

# Curriculum vitae

## Prof. Dr. med. Guido J.F. Beldi

### Professional experience

- Jan 2011 – Bern University Hospital, University of Bern, Switzerland  
*Department for Visceral Surgery and Medicine*  
Position: Staff surgeon (Leitender Arzt)
- Jan 2008 – Dec 2010 Bern University Hospital, University of Bern, Switzerland  
*Department of Visceral and Transplant Surgery*  
Position: Staff surgeon (Oberarzt)
- Jan 2006 – Dec 2007 Harvard Medical School  
*Beth Israel Deaconess Medical Center*  
*Gastroenterology, Liver and Transplant Centers*  
Position: Research Fellow
- Aug. 2003 – Dec. 2005 Bern University Hospital, University of Bern, Switzerland  
*Department of Visceral and Transplant Surgery*  
Position: Staff surgeon
- July 2004 Charité Universitätsmedizin Berlin, Campus Buch  
*Department of Surgery, Centre of Minimally Invasive Surgery*  
Position: Visiting fellow
- Sept. 2002 – July 2003 University Hospital Bern  
*Department of Visceral and Transplant Surgery*  
Position: Resident in surgery
- Jan. 2001 – Aug. 2002 Kantonsspital Aarau  
*Department of Surgery*  
Position: Resident in surgery
- Jan. 1999 – Dec. 2000 Zieglerspital Bern  
*Department of Surgery*  
Position: Resident in surgery

## Education

### Surgical certification

Aug. 2011 Schwerpunkt Viszeralchirurgie  
Mar. 2005 Facharzt FMH Chirurgie  
Nov. 2004 Surgical boards, final examination  
Nov. 2000 Surgical boards, basic examination

December 2012 **Assoziierte Professur, University of Bern**

August 2009 **Venia docendi / Habilitation**  
University of Bern

Oct. 2000 **Thesis (Promotion)**

Oct. 1992 – Nov. 1998 **Medical School**  
Faculty of medicine, University of Bern

Oct. 1997 – June 1998 **Internship**  
University of Bern  
University of Johannesburg, South Africa

Nov. 1998 **Medical diploma**

### Board memberships

Since 2008 Board member of the Swiss Society for visceral surgery  
Since 2008 Board member of the Swiss Society of Thoracoscopic and Laparoscopic Surgery

### Memberships

Since 1998 Swiss Medical Society (FMH)  
Since 2005 Swiss Surgical Society (SGC / SSC)  
Since 2005 Swiss Society of Thoracoscopic and Laparoscopic Surgery (SALTC)  
Since 2005 Surgical Working Group: Endocrinology of the Swiss Society of Surgery (CAEK)  
Since 2006 American Association for the Study of Liver Diseases  
Since 2011 European Association for the Study of Liver Diseases (EASL)  
Since 2011 European Organization for Organ Transplantation (ESOT)  
Since 2012 Swiss Transplantation Society

### Peer review

Associate Editor: World Journal of Surgery, Transplantation  
Ad hoc Editor: British Journal of Surgery, British Medical Journal, Genome, Hepatology, Journal of Hepatology, American Journal of Transplantation, Gastroenterology

