

Curriculum Vitae

Academic Career:

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| Since 03/2019 | Erwin Schrödinger postdoctoral fellow at the Cambridge Institute of Therapeutic Immunology & Infectious Disease , University of Cambridge, UK Group leader: Prof. Arthur Kaser |
| 11/2015 – 03/2019 | Resident at the Division of General Surgery, Dept. Of Surgery, Medical University of Vienna (currently on scientific leave) |
| 08/2015 – 03/2019 | PhD at the Medical University of Vienna (N790) Supervisor: Prof. Thomas Reiberger |
| 2009 – 07/2015 | Medical degree, Medical University of Vienna, Vienna, Austria |
| 2013 –2014 | ERASMUS fellowship at the Charité Universitätsmedizin Berlin, Berlin, Germany |
| 02/2011-08/2015 | Diploma thesis and work as research assistant at the division of transplantation immunology, Medical University of Vienna Supervisors: Prof. Thomas Wekerle and Prof. Nina Pilat |
| 2009 - 2013 | Voluntary paramedic, Red Cross Vienna |
| 2008 - 2009 | Civil Service, Red Cross Vienna |
| 2007 | Exchange Semester in Davison, Michigan, USA |

Grants/Scholarships:

Fonds des Bürgermeisters der Bundeshauptstadt Wien (2020); **9,000 €**
Erwin Schrödinger Fellowship (07.10.2019 to 06.10.2021); **83,600.00 €**
Posterpreis, MeDiKo Congress, 2013
Travel scholarship awarded by the german surgical society, 2013
Scholarship for independent scientific work, Medical University of Vienna, 2012
Young Investigator Award awarded by the Austrian Society for Transplantation, Transfusion and Genetics; 2011
Scholarship for outstanding achievements awarded by the Medical University of Vienna, 2010, 2011, 2013

Peer-reviewer for:

Nature Medicine
Gut
American Journal of Transplantation
Liver Transplantation
United European Gastroenterology Journal
BMC Gastroenterology
Colorectal Disease
Digestive Disease and Science
International Journal of Clinical Practice
Plos One

Publons: <https://publons.com/author/1404521/lukas-unger#profile>

ORCID: <https://orcid.org/0000-0002-8423-2268>

Co-supervision of diploma theses:

Theresa Freilinger - Mesenterielle Lymphknotengranulome bei Morbus Crohn als Risikofaktor für chirurgische Rezidiveingriffe – eine retrospektive monozentrische Studie, 2019

Bernadette Forstner - Dyslipidemia in patients with chronic liver disease of different etiologies, 2019

Joy Feka - Influence of BMI on perioperative complications in living donor kidney donation: a retrospective single center experience, 2018

Max Pawloff - Retrospektive Kohortenstudie über den klinischen Verlauf bei Lebertransplantation nach TIPS Implantation, 2017

Theresa Stork - Retrospective cohort study of patients awaiting liver transplantation with or without prior TIPS implantation, 2016

Publications as first-author in peer-reviewed journals:

2020:

Hepatic Steatosis in Lean Patients: Risk Factors and Impact on Mortality.

Unger LW, Forstner B, Muckenhuber M, Scheuba K, Eigenbauer E, Scheiner B, Pfisterer N, Paternostro R, Trauner M, Mandorfer M, Reiberger T.

Dig Dis Sci. 2020 Sep;65(9):2712-2718. doi: 10.1007/s10620-019-06000-y. Epub 2019 Dec 24.

Mesenteric granulomas independently predict long-term surgical recurrence risk in Crohn's disease.

Unger LW, Argeny S, Stift A, Yang Y, Karall A, Freilinger T, Müller C, Bergmann M, Stift J, Riss S.

Colorectal Dis. 2020 Feb;22(2):170-177. doi: 10.1111/codi.14814. Epub 2019 Aug 23.

2019:

Patterns and prevalence of dyslipidemia in patients with different etiologies of chronic liver disease.

Unger LW, Forstner B, Schneglberger S, Muckenhuber M, Eigenbauer E, Scheiner B, Mandorfer M, Trauner M, Reiberger T.

Wien Klin Wochenschr. 2019 Sep;131(17-18):395-403. doi: 10.1007/s00508-019-01544-5. Epub 2019 Sep 6.

