

CURRICULUM VITAE ET STUDIORUM

ALBERTO AREZZO

Profile

General Surgeon and Digestive Endoscopists for operative procedures, mainly dedicated to clinical activity, with an academic role and involved in several research projects sponsored by the European Commission and companies.

1. PERSONAL DATA:

Arezzo, Alberto - [REDACTED], Italian,
Professional address: Department of Surgical Sciences, University of Torino
Written and spoken languages: English, French, German, Italian

2. PRESENT POSITION:

Associate Professor of Surgery at the Unit of General Surgery I, Department of Surgical Sciences, the University of Torino since 2014.

He dedicates 20% of his working time to teaching, 20% to research, 55% to clinical work, and 5% to administration.

3. DIPLOMAS:

27.10.1997, Specialist Certification in General Surgery, University of Genova, Italy & University of Tuebingen, Germany, 50/50 magna cum laude, discussing the Thesis "Robotics and positioning systems for laparoscopic solo-surgery", tutor Gerhard Buess.

4. PROFESSIONAL ACTIVITIES (POST-GRADUATE) :

1997-1999 - *Scientist* at the Section for Minimally Invasive Surgery at the Eberhart Karls University of Tuebingen, Germany, Dir. Prof. Med. [REDACTED],

1999 - 2004 - *Assistant Surgeon*, ASL 1 Liguria, Italy

2004 - 2007 - *Assistant Surgeon*, International Evangelic Hospital, Genoa, Italy

2007 - 2014 - *Assistant Professor of Surgery*, at the Dept. of Surgical Sciences, Chief Prof. [REDACTED] University of Turin, Italy

2014 - today - *Associate Professor of Surgery*, at the Dept. of Surgical Sciences, Chief Prof. [REDACTED], University of Turin, Italy

5. RESEARCH:

- in 1997 discussed a thesis on robotics and positioning systems for endoscopic surgery at the University of Genova and Tuebingen, at the end of technology development of several prototypes in partnership with the Karlsruhe Nuclear Research Center (Germany) named ARTEMIS (7 DoF robot manipulator), FIPS (4 DoF remote-controlled optic positioning system) and TISKA (4 DoF passive retractor positioning system) later acquired by Karl Storz Endoskope (Tuttlingen) for further development and marketing
- since 1997 partner of several different projects in the field of flexible endoscopy with Boston Scientific, Microvase Endoscopy (Boston, MA, USA) on endoluminal GERD treatment, colonic large polyps resection, endoluminal clips and stapling
- 1997-1999 principal investigator of a research project on robotics in endoscopic surgery with Karl Storz Endoskope GmbH (Tuttlingen, Germany)
- 1997-1999 coordinator of a Research Project on Gastro Esophageal Reflux with Willy Ruesch GmbH (Kernen, Germany)
- 1999 - 2001 coordinator of a Research Project on robotics in endoscopic surgery with the National Forschung Zentrum Karlsruhe and Innomedic company (Germany)
- 2003 - 2008 partner of OVESCO GmbH (Tuebingen, Germany) for the test and clinical employment of a new large nitinol clip for flexible endoscopy.
- from 1.12.01 to 30.11.03 partner of an international consortium for a Research Project named **CLEANTEST** on Cleaning, sterilization and design of instruments for endoscopic surgery sponsored by the European Community within the V TMR (FP5).