## Funding: Competitive (as Principle investigator)

November 2014	Novartis Stiftung für Medizinisch-Biologische Forschung Nr 14C160 Mechanism and consequences of ATP secretion in endotoxemia
Apr. 2015 – Mar. 2018	Swiss national foundation CR13I3_156882 Impact of structured communication in the operating room on surgical site infections. A multicenter study.
Sept. 2014 – Aug. 2017	Swiss national foundation 158117 Mechanism and consequences of ATP release in endotoxemia
Apr. 2013 – Mar. 2016	Swiss national foundation 310030_146986/1 NTPDase1/CD39 and innate lymphoid cells in liver injury and repair
Oct 2011 – Mar. 2015	Swiss national foundation Relating human factor aspects during surgery to surgical site infection
Jan 2012 – Dec 2014	Fondation Johanna Durmüller Bol Impact of terlipressin on hepatic regeneration after liver resection
Apr 2010 – Mar 2013	Swiss national foundation 310030_130816/1 Natural killer cell function after liver resection: the role of extracellular ATP
July 2008 – Dec. 2008	Grant in Aid 2008, Departement Klinische Forschung Impact of cellular aspects of innate immunity in liver regeneration
May 2008 – May 2009	Nachwuchsförderung zur Vorbereitung von Nationalfondsgesuchen, Universität Bern Regulation of liver regeneration by natural killer cells: impact of extracellular nucleotides
Jan 2008 – Dec 2010	Commission for quality control Inselspital Bern Doctors discipline and surgical site infection
Jan 2007 – Dec. 2007	Schweizerische Stiftung fuer medizinisch biologische Stipendien Pasma--115700 CD39/NTPDase1 expression by Natural Killer T cells modulates hepatic inflammation and oncogenesis
Jan 2006 – Dec. 2006	Swiss national foundation PBBEB-112764 Modulation of hepatocyte and sinusoidal endothelial cell responses by ectonucleotidase during liver regeneration
July 2005 – Jan 2007	Commission for quality control Inselspital Bern Surveillance of surgical site infections during visceral surgery

## Dissertations

- **Michel Dosch**, MD-PhD Student, University of Bern, “Mechanism and consequences of ATP release in endotoxemia”, Start November 2014
- **Miriam Graf**, MD Student, University of Bern, “Impact of ATP release on LPS tolerance” Start October 2014
- **Lukas Widmer**, MD student, University of Bern, Impact of intraoperative microbrakes on teaching, Start September 2012
- **Michael Huguenin**, MD student, University of Bern, Assessment of physiological stress in the OR, Start September 2012
- **Ramesh Kudira**, PhD Student, University of Bern, “Impact of CD39 on IL-22 secretion post partial hepatectomy”, Start September 2011
- **Nadine Graubardt**, PhD Student, University of Bern, “Natural killer cell function after liver resection: the role of extracellular ATP”, September 2008 – February 2012 (PhD)
- **Christoph Hänkli**, MD student, University of Bern, “Impact of extracellular nucleotides on Kupffer cell specific secretion of tumor necrosis factor alpha”, Status: accepted as dissertation (MD)
- **Alyssa Rellstab**, MD student, University of Bern, “Modulation of cytotoxicity by extracellular nucleotides post partial hepatectomy”, Status: accepted as dissertation (MD)
- **Gian-Marco Item**, MD student, University of Bern, “Impact of cell derived Microparticles in patients undergoing liver resections”, Status: Published and accepted as dissertation(MD)
- **Martina Blösch**, MD Student, University of Bern, “Hypoesthesia and pain after transabdominal preperitoneal hernioplasty using tissue adhesive versus stapler: a prospective randomized trial”, Status: published and accepted as dissertation (MD)
- **Eva Visth**, MD Student, University of Bern, “Long-term follow-up of open and laparoscopic repair of large incisional hernias”, Status: published and accepted as dissertation (MD)
- **Non Haupt**, MD student, University of Bern, “Postoperative hypoesthesia and pain: qualitative assessment after open and laparoscopic inguinal hernia repair”, Status: published and accepted as dissertation (MD)
- **Lukas Beng**, MD student, University of Bern, “Prevention of perioperative thromboembolism in patients with atrial fibrillation”, Status: published and accepted as dissertation (MD)

## Master thesis

### **Anna Katharina Schmid**

Cancer immunology in colorectal liver metastasis formation

### **Zenger Michael**

Zuverlässigkeit der ärztlichen Prognose der prä- und postoperativen Morbidität und Mortalität

### **Krüsi Michael**

Autoregulation des hepatischen Blutflusses nach Leberchirurgie

### **Michael Huguenin**

Assessment of physiological stress in the OR

### **Nina Strupler**

Ureterkomplikationen nach Nierentransplantation (Accepted)

### **Beatrice Wanner**

Association of visceral fat and postoperative complications (Accepted)

### **Fraoua Meriem**

Renal dysfunction after liver resection (Accepted)

