

## BIOGRAPHICAL SKETCH

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| <b>NAME</b><br>Nakajima, Kiyokazu                 | <b>POSITION/TITLE</b><br>Professor and Principal Investigator<br><br>Department of Next Generation Endoscopic Intervention<br>Graduate School of Medicine, Osaka University  |
| <b>DOB/CITIZENSHIP</b><br>February 5, 1965, Japan | Department of Gastroenterological Surgery<br>Graduate School of Medicine, Osaka University<br><br>Suite 0912, Center of Medical Innovation and Translational Research<br>Osaka University<br>2-2, Yamadaoka, Suita, Osaka 565-0871, Japan<br>Phone: +81-6-6210-8420<br>Fax: +81-6-6210-8424<br>Email: knakajima@gesurg.med.osaka-u.ac.jp |

### EDUCATION

| INSTITUTION AND LOCATION                                      | DEGREE | YEAR | FIELD OF STUDY                 |
|---|--------|------|--------------------------------|
| Osaka University Medical School,<br>Osaka, Japan              | M.D.   | 1992 | Medicine                       |
| Osaka University Graduate School<br>of Medicine, Osaka, Japan | Ph.D.  | 1999 | Gastrointestinal wound healing |

### Post-Graduate Training:

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| 1992 – 1993 | Internship, General, Thoracic and Cardiovascular Surgery, Osaka University Hospital, Osaka, Japan |
| 1993 – 1995 | Residency, General Surgery, Nissay Hospital, Osaka, Japan   |
| 1999 – 2001 | Fellowship, Pediatric/Endoscopic Surgery, Osaka University Hospital, Osaka, Japan                 |

### Licensure and Board Certification:

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| 1992 | Physician's License in Japan, Registration No. 347810  |
| 1995 | Board Certified Surgeon, Japan Surgical Society, Registration No. 11553                                  |
| 2006 | Laparoscopic Skill Certification, Japan Society for Endoscopic Surgery, Registration No. 06-GS-098       |
| 2007 | Certified Instructor, Japanese Board of Cancer Therapy, Registration No. 0707769                         |
| 2007 | Certified Clinical Educator in Residency Program, Japanese Ministry of Health, Labor and Welfare         |
| 2008 | Board Certified Surgeon, Japan Society of Gastroenterological Surgery, Registration No. 3004046          |
| 2008 | Board Certified Surgical Oncologist, Japan Society of Gastroenterological Surgery, Registration No. 3911 |
| 2008 | Board Certified Cancer Therapist, Japanese Board of Cancer Therapy, Registration No. 07200505            |
| 2008 | Board Certified Gastroenterologist, the Japanese Society of Gastroenterology, Registration No. 31101     |

2008 Board Certified Supervisory Surgeon, Japan Surgical Society, Registration No. S008469  
 2012 Board Certified Supervisory Surgeon, Japan Society of Gastroenterological Surgery, No. 5321

### **Professional Organizations and Societies:**

1992 – Member, Japan Surgical Society (JSS)  
 1993 – Member, Japanese Society of Gastroenterological Surgery  
 1995 – Member, Japan Society for Endoscopic Surgery (JSES)  
 1995 – Member, Japanese Society of Pediatric Surgeons  
 1997 – Member, International Pediatric Endosurgery Group (IPEG)  
 1999 – International Member, Society of American Gastrointestinal and Endoscopic Surgeons (SAGES)  
 2003 – Member, Japan Society of Coloproctology  
 2003 – Council Member, Japan Society for Endoscopic Surgery  
 2007 – Member, Japan Society of Computer Aided Surgery  
 2007 Executive Secretary, 20th Kinki Society for Endoscopic Surgery (held in Osaka, September 8, 2007)  
 2007 – Working Member, Japan Working Group of Natural Orifice Translumenal Endoscopic Surgery (JWNOTES)  
 2008 – Council Member, Japan Surgical Society Kinki Chapter  
 2008 – International Board Member, the New European Surgical Academy (NESA)  
 2008 – International Faculty, World Institute for Digestive Endoscopy Research (WIDER)  
 2010 – Working Member, Natural Orifice Surgery Consortium for Assessment and Research (NOSCAR)  
 2010 – Fellow of American College of Surgeons (FACS)  
 2010 – Principal Investigator, Japan SPACE Study Group  
 2011 Faculty, Society of American Gastrointestinal and Endoscopic Surgeons (SAGES)  
 2011 Faculty, International Congress of Endoscopy (ICE)  
 2011 – International Member, European Association for Endoscopic Surgery (EAES)  
 2011 – Council Member, Japan TANKO society  
 2012 Program Co-director, SPACE LAB Kansai Workshop  
 2012 – Council Member, Japan NOTES  
 2012 – Scientific Advisory Board, EndoMaster Pte. Ltd, Singapore  
 2013 – Council Member, Japan LECS (laparoscopy endoscopy cooperative surgery) Society  
 2013 – Council Member, Japan Society of Gastroenterological Surgery  
 2013 – Council Member, Japanese Forum for Study of the Stomach  
 2013 – 2019 Member, Medical Engineering Collaboration Committee, Japan Society for Endoscopic Surgery (JSES)  
 2013 Executive Secretary, 7th Japan NOTES meeting  
 2013 Program Committee Member, Japan Society for Endoscopic Surgery (JSES)  
 2015 Program Committee Member, Japan Society for Endoscopic Surgery (JSES)  
 2015 – Chief Director, Healthcare Engineering using Appropriate and Realistic Technologies (HEART) Foundation  
 2015 – International Advisory Board for ValueBiotech S.R.L., Italy  
 2016 – Clinical Advisory Board, Lumendi Ltd., United Kingdom  
 2016 – Council Member, Working Group on Data Collection and Utilization of Medical Device, Next Generation Medical ICT Foundation Council, Cabinet Secretariat Office of Healthcare Policy  
 2016 – 2020 Member, Technology Committee, European Association for Endoscopic Surgery (EAES)  
 2016 Chairman, Future Committee, Japan Consortium of Advanced Surgical Endoscopy (J-CASE)  
 2017 – Member, Industry-Academia-Government Collaboration Committee, Japan Gastroenterological Endoscopy Society (JGES)  
 2017 Member, Program Committee, Japan Society for Endoscopic Surgery (JSES)  
 2017 – Expert, ISO 215/WG2 “Health Informatics” JISC Task Force  
 2017 Director, JSES Medtech Initiative (JMI) program, Japan Society for Endoscopic Surgery (JSES)  
 2017 Program Committee Member, Japan Surgical Society (JSS)  
 2018 – Council Member, Japan Needlescopic Surgery Meeting  
 2018 International Scientific Committee member, Society for Medical Innovation and Technology (SMIT)  
 2018 – 2020 Evaluation Committee Member, “Advanced Diagnosis and Treatment Systems by AI-Hospital”, Cross-ministerial Strategic Innovation Promotion Program (SIP), Cabinet Office, Government of Japan  
 2018 – Adviser, Medical Engineering Collaboration Committee, Japan Society for Endoscopic Surgery (JSES)  
 2019 – Innovation and Technology Committee member, Endoscopic and Laparoscopic Surgeons of Asia (ELSA)  
 2019 Faculty, Society of American Gastrointestinal and Endoscopic Surgeons (SAGES)

- 2019 – Editorial Board Member, Minimally Invasive Therapy & Allied Technologies (MITAT)
- 2019 – Steering Committee Member, international Society for Minimally Invasive Therapy (iSMIT)
- 2019 Program Committee Member, World Congress of Endoscopic Surgery (WCES)
- 2019 Program Committee Member, Japan Surgical Society (JSS)

**Academic Appointments:**

- 2001 – 2002 Visiting Fellow in Surgery, Department of Surgery,  
Weill Medical College of Cornell University, New York, NY, USA
- 2002 – 2003 Postdoctoral Associate in Surgery, Department of Surgery,  
Weill Medical College of Cornell University, New York, NY, USA
- 2002 – 2003 Instructor, Minimal Access Surgery Center  
New York - Presbyterian Hospital, New York, NY, USA
- 2005 – 2006 Visiting Lecturer, Department of Surgery  
Osaka University Graduate School of Medicine, Osaka, Japan
- 2006 – 2012 Assistant Professor of Surgery, Department of Surgery,  
Osaka University Graduate School of Medicine, Osaka, Japan
- 2010 – Lecturer, Osaka University Medical School, Osaka, Japan
- 2012 – Associate Professor, Department of Surgery,  
Osaka University Graduate School of Medicine, Osaka, Japan
- 2012 – 2019 Professor, Division of Next Generation Endoscopic Intervention  
Global Center for Medical Engineering and Informatics, Osaka University, Osaka, Japan
- 2019 – Professor, Department of Next Generation Endoscopic Intervention  
Osaka University Graduate School of Medicine, Osaka, Japan

**Hospital Appointments:**

- 1995 Staff Surgeon, General Surgery, Nissei Hospital, Osaka, Japan
- 1996 Staff Surgeon (Junior), Pediatric Surgery, Osaka University Hospital, Osaka, Japan
- 1999 – 2001 Staff Surgeon (Senior), Pediatric Surgery, Osaka University Hospital, Osaka, Japan
- 2003 Assistant Attending Surgeon, Gastroenterological Surgery, Osaka University Hospital, Osaka, Japan
- 2004 – 2006 Attending Surgeon, General Surgery, Osaka Rosai Hospital, Osaka, Japan
- 2005 – 2006 Chief, Section of Colon and Rectal Surgery, Osaka Rosai Hospital, Osaka, Japan
- 2005 – Vice-Chair, Endoscopic Surgery Training Course, Osaka University Hospital, Osaka, Japan
- 2006 – Attending Surgeon, Gastroenterological Surgery, Osaka University Hospital, Osaka, Japan

**Honors:**

- 2001 Award from Shinya International Researchers' Exchange Foundation, Osaka, Japan
- 2005 Award for Excellence in Clinical Research from Ichou Foundation (Osaka University Alumni Association)
- 2006 Award from Yamamoto Memorial Grant Foundation, Osaka, Japan
- 2007 Award from CASIO Science Promotion Foundation, Tokyo, Japan
- 2008 Award from Japanese Foundation for Research and Promotion of Endoscopy, Tokyo, Japan
- 2008 Award from Takeda Science Foundation, Tokyo, Japan
- 2008 NOSCARTM Olympus Research Award, ASGE, USA
- 2009 Crystal Award, DDW, Chicago, USA
- 2011 Japan NOTES Research Award
- 2012 Japan NOTES Research Award
- 2013 Award from Yamamoto Memorial Grant Foundation, Osaka, Japan

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| 2013 | Japan NOTES Research Award   |
| 2013 | MEDEC Innovation Award, Challenge Award, Tokyo, Japan  |
| 2013 | Monozukuri Nippon Grand Award, the Special Prize, The Ministry of Economy, Trade and Industry (METI), Tokyo, Japan |
| 2014 | Osaka University Presidential Award 2014, Osaka, Japan   |
| 2014 | Special Award, the Resona Foundation for Small and Medium Enterprise Promotion Award 2014, Japan                   |
| 2018 | Ogami Award, Japan Society for Endoscopic Surgery, Japan   |
| 2019 | Ozawa Award, Kyusenkai, Osaka University Graduate School of Medicine, Department of Surgery, Japan                 |

**Grant Supports:**

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|-------------|---|
| 2003 – 2005 | Principal investigator, Carbon dioxide insufflating endoscopy and its physiological impact on intestinal blood flow; Approved; \$10,000 per year; Olympus Medical Systems, Tokyo, Japan   |
| 2004 – 2008 | Principal investigator, Use of fibrin-collagen bioglue as drug delivering system in GI tract surgery; \$10,000 per year; CSL Behring, Tokyo, Japan  |
| 2006 – 2007 | Principal investigator, New stapling technique in laparoscopic surgery; \$10,000 per year; Ethicon Endo-surgery Japan, Johnson & Johnson, Tokyo, Japan  |
| 2007 – 2008 | Principal investigator, A structured endoscopic surgical training program designed for rotating residents; \$35,000; Grant from Japanese Society for Promotion of Sciences (#19591482)  |
| 2007        | Principal investigator, Construction of new endoscopic surgery training program specifically designed for new postgraduate training system; \$15,000; Educational Grant; Yamamoto Memorial Grant Foundation                                     |
| 2007        | Principal investigator, Randomized trial on drain site dressing techniques; \$5,000, Johnson & Johnson KK Japan, Tokyo, Japan   |
| 2007        | Principal investigator, Educational Grant for Foreign Researchers' Exchange Program; \$5,000; The Sumitomo Trust & Banking Co. Ltd., Tokyo, Japan   |
| 2007        | Principal investigator, Development of intelligent operating table equipped with the real-time pressure sensing system; \$10,000; Grant from CASIO Science Promotion Foundation, Tokyo, Japan   |
| 2008        | Principal investigator, Feasibility and safety study of CO2 feeding gastrointestinal endoscopy for patients with inflammatory bowel diseases; \$5,000; Grand from The Japanese Foundation for Research and Promotion of Endoscopy, Tokyo, Japan |
| 2008        | Principal investigator, Research Grant for Foreign Researchers' Exchange Program; \$5,000; Goho Life Sciences International Fund, Tokyo, Japan  |
| 2008        | Principal investigator, Development of insufflating guide wire system for NOTES; \$25,000; Grant from Hakko Medical Co., Ltd, Nagano, Japan   |
| 2008        | Principal investigator, Development of novel transgastric overtube with dilating tip; Research Grant; \$20,000; Takeda Science Foundation, Tokyo, Japan   |
| 2008        | Principal investigator, Comprehension of current limitations in endoscopic automatic CO2 insufflation: towards pure NOTES; Research Grant; \$24,750; Natural Orifice Surgery Consortium for Assessment and Research™ (NOSCAR™), USA             |
| 2009        | Principal investigator, Development of transvaginal overtube system and its accessories; \$15,000; Grant from Top Co., Ltd, Tokyo, Japan  |
| 2009        | Principal investigator, Safety of new vessel sealing system (EnSeal) on calcified vessels; \$7,000; Grant from Kobayashi Medical Co., Ltd., Osaka, Japan  |
| 2009        | Principal investigator, Development of new draping system to keep flexible endoscopic tools sterilized during NOTES procedures, \$5,000; Grant from Cardinal Health Japan, Tokyo, Japan   |
| 2009        | Principal investigator, Impact of Dai-Ken-chu-To on parietal blood flow of segmental bowel: Two-dimensional laser Doppler imaging study; \$20,000; Grant from Tsumura & Co., Tokyo, Japan   |
| 2009        | Principal investigator, Comparison of two different PICC systems (RCT); \$20,000; Grant from Nippon Sherwood - Covidien, Tokyo, Japan   |
| 2009        | Principal investigator, Anatomical measurement to optimize transvaginal NOTES instrumentation; \$12,000; Grant from Japan NOTES   |
| 2009 – 2011 | Principal investigator, Role of CO2-insufflating GI endoscopy for patients with inflammatory bowel diseases; \$40,000; Grant from Japanese Society for Promotion of Sciences (#21591724)  |

