



22nd Annual Congress of the Chest Wall international Group

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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 Benin, Westafrica

1986 - 1987 Resident in pediatric surgery (Hannover)

1987 - 1990 Resident in general surgery (Reutlingen)

1991 - 1992 Fellow in pediatric surgery (Hannover)



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- 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 3rd 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 (until 2021) 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)



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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 ERNrare-liver (Bruges, Belgium; organizer and chair)

### *Websites*

2012 [www.bard-online.com](http://www.bard-online.com)

2017 [www.chestwall.org](http://www.chestwall.org)

### *External funding and research grants*

~1.500.000,- €

### *Expert status biliary atresia*

<https://expertscape.com/ex/biliary+atresia>

### *Ad hoc Reviewing for*

Acta Medica Academica

Acta Paediatrica

Archives of Disease in Childhood

BMC Cases Journal



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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



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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 P diatrie  
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 – 2022)*



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**Petersen C, Grasshoff S, Luciano L.**

Diverse morphology of biliary atresia in an animal model.

J Hepatol 1998; 28: 603-607

**Petersen C.**

Pathogenesis and treatment opportunities for biliary atresia.

Clin Liver Dis 2006;10: 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 2006;59: 790-794

**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 2008; 103: 712-719

**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 2009; 51: 1055-60



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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.

**Hepatology** 2009; 40: 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** 2011; 253: 826-30.

**Petersen C.** Biliary atresia: the animal models.

**Sem Pediatr Surg** 2012; (2012):185-91

**Petersen C,** Davenport M.

The Aetiology of Biliary Atresia : What is actually known?

**Orphanet J Rare Dis** 2013; 29:128 (1-13)

Klemann C, Schröder A, Dreier A, Moehn N, Winterberg T, Dippel S, Gueler F, Jorns 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



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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.

Mohn N, Schroder A, Frommel 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





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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.

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 Dec 9;10(24):5758

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, Ginsburg P, Buti M, Newsome PN, Burra P, Manns MP



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The EASL-Lancet Commission: Protecting the next generation of Europeans against liver disease complications and premature mortality

**The Lancet** 2022; 399(10319):61-116

Ana M Calinescu AM, Madadi-Sanjani O, Mack C, Schreiber RA, Superina R, Kelly D, **Petersen C**, Wildhaber BE

Cholangitis Definition and Treatment after Kasai Hepatportoenterostomy for Biliary Atresia: A Delphi Process and International Expert Panel

**J Clin Med** 2022 ;11(3):494. doi: 10.3390/jcm11030494