## Congress / Meeting organization

- Dreiländertagung Minimal Invasive Chirurgie Bern 31.1.2014 – 1.2.2014
- SGG SGVC Annual Congress Basel 12.-13.9.2013
- Annual research retreat Universitätsklinik für Viszerale Chirurgie und Medizin, Universität Bern, Münchenwiler 23./24.11.2012
- SGG SGVC Annual Congress Basel 13.-14.9.2012
- SGG SGVC Annual Congress Interlaken 19.-20.9.2012
- Annual research retreat Universitätsklinik für Viszerale Chirurgie und Medizin Bern, Gerzensee 25./26.11.2011
- SGG SGVC Annual Congress Interlaken 28.-29.9.2011
- Annual research retreat Universitätsklinik für Viszerale Chirurgie und Medizin Bern, Münchenwiler 19./20.11.2010
- SGG SGVC Annual Congress Interlaken 23.-24.9.2010
- Annual research retreat Universitätsklinik für Viszerale Chirurgie und Medizin Bern, Münchenwiler 20./21.11.2009

## Prizes

1. Travel Award for Thomas Malinka  
Malinka T, Keogh A, Kudira R, Moghadamrad S, McCoy SK, Stroka D, Candinas D, Beldi G. Liver regeneration is not impacted in the absence of intestinal microbiota; SGG SGVC Annual Congress Interlaken 11.-12.9.2014
2. Travel Award for Ramesh Kudira  
Kudira R, Malinka T, Gomez de Agüero M, Keogh A, Furer C, Stroka D, Candinas D, Beldi G. Secretion of IL-22 is modulated by CD39 and is required for liver regeneration post partial hepatectomy SGG SGVC Annual Congress Interlaken 11.-12.9.2014
3. Award for the best oral presentation  
Tschan, F., Semmer, N.K., Keller, S. Kurmann, A. Seelandt, J.C., Candinas, D. & Beldi G. Talking may help or hinder: Case-relevant and case-irrelevant communication during surgeries and surgical site infections. Presentation at the 8<sup>th</sup> International Meeting on Behavioural Sciences Applied to Surgery and Acute Care Settings. 20<sup>th</sup> and 21<sup>st</sup> November, 2014 – London UK.
4. Annual Prize of the Swiss Society of Surgery  
Kurmann A, Peter M, Tschan-Semmer F, Mühlemann K, Candinas D, Beldi G (corresponding author). Association of the noise volume in the operating room with surgical site infections. Br J Surg. 2011 Jul;98(7):1021-5
5. Young investigator bursary award  
Graubardt N, Trochsler M, Hänsli C, Rellstab A, Candinas D, Beldi G. International liver congress, 30.3. – 3.4.2011 Berlin
6. Best Poster Prize  
Trochsler M, Fahrner R, Graubardt N, Keogh A, Corazza N, Stroka D, Candinas D, Beldi G. TRAIL expression on NK cells attenuates hepatic ischemia-reperfusion injury in mice. SGC Annual Congress Interlaken 26.-28.5.2010.
7. Young investigator bursary award  
Graubardt N, Rellstab A, Candinas D, Robson SC, Beldi G. Extracellular ATP modulates natural killer cell function during liver

regeneration. EASL Monothematic Conference, Signaling in the Liver, February 18-20, 2010 Amsterdam