- 2009 – 2012 Principal investigator & project leader, Project “ENGINE” (Endeavors for Next Generation of INterventional Endoscopy); approx. \$3,500,000; National R&D Grant from Ministry of Economy, Trade and Industry, Japan
- 2010 Principal investigator, “Next generation over-tube system”; approx. \$20,000 Grant from Ikegin consocium research and development fund, Osaka, Japan
- 2010 Principal investigator, Development of automatic smoke evacuation system for advanced endoscopic procedures; \$3,000; AMCO Co., Ltd, Tokyo, Japan
- 2011 Principal investigator, Development of dedicated insufflating system for GI tract; \$125,000; Fujifilm, Tokyo, Japan
- 2011 Principal investigator, Mechanism responsible for maintenance of steady pressure environment in the gastrointestinal tract; \$12,000; Grant from Japan NOTES
- 2012 – 2014 Principal investigator & project leader, Project “ENGINE” (Endeavors for Next Generation of INterventional Endoscopy) for Program to Support Development of Medical Equipment and Devices to Solve Unmet Medical Needs, Kansai Innovation Special Zone; approx. \$1,025,000; National R&D Grant from Ministry of Economy, Trade and Industry, Japan
- 2012 Principal investigator, Preclinical evaluation of trans-phrenic peritoneoscopy and omentopexy; \$12,000; Grant from Japan NOTES
- 2013 Principal investigator, Construction of practical IP training program specifically designed for medical/engineering researchers; \$25,000; Educational Grant; Yamamoto Memorial Grant Foundation
- 2013 – 2015 Co-Principal investigator, MASTER-SPACE endoscopic full thickness gastric resection in porcine model: a feasibility study. approx. \$60,000; JSPS Bilateral Joint Research Projects (Matched grant b/w Japan and Singapore)
- 2013 – 2016 Principal investigator, Role of automatic, pressure-regulated insufflation in endoscopic management of gastric perforation; \$50,000; Grant from Japanese Society for Promotion of Sciences (#25350566)
- 2013 Principal investigator, On-site diagnosis of peritoneal surface malignancies using p-CLE powered by 5-ALA imaging; \$12,000; Grant from Japan NOTES
- 2013 – 2014 Principal investigator & project leader, Project “ENGINE” (Endeavors for Next Generation of INterventional Endoscopy) for Kansai Innovation Special Zone (2nd year); approx. \$625,000; National R&D Grant from Ministry of Economy, Trade and Industry, Japan
- 2013 – 2014 Co-investigator, Development of innovative medical devices for minimally invasive surgery; \$8,000; The National Cancer Center Research and Development Fund (25-A-8), Japan
- 2013 – 2014 Co-investigator, Development of application device for new hemostatic agent TDM-621; \$180,000; National Grant for Promotion of “Monozukuri,” Shiga Prefectural Federation of Small Business Associations, Japan
- 2013 – 2014 Co-investigator, Development of new device holder for laparoscopic instruments; \$180,000; National Grant for Promotion of “Monozukuri,” Osaka Prefectural Federation of Small Business Associations, Japan
- 2013 – 2014 Co-investigator, Development of built-in software for tissue conductance meter for early detection of inflammatory diseases; \$180,000; National Grant for Promotion of “Monozukuri,” National Federation of Small Business Associations, Japan
- 2014 – 2016 Principal investigator, Tissue Conductance Meter; approx. \$73,000; Takahashi Industrial and Economic Research Foundation, Japan
- 2014 – 2018 Co-investigator, Development of flexible robots using multi-channel overtube, enhanced by steady pressure insufflation; approx. \$100,000; New Energy and Industrial Technology Development Organization (NEDO), Japan
- 2014 – 2015 Principal investigator, Development of surgical gown wearable without aid by circulating nurse; approx. \$320,000; Strategic Foundational Technology Improvement Support Operation, Ministry of Economy, Trade and Industry, Japan
- 2014 Co-investigator, Optimization of “Ideathon” and “Hackathon” for medical device R&D; approx. \$50,000; Promotion of Academia-Industry-Government Collaboration for Regional Technology Development, Ministry of Education, Culture, Sports, Science and Technology, Japan
- 2014 Co-investigator, Development of suction monopolar electrocautery hand piece; \$150,000; National Grant for Promotion of “Monozukuri,” Shiga Prefectural Federation of Small Business Associations, Japan
- 2014 Co-investigator, Clinical search of functional disorder of residual stomach, especially production of gastroesophageal regurgitation; \$94,000; National Grant for Promotion of “Monozukuri,” Astra Zeneka Research Grant, Japan

- 2014 – 2016 Principal investigator, Research on Development of New Medical Devices; approx. \$ 408,000; Japan Agency for Medical Research and Development, Japan
- 2014 – 2018 Principal investigator, Project to Build Foundations to Support and Incentivize Development of Medical Devices Made in Japan; approx. \$82,000; Japan Agency for Medical Research and Development, Japan
- 2015 – 2016 Co-investigator, Development of needlescopic surgical swab; \$24,000; National Grant for Promotion of "Monozukuri," Osaka Prefectural Federation of Small Business Associations, Japan
- 2016 Principal investigator, Feasibility Study of International Standardization Project. \$77,000; Ministry of Economy, Trade and Industry, Japan
- 2016 – 2017 Principal investigator, "Development of size variable asymmetrical high frequency snare"; approx. \$180,000; National Grant for Promotion of "Monozukuri," National Federation of Small Business Associations, Japan
- 2016 Co-investigator, Standardization of "Japanese style difficult endoscopic treatment and development of multifunctional tool which accelerates international expansion". \$74,000; National Grant for Promotion of "Monozukuri", Shiga Prefectural Federation of Small Business Associations, Japan
- 2017 Co-investigator, "Project of "WHO prequalification"; approx. \$31,000; National Grant for Ministry of Health, Labor and Welfare, Japan
- 2017 – 2019 Principal investigator, "International Standardization Project"; approx. \$338,700; Ministry of Economy, Trade and Industry, Japan
- 2018 – 2020 Co-investigator, "Development of Soft-Bipolar Coagulation-Dissection forceps"; approx. \$876,300; Strategic Foundational Technology Improvement Support Operation, Ministry of Economy, Trade and Industry, Japan
- 2019 – 2024 Principal investigator, "Support Program on Collaborative Innovation Networks for Medical Device"; approx. \$470,000; Japan Agency for Medical Research and Development, Japan
- 2019 – 2020 Principal investigator, "Project to promote acquiring WHO pre-certification on medical devices and running the product information on WHO's list on the recommended health and medical related equipment for developing countries", approx. \$75,000; Ministry of Health, Labor and Welfare, Japan

**Reviewer in international peer reviewed journals:**

Asian Journal of Endoscopic Surgery  
 Annals of Surgery  
 Digestive Endoscopy  
 Diseases of the Esophagus  
 Esophagus  
 Gastric Cancer  
 International Journal of Intelligent Computing in Medical Sciences and Image Processing  
 Minimally Invasive Therapy & Allied Technologies (Editorial Board Member)  
 Surgical Laparoscopy, Endoscopy & Percutaneous Techniques  
 Surgical Endoscopy  
 Surgical Oncology  
 Surgery Today

**Departmental and University Committees:**

1996 – 2001 Osaka University Hospital Endoscopic Surgery Committee  
 2003 – present Osaka University Endoscopic Surgery Training Working Group  
 2003 – present Osaka University Robotic Surgery Committee  
 2006 – present Osaka University Colon and Rectal Diseases Study Group  
 2008 – present Osaka University Hospital Operating Room Committee  
 2008 – present Osaka University Endoscopic Surgery Multicenter Study Working Group  
 2010 – 2013 Osaka University Hospital CVC manager  
 2012 – 2019 Osaka University MEI Center Council Member

**Invited Lectures and Grand Rounds****(including Surgical Courses, Seminars, as Speaker, Course Director, or Moderator):**

- 12/11/1998 Speaker: "Current aspects of endoscopic surgery in children" presented at Surgical Grand Rounds, Nihon University School of Medicine Auditorium, Tokyo, Japan
- 06/09/1999 Course Director: "Animate Lab for Surgical Residents at Osaka University and Nihon University" held at Ethicon ESI, Sukagawa, Fukushima, Japan
- 09/09/2000 Speaker: "Instrumentation in pediatric endoscopic surgery" presented at 1st Pediatric Endoscopic Surgery Hands-on Workshop, held at Ethicon ESI, Sukagawa, Fukushima, Japan
- 09/09/2000 Course Instructor: "1st Pediatric Endoscopic Surgery Hands-on Workshop" held at Ethicon ESI, Sukagawa, Fukushima, Japan
- 10/06/2000 Moderator: "Session 1; general pediatric laparoscopy" at 3rd annual congress of Japanese Pediatric Endosurgery Group, Miyakojima, Okinawa, Japan
- 04/18/2001 Guest Faculty (Course Instructor), "Endoluminal Access Surgery Hands-on Course", Society of American Gastrointestinal and Endoscopic Surgeons (SAGES) Postgraduate Course, St. Louis, MO, USA
- 03/13/2002 Guest Faculty (Course Instructor), "Esophageal Stent Technique Hands-on Course," Society of American Gastrointestinal and Endoscopic Surgeons (SAGES) Off Site Hands-on Course, New York, USA
- 10/04/2002 Speaker: "Laparoscopic endoluminal surgery for gastric lesions" presented at Colorectal Surgery Grand Rounds, Cornell University Auditorium, New York, NY, USA
- 01/21/2003 Speaker: "Laparoscopic Total Colectomy: Hand-assisted vs. Standard Technique" presented at Multi-site Minimally Invasive Teleconference, Cornell University Auditorium, New York, NY, USA
- 07/18/2003 Speaker: "CO2 insufflating endoscopy; a preliminary report" presented at Olympus America Inc. Headquarters, Long Island, New York, USA
- 10/29/2003 Speaker: "CO2 insufflating endoscopy; the pilot study at Cornell University" presented at Olympus EndoLab, The R&D Division, Tokyo, Japan
- 11/13/2003 Speaker: "Master-slave robots in minimally invasive surgery" presented at 2003 Forum for Next Generation Medical Industries, at The Osaka Chamber of Commerce and Industry, Osaka, Japan
- 12/04/2003 Speaker: "Luncheon Seminar: Laparoscopic surgery training in Japan and the USA: from VR to cadavers" presented at 15th annual congress of Japan Society for Endoscopic Surgery, Okayama, Japan
- 04/08/2004 Moderator: "Combined laparo-endoscopic colorectal surgery (Professor Jeffrey W. Milsom, Cornell University, New York, NY)" presented at 104th annual congress of Japan Surgical Society, Osaka, Japan
- 02/19/2005 Course Director: "Animate Lab for Surgical Residents at Osaka Rosai Hospital" held at Ethicon ESI, Sukagawa, Fukushima, Japan
- 03/19/2005 Speaker: "Invited Lecture: Laparoscopic surgery training: current status and future prospective" presented at Annual Congress of Aomori Laparoscopic Surgery Study Group, Aomori, Japan
- 05/13/2005 Speaker: "Knacks and pitfalls in surgical stapling" presented at Ethicon Booth, 105th annual congress of Japan Surgical Society, Nagoya, Japan
- 06/11/2005 Faculty, Laparoscopic Colon Surgery Hands-on Course, Cornell University, New York, NY, USA (Course Director: Jeffrey W. Milsom, M.D.)
- 06/18/2005 Speaker: "Invited lecture: Use of fibrin-coated collagen fleece in laparoscopic surgery" 5th Anniversary of TachoComb Symposium, Tokyo, Japan
- 06/21/2005 Speaker: "CO2 insufflating endoscopy" presented at Medical/Surgical Grand Rounds, Osaka Rosai Hospital, Osaka, Japan
- 09/15/2005 Speaker: "Mini-lecture: gastrointestinal stromal tumors" presented at Minami Osaka Gastrointestinal Disease Conference, Osaka, Japan
- 11/05/2005 Faculty, Laparoscopic Colon Surgery Hands-on Course, Cornell University, New York, NY, USA (Course Director: Jeffrey W. Milsom, M.D.)

