

MARCO SPADA MD, PhD, FEBS
CURRICULUM VITAE

Born in Pavia, Italy, on February 4th, 1966.

Home Address: Via Ambrogio Traversari, 58 - 00152 Rome, Italy

Business Address: Division of Hepatobiliopancreatic Surgery, Liver and Kidney Transplantation; Bambino Gesù Children's Hospital, IRCCS; Piazza Sant'Onofrio 4, 00165 Rome, Italy.

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Education and Training

- 1985 High school degree, Liceo Scientifico "T. Taramelli", Pavia, Italy.
- 1990 Degree cum laude in Medicine, University of Pavia School of Medicine, Italy.
- 1990 – 1993 Residency in General Surgery, University of Pavia School of Medicine, Italy.
- 1994 – 1998 Doctorate in Microsurgery and Experimental Surgery, University of Pavia School of Medicine, Italy.
- 2013 – 2014 II Level Master, Advanced Hepato-Pancreatic and Transplantation Robotic Surgery, University of Pisa, Italy.

Academic Appointments

- 1995 Connoisseur on General Surgery, University of Pavia School of Medicine, Italy.
- 1997 – 1998 Assistant Professor of Surgery, Department of Surgery, University of Pavia second School of Medicine in Varese, Italy.
- 2004 – 2016 Associate Professor of Surgery, University of Pittsburgh Medical Center, Pittsburgh PA, USA.
- 2014 – Now Professor on annual contract, Specialization School of General Surgery, University of Pavia School of Medicine.
- 2014 – Now Fellow of the European Board of Surgery, Division of Transplantation.

Teaching Activity

- 1994 – 1997 Seminars, Post Graduate School of Microsurgery and Experimental Surgery, University of Pavia School of Medicine, Italy.
- 1994 – 1997 Seminars, Post Graduate School of Emergency Surgery, University of Pavia School of Medicine, Italy.
- 2003 – 2004 Professor on annual contract, Master in Transplantation Medicine and Surgery. University of Milan-Bicocca School of Medicine, Italy.
- 2004 – 2016 Associate Professor of Surgery, University of Pittsburgh Medical Center, Pittsburgh PA, USA.
- 2014 – Now Professor on annual contract, Graduate School of General Surgery, University of Pavia School of Medicine, Italy.

Non-academic Appointments

- 1995 – 1996 Research Fellow, Instructor in surgery, Thomas E. Starzl Transplantation Institute, University of Pittsburgh, PA, USA.
- 1998 – 2003 Attending Surgeon, Ospedali Riuniti of Bergamo, III Division of General Surgery and Liver Transplantation, Italy.
- 2004 – 2016 Attending surgeon, Department of Abdominal Surgery, Istituto Mediterraneo per i Trapianti e Terapie ad Alta Specializzazione (ISMETT) of Palermo, UPMC, Italy.
- 2008 – 2016 Director, Pediatric Abdominal Transplantation Program, Istituto Mediterraneo per i Trapianti e Terapie ad Alta Specializzazione (ISMETT) of Palermo, UPMC, Italy.
- 2011 – 2016 Director, Adult Abdominal Surgery and Transplantation Program, Istituto Mediterraneo per i Trapianti e Terapie ad Alta Specializzazione (ISMETT) of Palermo, UPMC, Italy.
- 2013 – 2015 Elected member of the Board of the Italian Society for Organ Transplantation (SITO) with Treasurer duties (2014 and Secretary duties (2015) .
- 2016 – Now Director, Division of Hepatobiliopancreatic Surgery, Liver and Kidney Transplantation, Bambino Gesù Children's Hospital, Rome, Italy.

Surgical Activity

Performed more than 4000 surgical procedures in transplantation, general, thoracic, endocrine and emergency surgery and holds a large experience in laparoscopic and thoracoscopic surgery.

Main field of surgical activity: adult and pediatric liver transplantation; surgical treatment of liver, bile duct and pancreas tumor; laparoscopic and robotic liver, pancreas and bile duct surgery; surgical treatment of portal hypertension and short gut syndrome in children.

Publications

Author of more than 450 publications on international and national journals, such as: American Journal of Transplantation, Transplantation, Liver Transplantation, Transplantation Proceedings, International Journal of Artificial Organs, Intensive Care Medicine, The Italian Journal of Gastroenterology, Hepatogastroenterology.