Guideline-conform statin use reduces overall mortality in patients with compensated liver disease.

Unger LW, Forstner B, Schneglberger S, Muckenhuber M, Eigenbauer E, Bauer D, Scheiner B, Mandorfer M, Trauner M, Reiberger T.

Sci Rep. 2019 Aug 12;9(1):11674. doi: 10.1038/s41598-019-47943-6.

Portal Hypertension after Liver Transplantation—Causes and Management.

Unger LW, Mandorfer M., Reiberger T.

Curr Hepatology Rep (2019). <https://doi.org/10.1007/s11901-019-00450-8>

Outcome of no oral antibiotic prophylaxis and bowel preparation in Crohn's diseases surgery.

Unger LW, Riss S., Argeny S., Bergmann M., Bachleitner-Hofmann T., Herbst F., Stift A.

Wien Klin Wochenschr. 2019 Mar 6. doi: 10.1007/s00508-019-1475-8. [Epub ahead of print]

2018:

Effect of pathologist's dedication on lymph node detection rate and postoperative survival in colorectal cancer.

Unger LW, Muckenhuber M, Riss S, Argeny S, Stift J, Mesteri I, Stift A.

Colorectal Dis. 2018 Apr 28. doi: 10.1111/codi.14241. [Epub ahead of print]

PMID: 29706021

2017:

The role of TIPS in the management of liver transplant candidates.

Unger LW, Stork T, Bucsecs T, Rasoul-Rockenschaub S, Staufer K, Trauner M, Maschke S, Pawloff M, Soliman T, Reiberger T, Berlakovich GA.

United European Gastroenterol J. 2017 Dec;5(8):1100-1107. doi: 10.1177/2050640617704807. Epub 2017 Apr 7.

PMID: 29238588

Regarding submission IJS-D-17-00704: High BMI and male sex as risk factor for increased short-term renal impairment in living kidney donors. A response to comments raised.

Unger L, Berlakovich GA.

Int J Surg. 2017 Oct 7. pii: S1743-9191(17)31336-5. doi: 10.1016/j.ijsu.2017.10.006. [Epub ahead of print] No abstract available.
PMID: 29017860

High BMI and male sex as risk factor for increased short-term renal impairment in living kidney donors - Retrospective analysis of 289 consecutive cases.

Unger LW, Feka J, Sabler P, Rasoul-Rockenschaub S, Györi G, Hofmann M, Schwarz C, Soliman T, Böhmig G, Kainz A, Salat A, Berlakovich GA.
Int J Surg. 2017 Sep 11;46:172-177. doi: 10.1016/j.ijsu.2017.09.007. [Epub ahead of print]
PMID: 28912105

Management of portal hypertension before and after liver transplantation.

Unger LW, Berlakovich G, Trauner M, Reiberger T.
Liver Transpl. 2017 Jul 28. doi: 10.1002/lt.24830. [Epub ahead of print]
PMID: 28752925

Rare Late Complication After Percutaneous Liver Biopsy.

Unger LW, Matzek W, Berlakovich G.
Am J Transplant. 2017 Aug;17(8):2221-2223. doi: 10.1111/ajt.14371. No abstract available.
PMID: 28724209

The post-transplant course of patients undergoing liver transplantation for nonalcoholic steatohepatitis versus cryptogenic cirrhosis: a retrospective case-control study.

Unger LW, Herac M, Stauer K, Salat A, Silberhumer G, Hofmann M, Trauner M, Rasoul-Rockenschaub S, Soliman T, Reiberger T, Berlakovich GA.
Eur J Gastroenterol Hepatol. 2017 Mar;29(3):309-316. doi: 10.1097/MEG.0000000000000794.
PMID: 27922486

Publications as co-author in peer-reviewed journals:

2021:

Global variation in postoperative mortality and complications after cancer surgery: a multicentre, prospective cohort study in 82 countries

GlobalSurg Collaborative and National Institute for Health Research Global Health Research Unit on Global Surgery

Lancet. 2021 Jan 30;397(10272):387-397. doi: 10.1016/S0140-6736(21)00001-5. Epub 2021 Jan 21.

2020:

Distinct roles for major and minor antigen barriers in chimerism-based tolerance under irradiation-free conditions.