- 12/17/2005 Course Director: "1st Endoscopic Surgery Training Course" at Medical Center for Translational Research, Osaka University Hospital, Osaka, Japan
- 02/25/2006 Course Director: "2nd Endoscopic Surgery Training Course" at Medical Center for Translational Research, Osaka University Hospital, Osaka, Japan
- 03/29/2006 Speaker: "Luncheon seminar: Current status and perspective of fibrin-coated collagen fleece (TachoComb)" presented at 106th annual congress of Japan Surgical Society, Tokyo, Japan
- 06/10/2006 Course Director: "3rd Endoscopic Surgery Training Course" at Medical Center for Translational Research, Osaka University Hospital, Osaka, Japan
- 06/17/2006 Faculty, Laparoscopic Colon Surgery Hands-on Course, Cornell University, New York, NY, USA (Course Director: Jeffrey W. Milsom, M.D.)
- 08/24/2006 Speaker: "Laparoscopic surgery for inflammatory bowel diseases" presented at The Supporting Center for Clinical Research and Education (SCCRE) Open Forum for Postgraduate Education, Osaka, Japan
- 08/25/2006 Speaker: "Complications of inflammatory bowel diseases" presented at The Supporting Center for Clinical Research and Education (SCCRE) Open Forum for Postgraduate Education, Osaka, Japan
- 09/02/2006 Moderator: "Micron tracker: augmented reality and optical pose tracking in a single device (Dr. Claudio Gatti, Claron Technology Inc.)" presented at 6th Japanese Society for Medical Virtual Reality, Osaka, Japan
- 11/24/2006 Course Director: "4th Endoscopic Surgery Training Course" at Medical Center for Translational Research, Osaka University Hospital, Osaka, Japan
- 12/06/2006 Moderator: "Colorectal benign disorders" at 18th annual congress of Japan Society for Endoscopic Surgery, Kyoto, Japan
- 07/22/2006 Speaker: "Key Note Lecture: Basics of electrosurgical devices" presented at 1st Surgical Energy Lab, Osaka University Hospital - Medical Center for Translational Research, Osaka, Japan
- 07/22/2006 Course Co-Director: "1st Surgical Energy Lab," at Osaka University Hospital - Medical Center for Translational Research, Osaka, Japan
- 03/23/2007 Course Director: "5th Endoscopic Surgery Training Course" at Medical Center for Translational Research, Osaka University Hospital, Osaka, Japan
- 05/10/2007 Course Director: "6th Endoscopic Surgery Training Course" at Medical Center for Translational Research, Osaka University Hospital, Osaka, Japan
- 06/23/2007 Faculty, Laparoscopic Colon Surgery Hands-on Course, Cornell University, New York, NY, USA (Course Director: Jeffrey W. Milsom, M.D.)
- 08/03/2007 Guest Commentary: "Team approach in the management of inflammatory bowel diseases" on Kansai GI disease Research Club, Osaka, Japan
- 08/25/2007 Guest Commentary: "Bleeding prestomal ileitis" on IBD Club Junior West, The Mainichi Oval Hall Auditorium, Osaka, Japan
- 08/28/2007 Speaker: "Bowel blood supply and gastrointestinal diseases" presented at academic in-service training, Tsumura & Co, Osaka, Japan
- 09/08/2007 Moderator: "An overview of laparoscopic colorectal surgery in 2007: where have we come and where are we going? (Professor Richard L. Whelan, Columbia University, New York, NY)" presented at 20th annual congress of Kinki Society for Endoscopic Surgery, Osaka, Japan
- 09/12/2007 Speaker: "Role of CO2 insufflation in modern endoscopic intervention" presented at Medical Grand Rounds, Osaka University, Osaka, Japan
- 10/30/2007 Speaker: "Bowel blood supply and gastrointestinal diseases" presented at academic training for medical representatives, Tsumura & Co, Tokyo, Japan
- 11/04/2007 Speaker: "Invited Lecture: Optimal insufflation system for NOTES procedures" at Postgraduate Course of 6th Japan Society of Computer Aided Surgery, Hiroshima, Japan
- 11/18/2007 Speaker: "Insufflation necessary for pure NOTES" at 1st Japan NOTES, Sendai, Japan



- 12/08/2007 Faculty, Laparoscopic Colon Surgery Hands-on Course, Cornell University, New York, NY, USA (Course Director: Jeffrey W. Milsom, M.D.)
- 12/10/2007 Speaker: "Invited Lecture: Insufflation techniques for NOTES" presented at New York - Presbyterian Hospital First Annual International NOTES Course, Columbia University, New York, NY, USA
- 12/10/2007 Faculty, NOTES animal lab, New York-Presbyterian Hospital First Annual International NOTES Course, Columbia University, New York, NY, USA
- 12/11/2007 Faculty, NOTES cadaver lab, New York-Presbyterian Hospital First Annual International NOTES Course, Cornell University, New York, NY, USA
- 01/25/2008 Speaker: "Current status of minimally invasive surgery for inflammatory bowel diseases" at 14th Mie Crohn's Disease Society, Mie, Japan
- 02/02/2008 Speaker: "NOTES: current status and future perspective" at 21st Osaka University First Department of Surgery Affiliated Hospital Society, Osaka, Japan
- 02/07/2008 Speaker: "Transvaginal NOTES gastrectomy: towards clinical use" at Osaka University GI medicine/surgery joint conference, Osaka, Japan
- 03/16/2008 Speaker and instructor: "What you should know about instrumentation/equipment for endoscopic surgery" at 2nd Seminar/Hands-on Course for OR Nurses, Ethicon Endo-surgery Osaka HQ, Osaka, Japan
- 08/22/2008 Speaker: "NOTES: its possibility and related RD efforts" at Hakko Medical Co. Ltd., Nagano, Japan
- 09/02/2008 Speaker: "Transvaginal NOTES partial gastrectomy using i-NOLC flexible staplers" at Power Medical Interventions Sponsored Symposium in JSES annual congress, Yokohama, Japan
- 09/02/2008 Moderator: "NOTES experimental study", 21st Japan Society for Endoscopic Surgery, Yokohama, Japan
- 09/04/2008 Speaker: "Use of carbon dioxide as an insufflating agent for GI endoscopy" at Booth Lecture "How CO2 can improve your OR Environment?" sponsored by Olympus Medical Systems, 11th World Congress of Endoscopic Surgery, Yokohama, Japan
- 09/27/2008 Moderator: "New treatment strategy using gene targeting drugs in gastrointestinal diseases" at 89th Japan DDW Kinki chapter, Osaka, Japan
- 10/12/2008 Speaker: "Transvaginal NOTES partial gastrectomy" at Power Medical Interventions Speakers' Series in ACS clinical congress, San Francisco, CA, USA
- 10/14/2008 Speaker: "Transvaginal NOTES partial gastrectomy" at Power Medical Interventions Booth Talk in ACS clinical congress, San Francisco, CA, USA
- 10/29/2008 Speaker: "NOTES, towards ultra-minimally invasive surgery" presented at Medical Grand Rounds, Aichi Cancer Center, Nagoya, Japan
- 11/10/2008 Speaker: "Insufflation techniques for NOTES" presented at 2nd international NOTES W.I.D.E.R. – Barcelona, Barcelona, Spain
- 11/11/2008 Speaker: "Transvaginal NOTES partial gastrectomy for gastric SMTs" presented at 2nd international NOTES W.I.D.E.R. – Barcelona, Barcelona, Spain
- 11/11/2008 Moderator: "Human NOTES cases" at 2nd international NOTES W.I.D.E.R. – Barcelona, Barcelona, Spain
- 11/27/2008 Speaker: "Luncheon Seminar: Human transvaginal NOTES partial gastrectomy" at 70th Japan Surgical Association Annual Meeting, Tokyo, Japan
- 12/13/2008 Faculty, Laparoscopic Colon Surgery Hands-on Course, Cornell University, New York, NY, USA (Course Director: Jeffrey W. Milsom, M.D.)
- 12/15/2008 Speaker: "Invited Lecture: Access, insufflation and closure" presented at New York - Presbyterian Hospital Second Annual International NOTES Course, Rockefeller University, New York, NY, USA
- 12/15/2008 Faculty, NOTES simulation lab, New York-Presbyterian Hospital Second Annual International NOTES Course, Cornell University, New York, NY, USA
- 12/16/2008 Faculty, NOTES cadaver lab, New York-Presbyterian Hospital Second Annual International NOTES Course, Cornell University, New York, NY, USA

- 01/10/2009 Speaker: "Invited Lecture: Transvaginal NOTES Partial Gastrectomy for Gastric SMTs" presented at Power Medical Interventions 6th Annual Winter Symposium, Deer Valley, UT, USA
- 01/23/2009 Speaker: "Invited Lecture: NOTES - its current status and our challenge -" presented at 1st Fukuyama Advanced MIS Conference, Fukuyama, Japan
- 02/10/2009 Speaker: "Invited Lecture: NOTES – challenge to the ultra-minimally invasive surgery -" presented at Kure Endoscopic Surgery Seminar, Kure, Hiroshima, Japan
- 02/28/2009 Moderator: "Cases difficult to diagnose" on IBD Club Junior West, The Mainichi Oval Hall Auditorium, Osaka, Japan
- 03/14/2009 Speaker: "Invited Lecture: NOTES – its first clinical case in Japan" presented at 10th Winter Seminar, Kiroro, Hokkaido, Japan
- 04/19/2009 Speaker: "How to simulate transvaginal NOTES in animals" presented at Didactic session of 1st Japan NOTES Hands-on Course, Olympus Medical Technology Education Center (M-TEC), Hachioji, Japan
- 04/19/2009 Faculty, 1st Japan NOTES Hands-on Course, Olympus Medical Technology Education Center (M-TEC), Hachioji, Japan
- 07/22/2009 Faculty, NOTES Hands-on Training Lab, Kyushu University ESTC, Fukuoka, Japan
- 07/22/2009 Speaker: "NOTES gastrectomy: our first human experience" presented at 46th Integration of Advanced Medicine and Innovative Technology Seminar, Kyushu University, Fukuoka, Japan
- 09/07/2009 Speaker: "Problems related to endoscopic insufflation" presented at 3rd international NOTES W.I.D.E.R. – Barcelona, Barcelona, Spain
- 09/08/2009 Speaker: "Transvaginal partial gastrectomy for gastric SMTs" presented at 3rd international NOTES W.I.D.E.R. – Barcelona, Barcelona, Spain
- 09/08/2009 Moderator: "NOTES human cases attended" at 3rd international NOTES W.I.D.E.R. – Barcelona, Barcelona, Spain
- 10/30/2009 Speaker: "Invited Lecture: NOTES - current status and perspective -" presented at 5th Osaka City University Minimally Invasive Surgery Seminar, Osaka, Japan
- 11/12/2009 Speaker: "Special Lecture: NOTES as a gastric surgery" presented at 61st Annual Congress of the Korean Surgical Society, Seoul, Korea
- 12/04/2009 Speaker: "Invited Talk: Current status of NOTES in Japan – from a surgeon's point of view" presented at JSES/SAGES Joint Symposium at 22nd Annual Congress of Japanese Society for Endoscopic Surgeons, Tokyo, Japan
- 12/06/2009 Faculty, 2nd Japan NOTES Hands-on Course, Olympus Medical Technology Education Center (M-TEC), Hachioji, Japan
- 01/23/2010 Speaker: "NOTES for gastrointestinal diseases" presented at 69th Tokai Seminar for Japan Gastroenterological Endoscopy Society, Aichi Cancer Center International Conference Hall, Nagoya, Japan
- 02/20/2010 Speaker: "Researches and human trials on NOTES" presented at 1st NOTES/SILS conference, Istanbul American Hospital, Istanbul, Turkey
- 02/20/2010 Speaker: "Endoluminal procedures (upper GI)" presented at 1st NOTES/SILS conference, Istanbul American Hospital, Istanbul, Turkey
- 02/20/2010 Moderator: "NOTES clinical approaches" at 1st NOTES/SILS conference, Istanbul American Hospital, Istanbul, Turkey
- 03/26/2010 Speaker: "NOTES and future integration of GI endoscopy and laparoscopic surgery" presented at Laparoscopic Conference of South Osaka, Sakai, Japan
- 06/04/2010 Speaker: "Minimally invasive surgical approaches for GISTs" presented at In-service Seminar of Novartis Pharmaceuticals Corporation, Osaka, Japan
- 06/12/2010 Speaker: "Invited Lecture: Surgical treatment of gastroesophageal reflux disease" presented at 6th Suita Clinical Conference, Suita, Japan