- 2002 - 2004 Consultant for Boston Scientific Microvase Endoscopy (Boston, MA, USA)
- 2003 - 2005 Consultant for Ethicon Endosurgery (Johnson & Johnson Medical) Italy
- 2003 - 2005 Consultant for Bbraun Aesculap (Tuttlingen, Germany) for the development and clinical trial of ENDOFREEZE (4 DoF passive retractor positioning system)
- 2005 - 2007 Consultant for Johnson & Johnson Medical Europe, Inscope Division
- since 1.09.06 partner of an international consortium for a Research Project named **VECTOR** on development of a robotic capsule for GI endoscopy sponsored by the European Community, sponsored by the European Community within the VI TMR (FP6) for a total of 9.000.000 euros of contribution.
- since 2006 partner of several different projects in flexible endoscopy with NOVINEON GmbH (Tuebingen, Germany) with particular regards to Endoluminal Flexible Surgery and NOTES.
- since 1.3.09 Coordinator of the ESCO-study (Endoscopic Stenting for Colonic Obstruction), international multicenter randomized controlled trial sponsored by the European Association for Endoscopic Surgery (www.escostudy.zapto.org)
- 2009 - 2010 Consultant for Johnson & Johnson Medical Europe, Titan project
- 2010 Consultant for Bbraun Aesculap, (Tuttlingen, Germany)
- from 1.6.11 to 30.07.16 Coordinator of the MUSIC-study (MULTI-PORT VS SINGLE-PORT CHOLECYSTECTOMY), international multicenter randomized controlled trial sponsored by the European Association for Endoscopic Surgery with a research grant of 50.000 euros (www.music.world.it)
- 2011 Consultant for Johnson & Johnson Medical USA, Gemini project
- from 1.10.2011 to 31.09.202 Coordinator of the *Polymeric films and magnetic forces for gallbladder retraction during a fully transluminal cholecystectomy* sponsored by the EURONOTES FOUNDATION with a research grant of 20.000 euros
- from 1.1.12 to 31.12.15 partner of an international consortium for a Research Project named **STIFF-FLOP** on STIFFness controllable Flexible and Learnable Manipulator for surgical OPERations sponsored by the European Community within the VII TMR (FP7), as scientific responsible both for the University of Turin and the European Association for Endoscopic Surgery, for a total of 7.350.000 euros of contribution.
- since 1.3.2012 Coordinator of the TEMENDO-study (Transanal Endoscopic Microsurgery vs ENDOscopic Submucosal Dissection for large rectal adenomas), international multicentre randomized controlled trial sponsored by the European Association for Endoscopic Surgery (www.temendo.zapto.org)
- 2014 Consultant for Bbraun GmbH, Germany
- 2015 Consultant for Teleflex Medical, Morrisville, NC, USA
- from 1.12.2015 to 31.5.19 partner of an international consortium for a Research Project named **EndoVESPA** (**Endoscopic Versatile robotic guidance, diagnoSis and theraPy** of magnetic-driven soft-tethered endoluminal robots) then renamed **ENDOO**, sponsored by the European Community within the HORIZON 2020 framework, as scientific responsible for the University of Turin, for a total of 4.350.000 euros of contribution.
- from 1.6.19 to 1.06.20 Coordinator of the COLORAL1-study (Multicenter, Prospective, Randomized, Controlled Trial on preoperative oral antibiotics prophylaxis in colorectal surgery, <https://clinical-trial.zapto.org/coloral/>), international multicenter randomized controlled trial sponsored by the Italian Society for Endoscopic Surgery SICE.
- since 1.4.21 Coordinator of the Proof-of-Concept study on RED – Robot for Endoscopic Dissection sponsored by the University of Turin.

6. CLINICAL:

Since the beginning of his career, he dedicated most of his interests to diagnosing and treating digestive tract disease, with particular interest for the lower GI. In Tuebingen, he learned tips and tricks of laparoscopy and was educated to Transanal Endoscopic Microsurgery directly from the

inventor as a mentor. At the same time, he began his activity as a flexible endoscopist, which he consolidated once back to Italy at ASL1 Liguria.

Today he is mainly dedicated to minimally invasive therapy of any digestive tract disease. He is considered an international expert in colorectal surgery, proctology and Transanal Endoscopic Microsurgery. He collected an extensive clinical record in visceral surgery, both upper and lower GI. This consist of more than 10.000 surgical procedure, in the last years mostly major surgery procedures, such as colorectal cancers or emergency, either as first surgeon or tutor of residents or masterclass students. The Unit he is a member of, under the direction of Prof Mario Morino, collected within between 2008 and 2020, since he came to Torino, about 7.000 surgical procedures for colorectal diseases (hemicolectomies, total colectomies, anterior resections), about 1.500 surgical procedures for upper GI (esophagectomies, gastrectomies, Heller myotomy, Nissen fundoplication), about 600 surgical procedures for liver and pancreas diseases (hepatectomy, metastasectomy, pancreatectomy), about 2.000 surgical procedures for obesity (gastric bypass, sleeve gastrectomy) and about 400 adrenalectomies. To this activity, he participated actively, gaining skills in laparoscopy and in robotic surgery, which is routinely used for digestive disease treatments.

Another field of interest is the activity of the Service of Digestive Endoscopy, where he mainly performs operative procedures, such as difficult polypectomies, mucosectomies (EMR), endoscopic submucosal dissections (ESD), bleeding control by band ligation, glue injection, sclerosis agents injection or Ovesco clip application and stenting for unresectable oesophageal and colorectal cancers, even when obstructing the bowel. He is regularly on duty as a senior responsible fellow in the Emergency room and Digestive Endoscopist.