8. Young investigator bursary award Graubardt N, Rellstab A, Candinas D, Robson SC, Beldi G. Interferon gamma secretion by natural killer cells is regulated by extracellular nucleotides during liver regeneration in mice, EASL Monothematic Conference, Immune Mediated Liver Injury, December 4-6, 2008 Hamburg
9. Herausragende Qualitätsentwicklungsprojekte, 3. Preis  
Beldi G. Surveillance Wundinfekte in der Viszeralchirurgie. Bern University Hospital, University of Bern Dezember 14<sup>th</sup> 2007
10. Travel Award (500USD)  
Beldi G, Wu Y, Sun XF, Imai M, Enyoji K, Zimmermann H, Candinas D, The vascular ectonucleotidase CD39 is permissive for sinusoidal endothelial cell proliferation during liver regeneration: evidence for synergism between growth factors and extracellular nucleotides The Henry M. and Lillian Stratton Basic Research Single Topic Conference Vascular Biology and Pathobiology of the Liver June 2-4, 2007 Atlanta, Georgia
11. Best Research Award 2006  
Stroka D, Plock J, Beldi G, Frese S, Keogh A, Bisch-Knaden S, Dufour JF, Brunner T, Candinas D. Temporary hypoxic stress protects the liver from Fas-mediated apoptosis and ischemia reperfusion injury. Annual meeting of the Swiss surgical society, Lugano June 21<sup>st</sup> – 23<sup>rd</sup> 2006
12. Best Video Prize 2005  
Beldi G, Brügger LE, Candinas D. Laparoscopic ventral hernia repair: transfascial suturing. Annual meeting of the Swiss surgical society Zürich, June 8<sup>th</sup> – 10<sup>th</sup> 2005
13. Best Research Poster SGC 2004: Johnson & Johnson Poster Prize  
Beldi G, Keogh A, Bisch-Knaden S, Studer P, Stroka D, Candinas D. Inderbitzin D. The effect of hematopoietic growth factors on survival in a novel surgical small for size liver remnant mouse model. Annual meeting of the Swiss surgical society 2004 Davos, June 23<sup>rd</sup> – 25<sup>th</sup> 2004
14. B. Braun Melsungen AG Poster Prize 2003  
Inderbitzin D, Beldi G, Candinas D. Ischemia reperfusion injury is mitigated in transgenic, human C1 inhibitor overexpressing mice. ESSR, Ghent 38th Congress, May 2003
15. Student Research Award 2004 (Medical Faculty, University of Bern)  
Sidler D, Studer P, Beldi G, Ayuni E, Djonov V, Candinas D, Inderbitzin D. Mouse liver anatomy from a microsurgical point of view. Day of Clinical Research, September 2004, University of Bern
16. SGGH 2004: Poster Prize  
Inderbitzin D, Keogh A, Beldi G, Gass M, Studer P, Stroka D, Gloor B, Candinas D. Interleukin-3 induces hepatocyte specific metabolic activity in cultured progenitor cells from adult rat bone marrow. SGGH 2004, Montreux September 9<sup>th</sup>-11<sup>th</sup> 2004
17. Best Poster Selection  
Beldi G, Styner M, Wälti H, Candinas D. Intraoperative three-dimensional Cholangiography. 12<sup>th</sup> International Congress of the European Association of Endoscopic surgery, Barcelona June 9<sup>th</sup> – 12<sup>th</sup> 2004

18. Video award session European Association for Endoscopic Surgery  
Beldi G, Helbling C, Kinsbergen T, Lisec I, Schlumpf R. Stapler-assisted Diverticulo-Oesophagostomy for Zenker's Diverticulum. 10<sup>th</sup> International Congress of the European Association of Endoscopic surgery Lisbon, June 2<sup>nd</sup> – 5<sup>th</sup> 2002
19. Best Video of the Swiss surgical society  
Beldi G, Kinsbergen T, Schlumpf R. Der laparoskopische proximale Magenbypass. Annual meeting of the Swiss surgical society, Lausanne, June 19<sup>th</sup> – 22<sup>th</sup> 2002
20. Best Video of the union of Swiss surgical societies  
Beldi G, Helbling C, Lisec I, Schlumpf R. Stapler-assisted Diverticulo-Oesophagostomy for Zenker's Diverticulum. Annual meeting of the Swiss surgical society, Lausanne, June 19<sup>th</sup> – 22<sup>th</sup> 2002