- 07/14/2010 Speaker: "Luncheon seminar: Minimally invasive surgical approaches to gastric GISTs" presented at 65th annual congress of Japanese Society of Gastroenterological Surgery, Shimonoseki, Japan
- 09/02/2010 Speaker: "Integration of flexible GI endoscopy and laparoscopy for next generation endoscopic intervention" presented at 1st Metropolitan Medicine-Industry Collaboration Forum, Tokyo, Japan
- 09/04/2010 Speaker: "Invited Lecture: NOTES and its spin-off technology" presented at 15th Digestive Disease Renaissance, Osaka, Japan
- 10/02/2010 Speaker: "Invited Lecture: Minimally invasive surgery for IBD: an update" presented at 5th Japan-Korea IBD Symposium, Seoul, Korea
- 10/15/2010 Speaker: "Next generation over-tube system" presented at TOP Booth Seminar (JDDW 2010), Yokohama, Japan
- 10/17/2010 Speaker: "Debate -NOTES vs. Single incision laparoscopic surgery-" presented at 4th Japan NOTES Conference, Yokohama, Japan
- 10/18/2010 Moderator: "Session NOTES" at 23rd JSES meeting, Yokohama, Japan
- 11/19/2010 Speaker: "Special lecture: NOTES and its spin-off technologies" presented at 62nd Korean Surgical Society international symposium, Seoul, Korea
- 12/13/2010 Speaker: "Steady pressure automatically controlled endoscopy (SPACE): its concept and possibility" presented at 4th international NOTES W.I.D.E.R. – Barcelona, Barcelona, Spain
- 12/13/2010 Speaker: "Progress from the R&D frontline: innovation and spin-off" presented at 4th international NOTES W.I.D.E.R. – Barcelona, Barcelona, Spain
- 12/14/2010 Speaker: "Transvaginal gastrectomy" presented at 4th international NOTES W.I.D.E.R. – Barcelona, Barcelona, Spain
- 12/13/2010 Moderator: "Session Human NOTES" at 4th international NOTES W.I.D.E.R. – Barcelona, Barcelona, Spain
- 02/18/2011 Speaker: "Endoluminal procedures: Upper GI system" presented at 2nd NOTES/SILS conference, Istanbul American Hospital, Istanbul, Turkey
- 02/18/2011 Speaker: "New generation devices" presented at 2nd NOTES/SILS conference, Istanbul American Hospital, Istanbul, Turkey
- 02/18/2011 Moderator: "NOTES human cases" at 2nd NOTES/SILS conference, Istanbul American Hospital, Istanbul, Turkey
- 02/19/2011 Speaker: "Single incision laparoscopic fundoplication" presented at 2nd NOTES/SILS conference, Istanbul American Hospital, Istanbul, Turkey
- 03/04/2011 Speaker: "Luncheon seminar: Minimally invasive surgical approaches to gastric GISTs, from laparoscopy to SILS and NOTES" presented at 83rd annual congress of Japanese Gastric Cancer Association, Aomori, Japan
- 03/31/2011 Speaker: "Basic Procedures with Anatomical Approach: Laparoscopic D3 lymph node dissection with preservation of the left colic artery for cancer in the sigmoid colon" presented at SAGES/JSES Joint Panel "What's new in Lower GI Surgery", San Antonio, TX, USA
- 05/09/2011 Speaker: "Steady pressure automatically controlled endoscopy (SPACE): a new modality in gastrointestinal endoscopic intervention" presented at DDW, Chicago, USA
- 07/23/2011 Speaker: "NOTES and SPACE, a future of GI endoscopy" presented at The 4th Kure International Medical Forum (KINT), Kure, Japan
- 07/23/2011 Moderator: "Recent progress in laparoscopic surgery (2)" at The 4th Kure International Medical Forum (KINT), Kure, Japan
- 08/18/2011 Speaker: "Luncheon seminar: Carbon dioxide insufflating endoscopy – towards steady pressure endoscopy" presented at 81st annual congress of Japan Gastroenterological Endoscopy Society, Nagoya, Japan
- 09/26/2011 Guest speaker: "Proposal from Osaka" presented at industry-academia collaborative work discussion, ERBE Elektromedizin GmbH, Tübingen, Germany
- 10/15/2011 Speaker: "NOTES – our clinical experience –" presented at 24th Kinki Society of Endoscopic Surgery, Osaka, Japan

- 11/18/2011 Moderator: "Breakfast symposium: Step forward for pure NOTES" at 61st Congress of the Korean Society of Gastrointestinal Endoscopy, Seoul, Korea
- 11/18/2011 Speaker: "The NOTES spin-off: Steady Pressure Automatically Controlled Endoscopy (SPACE)" presented at 61st Congress of the Korean Society of Gastrointestinal Endoscopy, Seoul, Korea
- 11/18/2011 Speaker: "Special lecture: State of NOTES in Japan" presented at 61st Congress of the Korean Society of Gastrointestinal Endoscopy, Seoul, Korea
- 11/21/2011 Speaker: "Progress from the R&D frontline: How instruments can improve your NOTES procedure" presented at 5th international NOTES W.I.D.E.R. – Barcelona, Barcelona, Spain
- 11/22/2011 Speaker: "Esophageal ESD under steady pressure endoscopy: Results of multicenter basic phase I trial" presented at 5th international NOTES W.I.D.E.R. – Barcelona, Barcelona, Spain
- 12/06/2011 Speaker: "Transvaginal NOTES gastrectomy: An update" presented at 5th Japan NOTES Conference, Yokohama, Japan
- 12/08/2011 Moderator: "NOTES: its future perspective" at 24th Annual Congress of Japanese Society for Endoscopic Surgeons, Osaka, Japan
- 01/20/2012 Speaker: "Endoscopic intervention for upper GI diseases: an update" at 25th EGMR Conference, Tokyo, Japan
- 03/17/2012 Moderator: "Workshop: Borderline between endoluminal surgery and laparoscopic surgery" at 88th Japan Gastroenterological Endoscopy Society Kinki Chapter, Osaka, Japan
- 04/26/2012 Speaker: "Steady pressure endoscopy: a new modality" at The First Annual Peter D. Stevens Course on Interventional Innovations in Digestive Care, New York, NY, USA
- 06/20/2012 Speaker: "Practical aspect of medical device development" at 3rd Medical Device Development & Manufacturing Technology Expo, Tokyo, Japan
- 06/23/2012 Speaker: "Three dimensional anatomical measurements for safe and effective use of rigid instruments in transvaginal NOTES" at 20th International Meeting of European Association for Endoscopic Surgery (EAES), Brussels, Belgium
- 07/18/2012 Moderator: "NOTES" at 67th Japanese Society of Gastroenterological Surgery, Toyama, Japan
- 07/19/2012 Speaker: "Function of gastric remnant after laparoscopic partial gastrectomy" at 67th Japanese Society of Gastroenterological Surgery, Toyama, Japan
- 10/12/2012 Speaker: "Next generation endoscopy that Leak Cutter realizes" presented at TOP Booth Seminar (JDDW 2012), Kobe, Japan
- 10/14/2012 Program co-director, The Inaugural SPACE LAB KANSAI Seminar & Hands-on Workshop, Kobe, Japan
- 10/14/2012 Speaker: "Introduction" at The Inaugural SPACE LAB KANSAI Seminar & Hands-on Workshop, Kobe, Japan
- 10/14/2012 Moderator: "Pre-course didactics" at The Inaugural SPACE LAB KANSAI Seminar & Hands-on Workshop, Kobe, Japan
- 11/29/2012 Speaker: "Special lecture: Next generation endoscopy and its related devices" at Shape Memory Alloys Symposium 2012, Kobe, Japan
- 12/01/2012 Moderator: "Video Symposium: Can NOTES survive?" at 74th Japan Surgical Association Annual Meeting, Tokyo, Japan
- 12/03/2012 Speaker: "SPACE and prototype devices" presented at 6th international NOTES W.I.D.E.R. – Barcelona, Barcelona, Spain
- 12/05/2012 Speaker: "Invited talk: Current R&D activities derived from NOTES researches" presented at 6th Japan NOTES Conference, Yokohama, Japan
- 12/07/2012 Speaker: "Transvaginal gastrectomy" presented at 25th Annual Congress of Japanese Society for Endoscopic Surgeons, Yokohama, Japan
- 12/07/2012 Speaker: "R&D and industry-academia collaborative work" presented at 25th Annual Congress of Japanese Society for Endoscopic Surgeons, Yokohama, Japan
- 01/17/2013 Speaker: "Steady pressure endoscopy and related ENGINE products" presented at the 1st Research Meeting of JSPS Bilateral Research Project, National University of Singapore, Singapore

- 01/18/2013 Speaker: "Necessary developments to make MASTER robotic system compatible with SPACE" presented at the 1st Research Meeting of JSPS Bilateral Research Project, Nanyang Technological University, Singapore
- 02/16/2013 Moderator: "Symposium: Innovation in treatment of gastrointestinal diseases" at 98th Kinki Chapter of the Japanese Society of Gastroenterology, Kobe, Japan
- 03/08/2013 Speaker: "Invited Lecture: R&D of instrumentation for next generation endoscopy: through the integration of flexible endoscopy and laparoscopy" presented at 2nd International Workshop on "HALIDAT-GC", Chiba University, Chiba, Japan
- 03/12/2013 Speaker: "Invited Lecture: Next generation "integrated" endoscopic devices inspired by NOTES" presented at 2nd MIS conference, National Cancer Center Hospital East, Chiba, Japan
- 03/12/2013 Speaker: "Steady pressure endoscopy" presented at National Cancer Center Monthly Teleconference, Chiba, Japan
- 03/30/2013 Speaker: "Invited Lecture: NOTES/SILS" presented at 10th Kinki GIST Research Group Meeting, Osaka, Japan
- 04/11/2013 Moderator: "Colorectal cancer: Tumor markers" at 113th Annual Congress of Japan Surgical Society, Fukuoka, Japan
- 04/11/2013 Speaker: "Video symposium: Next generation endoscopic surgery via integration of flexible endoscopy and laparoscopic surgery" presented at 113th Annual Congress of Japan Surgical Society, Fukuoka, Japan
- 04/27/2013 Moderator: "Session: Indication for duodenal lesions" at 7th Japan LECS society, Tokyo, Japan
- 05/11/2013 Speaker: "R&D towards next generation endoscopic surgery" presented at Osaka University Pediatric Surgery Alumni Association, Osaka, Japan
- 05/18/2013 Speaker: "Introduction of new division: Next generation endoscopic intervention" presented at Osaka University First Department of Surgery Alumni Association, Osaka, Japan
- 05/27/2013 Speaker: "Transvaginal approach" presented at 4th NOTES/SILS conference, Istanbul American Hospital, Istanbul, Turkey
- 05/27/2013 Speaker: "Transvaginal partial gastrectomy" presented at 4th NOTES/SILS conference, Istanbul American Hospital, Istanbul, Turkey
- 05/27/2013 Speaker: "Laparoscopy – endoscopy combined approach" presented at 4th NOTES/SILS conference, Istanbul American Hospital, Istanbul, Turkey
- 05/28/2013 Moderator: "Session: NOTES clinical experiences update" at 4th NOTES/SILS conference, Istanbul American Hospital, Istanbul, Turkey
- 05/28/2013 Speaker: "LESS GERD" presented at 4th NOTES/SILS conference, Istanbul American Hospital, Istanbul, Turkey
- 05/28/2013 Speaker: "Current R&D activity of Project ENGINE" presented at 4th NOTES/SILS conference, Istanbul American Hospital, Istanbul, Turkey
- 06/01/2013 Speaker: "Special Lecture: Development of new endoscopic devices through industry-academia collaboration" presented at 4th MEDFERE-Kagawa, Kagawa, Japan
- 06/21/2013 Speaker: "Invited Lecture: Management of intellectual property in R&D of medical devices" presented at 5th Japanese Orthopaedic Society of Knee, Arthroscopy and Sports Medicine (JOSKAS), Sapporo, Japan
- 07/02/2013 Speaker: "Special Lecture" at Division of Sustainable Energy and Environmental Engineering, Graduate School of Engineering, Osaka University, Osaka, Japan
- 07/12/2013 Speaker: "Lecture: R&D of medical devices via integration of endoscopy and laparoscopy" presented at 3D Matrix in-house Seminar, Tokyo, Japan
- 07/31/2013 Speaker: "SPACE and MASTER, a system overview" presented at the 2nd Research Meeting of JSPS Bilateral Research Project, National University of Singapore, Singapore
- 09/13/2013 Speaker: "Development of medical devices: from a surgeon's standpoint" presented at 1st NEXT meeting, National Cancer Center Hospital East, Chiba, Japan
- 09/14/2013 Moderator: "Reduced port surgery" at 26th Kinki Society for Endoscopic Surgery, Nara, Japan

