub 2015 Apr 14. PubMed PMID: 25869095.

Bongini M, Tanini S, Messineo A, Facchini F, Ghionzoli M. Umbilical reconstruction in children: a simplified operative technique. *Aesthetic Plast Surg*. 2015 Jun;39(3):414-7. doi: 10.1007/s00266-015-0465-0. Epub 2015 Mar 12. PubMed PMID: 25762154.

Messineo A, Ghionzoli M, Lo Piccolo R, Milanez De Campos JR. A simplified method to pass the bar through the mediastinum in the Nuss technique. *Ann Thorac Surg*. 2015 Feb;99(2):717-8. doi: 10.1016/j.athoracsur.2014.09.072. PubMed PMID: 25639424.

Betti M, Hoseini NH, Martin A, Buccoliero A, Messineo A, Ghionzoli M. Cervical thymic cyst in childhood: a case report. *Fetal Pediatr Pathol*. 2015 Feb;34(1):65-9. doi: 10.3109/15513815.2014.966181. Epub 2014 Oct 20. PubMed PMID: 25329248.

Betti S, Ciuti G, Ricotti L, Ghionzoli M, Cavallo F, Messineo A, Menciassi A. A sensorized Nuss bar for patient-specific treatment of Pectus Excavatum. *Sensors (Basel)*. 2014 Sep 29;14(10):18096-113. doi: 10.3390/s141018096. PubMed PMID: 25268912; PubMed Central PMCID: PMC4239956.

Ricotti L, Ciuti G, Ghionzoli M, Messineo A, Menciassi A. Metal/polymer composite Nuss bar for minimally invasive bar removal after Pectus Excavatum treatment: FEM simulations. *Int J Numer Method Biomed Eng*. 2014 Dec;30(12):1530-40. doi: 10.1002/cnm.2682. Epub 2014 Sep 28. PubMed PMID: 25208771.

Buccoliero AM, Ghionzoli M, Castiglione F, Paglierani M, Baroni G, Messineo A, Taddei GL. Inflammatory myofibroblastic tumor: clinical, morphological, immunohistochemical and molecular features of a pediatric case. *Pathol Res Pract*. 2014 Dec;210(12):1152-5. doi: 10.1016/j.prp.2014.03.011. Epub 2014 Apr 8. PubMed PMID: 25149504.

Carnaghan H, Pereira S, James CP, Charlesworth PB, Ghionzoli M, Mohamed E, Cross KM, Kiely E, Patel S, Desai A, Nicolaidis K, Curry JI, Ade-Ajayi N, De Coppi P, Davenport M, David AL, Pierro A, Eaton S. Is early delivery beneficial in gastroschisis? *J Pediatr Surg*. 2014 Jun;49(6):928-33; discussion 933. doi:

10.1016/j.jpedsurg.2014.01.027. PubMed PMID: 24888837.

Persano G, Pinzauti E, Lo Piccolo R, Messineo A, Ghionzoli M. Traumatic abdominal wall hernia. *Indian J Pediatr.* 2014 Dec;81(12):1409-10. doi: 10.1007/s12098-014-1440-5. Epub 2014 Apr 30. PubMed PMID: 24777623.

Ghionzoli M, Ciuti G, Ricotti L, Tocchioni F, Lo Piccolo R, Menciassi A, Messineo A. Is a shorter bar an effective solution to avoid bar dislocation in a Nuss procedure? *Ann Thorac Surg.* 2014 Mar;97(3):1022-7. doi: 10.1016/j.athoracsur.2013.11.037. Epub 2014 Jan 28. PubMed PMID: 24480262.

Tocchioni F, Ghionzoli M, Messineo A, Romagnoli P. Pectus excavatum and heritable disorders of the connective tissue. *Pediatr Rep.* 2013 Sep 24;5(3):e15. doi: 10.4081/pr.2013.e15. Review. PubMed PMID: 24198927; PubMed Central PMCID: PMC3812532.

Tocchioni F, Ghionzoli M, Calosi L, Guasti D, Romagnoli P, Messineo A. Rib cartilage characterization in patients affected by pectus excavatum. *Anat Rec (Hoboken).* 2013 Dec;296(12):1813-20. doi: 10.1002/ar.22824. Epub 2013 Oct 29. PubMed PMID: 24170345.

