

Bologna 02-02-2026

Matteo Ravaioli

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Links:

<https://www.topdoctors.it/dottor/matteo-ravaioli>;

<https://tumoritrapiantisecondopinion.it>

<https://www.youtube.com/watch?v=2ou1-AO67C4>

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Nationality: Italian

Date of birth: 11-10-1974

Education and Academic Career

Degree in Medicine and Surgery

obtained at Alma Mater Studiorum – University of Bologna

grade 110/110 cum laude on 15/07/1999

Specialization in General Surgery

obtained at Alma Mater Studiorum – University of Bologna

grade 70/70 cum laude on 08/11/2005

PhD in Gastroenterological and Transplant Medical-Surgical Sciences

obtained at Alma Mater Studiorum – University of Bologna

on 09/11/2009

Registration with the Medical Association of Rimini n. position 01439, registration date 04/07/2000

Institution / Organization: Alma Mater Studiorum – University of Bologna

From 2019 to present

Functional position and discipline: Associate Professor, Department of Medical and Surgical Sciences, Scientific-Disciplinary Sector: MEDS-06/A General Surgery

Institution: IRCCS Azienda Ospedaliero-Universitaria di Bologna

From 15/08/2010 to present

Functional position and discipline: Medical Director of General Surgery

Institution: Ospedale Infermi di Rimini – Dir. Dr. G. Francioni

From 21/09/2009 to 14/08/2010

Functional position and discipline: Medical Director of General Surgery

Institution: AOU di Bologna, Policlinico S.Orsola Malpighi – Dir. Prof. A. D. Pinna

From 2004 to 2008

Functional position and discipline: Medical Director of General Surgery

Institutional, Academic and Coordination Activities

Start date 2024

End date present

Institution: IRCCS, Azienda Ospedaliero-Universitaria di Bologna

Type of position: Head of the organ perfusion and regeneration platform – RESTORE (Research on Cell, Tissue, and Organ Regeneration), created to establish synergy between clinical units operating in perfusion and organ transplantation at the IRCCS Policlinico Sant'Orsola and basic, translational, and multidisciplinary scientific research units in cellular and molecular biology and cellular and tissue regeneration at the University of Bologna, aiming to develop translational research in perfusion, regeneration, and organ transplantation supporting patient care and research in transplantation and critically ill patients, one of the two disciplines for which the Policlinico Sant'Orsola is accredited as IRCCS

Start date 2023

End date present

Institution: IRCCS, Azienda Ospedaliero-Universitaria di Bologna

Type of position: Head of research lines

Start date 2023

End date present

Institution: IRCCS, Azienda Ospedaliero-Universitaria di Bologna

Type of position: Member of the Clinical Trial Quality Team (CTQT)

Start date 31/08/2020

End date present

Institution: IRCCS, Azienda Ospedaliero-Universitaria di Bologna

Type of position: Head of the departmental program “Abdominal Surgery in End-Stage Organ Failure and in Organ Transplant Patients”

Start date 2014

End date present

Institution: IRCCS, Azienda Ospedaliero-Universitaria di Bologna

Type of position: Surgical head of the kidney transplant program

Scientific Activity

H-index 61 according to Scopus (updated 02/02/2026) from 392 documents and 13,734 citations

ORCID: 0000-0001-5862-6151

SCOPUS: 57211633216

WEB OF SCIENCE RESEARCHERID: D-6314-2016

Project: Hypothermic Oxygenated Perfusion To Reduce Tumour Recurrence After Liver Transplantation In Patients With Hepatocarcinoma

Role in project: Principal investigator, coordination and management

Funded by: PNRR, 2022

Research institute providing the grant: IRCCS Azienda Ospedaliero-Universitaria di Bologna

Funds received (EUR): 996,772.00

Project: Use of ex-vivo perfusion in patients with hepatocarcinoma candidates for liver transplantation to reduce tumor recurrence.

