

Claus Petersen

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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, Dep. 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 - 2021	Associate Professorship (Pediatric surgery)

Awards

1997	Richard Drachter Prize for research of the German Pediatr Surg Assoc
2001	Hans Salzer Prize for research of the Austrian Pediatr Surg Assoc
2008	Edgar Ungeheuer Prize of the German Surg Assoc
2008	3 rd prize of the first WeBSurg Award/IRCAD, Strasbourg, France (Coauthor to K. Khelif)
2008 - 2017	13 national and international awards to members of the Biliary Atresia Research Group

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	Speaker for biliary atresia registries of the ERN-project rare-liver
2019-`21	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 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)

Websites

2012	www.bard-online.com
2017	www.chestwall.org

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

Ad hoc Reviewing for

Acta Medica Academica
Acta Paediatrica
Archives of Disease in Childhood
BMC Cases Journal
BMC Gastroenterology
BMJ Pediatrics Open
Clinics in Surgery (editorial board)
Clinics and Research in Hepatology and Gastroenterology
EBioMedicine
European Journal of Pediatrics
European Journal of Paediatric Surgery (editorial board)
European Journal of Paediatric Surgery Reports
Expert opinion
Expert Review of Gastroenterology & Hepatology
Frontiers
Gastroenterology
Hepatobiliary Surgery and Nutrition
Hepatology
Immunity, Inflammation and Disease
International Journal of Experimental Pathology
Journal of International Medical Research
The Journal of Hepatology
The Journal of Pediatrics
The Journal of Pathology
The Open Surgery Journal (editorial board)
Journal of the American College of Surgeons
Journal of Clinical Medicine (editorial board)
Journal of Developmental Origins of Health and Disease
Journal of Hepato-Biliary-Pancreatic Sciences
Journal of Paediatric Surgery
Journal of Paediatric Gastroenterology and Nutrition
Journal of Surgical Research
Journal of Virology
Klinische Pädiatrie
Laboratory Investigation

The Lancet Gastroenterology & Hepatology
Liver Transplantation
Pediatrics
Paediatric Research
Paediatric Surgery International
Scientific Reports Nature
Vaccine
Viral Immunology
World Journal of Hepatology (editorial board)
World Journal of Pediatrics
World Journal of Urology

Selected Publications out of 64 papers about biliary atresia (1997 – 2021)

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(11):1217-1222

Madadi-Sanjani O, **Petersen C** Translational Research in Biliary Atresia: News from Mice and Men. **Eur J Pediatr Surg**. 2019;29(4):336-341.

Möhn N, Schröder A, Frömmel S, Gueler F, Prinz I, Vieten G, Bruni E, 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 International** 2020; 40: 3031-3041

Madadi-Sanjani O, Fortmann D, Rolle U, Rodeck B, Sturm E, Pfister ED, Kuebler JF, Baumann U Schmittenebecher P, **Petersen C**. Centralization of biliary atresia: has Germany learned its lessons? *Eur J Pediatr Surg* 2021 Mar 4. doi: 10.1055/s-0041-1723994

Madadi-Sanjani O, Bohlen G, Wehrmann F, Hensel J, Khelif K, von Wasielewski R, Bantel H, **Petersen C**

Increased Serum Levels of Activated Caspases in Murine and Human Biliary Atresia *J Clin Med* 2021 Jun 19;10(12):2718.

Karlsen TH, Sheron N, Zelber-Sagi S, Carrieri P, Dusheiko G, Bugianes E, Pryke R, Hutchinson SJ, Sangro B, Martin NK, Cecchini M, Dirac MA, Belloni A, Serra-Burriel M, Ponsioen CY, Sheena C, Lerouge A, Devaux M, Scott N, Hellard M, Verkade HJ, Sturm E, Marchesini G, Yki-Järvinen H, Byrne DB, Targher G, Tur-Sinai A, Barrett D, Ninburg M, Reic T, Taylor A, Rhodes T, Treloar C, **Petersen C**, Schramm C, R Flisiak, Simonova MY, Pares A, Johnson P, Cuccheti A, Graupera I, Lionis C, Pose E, Fabrellas N, Thu Ma A, 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 Commission: Protecting the next generation of Europeans against liver disease complications and premature mortality

The Lancet 2021, in press