Ghionzoli M, Repele A, Sartiani L, Costanzi G, Parenti A, Spinelli V, David AL, Garriboli M, Totonelli G, Tian J, Andreadis ST, Cerbai E, Mugelli A, Messineo A, Pierro A, Eaton S, De Coppi P. Human amniotic fluid stem cell differentiation smooth muscle lineage. *FASEB J.* 2013 Dec;27(12):4853-65. doi: 10.1096/fj.12-218578. Epub 2013 Aug 30. PubMed PMID: 23995291.

Zani A, Cananzi M, Fascetti-Leon F, Lauriti G, Smith VV, Bollini S, Ghionzoli M, D'Arrigo A, Pozzobon M, Piccoli M, Hicks A, Wells J, Siow B, Sebire NJ, Bishop C, Leon A, Atala A, Lythgoe MF, Pierro A, Eaton S, De Coppi P. Amniotic fluid stem cells improve survival and enhance repair of damaged intestine in necrotising enterocolitis via a COX-2 dependent mechanism. *Gut.* 2014 Feb;63(2):300-9. doi: 10.1136/gutjnl-2012-303735. Epub 2013 Mar 24. PubMed PMID: 23525603.

Ghionzoli M, Brandigi E, Messineo A, Messeri A. Pain and anxiety management in minimally invasive repair of pectus excavatum. *Korean J Pain.* 2012 Oct;25(4):267-71. doi: 10.3344/kjp.2012.25.4.267. Epub 2012 Oct 4. PubMed PMID: 23091689; PubMed Central PMCID: PMC3468805.

Pederiva F, Ghionzoli M, Pierro A, De Coppi P, Tovar JA. Amniotic fluid stem cells rescue both in vitro and in vivo growth, innervation, and motility in nitrofen-exposed hypoplastic rat lungs through paracrine effects. *Cell Transplant.* 2013;22(9):1683-94. doi: 10.3727/096368912X657756. Epub 2012 Oct 8. PubMed PMID: 23050982.

Tocchioni F, Ghionzoli M, Pepe G, Messineo A. Pectus excavatum and MASS phenotype: an unknown association. *J Laparoendosc Adv Surg Tech A.* 2012 Jun;22(5):508-13. doi: 10.1089/lap.2012.0009. Epub 2012 May 8. PubMed PMID: 22568544.

Gosemann JH, Kuebler JF, Pozzobon M, Neunaber C, Hensel JH, Ghionzoli M, de Coppi P, Ure BM, Holze G. Activation of regulatory T cells during inflammatory response is not an exclusive property of stem cells. *PLoS One.* 2012;7(4):e35512. doi: 10.1371/journal.pone.0035512. Epub 2012 Apr 23. PubMed PMID: 22539976; PubMed Central PMCID: PMC3335124.

Ghionzoli M, James CP, David AL, Shah D, Tan AW, Iskaros J, Drake DP, Curry JI, Kiely EM, Cross K, Eaton S, De Coppi P, Pierro A. Gastroschisis with intestinal atresia--predictive value of antenatal diagnosis and outcome of postnatal treatment. *J Pediatr Surg*. 2012 Feb;47(2):322-8. doi: 10.1016/j.jpedsurg.2011.11.022. PubMed PMID: 22325384.

Totonelli G, Maghsoudlou P, Garriboli M, Riegler J, Orlando G, Burns AJ, Sebire NJ, Smith VV, Fishman JM, Ghionzoli M, Turmaine M, Birchall MA, Atala A, Soker S, Lythgoe MF, Seifalian A, Pierro A, Eaton S, De Coppi P. A rat decellularized small bowel scaffold that preserves villus-crypt architecture for intestinal regeneration. *Biomaterials*. 2012 Apr;33(12):3401-10. doi: 10.1016/j.biomaterials.2012.01.012. Epub 2012 Feb 3. PubMed PMID: 22305104; PubMed Central PMCID: PMC4022101.

Bollini S, Cheung KK, Riegler J, Dong X, Smart N, Ghionzoli M, Loukogeorgakis SP, Maghsoudlou P, Dubé KN, Riley PR, Lythgoe MF, De Coppi P. Amniotic fluid stem cells are cardioprotective following acute myocardial infarction. *Stem Cells Dev*. 2011 Nov;20(11):1985-94. doi: 10.1089/scd.2010.0424. Epub 2011 Jul 8. PubMed PMID: 21534857.