Mahr B, Pilat N, Granofszky N, Muckenhuber M, Unger LW, Weijler AM, Wiletel M, Steiner R, Dorner L, Regele H, Wekerle T.

Am J Transplant. 2020 Jul 6. doi: 10.1111/ajt.16177. Online ahead of print. PMID: 32633070

Global variation in the long-term outcomes of ypT0 rectal cancers.

Lorenzon L, Evrard S, Beets G, Gonzalez-Moreno S, Kovacs T, D'Ugo D, Polom K; CORSiCA Study - EYSAC.1 Study Group.

Eur J Surg Oncol. 2020 Mar;46(3):420-428. doi: 10.1016/j.ejso.2019.10.010. Epub 2019 Oct 12.

Restoration of intestinal continuity after stoma formation for Crohn's disease in the era of biological therapy : A retrospective cohort study.

Müller C, Bergmann M, Stift A, Argeny S, Speake D, Unger L, Riss S.

Wien Klin Wochenschr. 2020 Jan;132(1-2):12-18. doi: 10.1007/s00508-019-01586-9. Epub 2020 Jan 8. PMID: 31915925

FAMIN Is a Multifunctional Purine Enzyme Enabling the Purine Nucleotide Cycle.

Cader MZ, de Almeida Rodrigues RP, West JA, Sewell GW, Md-Ibrahim MN, Reikine S, Sirago G, Unger LW, Iglesias-Romero AB, Ramshorn K, Haag LM, Saveljeva S, Ebel JF, Rosenstiel P, Kaneider NC, Lee JC, Lawley TD, Bradley A, Dougan G, Modis Y, Griffin JL, Kaser A.

Cell. 2020 Jan 23;180(2):278-295.e23. doi: 10.1016/j.cell.2019.12.017.

Novel reliability criteria for controlled attenuation parameter assessments for non-invasive evaluation of hepatic steatosis

Georg Semmler, Katharina Wöran, Bernhard Scheiner, Lukas W. Unger, Rafael Paternostro, Judith Stift, Philipp Schwabl, Theresa Bucsecs, David Bauer, Benedikt Simbrunner, Albert Friedrich Stättermayer, Matthias Pinter, Michael Trauner, Thomas Reiberger, Mattias Mandorfer

United European Gastroenterology Journal. 2020. <https://doi.org/10.1177/2050640619900820>

2019:

Exercise-induced bronchoconstriction, temperature regulation and the role of heat shock proteins in non-asthmatic recreational marathon and half-marathon runners.

Bekos C., Zimmermann M., Unger L., Janik S., Mitterbauer A., Koller M., Fritz R., Gäbler C., Didcock J., Kliman J., Klepetko W., Ankersmit HJ.

Sci Rep. 2019 Mar 12;9(1):4168. doi: 10.1038/s41598-019-39983-9.

Controlled attenuation parameter (CAP) does not predict hepatic decompensation in patients with advanced chronic liver disease.

Scheiner B, Steininger L, Semmler G, Unger LW, Schwabl P, Bucsics T, Paternostro R, Ferlitsch A, Trauner M, Reiberger T, Mandorfer M.
Liver Int. 2019 Jan;39(1):127-135. doi: 10.1111/liv.13943. Epub 2018 Sep 22.

2018:

Delta albumin is a better prognostic marker for complications following laparoscopic intestinal resection for Crohn's disease than albumin alone - A retrospective cohort study.

Müller C, Stift A, Argeny S, Bergmann M, Gnant M, Marolt S, Unger L, Riss S.
PLoS One. 2018 Nov 13;13(11):e0206911. doi: 10.1371/journal.pone.0206911. eCollection 2018.

Safety of primary anastomosis following emergency left sided colorectal resection: an international, multi-centre prospective audit.

2017 European Society of Coloproctology (ESCP) collaborating group.
Colorectal Dis. 2018 Sep;20 Suppl 6:47-57. doi: 10.1111/codi.14373.

Association of mechanical bowel preparation with oral antibiotics and anastomotic leak following left sided colorectal resection: an international, multi-centre, prospective audit.

2017 European Society of Coloproctology (ESCP) collaborating group.
Colorectal Dis. 2018 Sep;20 Suppl 6:15-32. doi: 10.1111/codi.14362.