Role in project: Principal investigator, coordination and management

Funded by: Fondazione Cassa Risparmio in Bologna

Research institute providing the grant: University of Bologna

Funds received (EUR): 8,000.00

Project: Strategies for regeneration and reconditioning of marginal organs, liver and kidney, for transplantation. Drug-free interventional study.

Role in project: Principal investigator, coordination and management

Funded by: Ministry of Health, Finalized Research 2016

Research institute providing the grant: Azienda Ospedaliero-Universitaria di Bologna

Funds received (EUR): 434,025.00

Project: Innovative applications of extracellular vesicles derived from mesenchymal stem cells for kidney reconditioning for transplantation.

Role in project: Principal investigator, coordination and management

Funded by: Fondazione Cassa Risparmio in Bologna, 2020

Research institute providing the grant: University of Bologna

Funds received (EUR): 20,000.00

Project: "Use of perfusion fluids for graft preservation."

Project: "Innovative strategies for pre-transplant organ preservation: development of a perfusion machine under hypothermia, normothermia, and normobaric/hyperbaric oxygenation."

Role in project: Principal investigator, coordination and management

Funded by: Emilia Romagna Region, Modernization Fund

Research institute providing the grant: Azienda Ospedaliero-Universitaria di Bologna

Funds received (EUR): 100,000.00

Project: "Molecular classification of hepatocellular carcinoma to select the most appropriate surgical treatment: liver transplantation or liver resection."

Role in project: Principal investigator, coordination and management

Funded by: Emilia Romagna Region, Region-University Research Program – Young Researchers Grant

Research institute providing the grant: Azienda Ospedaliero-Universitaria di Bologna

Funds received (EUR): 196,350.00

Organization, Direction, and Coordination of International Research Centers and/or Groups:

- Organizer of the international event "ORGAN TRANSPLANTATION FROM DCD AND THE MANAGEMENT OF MULTIPLE ORGANS FAILURE INCLUDING REGENERATIVE MEDICINE," held in Bologna on December 1–2, 2023 at Aemilia Hotel
- Organizer of the international event "SISQT 2025 – National Congress of the Italian Society for Transplant Safety and Quality," held in Bologna on December 11–13, 2025

Participation in National Research Centers and/or Groups:

Project: "A new acellular solution for reconditioning organs for transplantation during ex-vivo perfusion (Uni-recondition)"

Role in project: Team member

Funded by: PR FESR 2021–2027

Research institute providing the grant: IRCCS Azienda Ospedaliero-Universitaria di Bologna

Funds received (EUR): 413,300.00

Project: "Hepatic preconditioning: molecular mechanisms responsible for tolerance induction to ischemia-reperfusion and clinical applications in liver resection and transplantation"

Role in project: Team member

Funded by: PRIN, 2004

Research institute providing the grant: University of Bologna
Funds received (EUR): 14,000.00

Project: “Identification of circulating biomarkers for patient allocation to the best treatment in hepatocellular carcinoma”

Role in project: Team member

Funded by: AIRC Foundation, IG2020

Research institute providing the grant: University of Bologna

Project: “Comparison between hypothermic oxygenated perfusion and standard hypothermic preservation for organs from marginal donors. Study with medical device.”

Role in project: Team member

Funded by: Fondazione del Monte

Research institute providing the grant: University of Bologna

Funds received (EUR): 30,000.00

Project: “Immunological, virological, and oncological follow-up of liver recipients”

Role in project: Team member

Funded by: Emilia Romagna Region, Region-University Research Program

Research institute providing the grant: Azienda Ospedaliero-Universitaria di Bologna

Participation in International Research Centers and/or Groups:

Project: “The innate immune reaction to invasive infection in human organs”

Role in project: Team member

Funded by: PRIN 2022, project P2022M8KYE

Research institute providing the grant: IRCCS Azienda Ospedaliero-Universitaria di Bologna

Funds received (EUR): 239,297.00

Project: “International, Multicenter, Prospective, Non-competitive, Observational study to Validate and Optimize prediction models of 90-day and 1-year allograft failure after liver transplantation: The IMPROVEMENT study”

Project: “Tissue Models for Liver Disease (TIMOLD)”