- 09/20/2013 Speaker: "Traction and retraction, a surgical principal" presented at Tokusen Kogyo R&D seminar, Ono, Hyogo, Japan
- 09/28/2013 Speaker: "Invited lecture: Next generation endoscopy – a paradigm shift in endoscopic intervention –" presented at The Japanese Society of Pediatric Surgeons, Annual meeting of Chugoku-Shikoku chapter, Okayama, Japan
- 10/01/2013 Speaker: "Next generation endoscopy and related devices" presented at Top Coop. Research Seminar, Simotsuma, Tochigi, Japan
- 10/16/2013 Speaker: "Invited lecture at ESGE-JGES Joint Symposium "Minimally-invasive therapy: European and Japanese perspectives": "What would be required in the tool box for future endoscopic interventions? From a surgeon's perspective" presented at 21th UEG Week, Berlin, Germany
- 11/08/2013 Speaker: "Surgical smoke: a new risk in your OR" presented at Evening Seminar, 35th Annual Congress of Japan Association for Operative Medicine, Yokohama, Japan
- 11/27/2013 Moderator: "Quo Vadis? Review of Japan NOTES" at 7th Japan NOTES Conference, Fukuoka, Japan
- 01/21/2014 Speaker: "Things to know...What you should see and learn in your mission" at the Orientation Program for Minnesota Device Business Crash Course, Osaka, Japan
- 02/07/2014 Moderator: "EndoMaster: A journey from bench to bedside and beyond" by Professor Louis Phee (NTU) at 24th Osaka University Medical Informatics Symposium, Osaka, Japan
- 02/08/2014 Program co-director, The 2nd SPACE LAB KANSAI Seminar & Hands-on Workshop, Kobe, Japan
- 02/19/2014 Speaker: "R&D of medical devices via academia-industry collaboration: how to match, manufacture, learn and sell" at 11th Business Link Seminar, Osaka, Japan
- 02/26/2014 Speaker: "Cutting edge of medical device development" at Healthcare Human Resource Development Program, Tokyo, Japan
- 02/18/2014 Speaker: "Challenge to the next generation endoscopic intervention" at Fukuyama Medical Center Open Conference, Fukuyama, Japan
- 03/05/2014 Speaker: "Development of affordable medical devices with appropriate performance" at Seminar on Connectivity of SMEs between Laos and Japan, National University of Laos, Vientiane, Lao PDR
- 03/22/2014 Live surgery demonstration: 8th AIIMS Surgical Week - International Minimal Access Surgery Conference, All India Institute of Medical Sciences, Delhi, India
- 03/22/2014 Speaker: "Next generation endoscopy and related procedures: beyond NOTES" at 8th AIIMS Surgical Week - International Minimal Access Surgery Conference, All India Institute of Medical Sciences, Delhi, India
- 04/03/2014 Moderator: "Inflammatory bowel disease and miscellaneous" at 114th Annual Congress of Japan Surgical Society, Kyoto, Japan
- 04/07/2014 Speaker: "Reverse innovation in medical devices R&D" at Center for Future Medicine, FUJITSU Corporation, Tokyo, Japan
- 04/18/2014 Speaker: "R&D of affordable medical devices in emerging countries" at the First Official Meeting of Project HEART (Healthcare engineering using appropriate and reasonable technologies), Osaka, Japan
- 04/30/2014 Speaker: "Introduction of Project HEART, a next step" at R&D meeting, Sakura Holdings Co., Ltd., Tokyo, Japan
- 05/08/2014 Speaker: "Challenge to the next generation endoscopic intervention, beyond NOTES" at the 117th Nimokukai Conference, Sapporo, Japan
- 05/17/2014 Speaker: "Pressure regulated colonoscopy and related procedures" at The American Society of Colon & Rectal Surgeons Annual Scientific Meeting, Hollywood, FL, USA
- 06/07/2014 Speaker: "Next Generation Endoscopic Devices" at Mini Symposium "Robotics for GI Endoscopy," JSPS bilateral joint research program, National University of Singapore, Singapore
- 06/20/2014 Speaker: "R&D of medical devices for universal health coverage: "from Japan" to "from Asia"" at regular meeting of OMETA (Overseas Medical Equipment Technical Assistants), Tokyo, Japan

- 07/11/2014 Speaker: "Project ENGINE, Our R&D efforts and achievements" at 1st MINT-ENGINE meeting, Cornell University MINT program, New York, NY, USA
- 07/18/2014 Moderator: "Basic science, stomach and duodenum" at 69th Annual Meeting of Japanese Society of Gastroenterological Surgery, Fukushima, Japan
- 08/02/2014 Moderator: "Academia-industry collaboration" at 3rd Reduced Port Surgery Forum 2014 in Fukui, Fukui, Japan
- 08/14/2014 Speaker: "Project ENGINE, Our R&D efforts and achievements" at 1st Apollo-ENGINE meeting, Apollo Endosurgery, Austin, TX, USA
- 08/30/2014 Speaker: "Medical device R&D for next generation endoscopy" at Osaka University Medical School 1992 Graduates Alumni, Osaka, Japan
- 09/05/2014 Speaker: "Team building for academia-industry collaboration" at NEDO kick-off meeting, Keio University, Tokyo, Japan
- 09/19/2014 Speaker: "Colonic Endoscopic Submucosal Dissection by a combination of a novel endoscopic robot and a novel insufflation device. MASTER-SPACE ESD" at American society for gastrointestinal endoscopy (ASGE), Las Vegas, USA
- 09/29/2014 Speaker: "Flexible endoscopic devices rediscovered: from surgeon's perspective" at Hakko Co., Ltd., MR annual meeting, Tokyo, Japan
- 10/01/2014 Moderator: "Special session; A challenge to medical-engineering cooperation and advanced device development" at 8th Japan Consortium for Advanced Surg Endosc (J-CASE), Morioka, Japan
- 10/03/2014 Moderator: "Near-futuristic Hybrid Surgery" at 27th Annual Meeting of Japan Society for Endoscopic Surgery, Morioka, Japan
- 10/04/2014 Moderator: "Let's give shapes to surgeons' thoughts" at 27th Annual Meeting of Japan Society for Endoscopic Surgery, Morioka, Japan
- 10/07/2014 Opening remark at 1st Business Seminar for Medical Devices, granted by Ministry of Labor, Health and Welfare, Osaka, Japan
- 10/08/2014 Closing remark at 1st Business Seminar for Medical Devices, granted by Ministry of Labor, Health and Welfare, Osaka, Japan
- 10/13/2014 Speaker: "R&D of medical devices: What we can build together" at AIIMS-Osaka University Joint Workshop & Singing ceremony of MoU, Delhi, India
- 10/25/2014 Speaker: "Key Note Lecture: Flexible and Rigid Endoscopies - How We Can Step Across Their Boundary" at JDDW 2014, Kobe, Japan
- 11/01/2014 Course Director: COI vision dialogue tool development 1st session, Osaka, Japan
- 11/22/2014 Moderator: "The new trial under endoscopic surgery" at 76th Annual Congress of Japan Surgical Association, Fukushima, Japan
- 12/01/2014 Speaker: "Special Lecture: Future of NOTES. A new tool box from ENGINE for next generation endoscopy" at 8th Annual Meeting of International NOTES WIDER, Barcelona, Spain
- 12/01/2014 Speaker: "Key Note Lecture: Single incision laparoscopic intragastric surgery" at 8th Annual Meeting of International NOTES WIDER, Barcelona, Spain
- 12/02/2014 Speaker: "Dinner Talk: Endoscopic insufflation revisited: from air to CO2, from manual to automatic" at 8th Annual Meeting of International NOTES WIDER, Barcelona, Spain
- 12/08/2014 Speaker: "The role of industry-academia collaboration which changes the world" at 7th Osaka University Division of Collaborative Research Symposium, Osaka, Japan
- 01/24/2015 Course Director: COI vision dialogue tool development 2nd session, Kobe, Japan
- 02/02/2015 Speaker: "R&D of medical devices for UHC" at 1st MOU meeting, Lao ASEAN Hospital, Vientiane, Lao PDR
- 02/03/2015 Speaker: "R&D of medical devices for UHC" at 1st MOU meeting, Mahosot Hospital, Vientiane, Lao PDR

- 02/20/2015 Speaker: "Special Lecture: Project ENGINE, Our R&D Efforts and Achievements" at Academisch Medical Center, Amsterdam, Netherland
- 02/24/2015 Opening remark at AMED "Project to Build Foundations to Support and Incentivize Development of Medical Devices Made in Japan" Joint Symposium, Osaka International Convention Center, Osaka, Japan
- 02/24/2015 Session moderator: AMED "Project to Build Foundations to Support and Incentivize Development of Medical Devices Made in Japan" Joint Symposium, Project ENGINE, Osaka, Japan
- 02/25/2015 Course director: Animal Lab demonstration of novel endoscopic devices, 1st bilateral joint research project between Osaka University and All India Institute of Medical Sciences (AIIMS), COMIT Animal Lab, Osaka, Japan
- 02/28/2015 Invited speaker: "Special Lecture: The front line of research and development of next generation endoscopy" at 21st Nara Endoscopic Surgery Seminar, Nara, Japan
- 03/04/2015 Moderator: "To overcome the issues of investment environment in Laos –the hope which the development of medical devices gives, by Professor Motoyoshi Suzuki" at Project HEART Emerging Countries Countermeasure Seminar sponsored by Project HEART, Osaka, Japan
- 03/14/2015 Speaker: "R&D of Medical Devices via Collaboration between AIIMS and Osaka University" at 9th AIIMS Surgical Week - International Minimal Access Surgery Conference, All India Institute of Medical Sciences, Delhi, India
- 04/06/2015 Speaker: "R&D of medical devices via academia-industry collaboration" at Annual Meeting of GS-1 Healthcare Consortium, Tokyo, Japan
- 05/17/2015 Speaker: "Next Generation Endoscopy – through surgeon's eyes" at the 3rd ASGE/JGES International Symposium, DDW, Washington DC, USA
- 05/26/2015 Speaker: "Special Lecture" at Division of Sustainable Energy and Environmental Engineering, Graduate School of Engineering, Osaka University, Osaka, Japan
- 05/31/2015 Speaker: "R&D of peripheral device to realize steady pressure automatically controlled endoscopy (SPACE)" at Japan Gastroenterological Endoscopy Society, Nagoya, Japan
- 06/29/2015 Speaker: "Osaka University – Fujitsu Joint Development Project" at Nanjing Fujitsu Nanda Software Technology Co., Ltd, Nanjing, China
- 06/29/2015 Speaker: "Project ENGINE, its recent activity and outcomes" at Nanjing Drum Tower Hospital, Nanjing, China
- 06/30/2015 Speaker: "Project ENGINE, its recent activity and outcomes" at Rui Jin Hospital Shanghai Jiao Tong University of Medicine, Shanghai, China
- 07/16/2015 Moderator: "Colorectal cancer: surgical technique (reduced port surgery)" at 70th Annual Meeting of Japanese Society of Gastroenterological Surgery, Hamamatsu, Japan
- 07/21/2015 Opening remark at 2nd Business Seminar for Medical Devices, granted by Ministry of Labor, Health and Welfare, Osaka, Japan
- 07/21/2015 Speaker: "Surgical Equipment: Hands On 1" at 2nd Basic Business Seminar for Medical Devices, granted by Ministry of Labor, Health and Welfare, Osaka, Japan
- 07/22/2015 Speaker: "Surgical Equipment: Hands On 2" at 2nd Basic Business Seminar for Medical Devices, granted by Ministry of Labor, Health and Welfare, Osaka, Japan
- 07/22/2015 Closing remark at 2nd Basic Business Seminar for Medical Devices, granted by Ministry of Labor, Health and Welfare, Osaka, Japan
- 07/25/2015 Speaker: "NOTES: Lessons learned and perspective for future surgery" at 22nd Surgery Forum, Tokyo Japan
- 08/01/2015 Moderator: "New surgical technique" at 4th Reduced Port Surgery Forum 2015 in Akita, Akita, Japan



- 08/05/2015 Speaker: "Development of medical devices based on "unmet clinical needs": Are we on the right track?" at International Symposium on Advanced Medical Device Development: Trends and Future, Osaka University International Education Program "Summer School," Osaka, Japan
- 08/31/2015 Course director at 2nd Clinical Training, granted by Japan Agency for Medical Research and Development, Osaka, Japan
- 09/11/2015 Course director at 2nd Systematic review meeting of unmet clinical needs, granted by Japan Agency for Medical Research and Development, Osaka, Japan
- 09/12/2015 Moderator: "How to handle Energy Devices ~electric scalpel and ultrasonic scalpel~" at the 28th Annual meeting of the Kinki Society for Endoscopic Surgery, Wakayama, Japan
- 09/21/2015 Course director, 1st Japanese delegation to AIIMS "India Mission 2015," All India Institute of Medical Sciences, Delhi, India
- 09/22/2015 Course director, 1st Japanese delegation to AIIMS "Cadaveric Lab," All India Institute of Medical Sciences, Delhi, India
- 10/09/2015 Moderator: "Stomach - Endoscopic surgery (Malignant tumors) 4" at the 13th Annual Meeting of the Japanese Society of Gastroenterological Surgery, JDDW 2015, Tokyo, Japan
- 10/10/2015 Moderator: "Medical device development, LECS, GERD treatment and more" at 9th Japan Consortium for Advanced Surg Endosc (J-CASE), Tokyo, Japan
- 10/13/2015 Opening remark: 2nd Advanced Business Seminar for Medical Devices AMED "Project to Build Foundations to Support and Incentivize Development of Medical Devices Made in Japan"
- 10/13/2015 Speaker: "Acquisition of external funds" at 2nd Advanced Business Seminar for Medical Devices AMED "Project to Build Foundations to Support and Incentivize Development of Medical Devices Made in Japan"
- 10/22/2015 Speaker: "Aiming for the ultimate painless operation" at Overseas Vocational Training Association, Training program for South-American of Japanese descent, Osaka, Japan
- 10/28/2015 Course director, 1st ENGINE (Osaka University) - MINT (Cornell University) collaborative animal workshop, Kobe, Japan
- 11/12/2015 Speaker: "Aiming for the ultimate painless surgery" at Osaka University Our Reach Educational Program "Super School: Osaka University x Knowledge Capital," Osaka, Japan
- 11/18/2015 Speaker: "CO2 stabilizer for endoscopic diagnosis and interventions" 6th Endocourse Milan 2015, Milano, Italy
- 11/19/2015 Speaker: "Project ENGINE: Our R&D and Achievements" at AIMS Academy, Milan, Italy
- 11/19/2015 Speaker: "ENGINE & HEART: R&D of UHC Devices based on Unmet Needs in LMICs" at AIMS Academy, Milan, Italy
- 11/22/2015 Speaker: "What is the medical device which doctors need?" at 24th Annual Congress of Japan Society of Computer Aided Surgery, Tokyo, Japan
- 11/23/2015 Speaker: "A novel portable endoscopy system for universal access" at 9th International NOTES W.I.D.E.R., Barcelona, Spain
- 11/23/2015 Commentator: Live surgery session, at 9th International NOTES W.I.D.E.R., Barcelona, Spain
- 11/23/2015 Moderator: "Simposio-Cena de Bienvenida" at 9th International NOTES W.I.D.E.R., Barcelona, Spain
- 11/27/2015 Moderator: "The surgical procedure and device of endoscopic surgery" at 77th Annual Congress of Japan Surgical Association, Fukuoka, Japan
- 11/28/2015 Moderator: at "The 2nd Nakanoshima General Medical Conference", Osaka, Japan

