

Claus Petersen

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Date of Birth July 14, 1954

Undergraduate and postgraduate training and activities

1973 - 1980	University of Kiel, Lübeck and Hannover
1981 – 1982	Resident in general surgery (Hannover)
1982 – 1983	Resident in gynaecology and obstetrics (Bad Oldesloe)
1983	Tropical medicine (Heidelberg/Tübingen/Berlin)
1984	Medical Doctorate, Dept of pediatrics, Hannover Medical School
1984 – 1986	Voluntary service in Bénin, Westafrica
1986 – 1987	Resident in pediatric surgery (Hannover)
1987 – 1990	Resident in general surgery (Reutlingen)
1991 – 1992	Fellow in pediatric surgery (Hannover)
1992	Board certification (General surgery)
1996	Board certification (Pediatric surgery)
1998	Venia legendi (Pediatric surgery)
2001	Associate Professorship (Pediatric surgery)
1992 - 2021	Senior staff surgeon, Dept of pediatric surgery, Hannover Medical School

Awards

1997	Richard Drachter Prize for research of the German Pediatric Surgical Association
2001	Hans Salzer Prize for research of the Austrian Pediatric Surgical Association
2008	Edgar Ungeheuer Prize of the German Surgical Association
2008	3 rd prize of the first WeBSurg Award/IRCAD, Strasbourg, France (Coauthor to K. Khelif)
2008 - 2021	15 national and international awards to members of the Biliary Atresia Research Group
2021	Honorary badge of the Medical Association of Lower Saxony

Scientific activities

since 1997	Founder and head of the Biliary Atresia Research Group, Hannover
1999	Biliary atresia – New clues from etiology to therapy. Innovation by cooperation (Hannover, organizer and chair)
since 2000	Ad hoc reviewing on behalf of 36 medical journals (e. g. Gastroenterology, Hepatology, Pediatrics, The Lancet Gastroenterology & Hepatology, The Journal of Hepatology, etc.)
since 2002	Invited lecturer and visiting professor at 16 international universities
since 2006	German coordinator of the project “Pediatric surgery for the Yemen - teaching to train” (sponsored by the DAAD)

2006	European biliary atresia registries. What comes next? (Hannover, organizer and chair)
2013	Pediatric surgery in Yemen (Sana'a, organizer and chair)
2014	Biliary atresia and related diseases. Let's stick together (Berlin, organizer and chair)
2018	Delegation member of the Federal Ministry of Education and Research visiting the German Science Day in Iran
Since 2017	Member of the biliary atresia working group of the ERN-project rare-liver
2019-'20	Organizer and head of the project "Improving the care of severe burned children in Tunisia" (sponsored by the GIZ)
2022	Biliary atresia and related diseases. Joined meeting together with BAPS and ERN-rare-liver (Bruges, Belgium; organizer and chair)
2020-'23	Organizer and head of the project "Paediatric Surgery in Pakistan: Bridging the Gaps – Track 1(sponsored by the DAAD, cancelled by the pandemic in 2022)
Since 2021	Guest editor of the Topical Collection "Biliary Atresia: Aetiology, Diagnosis and Treatment" Journal of Clinical Medicine

Websites

2012	www.bard-online.com (updated version under construction - 2023)
2017	www.chestwall.org (new version under construction)

External funding and research grants: : ~1.500.000,- €

Selected Publications

22 out of 66 papers on biliary atresia (1997 – 2022)

Petersen C, Grasshoff S, Luciano L. Diverse morphology of biliary atresia in an animal model. **J Hepatol** 28 (1998): 603 - 607

Petersen C. Pathogenesis and treatment opportunities for biliary atresia. **Clin Liver Dis** 10 (2006):73-88

J. Kübler, Czech-Schmidt G, Leonhardt J, Ure BM, **Petersen C**. Type-I but not type-II interferon receptor knockout mice are susceptible to biliary atresia. **Pediatr Res** 59 (2006) 790-426

Petersen C, Harder D, Melter M, Becker T, v. Wasielewski R, Leonhardt J, Ure BM Postoperative high-dose steroids do not improve mid-term survival with native liver in biliary atresia. **Am J Gastroenterol** 103 (2008):712-9

Petersen C, Meier P N, Schneider A, Turowski C, Pfister E D, Manns M P, Ure B M, Wedemeyer J. ERCP prior to explorative laparotomy avoids unnecessary surgery in patients suspected for biliary atresia. **J Hepatol** 51 (2009): 1055-60

Leonhardt J, Kuebler J F, Turowski C, Tschernig T, Geffers R, **Petersen C**. Susceptibility to Experimental Biliary Atresia is Linked to Different Hepatic Gene Expression Profiles in Various Mouse Strains. **Hepatol Res** 40 (2009): 196-203

Ure BM, Kuebler JF, Schukfeh N, Engelmann C, Dingemann J, **Petersen C** Survival with the native liver after laparoscopic versus conventional Kasai portoenterostomy in infants with biliary atresia: a prospective trial. **Ann Surg** 253 (2011): 826-30.