The impact of conversion on the risk of major complication following laparoscopic colonic surgery: an international, multicentre prospective audit.

2017 and 2015 European Society of Coloproctology (ESCP) collaborating groups.
Colorectal Dis. 2018 Sep;20 Suppl 6:69-89. doi: 10.1111/codi.14371.

An international multicentre prospective audit of elective rectal cancer surgery; operative approach versus outcome, including transanal total mesorectal excision (TaTME).

2017 European Society of Coloproctology (ESCP) collaborating group.
Colorectal Dis. 2018 Sep;20 Suppl 6:33-46. doi: 10.1111/codi.14376.

Evaluating the incidence of pathological complete response in current international rectal cancer practice: the barriers to widespread safe deferral of surgery.

2017 European Society of Coloproctology (ESCP) collaborating group.
Colorectal Dis. 2018 Sep;20 Suppl 6:58-68. doi: 10.1111/codi.14361.

Outcomes after placement of a SX-ELLA esophageal stent for refractory variceal bleeding - a national multicenter study.

Pfisterer N, Riedl F, Pachofszky T, Gschwantler M, König K, Schuster B, Mandorfer M, Gessl I, Illiasch C, Fuchs EM, Unger L, Dolak W, Maieron A, Kramer L, Madl C, Trauner M, Reiberger T.
Liver Int. 2018 Sep 24. doi: 10.1111/liv.13971. [Epub ahead of print]

Allograft rejection is associated with development of functional IgE specific for donor MHC antigens.

Farkas AM, Baranyi U, Böhmig GA, Unger L, Hopf S, Wahrmann M, Regele H, Mahr B, Schwarz C, Hock K, Pilat N, Kristo I, Mraz J, Lupinek C, Thalhamer J, Bond G, Kuessel L, Wlodek E, Martin J, Clatworthy M, Pettigrew G, Valenta R, Wekerle T.
J Allergy Clin Immunol. 2018 Aug 9. pii: S0091-6749(18)30997-7. doi: 10.1016/j.jaci.2018.06.034. [Epub ahead of print]

An intra-individual surgical wound comparison shows that octenidine-based hydrogel wound dressing ameliorates scar appearance following abdominoplasty.

Matiasek J, Kienzl P, Unger LW, Grill C, Koller R, Turk BR.
Int Wound J. 2018 Jun 29. doi: 10.1111/iwj.12944. [Epub ahead of print]

Blockade of adhesion molecule lymphocyte function-associated antigen-1 improves long-term heart allograft survival in mixed chimeras.

Pilat N, Sabler P, Klaus C, Mahr B, Unger L, Hock K, Wiletel M, Schwarz C, Kristo I, Regele H, Wekerle T.
J Heart Lung Transplant. 2018 Mar 30. pii: S1053-2498(18)31424-4. doi: 10.1016/j.healun.2018.03.016. [Epub ahead of print]

2017:

Regulatory T Cells Promote Natural Killer Cell Education in Mixed Chimeras.

Mahr B, Pilat N, Maschke S, Granofszky N, Schwarz C, Unger L, Hock K, Farkas AM, Klaus C, Regele H, Wekerle T.
Am J Transplant. 2017 Dec;17(12):3049-3059. doi: 10.1111/ajt.14342. Epub 2017 Jun 6.

Anti-Interleukin-6 Promotes Allogeneic Bone Marrow Engraftment and Prolonged Graft Survival in an Irradiation-Free Murine Transplant Model.

Granofszky N, Farkas AM, Muckenhuber M, Mahr B, Unger L, Maschke S, Pilat N, Holly R, Wiletel M, Regele H, Wekerle T.
Front Immunol. 2017 Jul 19;8:821. doi: 10.3389/fimmu.2017.00821. eCollection 2017.

Impact of ultrasound examination shortly after kidney transplantation

Schwarz C, Mühlbacher J, Böhmig GA, Purtic M, Pablik E, Unger L, Kristo I, Soliman T, Berlakovich GA.
Eur Surg (2017). doi:10.1007/s10353-017-0467-z

2016:

Incomplete clonal deletion as prerequisite for tissue-specific minor antigen tolerization.