## Publications

### Original Articles

1. Banz Y, Item GM, Vogt A, Rieben R, Candinas D, Beldi G (corresponding author). Endothelial- and Platelet-derived Microparticles are generated during Liver Resection in Humans. *J Invest. Surg.* Accepted for publication 2015
2. Kurmann A, Keller S, Tschan-Semmer F, Seelandt J, Semmer NK, Candinas D, Beldi G (corresponding author). Impact of Team Familiarity in the Operating Room on Surgical Complications. *World J Surg.* 2014 Jul 3.
3. Seelandt JC, Tschan F, Keller S, Beldi G, Jenni N, Kurmann A, Candinas D, Semmer NK. Assessing distractors and teamwork during surgery: developing an event-based method for direct observation. *BMJ Qual Saf.* 2014 Jul 10. pii: bmjqs-2014-002860. doi: 10.1136/bmjqs-2014-002860. [Epub ahead of print]
4. Kurmann A, Wanner B, Martens F, Klasen J, Montani M, Stickel, F, Candinas D, Beldi G (corresponding author). Hepatic steatosis is associated with surgical site infection after hepatic and colorectal surgery. *Surgery.* 2014 Jul;156(1):109-16.
5. Fahrner R, Malinka T, Klasen J, Candinas D, Beldi G (corresponding author). Additional surgical procedure is a risk factor for surgical site infections after laparoscopic cholecystectomy. *Langenbecks Arch Surg.* 2014 Apr 23
6. Fahrner R, Trochsler M, Corazza N, Graubardt N, Keogh A, Candinas D, Brunner T, Stroka D, Beldi G (corresponding author). Tumor necrosis factor-related apoptosis-inducing ligand on NK cells protects from hepatic ischemia-reperfusion injury, Transplantation. 2014 May 6
7. Fahrner R, Patsenker E, De Gottardi A, Stickel F, Montani M, Stroka D, Candinas D, Beldi G (corresponding author). Elevated liver regeneration in response to pharmacological reduction of elevated portal venous pressure by terlipressin after partial hepatectomy. *Transplantation* 2014 Volume: 97; 9: 892-900.
8. von Schönfels W, Patsenker E, Fahrner R, Itzel T, Hinrichsen H, Brosch M, Erhart W, Gruodyte A, Vollnberg B, Richter K, Landrock A, Schreiber S, Brückner S, Beldi G, Sipos B, Becker T, Röcken C, Teufel A, Stickel F, Schafmayer C, Hampe J. *Liver Int.* 2014 Feb 1. doi: 10.1111/liv.12476. [Epub ahead of print]

9. Kurmann A, Barnetta C, Candinas D, Beldi G (corresponding author). Implantation of prophylactic nonabsorbable intraperitoneal mesh in patients with peritonitis is safe and feasible. *World J Surg.* 2013 Jul;37(7):1656-60
10. Graubardt N, Fahrner R, Trochsler M, Keogh A, Breu K, Furer C, Stroka D, Robson SC, Slack E, Candinas D, Beldi G (corresponding author). Promotion of liver regeneration by natural killer cells in mice is dependent on extracellular ATP phosphohydrolysis. *Hepatology.* 2013 May;57(5):1969-79. doi: 10.1002/hep.26008.
11. Fahrner R, Beoglu D, Beldi G, Idle J. Metabolomic markers for intestinal ischemia in a mouse model. *J Surg res.* 2012 Dec;178(2):879-87.
12. Scholtes M, Kurmann A, Seiler CA, Candinas D, Beldi G (corresponding author). Intraperitoneal mesh implantation for fascial dehiscence and open abdomen. *World J Surg.* 2012 Jul;36(7):1557-61.
13. Brugger LE, Beldi G, Stalder M, Porta F, Candinas D, Takala J, Jakob SM. Postoperative Splanchnic Blood Flow Redistribution in Response to Fluid Challenges in the Presence and Absence of Endotoxemia in a Porcine Model. *Shock.* 2012 Jan;37(1):116-21.
14. Brügger L, Bloesch M, Ipaktchi R, Kurmann A, Candinas D, Beldi G (corresponding author). Objective hypoesthesia and pain after transabdominal preperitoneal hernioplasty: a prospective, randomized study comparing tissue adhesive versus spiral tacks. *Surg Endosc.* 2012 Apr;26(4):1079-1085.
15. Kurmann A, Vorburger SA, Candinas D, Beldi G (corresponding author). Operation time and body mass index are significant risk factors for surgical site infection in laparoscopic sigmoid resection: a multicenter study. *Surg Endosc.* 2011 Nov;25(11):3531-4. Epub 2011 Jun 3
16. Kurmann A, Peter M, Tschan-Semmer F, Mühlemann K, Candinas D, Beldi G (corresponding author). Association of the noise volume in the operating room with surgical site infections. *Br J Surg.* 2011 Jul;98(7):1021-5
17. Kurmann A, Visth E, Candinas D, Beldi G (corresponding author). Long-term follow-up of open and laparoscopic repair of large incisional hernia. *World J Surg* 2011 Feb;35(2):297-301.
18. Horisberger K, Beldi G (corresponding author), Candinas D. Loop Ileostomy Closure: comparison of cost effectiveness between suture and stapler. *World J Surg.* 2010 Dec;34(12):2867-2871
19. Beldi G, Wagner MM, Lutz JA, Brügger LE, Candinas D. Mesh shrinkage after laparoscopic ventral hernia repair: a prospective study. *Surg Endosc* 2010 Jul 23.
20. Brügger LE, Beldi G, Beck M, Porta F, Bracht H, Candinas D, Takala J, Jakob SM. Splanchnic Vasoregulation After Major Abdominal Surgery in Pigs. *World J Surg.* 2010 Sep;34(9):2057-63.
21. Beldi G, Banz Y, Sun X, Kroemer A, Wu Y, Enjoji K, Li X, Junger WG, Candinas D, Robson SC CD39 deletion on Natural Killer (NK) cells attenuates hepatic ischemia reperfusion injury. *Hepatology.* 2010 May;51(5):1702-11.
22. Kurmann A, Beldi G (corresponding author), Vorburger SA, Seiler CA, Candinas D.