Petersen C. Biliary atresia: the animal models. **Sem Pediatr Surg** 21 (2012):185-91

Petersen C, Davenport M. The Aetiology of Biliary Atresia : What is actually known? **Orphanet J Rare Dis** 29 (2013):128 (1-13)

Klemann C, Schröder A, Dreier A, Moehn N, Winterberg T, Dippel S, Gueler F, Jörns A, Leonhardt J, Lochner M, Haas J, Prinz I, **Petersen C**, Kuebler J. Neutralization of Interleukin-17 produced by gamma delta T cell constrains inflammation in experimental biliary atresia. **Gastroenterology** 2016;150: 229-241

Verkade HJ, Bezerra JA, Davenport M, Schreiber RA, Mieli-Vergani G, Hulscher JB, Sokol RJ, Kelly DA, Ure B, Whittington PF, Samyn M, **Petersen C.** Biliary atresia and other cholestatic childhood diseases: advances and future challenges. **J Hepatol** 2016; 65:631-42

Petersen C. Biliary atresia – unity in diversity. **Pediatr Surg Int** 2017; 33:1255-1261

Madadi-Sanjani O, Blaser J, Voigt G, Kuebler JF, **Petersen C.** Home-based color card screening for Biliary Atresia: The first steps for implementation of a nationwide newborn screening in Germany. **Pediatr Surg Int** 2019; 35:1217-1222

Madadi-Sanjani O, **Petersen C** Translational Research in Biliary Atresia: News from Mice and Men. **Eur J Pediatr Surg** 2019;29: 336-341

Oetzmann von Sochaczewski C, Pintelon I, Brouns I, Thys S, Deigendesch N, Kübler JF, Timmermans JP, **Petersen C.** Experimentally Induced Biliary Atresia by Means of Rotavirus-Infection Is Directly Linked to Severe Damage of the Microvasculature in the Extrahepatic Bile Duct. **Anat Rec (Hoboken)** 2019; 302: 818-24

Möhn N, Bruni E, Schröder A, Frömmel S, Gueler F, Vieten G, Prinz I, Kuebler JF, **Petersen C**, Klemann C. Synthetic retinoid AM80 inhibits IL-17 production of gamma delta T cells and ameliorates biliary atresia in mice. **Liver Int** 2020; 40:3031-41

Madadi-Sanjani O, Froemmel S, Falk CS, Vieten G, **Petersen C**, Kuebler JF, Klemann C. Growth Factors Assessed during Kasai Procedure in Liver and Serum Are Not Predictive for the Postoperative Liver Deterioration in Infants with Biliary Atresia **J Clin Med** 2021;10:1978

Madadi-Sanjani O, Kuebler JF, Uecker M, Pfister ED, Baumann U, Kunze-Hullmann B, Blaser J, Buck T, **Petersen C.** Province-Wide Stool Color Card Screening for Biliary Atresia in Lower-Saxony: Experiences with Passive Distribution Strategies and Results. *Int J Neonatal Screen* 202; 7:75

Kuebler JF, Madadi-Sanjani O, Pfister ED, Baumann U, Fortmann D, Leonhardt J, Ure BM, Manns MP, Taubert R, **Petersen C**. Adjuvant Therapy with Budesonide Post-Kasai Reduces the Need for Liver Transplantation in Biliary Atresia. **J Clin Med** 2021;10: 5758

Hulscher JBF, Kuebler JF, Bruggink JM, Davenport M, Scholz S, **Petersen C**, Madadi-Sanjani O, Schukfeh N. Controversies in Choledochal Malformation in Children: An International Survey among Pediatric Hepatobiliary Surgeons and Gastroenterologists. **J Clin Med** 2022;1: 1148

Madadi-Sanjani O, Fortmann D, Rolle U, Rodeck B, Sturm E, Pfister ED, Kuebler JF, Baumann U, Schmittbecher P, **Petersen C**. Centralization of Biliary Atresia: Has Germany Learned Its Lessons? **Eur J Pediatr Surg** 2022; 32: 233-39

Karlsen TH, Sheron N, Zelber-Sagi S, Carrieri P, Dusheiko G, Bugianesi E, Pryke R, Hutchinson SJ, Sangro B, Martin NK, Cecchini M, Dirac MA, Belloni A, Serra-Burriel M, Ponsioen CY, Sheena B, Lerouge A, Devaux M, Scott N, Hellard M, Verkade HJ, Sturm E, Marchesini G, Yki-Järvinen H, Byrne CD, Targher G, Tur-Sinai A, Barrett D, Ninburg M, Reic T, Taylor A, Rhodes T, Treloar C, **Petersen C**, Schramm C, Flisiak R, Simonova MY, Pares A, Johnson P, Cucchetti A, Graupera I, Lionis C, Pose E, Fabrellas N, Ma AT, Mendive JM, Mazzaferro V, Rutter H, Cortez-Pinto H, Kelly D, Burton R, Lazarus JV, Ginès P, Buti M, Newsome PN, Burra P, Manns MP. The EASL-Lancet Liver Commission: protecting the next generation of Europeans against liver disease complications and premature mortality. **Lancet** 2022; 399: 61-116