- 12/10/2015 Speaker: "Tailored approach to gastric submucosal tumor" at the 28th Annual Meeting of the Japan Society for Endoscopic Surgery, Osaka, Japan
- 12/12/2015 Tour Organizer: at the 28th Annual Meeting of the Japan Society for Endoscopic Surgery, Osaka, Japan
- 01/09/2016 Speaker: "The front line of medical device development: Cross the boundary between flexible GI endoscopy and rigid laparoscopy" at the 5th Festa di FRESTA, Fukui Red Cross Hospital Endoscopic Surgery Training Academy Forum, Fukui, Japan
- 02/19/2016 Speaker: "Visualization of endoscopic surgery project for networking of medical devices" at the 13th AutoID & Communication EXPO, Osaka, Japan
- 02/19/2016 Speaker: "The front line of medical device development: Cross the boundary" at the 27th Kansai Intestinal Disorder Seminar, Osaka, Japan
- 02/23/2016 Opening remark at AMED "Project to Build Foundations to Support and Incentivize Development of Medical Devices Made in Japan" at the Joint Symposium, Osaka International Convention Center, Osaka, Japan
- 02/23/2016 Session moderator: AMED "Project to Build Foundations to Support and Incentivize Development of Medical Devices Made in Japan" at the Joint Symposium, Project ENGINE, Osaka, Japan
- 02/29/2016 Speaker: "Efforts of Osaka University Hospital on Project to Build Foundations to Support and Incentivize Development of Medical Devices Made in Japan" at Mitsubishi Research Institute, Inc., Tokyo, Japan
- 03/11/2016 Speaker: "Expectation for Utilization of Medical Device Data – A proposal from the clinical site" at the 2nd meeting of Medical Device Data Collection and Utilization WG, Tokyo, Japan
- 04/15/2016 Speaker: "Development History of Suction Ball Coagulator" the AMCO booth seminar, at the 116th Annual Congress of Japan Surgical Society, Osaka, Japan
- 04/16/2016 Moderator: "the colon and others" at the 116th Annual Congress of Japan Surgical Society, Osaka, Japan
- 05/14/2016 Speaker: "The development of peripheral device to fill a gap between flexible endoscopes and rigid endoscopes" at the 91st Congress of the Japan Gastroenterological Endoscopy Society, Tokyo, Japan
- 05/31/2016 Speaker: "Special Lecture" at Division of Sustainable Energy and Environmental Engineering, Graduate School of Engineering, Osaka University, Osaka, Japan
- 06/02/2016 Speaker: "The front line of research and development of medical device" at the Osaka Clinical Surgeon Medical Association Academic Meeting, Osaka, Japan
- 06/10/2016 Speaker: "The feasibility study of international standardization of data input/output at endoscopic surgery" at International Standardization Project Kick-off Meeting, Osaka University Tokyo office, Tokyo, Japan
- 07/15/2016 Moderator: "Colon: laparoscopic surgery" at the 71st General Meeting of the Japanese Society of Gastroenterological Surgery, Tokushima, Japan
- 07/17/2016 Speaker: "Luncheon Seminar: New device Innovation for the treatment of gastrointestinal Lesions" at 16th Annual meeting of EMR/ESD Study Group, Tokyo, Japan
- 07/28/2016 Opening remark at AMED 3rd Basic Business Seminar for Medical Devices "Project to Build Foundations to Support and Incentivize Development of Medical Devices Made in Japan", Osaka, Japan
- 07/28/2016 Speaker: "What is necessary for the medical device developers?" at AMED 3rd Basic Business Seminar for Medical Devices, Osaka, Japan
- 07/28/2016 Speaker: "Basic Dissection and Medical Jargons" at AMED 3rd Basic Business Seminar for Medical Devices, Osaka, Japan
- 07/29/2016 Closing remark at 3rd Basic Business Seminar for Medical Devices, AMED, Health and Welfare, Osaka, Japan

- 08/22/2016 Course director at 3rd Clinical Training (1st Term), granted by Japan Agency for Medical Research and Development, Osaka, Japan
- 08/29/2016 Course director at 3rd Clinical Training (2nd Term), granted by Japan Agency for Medical Research and Development, Osaka, Japan
- 09/02/2016 Course director at 3rd Systematic review meeting of unmet clinical needs, granted by Japan Agency for Medical Research and Development, Osaka, Japan
- 10/02/2016 Course director, 2nd ENGINE (Osaka University) - MINT (Cornell University) collaborative animal workshop, Kobe, Japan
- 10/03/2016 Course director, 2nd ENGINE (Osaka University) - MINT (Cornell University) collaborative animal workshop, Kobe, Japan
- 10/04/2016 Opening remark: 3rd Advanced Business Seminar for Medical Devices AMED “Project to Build Foundations to Support and Incentivize Development of Medical Devices Made in Japan”, Osaka, Japan
- 10/04/2016 Speaker: “Acquisition of external funds” at 3rd Advanced Business Seminar for Medical Devices AMED “Project to Build Foundations to Support and Incentivize Development of Medical Devices Made in Japan”, Osaka, Japan
- 10/04/2016 Closing remark: 3rd Advanced Business Seminar for Medical Devices AMED “Project to Build Foundations to Support and Incentivize Development of Medical Devices Made in Japan”, Osaka, Japan
- 10/06/2016 Speaker: “All Japan Medical Device R&D Support System” at Oita University Seminar for Medical Devices AMED “Project to Build Foundations to Support and Incentivize Development of Medical Devices Made in Japan”, Oita, Japan
- 10/12/2016 Speaker: “Advancement of Minimally Invasive Surgical Treatment in Japan and related devices: From Japan to the world” at “Board of Directors’ Japan Visit” Medtronic, Tokyo, Japan
- 11/03/2016 Chair: “Digital Poster, Endoscopy ‘Upper GI 5’” at Asian Pacific Digestive Week (APDW) 2016, Kobe, Japan
- 11/04/2016 Speaker: “What did We Learn from NOTES Research?” at Asian Pacific Digestive Week (APDW) 2016, Kobe, Japan
- 11/06/2016 Course director at Hands-on animal workshop, granted by Japan Agency for Medical Research and Development, Osaka, Japan
- 11/14/2016 Speaker: “Proposal to standardize laparoscope/endoscope intervention” JISC presentation at ISO/TC215 WG2 (System and device interoperability), Lillehammer, Norway
- 11/16/2016 Speaker: “The next generation toolbox for interventional digestivist; from bench to clinics” at OLYMPUS Special evening lecture, Gothenburg, Sweden
- 11/21/2016 Speaker: “The R&D frontline: 10 years’ summary and towards next 10 years” at 10th international NOTES - W.I.D.E.R., Barcelona, Spain
- 11/21/2016 Commentator: Live session, “Session with video transmission from the Research Institute and Clinical Department Working Group” at 10th International NOTES W.I.D.E.R., Barcelona, Spain
- 11/21/2016 Moderator: “Simposio-Cena de Bienvenida” at 10th International NOTES W.I.D.E.R., Barcelona, Spain
- 11/25/2016 Moderator: “Stomach: Benign disease” at the 78th Annual Congress of Japan Surgical Association, Tokyo, Japan

- 12/07/2016 Moderator: "Development of Laparoscopic and Endoscopic Cooperative-Cholecystectomy (LEC-chole) -Single port endoscopic cholecystectomy- at the 10th Japan Consortium for Advanced Surg Endosc (J-CASE), Yokohama, Japan
- 12/08/2016 Speaker: "Apply for a patent of the IDEA before you tell it to somebody" at medical-engineering cooperation program of the 29th Annual Meeting of the Japan Society for Endoscopic Surgery, Yokohama Japan
- 12/10/2016 Speaker: "RFID Marking system which enables to grasp the position of deep minimal residual disease" at medical-engineering cooperation program of the 29th Annual Meeting of the Japan Society for Endoscopic Surgery, Yokohama Japan
- 01/27/2017 Speaker: "Opening remark at AMED "Project to Build Foundations to Support and Incentivize Development of Medical Devices Made in Japan" at the Joint Symposium, Project ENGINE, Osaka, Japan
- 01/27/2017 Session moderator: AMED "Project to Build Foundations to Support and Incentivize Development of Medical Devices Made in Japan" at the Joint Symposium, Project ENGINE, Osaka, Japan
- 01/27/2017 Speaker: "Closing remark at AMED "Project to Build Foundations to Support and Incentivize Development of Medical Devices Made in Japan" at the Joint Symposium, Project ENGINE, Osaka, Japan
- 01/31/2017 Speaker: "The front line of medical device development by academia-industry cooperation" at the Digestive Disease Study Group of 4 Hospitals in Nasu, Nasu, Japan
- 02/03/2017 Speaker: "Current status and future perspective" at Technology committee (short lecture), European Association for Endoscopic Surgery and other Interventional Techniques Wintermeeting & committee meetings, Frankfurt, Germany
- 02/03/2017 Speaker: "Current approach of JSES towards convergence of academic surgeons and industries for R&D of innovative medical devices" at Technology committee (short lecture), European Association for Endoscopic Surgery and other Interventional Techniques Wintermeeting & committee meetings, Frankfurt, Germany
- 02/19/2017 Moderator: "General Presentations 2" at the 49th Japanese Forum for Study of the Stomach, Nagoya, Japan
- 02/24/2017 Speaker: "Next generation integrated endoscopy treatment on digestive cancer: Lessons from the NOTES" at the Latest information of digestive cancer Seminar at Saiseikai Kumamoto Hospital, Kumamoto, Japan
- 02/25/2017 Course director, ENGINE (Osaka University) - MINT (Cornell University) collaborative animal workshop, Kobe, Japan
- 03/17/2017 Speaker: "How innovation works in the future" at the HCAP Tokyo Conference, Kyoto, Japan
- 04/19/2017 Speaker: "Health informatics – standardization of endoscopy-related data output" JISC presentation at ISO/TC215 WG2 (System and device interoperability), Hangzhou, China
- 04/25/2017 Speaker: "Development of Medical Device Needed at Medical Site – Medical Device Business utilizing Manufacturing Technology" Kinzai (Kinki Finance Bureau) x Knowledge Capital, Osaka, Japan
- 05/11/2017 Speaker: "Towards Next Generation Endoscopy" at the 91st Congress of the Japan Gastroenterological Endoscopy Society, Osaka, Japan
- 05/18/2017 Speaker: "R & D Team Building at a Medical Setting" at Thursday Salon of Knowledge Salon, Osaka, Japan
- 06/15/2017 Moderator: "S17 UGI1" at the 25th International Congress of the European Association for Endoscopic Surgery (EAES), Frankfurt, Germany
- 06/16/2017 Moderator: "S59 Best EAES videos in gastrointestinal surgery" at the 25th International Congress of the European Association for Endoscopic Surgery (EAES), Frankfurt, Germany

- 06/17/2017 Moderator: "S75 New technologies for training in surgery: the surgeon, the team, the patient" at the 25th International Congress of the European Association for Endoscopic Surgery (EAES), Frankfurt, Germany
- 06/20/2017 Speaker: "Special Lecture" at Division of Sustainable Energy and Environmental Engineering, Graduate School of Engineering, Osaka University, Osaka, Japan
- 07/07/2017 Opening remark at AMED 4th Basic Business Seminar for Medical Devices "Project to Build Foundations to Support and Incentivize Development of Medical Devices Made in Japan", Osaka, Japan
- 07/07/2017 Closing remark at 4th Basic Business Seminar for Medical Devices, AMED, Health and Welfare, Osaka, Japan
- 07/15/2017 Speaker: "Development of Medical Device to realize Next generation endoscopy: Through efforts in the gastrointestinal area", at J-MICS Summit 2017, Tokyo, Japan
- 07/20/2017 Moderator: "The latest Basic Research on Digestive Disease", at the 72nd General Meeting of JSGS, Kanazawa, Japan
- 07/25/2017 Speaker: "Next-Generation Endoscopic Intervention –Will the Interventional Digestivist be realized? -", at Nagasaki University Graduate School Seminar, Nagasaki, Japan
- 08/05/2017 Speaker: "What is necessary for the Doctors who leads medical-engineering collaboration", at the 6th Reduced Port Surgery Forum 2017 in Oita, Oita, Japan
- 08/21/2017 Course director at 4th Clinical Training (1st Term), granted by Japan Agency for Medical Research and Development, Osaka, Japan
- 08/28/2017 Course director at 4th Clinical Training (2nd Term), granted by Japan Agency for Medical Research and Development, Osaka, Japan
- 09/15/2017 Course director at 4th Systematic review meeting of unmet clinical needs, granted by Japan Agency for Medical Research and Development, Osaka, Japan
- 10/14/2017 Speaker: "Medical Device Development triggered off by NOTES -Looking back on 10 years-", at 11th Japan Consortium for Advanced Surg Endosc (J-CASE), Hakata, Japan
- 10/17/2017 Speaker: "Medical Device Development by Academia-Industry Cooperation: Possibilities and challenges", at 3rd Course of Cultivation of Human Resources for Medical Device Development, Tottori, Japan
- 10/17/2017 Speaker: "Medical Device Development from the Viewpoint of a Surgeon", at 3rd Course of Cultivation of Human Resources for Medical Device Development, Tottori, Japan
- 10/19/2017 Speaker: "To realize Next Generation Endoscopy", at Gakuyu-kai, Graduate School of Medicine, Osaka University, Osaka, Japan
- 10/31/2017 Opening remark: 4th Advanced Business Seminar for Medical Devices AMED "Project to Build Foundations to Support and Incentivize Development of Medical Devices Made in Japan", Osaka, Japan
- 10/31/2017 Speaker: "Acquisition of external funds" at 4th Advanced Business Seminar for Medical Devices AMED "Project to Build Foundations to Support and Incentivize Development of Medical Devices Made in Japan", Osaka, Japan
- 10/31/2017 Closing remark: 4th Advanced Business Seminar for Medical Devices AMED "Project to Build Foundations to Support and Incentivize Development of Medical Devices Made in Japan", Osaka, Japan
- 11/07/2017 Speaker: "Endoscopy and related data" JISC presentation at ISO/TC215 WG2 (System and device interoperability), Liverpool, England
- 11/12/2017 Moderator: "Infection Control for Health Care Workers", at the 19th Osaka Hospital Association, Osaka, Japan
- 11/15/2017 Speaker: "Next Generation Endoscopy: from bench to clinics", National Cancer Center, Goyang-si, Korea