Bollini S, Pozzobon M, Nobles M, Riegler J, Dong X, Piccoli M, Chiavegato A, Price AN, Ghionzoli M, Cheung KK, Cabrelle A, O'Mahoney PR, Cozzi E, Sartore S, Tinker A, Lythgoe MF, De Coppi P. In vitro and in vivo cardiomyogenic differentiation of amniotic fluid stem cells. *Stem Cell Rev*. 2011 Jun;7(2):364-80. doi: 10.1007/s12015-010-9200-z. PubMed PMID: 21120638.

Ghionzoli M, Cananzi M, Zani A, Rossi CA, Leon FF, Pierro A, Eaton S, De Coppi P. Amniotic fluid stem cell migration after intraperitoneal injection in pup rats: implication for therapy. *Pediatr Surg Int*. 2010 Jan;26(1):79-84. doi: 10.1007/s00383-009-2504-x. PubMed PMID: 19855985.

Zani A, Ghionzoli M, Lauriti G, Cananzi M, Smith VV, Pierro A, De Coppi P, Eaton S. Does intestinal permeability lead to organ failure in experimental necrotizing enterocolitis? *Pediatr Surg Int*. 2010 Jan;26(1):85-9. doi: 10.1007/s00383-009-2507-7. PubMed PMID: 19855983.

Pozzobon M, Ghionzoli M, De Coppi P. ES, iPS, MSC, and AFS cells. Stem cells exploitation for Pediatric Surgery: current research and perspective. *Pediatr Surg Int*. 2010 Jan;26(1):3-10. doi: 10.1007/s00383-009-2478-8. Epub 2009 Sep 1. Review. PubMed PMID: 19727766.

Spinelli C, Ghionzoli M, Costanzo S, Pistolesi F, Massart F. Acute respiratory distress for late-presenting congenital diaphragmatic hernia. *Turk J Pediatr*. 2008 Sep-Oct;50(5):480-4. PubMed PMID: 19102055.

## **Active participation to conferences and workshops**

As speaker - Rimozione della barra di Nuss nell'intervento correttivo per pectus excavatum: La nostra esperienza. Ghionzoli M, Lo Piccolo R, Morelli C, Martin A, Messineo A. XXXVIII Congresso Nazionale SICP, 27 – 29 settembre 2007, Firenze from 27-09-2007 to 29-09-2007

As speaker - Rat amniotic fluid stem cells respond to lipopolysaccharide increasing the production of Vegfa, Fgf2 and Tgfb1. Ghionzoli M, Funakova M, Lauriti G, Zani A, Pierro A, Eaton S, De Coppi P, Cananzi M. ISSCR 7th Annual Meeting July 8-11, 2009 - Centre Convencions Internacional - Barcelona, Spain  
from 08-06-2009 to 11-06-2009

As speaker - Stem Cell Migration After Intraperitoneal Injection In A Rat Model Of Necrotising Enterocolitis: Implication For Therapy. Ghionzoli M, Totonelli G, Lauriti G, Zani A, Pierro A, Eaton S, De Coppi P, Cananzi M (London, UK) – Prize session - The 22nd International Symposium on Paediatric Surgical Research, 16-17 Sep 2009, Genoa, Italy  
from 16-09-2009 to 17-09-2009

As speaker - In Vitro Enhanced Transcriptional Plasticity Of Amniotic Fluid Stem Cells Cultured In Presence of Lipopolysaccharide. Ghionzoli M, Cananzi M, Lauriti G, Zani A, Pierro A, Eaton S, De Coppi P (London, UK) 22nd International Symposium on Paediatric Surgical Research, 16-17 Sep 2009, Genoa, Italy  
from 16-09-2009 to 17-09-2009

As speaker – “New trends & ideas in the field of Paediatric Surgical Research” meeting,  
Firenze, Dec 4, 2009.  
from 04-12-2009 to 04-12-2009

As speaker - Amniotic Fluid Stem Cells express Lgr5 marker of putative intestinal stem cells and may act via TLR4 receptor. M Ghionzoli, G Totonelli, M Cananzi, G Lauriti, CA Rossi, A Zani, A Pierro, S Eaton, P De Coppi. – Young investigator award session - EUPSA ; Jun 2-5, 2010; Berne, Switzerland  
from 02-06-2010 to 05-06-2010

As speaker - lecture on “Congenital malformations in human” at AVSTS Meeting, Oct 1-2, 2010, Cambridge, UK  
from 01-10-2010 to 02-10-2010

As speaker – lecture on “Postnatal management of OA and CDH” - Advanced Ultrasound Course (Prof. Kypros Nicolaides) – FMF Course at Imperial College, London Nov 6-7 2010  
from 06-11-2010 to 07-11-2010