7. ADMINISTRATION:

- till 2014 Vice-Coordinator of the local PhD Course in Technology Applied to Surgical Sciences
- till 2020 Vice-Coordinator of the local PhD Course in Biotechnology and Surgical Sciences
- Director of the II Level local University Master course in Operative Digestive Endoscopy for MDs.
- Coordinator of the I Level local University Master course in Digestive Endoscopy for nurses.
- Member of the MD/PhD Council for students of the local School of Medicine
- Member of the Council of the local Department of Surgical Sciences
- Member of the Research Task Force of the local Department of Surgical Sciences

8. HONOURS AND AWARDS:

- 1991 & 1992 Fellowship of the Italian Secretariat of Students in Medicine (SISM)
- 1993 Prize "Ettore Ruggeri" of the Italian Society of Surgery (SIC)
- 1996 Fellowship of the Deutscher Akademischer Austausch Dienst (DAAD)
- 1998 Prize of the European Association of Endoscopic Surgery (EAES)
- 1999 Prize City of San Remo, for a Lecture on Coloproctology
- 1999 Research Fellowship of Karl Storz Endoskope, for a study on robotics
- 1999 Prize "Paride Stefanini" of the Italian Society of Endoscopic Surgery (SICE)
- 2010 Research Grant of the European Association of Endoscopic Surgery (EAES)
- 2010 Research Grant of the EURONOTES Foundation
- 2011 Prize of the European Association of Endoscopic Surgery (EAES)
- 2012 Prize of Technology Committee of the European Association Endoscopic Surgery (EAES)
- 2012 Olympus Prize of the European Association of Endoscopic Surgery (EAES)
- 2012 Prize Life Sciences - Italian Venture Capitalist FORUM
- 2013 Prize of the STARTUP Company Challenge Piedmont, Italy

9. OFFICIAL POSTS:

- Chairman of the Technology Committee of the EAES (2017-now)
- Chairman of the Program Committee of the EAES (2020-now)
- member of the UEG e-learning Task Force (2012-2014)

- member of the UEG Future Trends Committee (2014-2017)
- member of the UEG Scientific Committee (2017-now)
- President (2017-2018) and member of the Board (2005-now) of SMIT, Society for Medical Innovation and Technology
- Vice-President of the SICE, Italian Society for Endoscopic Surgery (2017-2019)
- General Secretary of the Italian Society for Endoscopic Surgery SICE (2019-now)
- Coordinator of the EURONOTES Clinical Registry (www.euronotes.world.it)

10. TECHNICAL AND SCIENTIFIC ROLES:

He was former Assistant Editor of the Journal Techniques in Coloproctology, Springer Verlag Ed., the official journal of ECTA and SICCR, when it obtained the first IF, 1.53 at that time

He was a former member of the Editorial Board of Surgical Endoscopy, Springer Verlag Ed., the official journal of SAGES & EAES, IF 4.0 at that time

He was a former member of the Editorial Board of the UEG Journal, SAGE Ed., the official journal of UEG, IF 3.6 at that time

He is currently Editor of Minimally Invasive Therapy and Allied Technologies (MITAT), Taylor & Francis Ed., the official journal of SMIT, IF 1.2

11. PATENTS:

- A miniature robotic device applicable to a flexible endoscope for the surgical dissection of gastrointestinal tract surface neoplasms (WO 2014147556 A1)
- A connecting device for creating an anastomosis between a hollow organ and a conduit (WO 2013004263 A1)
- A device for transluminal diversion of bile (WO 2012007044 A1)
- System and method for modifying the location at which biliopancreatic secretions interact with the gastrointestinal tract (WO 2012007050 A1)

12. THESIS DIRECTOR:

He tutored an average of 2 medical students per year for the Bachelor Thesis and an average of 5 students per year of the Master class in Digestive Endoscopy, 1 PhD student per year for the course of Bioengineering and Surgical Sciences.

13. SCIENTIFIC PUBLICATIONS:

He is the author of 241 publications on Scopus (Scopus Author ID: 6701795382), H-index 39, 4.912 citations, 10-years Scopus H-index is 32.

ORCID: 0000-0002-2110-4082

He is the author of 210 publications on Pubmed.

<https://pubmed-ncbi-nlm-nih-gov.bibliopass.unito.it/?term=arezzo+a&sort=date&size=200>