Pilat N, Mahr B, Unger L, Hock K, Schwarz C, Farkas AM, Baranyi U, Wrba F, Wekerle T.
JCI Insight. 2016 May 19;1(7):e85911.
PMID: 27699263

Non-professional marathon running: RAGE axis and ST2 family changes in relation to open-window effect, inflammation and renal function.

Bekos C, Zimmermann M, Unger L, Janik S, Hacker P, Mitterbauer A, Koller M, Fritz R, Gäbler C, Kessler M, Nickl S, Didcock J, Altmann P, Haider T, Roth G, Klepetko W, Ankersmit HJ, Moser B.
Sci Rep. 2016 Sep 22;6:32315. doi: 10.1038/srep32315.
PMID: 27653273

The Immunosuppressive Effect of CTLA4 Immunoglobulin Is Dependent on Regulatory T Cells at Low But Not High Doses.

Schwarz C, Unger L, Mahr B, Aumayr K, Regele H, Farkas AM, Hock K, Pilat N, Wekerle T.
Am J Transplant. 2016 May 17. doi: 10.1111/ajt.13872. [Epub ahead of print]
PMID: 27184870

IL-2/ α -IL-2 Complex Treatment Cannot Be Substituted for the Adoptive Transfer of Regulatory T cells to Promote Bone Marrow Engraftment.

Mahr B, Unger L, Hock K, Pilat N, Baranyi U, Schwarz C, Maschke S, Farkas AM, Wekerle T.
PLoS One. 2016 Jan 5;11(1):e0146245. doi: 10.1371/journal.pone.0146245.
PMID: 26731275

2015:

Tacrolimus, Mycophenolate Mofetil, and Low-Dose Steroids With or Without Interleukin-2 Receptor Antibody Induction Therapy: A Retrospective Cohort Analysis.

Schwarz C, Böhmig G, Steininger R, Unger L, Kristo I, Kozakowski N, Berlakovich GA, Soliman T, Mühlbacher F.

Transplant Proc. 2015 Oct;47(8):2446-9. doi: 10.1016/j.transproceed.2015.08.003.

PMID: 26518948

Polyclonal Recipient nTregs Are Superior to Donor or Third-Party Tregs in the Induction of Transplantation Tolerance.

Pilat N, Klaus C, Hock K, Baranyi U, Unger L, Mahr B, Farkas AM, Wrba F, Wekerle T.

J Immunol Res. 2015;2015:562935. doi: 10.1155/2015/562935.

PMID: 26273682

Outcomes for split-thickness skin transplantation in high-risk patients using octenidine.

Matiasek J, Djedovic G, Unger L, Beck H, Mattesich M, Pierer G, Koller R, Rieger UM.

J Wound Care. 2015 Jun;24(6 Suppl):S8, S10-2. doi: 10.12968/jowc.2015.24.Sup6.S8.

PMID: 26075514

2014:

T-regulatory cell treatment prevents chronic rejection of heart allografts in a murine mixed chimerism model.

Pilat N, Farkas AM, Mahr B, Schwarz C, Unger L, Hock K, Oberhuber R, Aumayr K, Wrba F, Wekerle T.

J Heart Lung Transplant. 2014 Apr;33(4):429-37. doi: 10.1016/j.healun.2013.11.004.

PMID: 24468120

2013:

Implication for bone marrow derived stem cells in hepatocyte regeneration after orthotopic liver transplantation.

Pilat N, Unger L, Berlakovich GA.

Int J Hepatol. 2013;2013:310612. doi: 10.1155/2013/310612. Review.

PMID: 24109514

Anti-LFA-1 or rapamycin overcome costimulation blockade-resistant rejection in sensitized bone marrow recipients.

Ramsey H, Pilat N, Hock K, Klaus C, Unger L, Schwarz C, Baranyi U, Gattringer M, Schwaiger E, Wrba F, Wekerle T.

Transpl Int. 2013 Feb;26(2):206-18. doi: 10.1111/tri.12021.

PMID: 23240587

Publications in other journals:

Die Bedeutung der TIPS Implantation im Management von Patienten auf der Lebertransplantationswarteliste

L. Unger and T. Reiberger

J GASTROENTEROL HEPATOL ERKR 2016; 14 (4)