- 11/17/2017 Course director, 2st Japanese delegation to AIIMS "India Mission 2017," All India Institute of Medical Sciences, Delhi, India
- 11/18/2017 Course director, 2st Japanese delegation to AIIMS "Cadaveric Lab," All India Institute of Medical Sciences, Delhi, India
- 11/27/2017 Speaker: "Project ENGINE update: recent progress from R&D frontline." at 11th international NOTES - W.I.D.E.R., Barcelona, Spain
- 11/27/2017 Speaker: "Project ENGINE update: recent progress from R&D frontline." at 11th international NOTES - W.I.D.E.R., Barcelona, Spain
- 11/27/2017 Commentator: "Session with video transmission from the Research Institut and Clinical Department Working Group (Access and locking, tunneling techniques, myotomy, gastric reduction and others)" at 11th international NOTES - W.I.D.E.R., Barcelona, Spain
- 12/07/2017 Moderator: "How to handle intellectual property at medical device development site" at the 30th Annual Meeting of the Japan Society for Endoscopic Surgery, Kyoto, Japan
- 12/08/2017 Speaker: "What is "uniting personnel" who assumes medical device development" at the 30th Annual Meeting of the Japan Society for Endoscopic Surgery, Kyoto, Japan
- 12/14/2017 Speaker: "Medical Device Development by Academia-Industry Cooperation - Possibilities and challenges" at Osaka Medical College Hospital Cancer Center, Osaka, Japan
- 12/15/2017 Speaker: "Status report of ISO/TC215" at 1st SCOT International Standardization committee of Tokyo Women's Medical University, Tokyo, Japan
- 01/19/2018 Chair: "ROBOTICS – AN UPDATE" at the EAES Wintermeeting 2018, London, U.K.
- 01/26/2018 Speaker: "Towards Next Generation: Are We Ready?" at the 1st International Symposium of Flexible Endoscopic Surgery, Tokyo, Japan
- 01/26/2018 Moderator: "The Future of Robots in Surgery" at the 1st International Symposium of Flexible Endoscopic Surgery, Tokyo, Japan
- 02/03/2018 Speaker: "To development of Needlescopic Surgery –Both sides of the maker and user" at the 18th Needlescopic Surgery Meeting, Kyoto, Japan
- 02/09/2018 Speaker: "Opening remark at AMED "Project to Build Foundations to Support and Incentivize Development of Medical Devices Made in Japan" at the Joint Symposium, Project ENGINE, Osaka, Japan
- 02/09/2018 Session moderator: AMED "Project to Build Foundations to Support and Incentivize Development of Medical Devices Made in Japan" at the Joint Symposium, Project ENGINE, Osaka, Japan
- 02/09/2018 Speaker: "Closing remark at AMED "Project to Build Foundations to Support and Incentivize Development of Medical Devices Made in Japan" at the Joint Symposium, Project ENGINE, Osaka, Japan
- 02/12/2018 Speaker: "Future of NOTES" at the 7th MESDA, Bangkok, Thailand
- 04/05/2018 Moderator: "Gastric -Endoscopic surgery- total gastrectomy, gastroplasty" at the 118th Annual Congress of Japan Surgical Society, Tokyo, Japan
- 04/07/2018 Speaker: "Pressure regretted gas insufflation system for next generation endoscopy" at the 2018 Shanghai International Endoscopy Symposium, Shanghai, China
- 04/21/2018 Speaker: "Towards next generation endoscopy: lessons learned from NOTES" at the 42nd KSELS & 8th International Symposium, Jeju, Korea
- 05/01/2018 Speaker: "Endoscopy and related data" JISC presentation at ISO/TC215 WG2 (System and device interoperability), Maringá, Brazil

- 05/12/2018 Speaker: "The influence of the nutritional status of the patients with Crohn's disease on the infliximab's therapeutic effect" at the 72nd Annual Meeting of Japan Society for Nutrition and Food Science, Okayama, Japan
- 05/17/2018 Speaker: "Clinical Engineers in Japan" at the 3rd FACE (Forum for Asian Clinical Engineering), Shanghai, China
- 05/30/2018 Speaker: "AI in the OR Artificial Intel/Big data - Robotics - Innovative tools for surgery" at the 26th international EAES congress, London, England
- 05/31/2018 Moderator: "ALS session: Robotics and enhanced technology" at the 26th international EAES congress, London, England
- 05/31/2018 Panelist: "Consensus conference 3D" at the 26th international EAES congress, London, England
- 07/12/2018 Moderator: "Digital Poster Session 89: Gastric, Duodenum, Benign Tumor and other" at the 73rd General Meeting of the Japanese Society of Gastroenterological Surgery, Kagoshima, Japan.
- 07/15/2018 Speaker: "Development of Medical Device by a Doctor" at the 18th EMR/EDR Study Group, Tokyo, Japan.
- 07/15/2018 Commentator: "Future Session: Procedure and Medical Device Development of Next Generation" at the 18th EMR/EDR Study Group, Tokyo, Japan.
- 07/20/2018 Opening remark at AMED 5th Basic Business Seminar for Medical Devices "Project to Build Foundations to Support and Incentivize Development of Medical Devices Made in Japan", Osaka, Japan
- 07/20/2018 Speaker: "How to proceed this program" at AMED 5th Basic Business Seminar for Medical Devices "Project to Build Foundations to Support and Incentivize Development of Medical Devices Made in Japan", Osaka, Japan
- 07/20/2018 Closing remark at 5th Basic Business Seminar for Medical Devices, AMED, Health and Welfare, Osaka, Japan
- 08/03/2018 Moderator: "Innovation of reduced port surgery brought by 'Monozukuri technique' and Prospects" at 7th Reduced Port Surgery Forum, Sapporo, Japan
- 08/27/2018 Course director at 5th Clinical Training (1st Term), granted by Japan Agency for Medical Research and Development, Osaka, Japan
- 09/03/2018 Course director at 5th Clinical Training (2nd Term), granted by Japan Agency for Medical Research and Development, Osaka, Japan
- 09/18/2018 Speaker: Aiming for Painless "Ultimate Surgery", at CASTEM Co.,Ltd., Fukuyama, Japan
- 09/20/2018 Moderator: "Medical Device Development Support Seminar" (Fukushima Medical Device Development Support Centre), Osaka, Japan
- 09/20/2018 Speaker: "Company Questionnaire results" at Medical Device Development Support Seminar (Fukushima Medical Device Development Support Centre), Osaka, Japan
- 09/21/2018 Course director at 5th Systematic review meeting of unmet clinical needs, granted by Japan Agency for Medical Research and Development, Osaka, Japan
- 10/10/2018 Speaker: "Doctor-Initiated Academic-Industrial Collaboration: Current Status and Issues", at 12th Osaka University Joint Research Course Symposium, Osaka, Japan.
- 10/18/2018 Speaker: "R&D of Medical Devices in the Era of Virtual Engineering", at 3D4MED, The clinical 3D printing laboratory, Pavia University, Pavia, Italy.
- 10/23/2018 Speaker: "Endoscopy and related data", at JISC presentation at ISO/TC215 WG2 (System and device interoperability), Paestum, Italy.
- 10/27/2018 Speaker: "What MedTech can do for the future of OR", at Ageo Medical Group EndoSurgery Academy (AMESA), Tokyo, Japan

- 11/03/2018 Speaker: "Can Academic-Industry Medical-Engineering Collaboration make a breakthrough?" at J-CASE, Kobe, Japan
- 11/06/2018 Opening remark: 5th Advanced Business Seminar for Medical Devices AMED "Project to Build Foundations to Support and Incentivize Development of Medical Devices Made in Japan", Osaka, Japan
- 11/06/2018 Closing remark: 5th Advanced Business Seminar for Medical Devices AMED "Project to Build Foundations to Support and Incentivize Development of Medical Devices Made in Japan", Osaka, Japan
- 11/08/2018 Moderator: "Medical Device Development" at SMIT2018-IBEC2018 Joint Conference, Seoul, Korea
- 11/08/2018 Speaker: "Integration of laparoscopy and endoscopy into next generation endoscopic intervention" at SMIT2018-IBEC2018 Joint Conference, Seoul, Korea
- 11/09/2018 Moderator: "Oral Presentation 9" at SMIT2018-IBEC2018 Joint Conference, Seoul, Korea
- 11/26/2018 Speaker: "The R&D frontline 2018: update from Project ENGINE" at 12th international NOTES - W.I.D.E.R., Barcelona, Spain
- 11/26/2018 Live Session: "Session with video transmission from the Research Institut and Clinical Department Working Group (Access and locking, tunneling techniques, myotomy, gastric reduction and others)." at 11th international NOTES - W.I.D.E.R., Barcelona, Spain
- 12/06/2018 Speaker: "Medical Device Development based on needs of Emerging Countries" at the 31st Annual Meeting of the Japan Society for Endoscopic Surgery, Fukuoka, Japan
- 12/07/2018 Moderator: "Surgical Instrument - Energy Device" at the 31st Annual Meeting of the Japan Society for Endoscopic Surgery, Fukuoka, Japan
- 01/25/2019 Speaker: "Opening remark at AMED "Project to Build Foundations to Support and Incentivize Development of Medical Devices Made in Japan" at the Joint Symposium, Project ENGINE, Osaka, Japan
- 01/25/2019 Session Moderator: AMED "Project to Build Foundations to Support and Incentivize Development of Medical Devices Made in Japan" at the Joint Symposium, Project ENGINE, Osaka, Japan
- 01/25/2019 Speaker: "Closing remark at AMED "Project to Build Foundations to Support and Incentivize Development of Medical Devices Made in Japan" at the Joint Symposium, Project ENGINE, Osaka, Japan
- 02/08/2019 Moderator: "The evolution of minimally invasiveness through technology Session 1: How technology reshaped treatment" at the EAES Wintermeeting 2019, Sevilla, Spain
- 02/24/2019 Speaker: "Current condition of medical device development from Japan and Possibility of global expansion" at the 9th Fight Japan Study Group, Osaka, Japan
- 03/14/2019 Speaker: "Osaka University Hospital Program –Utilize of Clinical Site for Personnel Training of Medical Device Development" at the Report Session of the Project to Build Foundations to Support and Incentivize Development of Medical Devices Made in Japan, Tokyo, Japan
- 04/03/2019 Moderator: "SS09: Colorectal Videos I" at the SAGES 2019 Annual Meeting, Baltimore, U.S.A
- 04/09/2019 Speaker: "How to Proceed Medical Device Development" at CASTEM, Fukuyama, Japan
- 04/18/2019 Moderator: "PS-010 Poster Session (10) Medical Device Development" at the 119th Annual Congress of Japan Surgical Society, Osaka, Japan
- 05/18/2019 Speaker: Award Lecture, Ozawa Award, Kyusenkai, Osaka University Graduate School of Medicine, Department of Surgery, Osaka, Japan



- 05/20/2019 Speaker: "Special Lecture" at Division of Sustainable Energy and Environmental Engineering, Graduate School of Engineering, Osaka University, Osaka, Japan
- 06/12/2019 Moderator: "TS1. Technology Symposium morning: Technology solutions to prevent and to treat complications" at the International Congress of the European Association for Endoscopic Surgery (EAES), Sevilla, Spain
- 06/12/2019 Speaker: "Endoluminal surgery" at Speed dating lunch at the International Congress of the European Association for Endoscopic Surgery (EAES), Sevilla, Spain
- 06/13/2019 Speaker: "Endoluminal robotic systems" at the International Congress of the European Association for Endoscopic Surgery (EAES), Sevilla, Spain
- 06/14/2019 Moderator: "S53 Gerhard Buess technology award session" at the International Congress of the European Association for Endoscopic Surgery (EAES), Sevilla, Spain
- 06/14/2019 Moderator: "S76 Technique, tips and tricks in robotic surgery" at the International Congress of the European Association for Endoscopic Surgery (EAES), Sevilla, Spain
- 06/20/2019 Speaker: "Paradigm shift at operating room; the possibility of visualization of the procedure using IoT" at the 44th Japanese college of surgeons, Kanazawa, Japan
- 07/18/2019 Moderator: "Devising how to use medical instruments at digestive surgery" at the 74th Japanese Society of Gastroenterological Surgery, Tokyo, Japan
- 07/18/2019 Speaker: "What is needed for the doctors who are leading medical device development" at the 26th Surgery Forum at Tokyo, Japan
- 08/02/2019 Discussant: "Present and Future of the robot-assisted surgery; from Heisei to Reiwa" at the 8th Reduced Port Surgery Forum, Tokyo, Japan
- 09/21/2019 Moderator: "Medical Device Development of Endoscopic Surgery" at the 32th Kinki Endoscopic Surgery Society, Osaka, Japan
- 10/04/2019 Opening remark at AMED 1st Business Seminar for Medical Devices "Support Program on Collaborative Innovation Networks for Medical Device", Osaka, Japan
- 10/04/2019 Speaker: "Medical device" at AMED 1st Business Seminar for Medical Devices "Support Program on Collaborative Innovation Networks for Medical Device", Osaka, Japan
- 10/04/2019 Closing remark at AMED 1st Business Seminar for Medical Devices "Support Program on Collaborative Innovation Networks for Medical Device", Osaka, Japan
- 10/28/2019- Course director at 1st Clinical Training (1st Term), granted by Japan Agency for Medical Research and Development, Osaka, Japan
- 11/06/2019 Speaker: "Future Minimally Invasive Treatment –Importance of industry-academia collaboration-" at the 56th Hyogo Endoscopic Treatment Meeting", Kobe, Japan
- 11/12/2019- Course director at 1st Clinical Training (2st Term), granted by Japan Agency for Medical Research and Development, Osaka, Japan
- 11/14/2019 Speaker: "A shift of robotics, from intra-abdominal to endo-luminal: Are we ready?" at the 57th Annual Meeting of the Japanese Society for Artificial Organs, Osaka, Japan
- 11/21/2019 Speaker: "SPACE technologies for EFTR" at the 14th ELSA 2019: (Endoscopic and Laparoscopic Surgeons of Asia), Chiang Mai, Thailand
- 11/23/2019 Speaker: "Opening remark" at the 13th J-CASE, Kobe, Japan
- 11/23/2019 Moderator: "Endoscopic minimally invasive resection from EFTR to real pure NOTES" at the 13th J-CASE, Kobe, Japan