Laparoscopic Incisional Hernia Repair Is Feasible And Safe After Liver Transplantation. *Surg Endosc.* 2010 Jun;24(6):1451-5

23. Brandt S, Regueira T, Bracht H, Porta F, Djafarzadeh S, Takala J, Gorrasi J, Borotto E, Krejci V, Hildebrand LB, Bruegger LE, Beldi G, Wilkens L, Lepper PM, Kessler U, Jakob SM. Effect of fluid resuscitation on mortality and organ function in experimental sepsis models. *Crit Care.* 2009 Nov 23;13(6):R186.
24. Sheth S, Bleibel W, Thukral C, A-Rahim Y, Beldi G, Csizmadia E, Robson SC. Heightened NTPDase-1/CD39 expression and angiogenesis in radiation proctitis. *Purinergic Signal.* 2009 Sep;5(3):321-6
25. Beldi G, Bisch-Knaden S, Banz V, Mühlemann K, Candinas D. Impact of intraoperative behavior on surgical site infections. *Am J Surg.* 2009 Aug;198(2):157-62. IF (2006) 2.337
26. Yano K, Okada Y, Beldi G, Shih SC, Bodyak N, Okada H, Kang PM, Luscinskas W, Robson SC, Carmeliet P, Karumanchi SA, Aird WC. Elevated levels of placental growth factor represent an adaptive host response in sepsis *J Exp Med.* 2008 Oct 27;205(11):2623-31. IF (2006) 15.612
27. Beldi G, Wu Y, Sun X, Imai M, Enyoji K, Csizmadia E, Candinas D, Erb L, Robson SC. Regulated catalysis of extracellular nucleotides by vascular CD39/ENTPD1 is required for liver regeneration. *Gastroenterology* 2008 Nov;135(5):1751-60. IF (2006) 12.457
28. Beldi G, Wu Y, Banz Y, Nowak M, Miller L, Enyoji K, Yegutkin GG, Candinas D, Exley M, Robson SC. NKT cell dysfunction in CD39/Entpd1 null mice protects against Concanavalin A-induced hepatitis. *Hepatology* 2008 Sep;48(3):841-52. IF (2006) 10.44
29. Banz Y, Beldi G, Wu Y, Atkinson B, Usheva A, Robson SC. CD39 is incorporated into plasma Microparticles where it maintains functional properties and impacts endothelial activation. *Br J Haematol.* 2008 Aug;142(4):627-37. Epub 2008 Jun 5. (2006) 4.498
30. Corriden R, Chen Y, Inoue Y, Beldi G, Robson S, Insel PA, Junger WG. ECTO-nucleoside triphosphate-diphosphohydrolase 1 (E-NTPDASE1/CD39) regulates neutrophil chemotaxis by hydrolyzing released ATP to adenosine. *J Biol Chem.* 2008 Aug 19. IF (2006) 5.581
31. Derdak Z, Mark N, Beldi G, Wands J, Robson SC, Baffy G. The mitochondrial uncoupling protein-2 promotes chemoresistance in cancer cells. *Cancer Res.* 2008 Apr 15;68(8):2813-9. IF (2006) 7.66
32. Beldi G, Haupt N, Ipaktchi R, Wagner M Candinas D. Postoperative hypoesthesia and pain: Qualitative assessment after open and laparoscopic inguinal hernia repair. *Surg Endosc.* 2008 Jan; 22(1):129-33. IF (2006) 1.97
33. Beldi G, Beng L, Siegel G, Bisch-Knaden S, Candinas D. Prevention of perioperative thromboembolism in patients with atrial fibrillation. *Br J Surg.* 2007 Nov;94(11):1351-5. IF (2006) 4.09
34. Inderbitzin D, Beldi G, Sidler D, Studer P, Keogh A, Bisch-Knaden S, Weimann R, Kappeler A, Gloor B, Candinas D. Granulocyte Colony-stimulating Factor Supports LiverRegeneration in a Small-for-size Liver Remnant Mouse Model. *J Gastrointest Surg.* 2007 Mar;11(3):280-5. IF (2006) 2.29
35. Inderbitzin D, Studer P, Sidler D, Beldi G, Djonov V, Keogh A, Candinas D.