Role in project: Team member

Participation in Editorial Boards and/or Reviewer:

Gastrointestinal Cancers: Hepato Pancreatic Biliary Cancers (specialty section of Frontiers in Oncology)

Gastroenterology and Hepatology

Clinical Transplantation

Transplantation

Liver Transplantation

American Journal of Transplantation

Trends in Oncology

Digestive and Liver Disease

Journal of Hepatology

Expert Review of Anticancer Therapy

Journal of Transplantation

Journal of the American College of Surgeons

Journal of Gastrointestinal and Liver Diseases

Journal of Clinical Oncology

Expert Review of Gastroenterology & Hepatology
Surgical Science
Scientist Report
Nature Reviews Gastroenterology and Hepatology
Updates in Surgery
PLOS ONE

National Awards and Recognitions:

2023 – Iano Planco D'Oro Award – Order of Physicians for significant service and contribution to Rimini healthcare, promoting ethical medical principles.
2021 – Melvin Jones Fellow Award – Lions Club Rimini
2021 – Livio Minguzzi Award – Rotary Rimini
2006 – F. Mazzeo Award for the best scientific work presented at the XXIII S.I.P.A.D. National Congress

International Awards and Recognitions:

2021 – HBSN Outstanding Reviewer 2021 – In recognition of detailed and valuable review comments to Hepatobiliary Surgery and Nutrition

Clinical Activity

Prof. Ravaioli performed 5028 surgeries from 2010 to 2025. The most frequent procedures were: liver transplants (725), kidney transplants (983, including 318 from living donors), liver resections (892), nephrectomies (719).

Teaching Activities

At degree programs, specializations, or healthcare training schools:

Since 2003, he has tutored medical and surgery students, nursing students, clinical surgery trainees, and evaluated candidates for the medical licensing exam.

Since 2016, he has continuously taught various courses for Medicine and Surgery degrees and for specializations in Microbiology and Virology, General Surgery, Forensic Medicine, Nephrology.

Supplementary Teaching Activities:

Master's Theses

- 2022/2023: Single-cycle Master's Thesis: "Hypothermic oxygenated perfusion in kidney transplantation: evaluation of outcomes and prognostic factors of graft function" – Supervisor
- 2020/2021: Single-cycle Master's Thesis: "Hypothermic oxygenated perfusion during liver transplantation to reduce tumor recurrence in hepatocarcinoma patients" – Supervisor
- 2019/2020: Single-cycle Master's Thesis: "Perfusion in liver and kidney transplantation" – Supervisor
- 2016/2017: Single-cycle Master's Thesis: "Combined surgical approach to synchronous liver metastases from colorectal cancer: impact of major liver resections and rectal resections" – Supervisor

Doctoral/Specialization Theses

- 2026–2027 Specialization Thesis: "Robotic Nephrectomy Using the HUGO™ RAS System in Renal Transplant Candidates" – Supervisor
- 2021–2022 Specialization Thesis: "Renal outcomes of kidney-liver transplantation and liver transplantation in ADPKD patients" – Co-supervisor

- 2021/2022 Specialization Thesis: “Liver transplantation from elderly donors after cardiac death confirmation: pilot study in the Italian clinical and legal context” – Supervisor
- 2019–2020 Specialization Thesis: “Single-center experience of hypothermic oxygenated perfusion as reconditioning treatment in liver and kidney transplantation” – Supervisor

Invited Speaker and/or Scientific Studies Presentation at National and International Conferences:

From 2005 to present, he has participated as invited speaker at several national and international congresses.

Previous National Qualifications:

- National qualification: Full Professor in the Competition Sector 06/C1 – GENERAL SURGERY.
Organizing Body / Location: Ministry of University and Research
Date(s) of examination: The qualification is valid for eleven years from 04/04/2017 and expires on 04/04/2028. Grade: Qualified
- National qualification: Associate Professor in General Surgery
Organizing Body / Location: Ministry of University and Research
Date(s) of examination: 2012 Grade: Qualified

Author and co-author of more than 300 scientific publications from 2001 to present.