Citation metrics from Scopus

- Articles with citation: 313
- Sum of times cited: 4776
- H-index: 31

Membership in Scientific and Professional Societies

European Society Organ Transplantation, American Society of Transplant Surgeon, International Liver Transplantation Society, International Pediatric Transplant Association, European Society of Artificial Organs, European Society for Surgical Research, Academic Departments of Surgery in Europe, European Society of Parenteral and Enteral Nutrition, Società Italiana di Trapianti d'Organo, Società Italiana di Nutrizione Parenterale ed Enterale.

Reviewer activity

Liver Transplantation, Clinical Transplantation, American Journal of Transplantation, Transplant International, Clinical Anatomy, Indian Pediatrics, European Journal of Internal Medicine, Pediatric Reports, Pediatrics, Pediatric Transplantation, Mount Sinai Journal of Medicine, Clinical Research in Hepatology and Gastroenterology, Digestive and Liver Disease, Hepatobiliary & Pancreatic Disease International, Annals of Transplantation, BioMed Research International, Journal of Critical Care, Journal of Investigative Surgery, Oncotarget.

Main clinical interests

- Pediatric liver and kidney transplantation.
- Living donor liver and kidney transplantation.
- Hepato-biliary-pancreatic surgery, with special interest in the development of new technologies for hepatic resection: ex-vivo surgery, liver autotransplantation.
- Laparoscopic and robotic surgery in hepatobiliopancreatic and transplantation surgery.
- Partial liver transplantation.
- Infections after solid organ transplantation.

Main research interests

- New immunosuppressive protocol for pediatric and adult liver transplantation.
- Ex-vivo solid organ perfusion in transplantation.
- Monitoring, prophylaxis and innovative therapies of EBV infection after solid organ transplantation.
- Histopathology, immunogenetics and therapy of "de novo" autoimmunity after solid organ transplantation.
- Surgical techniques and allocation systems of livers from cadaver organ donors to increase grafts availability.
- Genetics and cholestasis.
- Use of biodegradable materials in surgery.
- Use of regenerative medicine in the treatment of acute and chronic organ failure.

Selected publications

1. Angelico R, **Spada M**, Liccardo D, Pedini D, Grimaldi C, Pietrobattista A, Basso MS, Della Corte C, Mosca A, Saffioti MC, Alaggio R, Maggiore G, Candusso M, Francalanci P. Allograft Fibrosis After Pediatric Liver Transplantation: Incidence, Risk Factors, and Evolution. *Liver Transplant*. 2021 Jun 23. doi: 10.1002/lt.26218. Online ahead of print.
2. **Spada M**, Angelico R, Grimaldi C, Francalanci P, Saffioti MC, Rigamonti A, Pariante R, Bianchi R, Dionisi Vidi C, Candusso M, Maggiore M. The New Horizon of Split-Liver Transplantation: Ex Situ Liver Splitting During Hypothermic Oxygenated Machine Perfusion. *Liver Transplant*. 2020; 26: 1363-67. doi: 10.1002/lt.25843
3. Angelico R, Trapani S, **Spada M**, Colledan M, de Ville de Goyet J, Salizzoni M, De Carlis L, Andorno E, Gruttadauria S, Ettorre GM, Cescon M, Rossi G, Risaliti A, Tisone G, Tedeschi U, Vivarelli M, Agnes S, De Simone P, Lupo LG, Di Benedetto F, Santaniello W, Zamboni F, Mazzaferro V, Rossi M, Puoti F, Camagni S, Grimaldi C, Gringeri E, Rizzato L, Nanni Costa A, Cillo U. A national mandatory-split liver policy: A report from the Italian experience. *Am J Transplant*. 2019 Feb 12. doi: 10.1111/ajt.15300
4. Angelico R, Grimaldi C, Saffioti MC, Castellano A, **Spada M**. Hepatocellular carcinoma in children: hepatic resection and liver transplantation. *Transl Gastroenterol Hepatol*. 2018; 10: 59.
5. Angelico R, Perera MTPR, Manzia TM, Parente A, Grimaldi C, **Spada M**. Donation after Circulatory Death in Paediatric Liver Transplantation: Current Status and Future Perspectives in the Machine Perfusion Era. *Biomed Res Int*. 2018; 18: 1756069.
6. Angelico R, Trapani S, Colledan M, Cillo U, De Feo TM, **Spada M**. Higher retransplantation rate following extended right split-liver transplantation: An analysis from the Eurotransplant liver follow-up registry. *Liver Transpl*. 2018; 24: 849.
7. Angelico R, Passariello A, Pilato M, Cozzolino T, Piazza M, Miraglia R, D'Angelo P, Capasso M, Saffioti MC, Alberti D, **Spada M**. Ante situm liver resection with inferior vena cava replacement under hypothermic