- Regenerative capacity of individual liver lobes in the microsurgical mouse model. *Microsurgery*. 2006 26(6):465-9. IF (2006) 0.88
36. Beldi G, Bruegger LE, Peter M, Inderbitzin D, Candinas D. Analysis of appendiceal stump closure: stapling versus endoloop. *Br J Surg*. 2006 Nov;93(11):1390-3. IF (2006) 4.09
  37. Beldi G, Styner M, Wälti H, Inderbitzin D, Candinas D. Intraoperative three-dimensional cholangiography. *Hepato-Gastroenterology*, 2006 Mar-Apr;53(68):157-9. IF (2006) 0.76
  38. Beldi G, Ipaktchi R, Wagner M, Gloor B, Candinas D. Laparoscopic ventral hernia repair is cost effective. *Surg Endosc*. 2006 Jan;20(1):92-5. IF (2006) 1.99
  39. Inderbitzin D, Muggli B, Ringger A, Beldi G, Gass M, Gloor B, Uehlinger D, Regli B, Reichen J, Candinas D. Molecular absorbent recirculating system for the treatment of acute liver failure in surgical patients. *J Gastrointest Surg*. 2005 Nov;9(8):1155-61 IF (2006) 2.30
  40. Inderbitzin D, Avital I, Keogh A, Beldi G, Quarta M, Gloor B, Candinas D. Interleukin-3 induces hepatocyte-specific metabolic activity in bone marrow-derived liver stem cells. *J Gastrointest Surg*. 2005 Jan;9(1):69-74. IF (2006) 2.30
  41. Inderbitzin D, Gass M, Beldi G, Ayouni E, Nordin A, Sidler D, Gloor B, Candinas D, Stoupis C. Magnetic resonance imaging provides accurate and precise volume determination of the regenerating mouse liver. *J Gastrointest Surg*. 2004 Nov;8(7):806-11. IF (2006) 2.06
  42. Inderbitzin D, Beldi G, Avital I, Vinci G, Candinas D. Local and remote ischemia-reperfusion injury is mitigated in mice overexpressing human C1 inhibitor. *Eur Surg Res*. 2004 May-Jun;36(3):142-7. IF (2004) 0.75
  43. Beldi G, Kinsbergen T, Schlumpf R. Prospective Evaluation of intraoperative recurrent nerve monitoring. *World J Surg*. 2004 Jun;28(6):589-91. IF (2004) 1.95
  44. Beldi G, Muggli K, Helbling Ch, Schlumpf R. Laparoscopic Appendectomy Using Endoloops: A Prospective, Randomized Clinical Trial. *Surg Endosc*. 2004 May;18(5):749-50. IF (2004) 1.96
  45. Beldi G, Glättli A Laparoscopic Subtotal Cholecystectomy in Severe Cholecystitis: A follow-up study. *Surg Endosc* 2003 Sep;17(9):1437-9. IF(2003) 2.21
  46. Beldi G, Glättli A. Long-term Gastrointestinal Symptoms After Laparoscopic Nissen Fundoplication. *Surg Laparosc Endosc Percutan Tech* 2002 Oct;12(5):316-9. IF (2002) 0.98
  47. Beldi G, Bosshard A, Hess OM, Althaus U, Walpoth BH. Transit Time Flow Measurement: Experimental Validation and Comparison of Three Different Systems. *Ann Thorac Surg* 2000; 70:212-7. IF (2000) 2.14