As speaker – Primo incontro sulla Ricerca Farmacologica in Pediatria – Firenze , 20 Dec 2010  
from 20-12-2010 to 20-12-2010

As speaker - Amniotic fluid stem cells differentiate steadily along a mesodermal lineage and are sensitive to mitogenic stimulation. Ghionzoli M, Repele A, Parenti A, Paccosi S, Musilli C, Sartiani L, Spinelli V, Shaw SW, Totonelli G, Garriboli M, Cerbai E, Mugelli A, Eaton S, Pierro A, Messineo A, De Coppi P – UKSCN – 30th March-1st April 2011 – York, United Kingdom  
from 30-03-2011 to 01-04-2011

As speaker - Amniotic fluid stem cells can functionally differentiate along smooth muscle lineage - potential for regenerative medicine. Ghionzoli M, Costanzi G, Shaw SW, Totonelli G, Garriboli M, Repele A, Andreadis ST, Messineo A, Eaton S, Pierro A, De Coppi P – APSA 2011 – Palm Springs, CA  
from 22-05-2011 to 25-05-2011

As speaker - Human amniotic fluid stem cells can functionally differentiate along smooth muscle lineage. Ghionzoli M, Repele, A, Garriboli, M, Totonelli, G, Sartiani, L, Parenti, A, Cerbai, E, Andreadis, ST, Mugelli, A, Eaton, S, Pierro, A, Messineo, A, De Coppi, P – ISSCR 15-18 Jun 2011, Toronto  
from 15-06-2011 to 18-06-2011

As speaker - Gastroschisis: termination of pregnancy and neonatal outcome. Ghionzoli M, Shah D, James C, David AL, Kiely EM, Curry JI, De Coppi P, Cross KC, Pierro A – EUPSA 2011 – Barcelona, Spain  
from 15-06-2011 to 18-06-2011

As speaker - Functional fingerprint of smooth muscle cells derived from amniotic fluid stem cells. Ghionzoli M, Sartiani L, Costanzi G, Parenti A, Repele A, Spinelli V, Paccosi S, Shaw SW, Totonelli G, Garriboli M, Eddaoudi A, Andreadis ST, Cerbai E, Mugelli A, Eaton S, Pierro A, Messineo A, De Coppi P – EUPSA 2011 – Barcelona, Spain  
from 15-06-2011 to 18-06-2011

As speaker - Gastroschisis with intestinal atresia – predictive value of antenatal diagnosis and outcome of postnatal treatment Ghionzoli M, James CP, David AL, Shah D, Tan AWC, Iskaros J, Drake DP, Curry JI, Kiely EM, Cross K, Eaton S, De Coppi P, Pierro A. – BAPS 2011 – Belfast, UK  
from 19-07-2011 to 22-07-2011

As speaker – lecture on “Pectus Excavatum”. Strategies and Trends in European Pediatric Surgery (STEPS) 2011 6-8th October Florence, Italy  
from 06-10-2011 to 08-10-2011

As speaker - Structural characterisation of Pectus Excavatum and clinical correlation. F Tocchioni, C Morelli, A Mariani, R Lo Piccolo, A Martin, D Guasti, L Calosi, M Ghionzoli, P Romagnoli, A Messineo. June 13th-16th EUPSA/BAPS 2012, Rome  
from 13-06-2012 to 16-06-2012

As speaker: “a clinical case” – SBS session. GastroPED, 7-8 Feb 2013, Firenze  
from 07-02-2013 to 08-02-2013

As speaker - Does DNA amplification represent an alternative to cultural growth of peritoneal fluid samples in complicated acute appendicitis? A Senzi, F Tocchioni, A Mariani, C Tani, L Bartolini, P Pecile, C Azzari, M Ghionzoli, A Messineo. EUPSA June, 5th-8th 2013, Leipzig, Germany  
from 05-06-2013 to 08-06-2013

As speaker - Metal-polymer composite Nuss bar for “minimally” invasive bar removal after Pectus Excavatum treatment. L Ricotti, G Ciuti, M Ghionzoli, A Menciasci, A Messineo, IPEG/BAPS Conjoined Conference, Edinburgh Jun 22nd-25th 2014.  
from 22-06-2014 to 25-06-2014