- cardiopulmonary bypass for hepatoblastoma: Report of a case and review of the literature. *Int J Surg Case Rep.* 2017; 37: 90.
8. Ross MW, Cescon M, Angelico R, Andorno E, Rossi G, Pinna A, De Carlis L, Baccarani U, Cillo U, Colledan M, Mazzaferro V, Tisone G, Rossi M, Tuzzolino F, Pagano D, Gruttadauria S, Mazariegos G, Gridelli B, **Spada M**. A matched pair analysis of multicenter long term follow-up after split-liver transplantation with extended right grafts. *Liver Transpl.* 2017; 23: 1384.
 9. Lauterio A, Di Sandro S, Gruttadauria S, **Spada M**, Di Benedetto F, Baccarani U, Regalia E, Melada E, Giacomoni A, Cescon M, Cintonino D, Ercolani G, Rota M, Rossi G, Mazzaferro V, Risaliti A, Pinna AD, Gridelli B, De Carlis L. Donor safety in living donor liver donation: An Italian multicenter survey. *Liver Transpl.* 2017; 23: 184.
 10. Cillo U, Burra P, Mazzaferro V, Belli L, Pinna AD, **Spada M**, Nanni Costa A, Toniutto P; I-BELT (Italian Board of Experts in the Field of Liver Transplantation). A Multistep, Consensus-Based Approach to Organ Allocation in Liver Transplantation: Toward a "Blended Principle Model". *Am J Transplant.* 2015; 15: 2552-61.
 11. Pietrosi G, Vizzini G, Gerlach J, Chinnici C, Luca A, Amico G, D'Amato M, Conaldi PG, Li Petri S, **Spada M**, Tuzzolino F, Alio L, Schmelzer E, Gridelli B.. Phases I-II Matched Case-Control Study of Human Fetal Liver Cell Transplantation for Treatment of Chronic Liver Disease. *Cell Transplant.* 2015; 24: 1627-38.
 12. **Spada M**, Riva S, Maggiore G, Cintonino D, Gridelli B.. Pediatric liver transplantation. *World J Gastroenterol.* 2009; 15: 648-74.
 13. **Spada M**, Petz W, Bertani A, Riva S, Sonzogni A, Giovannelli M, Torri E, Torre G, Colledan M, Gridelli B. Randomized trial of basiliximab induction versus steroid therapy in pediatric liver allograft recipients under tacrolimus immunosuppression. *Am J Transplant* 2006; 6: 1913-21.
 14. **Spada M**, Gridelli B, Colledan M, Segalin A, Lucianetti A, Petz W, Riva S, Torre G. Extensive use of liver for pediatric liver transplantation a single center experience. *Liver Transplant* 2000; 6: 415-428.
 15. **Spada M**, Riva S, Maggiore G, Cintonino D, Gridelli B. Pediatric liver transplantation. *World J Gastroenterol.* 2009;15:648-74. Review.
 16. Gruttadauria S, di Francesco F, **Spada M**. Fifty-six-month survival after liver transplantation in a patient with more than one-hundred hepatocellular carcinoma nodules. *Transpl Int.* 2012;25:101-3.
 17. Cescon M, **Spada M**, Colledan M, Torre G, Andorno E, Valente U, Rossi G, Reggiani P, Cillo U, Baccarani U, Grazi GL, Tisone G, Filippini F, Rossi M, Ettore GM, Salizzoni M, Cuomo O, De Feo T, Gridelli B. Feasibility and limits of split liver transplantation from pediatric donors. An Italian multicenter experience. *Ann Surg* 2006; 244: 805-814.
 18. Cescon M, **Spada M**, Colledan M, Andorno E, Valente U, Rossi G, Reggiani P, Grazi GL, Tisone G, Majno P, Rogiers X, Lopez Santamaria M, Baccarani U, Ettore GM, Cillo U, Rossi M, Scalamogna M, Gridelli B. Liver transplantation with pediatric donors: A multicenter experience. *Transplantation* 2005; 79: 1148-1153.
 19. Gridelli B, **Spada M**, Petz W, Bertani A, Lucianetti A, Colledan M, Altobelli M, Alberti D, Guizzetti M, Riva S, Melzi M, Stroppa P, Torre G. Split liver transplantation eliminates the need for living donor liver transplantation in children with end stage cholestatic liver disease. *Transplantation* 2003; 75: 1197-1203.
 20. The Banff Working Group. Liver biopsy interpretation for causes of late liver allograft dysfunction. *Hepatology* 2006; 44: 489-501.

Personal data

Married, with three children.

Sport activities: tennis, sailing.

Rome, October 21st, 2021

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