## Reviews

1. Kohler A, Beldi G. Operation bei asymptomatischer Inguinalhernie – unnötig? *Ther Umsch*: 71(12) German.
2. Kohler A, Beldi G. Recurrence after hernia surgery: complication or natural course? *Chirurg*: 85; 2: 112-116 German.
3. Kurmann A, Tschan-Semmer F, Candinas D, Beldi G (corresponding author). Human factors in the operating room – the surgeons view. *Anaesthesia and Critical Care*, accepted.
4. Beldi G, Enyoji K, Wu Y, Miller L, Banz Y, Sun X, Robson SC. The role of purinergic signaling in the liver and IN transplantation: effects of extracellular nucleotides on hepatic graft vascular injury, rejection and metabolism. *Front Biosci* 2008 Jan 1;13:2588-603. IF (2006) 2.77
5. Robson SC, Beldi G. Ectonucleoside triphosphate dihydrolase 6. Signaling Gateway, AfCS Nature Molecule Page, online: [www.signaling-gateway.org](http://www.signaling-gateway.org)
6. Beldi G, Candinas D. Practical aspects and current perspectives of liver transplantation for the general practitioner. *Ther Umsch*. 2005 Jul; 62(7): 459-67.

## Editorials

1. Schettle M, Beldi G. Effect of diabetes on outcomes in patients undergoing emergency cholecystectomy for acute cholecystitis. *World J Surg*. 2013 Oct;37(10):2265
2. Beldi G. Technical feasibility of a robotic-assisted ventral hernia repair. *World J Surg*. 2012 Feb;36(2):453-4.

## Case Reports

1. Kaderli R, Fahrner R, Beldi G (corresponding author), Patak MA, Candinas D. Image of the month—quiz case. *Arch Surg*. 2011 146(6):759
2. Beldi G, Bissat A, Eugster T, Gürke L, Stierli P, Huber A. Mural Thrombus of the Aorta in Association with Homozygous PAI-1 -675 (4G) and Heterozygous GP Ia 807C/T Genotype. *J Vasc Surg* 2002 Sep;36(3):632-4. IF (2002) 3.47

## Book Chapters

1. Kurmann A and Beldi G. Laparoscopic Incisional Hernia Repair. Source: Updated Topics in Minimally Invasive Abdominal Surgery, ISBN 978-953-307-773-4, Edited by: Ahmed Abdel Raouf ElGeidie, Publisher: InTech, November 2011
2. Inderbitzin D, Sidler D, Beldi G, Studer P, Candinas D. Leberregeneration mit Stammzellaktivierung. *Bioworld* 03-2004: 2-3.
3. Inderbitzin D, Keogh A, Beldi G, Gass M, Stroka D, Gloor B, Stieger B, Candinas D. Int. Proceedings 2003: 135-9. Functional comparison of isolation and culture methods for the purification of adult liver stem cells from bone marrow. *International Proceedings*

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