As speaker - Left anterolateral emergency thoracotomy in a near fatal complication during the Nuss procedure: a lifesaving shortcut. Ghionzoli M, Lo Piccolo R, Facchini F, Martin A, Messineo A. - EUPSA Ljubljana – Slovenia 17-20th June 2015  
from 17-06-2015 to 20-06-2015

As speaker - "Long term lung function outcome in children following lobectomy for congenital lung malformation" - F Tocchioni, M Ghionzoli, E Lombardi, B Noccioli, A Messineo - PAPS 50<sup>th</sup> Meeting -Seattle  
from 28-05-2017 to 01-06-2017

As speaker - "3D MIRPE - Our experience" - M Ghionzoli, F Facchini, A Messineo 18th CWIG Meeting 2017 Florence  
from 14-06-2017 to 16-06-2017

As speaker – “Evaluation of PE by means of 3D optical scanner: an evolving appraisal” – M Ghionzoli F Facchini A Messineo 19<sup>th</sup> CWIG Meeting 2018 Seoul  
from 13-06-2018 to 15-06-2018

## **National/International Research group participation**



F Pederiva - J Tovar (Hospital Universitario La Paz - Madrid) M Ghionzoli - P De Coppi (UCL - London) Research on paracrine effects of amniotic fluid stem cells in rat CDH model (Nitrofen)  
from 04-03-2009 to 27-08-2012

CP James - David A (University College London Hospital - Fetal Unit - London) Laap C – Pistorius L (UMC Utrecht) M Ghionzoli - H Carnaghan - A Pierro (Great Ormond Street Hospital, London)  
Research on fetal ultrasound markers to predict neonatal gastroschisis outcome  
from 16-04-2009 to 16-01-2014

J Tian - ST Andreadis (New York University, Buffalo) Acquisition of Zs-green/Zs-red transduced h-AFS cells under aSMA and MHC gene promoters  
L Sartiani - A Mugelli (UniFI) Electrophysiological fingerprint of transduced h-AFS cells driven towards smooth muscle lineage (SMhAFS cells)  
M Ghionzoli - P De Coppi (UCL - London) Use of differentiation protocols and functional assays of differentiated SMhAFS cells  
from 01-01-2010 to 30-08-2013

JH Gosemann - B Ure (MH-Hannover) M Ghionzoli - P De Coppi (UCL-London) Research study on T-Reg cells activation during inflammatory response in wild type mice (C3H-HeN)  
from 26-02-2010 to 06-12-2011

G Ciuti - L Ricotti - A Menciassi (The BioRobotic Institute - SSSUP) M Ghionzoli - A Messineo (Meyer Children Hospital - UniFI) Research on biomechanical parameters involved in surgical and non surgical anterior chest wall deformities correction  
from 24-04-2012 to date

M Ghionzoli - Prof A Messineo (Pediatric Surgery - Meyer) Prof A Mugelli - L Raimondi – L Sartiani (Pharmacology - UniFI) Characterization of satellite cells derived from skeletal muscle at different age  
from 01-01-2014 to date

M Ghionzoli - K McGreevy - A Messineo (Meyer Children Hospital - UniFI) F Uccheddu - Y Volpe - M Carfagni (Mechanical Engineering Dept - UniFI) T3ddy - Personalized paediatrics by integrating advanced 3D technology for customized medical devices and surgical training and simulation  
from 19-10-2015 to date

## Book chapters

La linfadenectomia cervicale nelle metastasi da CDT” in Tumefazioni e malformazioni del collo  
in età pediatrica – diagnosi, terapia medica e chirurgica. Spinelli C. Ed. Piccin mag 2006

"Principi di Chirurgia Pediatrica e Infantile", Spinelli C. Ed. Aracne set 2011

"Pectus Deformities" - in Operative Thoracic Surgery, Sixth Edition  
Larry R. Kaiser, Glyn Jamieson, Sarah K. Thompson - December 11, 2017 by CRC Press Reference - 462 Pages - 720 Color Illustrations  
ISBN 9781482299571 - CAT# K24473

## Patents

PI2013A000090

"Apparato per la correzione della patologia del Pectus Excavatum" "Device for the correction of Pectus Excavatum"  
Brevetto Internazionale - PCT

from 16-10-2013 to date

PI2013A000089

"Sistema per il monitoraggio del carico agente su un impianto protesico" "Monitoring device for loads acting on a prosthetic implant"

from 16-10-2013 to date

102016000102713

"Coppa aspirante personalizzata per il trattamento non chirurgico del pectus excavatum"

from 13-10-2016 to date

Sincerely

Marco Ghionzoli  