- 11/29/2019 Opening remark at AMED 1st Brainstorming for Medical Device Development "Support Program on Collaborative Innovation Networks for Medical Device", Osaka, Japan
- 11/29/2019 Closing remark at AMED 1st Brainstorming for Medical Device Development "Support Program on Collaborative Innovation Networks for Medical Device", Osaka, Japan
- 12/06/2019 Award Lecture: "Ogami Award Lecture: Medical Device Development Led by Academia: Effort of Project ENGINE" at the 32nd Annual Meeting of the Japan Society for Endoscopic Surgery, Yokohama, Japan
- 12/06/2019 Moderator: "Symposium 12" at the 32nd Annual Meeting of the Japan Society for Endoscopic Surgery, Yokohama, Japan
- 01/24/2020 Speaker: "Session 2. Re-live surgery to demonstrate & discuss the use of technology in the OR Endoscopic treatment of post-esophagectomy severe reflux using OverStitch" at the EAES Wintermeeting 2020, Kraków, Poland
- 01/24/2020 Speaker: "Session 3. How technology can help us to treat complications new haemostatic agents" at the EAES Wintermeeting 2020, Kraków, Poland
- 02/01/2020 Moderator: "Oral Presentation 13: Upper Digestive of Needle 2" at the 22th Needlescopic Surgery Meeting, Kobe Japan
- 02/08/2020 Speaker: "Medical Device Development by Medical Doctor –Learning from Pediatric Surgery-" at the Kansai Pediatric Endoscopic Surgery Meeting, Osaka Japan
- 02/09/2020 Opening remark at the Symposium on Perspectives of UN and WHO on Global Health, Tokyo, Japan
- 02/09/2020 Speaker: "Publication details on WHO compendium of innovative health technologies for low-resource settings" at the Symposium on Perspectives of UN and WHO on Global Health, Tokyo, Japan
- 02/20/2020 Speaker: "Medical Device Development by Medical Doctor –Ideal Way of Industry Academia Collaboration-" at the 2nd NCCH Medical Device Development Team Seminar, Tokyo Japan

### **Other Professional Activities:**

- 2002 – 2003 Tutor in Surgery, Minimal Access Surgery Center, New York-Presbyterian Hospital, New York, NY, USA (Supervisor: Dennis L. Fowler, M.D.)
- 2003 Certificated Robotic System Operator, Robotic Zeus System Training Workshop, Intuitive Surgical, Inc. Sunnyvale, CA, USA (approved on 12/11/2003)
- 2004 – present Guest Faculty, Laparoscopic Colon Surgery Hands-on Course, Cornell University, New York, NY, USA (Supervisor: Jeffrey W. Milsom, M.D.)
- 2006 Assistant investigator, clinical trial phase III (SU-011248), Pfizer Japan Inc., Tokyo, Japan
- 2007 – present Faculty, New York Presbyterian Hospital NOTES Hands-on Course, New York, NY, USA
- 2007 Consultant, CSL Behring, Tokyo, Japan
- 2007 Assistant investigator, post-market surveillance (Gleevec®), Novartis Pharma K.K., Tokyo, Japan
- 2008 Advisory panel member, Stryker Endoscopy, San Jose, CA, USA
- 2009 Consultant, Tyco Healthcare Japan (Covidien), Tokyo, Japan

- 2009 Assistant investigator, international head-to-head trial of first line chemotherapy for GIST: Novartis Pharma K.K., Tokyo, Japan
- 2009 – present Primary investigator, Project ENGINE (Endeavour for Next Generation of INterventional Endoscopy), website: <http://project-engine.org>
- 2012 – present Scientific advisory board, EndoMaster Pte. Ltd., Singapore
- 2013 – present Advisory board, Osaka Chamber of Commerce and Industry, Osaka, Japan
- 2017 Advisory Staff, Medical TAKUMI Japan project, Kanto Bureau of Economy, Trade and Industry website: <http://med-takumi.go.jp/surgeon/>, <http://med-takumi.go.jp/products/detail36.php>
- 2017 – present Advisory board, Industry-academia-government collaboration Committee, Japan Gastroenterological Endoscopy Society

**Patent application:**

Total number of patent applications: 115(registered: 30 (US:5, CN:5, JP:15, EPC:4)  
(including withdrawal, abandoned, PCT applications, etc. )  
(3 patents : supported by JST foreign application supporting system)

Total number of design applications: 20 (registered: 18)

Total number of trademark applications: 2 (registered: 2)

- 2008 Inventor, Dilating overtube system for transgastric access in NOTES, #2008-160493 (had filed the PCT application <PCT/JP2009/060927> claiming priority and entered into the national phase in the JP), registered in JP
- 2009 Inventor, Insufflating guidewire system for safe transgastric access in NOTES, #2009-010595 (had filed the PCT application <PCT/JP2010/050602> claiming priority and entered into the national phase in the JP and US) supported by Japan Science and Technology Agency, registered in JP and US
- 2009 Inventor, Overtube with helical working channel, #2009-160088 (had filed the PCT application <PCT/JP2010/061472> claiming priority and entered into the national phase in the JP and US) supported by Japan Science and Technology Agency, registered in JP
- 2009 Coinventor, Overtube with detouchable valve, #2009-195605 (had filed the applications <2010-096377 and 2010-096378> claiming priority), registered in JP
- 2010 Coinventor, Flexible endoscopic multi-surgical probe, #2010-064882 and #2010-199913 (had filed the PCT application <PCT/JP2011/054971> claiming priority and entered into the national phase in the JP, US, EP, KR and CN), registered in JP and CN
- 2011 Coinventor, Endoscopic insufflation system, #2011-070293 (had filed the applications in US, EP and CN claiming priority), registered in JP and CN
- 2011 Coinventor, Three dimensional endoscopic retractor, #2011-040943 (had filed the PCT application <PCT/JP2011/071205> claiming priority and entered into the national phase in the JP, US and EP), registered in JP
- 2011 Coinventor, Micro-snake retraction system, #2011-269473, registered in JP
- 2012 Coinventor, Overtube for endoscope, #2012-014100, registered in JP
- 2012 Inventor, Lubricant application hole for continuously rotating overtube, #2012-070724 (had filed the PCT application <PCT/JP2013/058677> claiming priority and entered into the national phase in the JP) supported by Japan Science and Technology Agency, registered in JP
- 2012 Inventor, Endoscope with rotating second channel, #2012-088140
- 2012 Coinventor, Applicator for hemostatic agents, #2012-281494 (had filed the PCT application <PCT/JP2013/081439> claiming priority and entered into the national phase in the JP, US and EP)
- 2012 Coinventor, Insufflation system, #2012-258654 (had filed the PCT application <PCT/JP2013/081713> claiming priority and entered into the national phase in the JP, US, EP and CN), registered in JP
- 2013 Coinventor, Insufflation system, #2013-193153 (had filed the applications in US, EP and CN claiming priority), registered in JP

- 2013 Coinventor, Full Cocoon type surgical retractor, #2013-243891 (had filed the PCT application <PCT/JP2014/059262> claiming priority and entered into the national phase in the JP, US, EP and CN)
- 2014 Coinventor, Hemi Cocoon type surgical retractor, #2014-005685 (had filed the PCT application <PCT/JP2015/051039> claiming priority and entered into the national phase in the JP, US, EP and CN)
- 2014 Coinventor, Overtube with dedicated lumen for insufflation, #2014-023721 (had filed the PCT application <PCT/JP2015/053704> claiming priority and entered into the national phase in the JP)
- 2014 Coinventor, Overtube with safety locking mechanism, #2014-024937 (had filed the PCT application <PCT/JP2015/053869> claiming priority and entered into the national phase in the JP and EP)
- 2014 Coinventor, Insufflation system, #2014-080256 (had filed the applications in US, EP and CN claiming priority)
- 2014 Coinventor, Insufflation system, #2014-080255 (had filed the applications in US claiming priority) , registered in JP
- 2014 Coinventor, Isolation bag, #2014-028531 (had filed the PCT application <PCT/JP2015/054447> claiming priority and entered into the national phase in the JP and CN)
- 2014 Coinventor, Specimen isolation bag, #2014-078893 (had filed the PCT application <PCT/JP2014/063440> claiming priority and entered into the national phase in the JP)
- 2015 Coinventor, Catheter for endoscope, #2015-031111
- 2015 Coinventor, STERILIZED GOWN, #2015-185721 (had filed the application in US claiming priority)
- 2016 Coinventor, Endoscopic snare, #2016-018568 (had filed the applications in US and CN claiming priority)
- 2016 Inventor, Endoscope apparatus and endoscope system, #2016-144323
- 2016 Coinventor, Catheter for endoscope, PCT application <PCT/JP2016/072869>
- 2016 Coinventor, Image processing program, image processing method and image processing apparatus, #2016-184889
- 2016 Coinventor, Display control program, display control method and information processing apparatus, #2016-184890
- 2016 Coinventor, Medical cotton swab, #2016-236081
- 2017 Coinventor, Hemi Cocoon type surgical retractor, #2014-005685 (had filed the PCT application <PCT/JP2015/051039> claiming priority and entered into the national phase in the JP, US, EP and CN) registered in JP
- 2017 Coinventor, Handle of retractor,, #2017-135192
- 2017 Coinventor, Overtube with safety locking mechanism, #2014-024937 (had filed the PCT application <PCT/JP2015/053869> claiming priority and entered into the national phase in the JP and EP) registered in JP
- 2017 Coinventor, Insufflation system, #2014-080256 (had filed the applications in US, EP and CN claiming priority) registered in JP
- 2017 Coinventor, Insufflation system, #2013-193153 (had filed the applications in US, EP and CN claiming priority), registered in JP and EPC
- 2017 Coinventor, Endoscopic treatment instrument, #2017-189328
- 2017 Inventor, Endoscope apparatus and endoscope system, #2016-144323 (had filed the PCT application <PCT/JP2017/026351>
- 2017 Coinventor, Endoscopic snare, #2017-232377
- 2018 Coinventor, Insufflation system, #2012-258654 (had filed the PCT application <PCT/JP2013/081713> claiming priority and entered into the national phase in the US, EP and CN, registered in JP), registered in US
- 2018 Coinventor, Endoscopic treatment instrument, #2017-189328
- 2018 Coinventor, Medical drone system, #2018-143985
- 2019 Coinventor, [REDACTED]  
2019-\*\*\*\*\*
- 2019 Coinventor, [REDACTED] 2019-\*\*\*\*\*

- 2019 Coinventor, [REDACTED] 2019-\*\*\*\*\*  
 2019 Coinventor, [REDACTED] 2019-\*\*\*\*\*  
 2020 Coinventor, [REDACTED] 2020-\*\*\*\*\*  
 2020 Coinventor, [REDACTED] 2020-\*\*\*\*\*

**Design application:**

- 2010 Coinventor, Endoscope holder, #JP2010-000561, registered  
 2010 Coinventor, Endoscope holder, #JP2010-000562, registered  
 2010 Coinventor, Dilator, #JP2010-000563, registered  
 2010 Coinventor, Dilator, #JP2010-000564, registered  
 2012 Coinventor, Leakcutter, #JP2012-013875, registered  
 2012 Coinventor, Leakcutter, #JP2012-013876, registered  
 2014 Coinventor, Specimen isolation bag, #JP2014-007646, registered  
 2014 Coinventor, Specimen isolation bag, #JP2014-007647, registered  
 2014 Coinventor, Specimen isolation bag, #JP2014-007648, registered  
 2014 Coinventor, Specimen isolation bag, #CN201430123551.8, registered  
 2015 Coinventor, Suction ball coagulator, #JP2015-002931, registered  
 2015 Coinventor, Suction ball coagulator, #JP2015-002930, registered  
 2015 Coinventor, Medical gown, #CN201530362941.5, registered  
 2015 Coinventor, Medical gown, #CN201530362715.7, registered  
 2017 Coinventor, Retractor for surgery, #JP2017-027703, registered  
 2018 Coinventor, Medical tube, #JP2018-028758, 028759, 028760, registered

**Publications (in English only, in chronological order).****Original Peer-reviewed Articles:**

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8. **Nakajima K**, Wasa M, Sou H, Kusafuka T, Imura K, Okada A: Laparoscopic resection of adrenal tumors in children. *Pediatric Endosurgery & Innovative Techniques.* 1999; 3: 73-77.

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