

## **Prof. Dr. med. Alexander Arlt**

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# 1 Curriculum vitae

## 1.1 General information

- Name** : Prof. Dr. med. Alexander Arlt, MD
- Date of birth** : 14.08.1974
- Institution** : 1st Department for Internal Medicine  
University Hospital Schleswig-Holstein, Campus Kiel,  
Arnold Heller Str. 3, Haus 6  
24105 Kiel, Germany
- Position** : Head senior consultant and Principal investigator  
Head of pancreatology;  
co-head of endoscopy;  
co-head intensive care medicine
- Clinical skills** : Gastroenterology, Endoscopy and intensive care medicine;

## 1.2 Academic education with degree

- 1980 – 1993 : **Primary and secondary school** in Oelixdorf and Itzehoe, degree: Hochschulreife
- 1993 – 1994 : **Studium** of mathematic and chemistry at the University of Hamburg
- 1994 - 2001 : **Studium** of human medicine an der Christian-Albrechts Universität zu Kiel, Abschluss: 3. Staatsexamen (**Teilapprobation**)
- 2001-2002 : **Arzt im Praktikum** Klinik für Allgemeine Innere Medizin (Leiter Prof. Dr. U.R. Fölsch) UKSH – Campus Kiel.
- 30.11.2002 : **Approbation in medicine**
- 02.2002 : **MD thesis in medicine, summa cum laude**
- 29.10.2007 : **Habilitation (postdoctoral lecture qualification) in internal medicine**
- 21.02.2013 : **Promotion to „Ausserplanmäßigem Professor“**

## 1.3 Professional career

- 2001-2002 : **Arzt im Praktikum** Klinik für Allgemeine Innere Medizin (Leiter Prof. Dr. U.R. Fölsch) UKSH – Campus Kiel.
- 30.11.2002 : **Approbation in medicine**
- 26.09.2007 : **Board certification internal medicine**
- 07.01.2009 : **Board certification gastroenterology**
- 01.04.2009 : **Senior consultant (entfristetes Arbeitsverhältnis seit 2011)**
- 01.07.2013 : **Chief senior consultant (leitender Oberarzt)**

## 1.4 Important Scientific Prizes

- 2001 : award for the best MD thesis from the “Norddeutschen Gesellschaft für Gastroenterologie“
- 2001 : scientific award from the Hensel foundation, Kiel
- 2001 : Vincenz-Czerny-award for oncology from the “Deutschen Gesellschaft für Hämatologie und Onkologie“
- 2001 : Walther und Christiane Richtzenhain Award, DKFZ Heidelberg
- 2001 : Award from the medical faculty of the university Kiel for best MD thesis
- 2002 : Young Investigator Award Deutschen Gesellschaft für Innere Medizin“
- 2002 : Ludolph-Brauer-Award
- 2004 : Stipendium from the „Ernst-Jung-Medaille für Medizin in Gold“
- 2008 : Harald Goebell-Stipendium der DGVS
- 2010 : Rising Star award of the ASNEMGE

## 1.5 Journal Reviewer and expert activities

Journals: Gastroenterology, PlosONE, Cancer Research, Oncogene, Gut, Biochemical Journal; Neoplasia

Foundations/Institutions: Deutsche Forschungsgemeinschaft, Pancreatic Cancer UK, Fonds  
Coordinator of the clearing platform of the DGIM

## 1.6 Memberships

German Society for Digestive and Metabolic Diseases (DGVS), German Society of Internal Medicine (DGIM), German Pancreatic Club, AACR, DEGUM

## 1.7 Publication metrics

Cumulative impact factor 565,5; 98 peer reviewed publications; h-factor 30

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## 1.8 Clinical skills

### 1.8.1 Diagnostic and interventional endoscopy

- Standard endoscopy (colonoscopy and esophagogastroduodenoscopy)
- EUS (DEGUM level II instructor)
- Lumen apposing metal stents (Drainage and Stomia)
- ERCP
- Interventional therapy of fluid collections
- ESD and EMR
- Capsule endoscopy

#### Endoscopic procedures since 2003

(01.12.2017, only primary examiner procedures)

Procedure	Number
Diagnostic and interventional esophagogastroduodenoscopy	7454
colonoscopy	2654
EUS	2127
ERCP	1704
bronchoscopy	1972

### 1.8.2 Intensive care medicine

## 2 Publications

### 2.1 Publication metrics

Cumulative impact factor 565,5; 98 peer reviewed publications; h-factor 30

### 2.2 Original publications

1. Schäfer, H., Diebel, J., Arlt, A., Trauzold, A., Schmidt, W. E. (1998). The promoter of human p22/PACAP response gene 1 (PRG1) contains functional binding sites for the p53 tumor suppressor and for NFkappaB. *FEBS Lett* **436**: 139-43.
2. Schäfer, H., Arlt, A., Trauzold, A., Hunermann-Jansen, A., Schmidt, W. E. (1999). The putative apoptosis inhibitor IEX-1L is a mutant nonspliced variant of p22(PRG1/IEX-1) and is not expressed in vivo. *Biochem Biophys Res Commun* **262**: 139-45.
3. Schmidt, W. E., Arlt, A., Trauzold, A., Schäfer, H. (1999). p22/PRG1: a novel early response gene in pancreatic cancer cells regulated by p53 and NF kappa B. *Ann N Y Acad Sci* **880**: 147-56.
4. Arlt, A., Grobe, O., Sieke, A., Kruse, M. L., Fölsch, U. R., Schmidt, W. E., Schäfer, H. (2001). Expression of the NF-kappa B target gene IEX-1 (p22/PRG1) does not prevent cell death but instead triggers apoptosis in Hela cells. *Oncogene* **20**: 69-76.
5. Arlt, A., Vorndamm, J., Breitenbroich, M., Fölsch, U. R., Kalthoff, H., Schmidt, W. E., Schäfer, H. (2001). Inhibition of NF-kappaB sensitizes human pancreatic carcinoma cells to apoptosis induced by etoposide (VP16) or doxorubicin. *Oncogene* **20**: 859-68.
6. Grobe, O., Arlt, A., Ungefroren, H., Krupp, G., Fölsch, U. R., Schmidt, W. E., Schäfer, H. (2001). Functional disruption of IEX-1 expression by concatemeric hammerhead ribozymes alters growth properties of 293 cells. *FEBS Lett* **494**: 196-200.
7. Trauzold, A., Wermann, H., Arlt, A., Schutze, S., Schäfer, H., Oestern, S., Roder, C., Ungefroren, H., Lampe, E., Heinrich, M., Walczak, H., Kalthoff, H. (2001). CD95 and TRAIL receptor-mediated activation of protein kinase C and NF-kappaB contributes to apoptosis resistance in ductal pancreatic adenocarcinoma cells. *Oncogene* **20**: 4258-69.

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8. Ungefroren, H., Kruse, M. L., Trauzold, A., Roeschmann, S., Roeder, C., **Arlt, A.**, Henne-Bruns, D., Kalthoff, H. (2001). FAP-1 in pancreatic cancer cells: functional and mechanistic studies on its inhibitory role in CD95-mediated apoptosis. *J Cell Sci* **114**: 2735-46.
  9. **Arlt, A.**, Vorndamm, J., Muerkoster, S., Yu, H., Schmidt, W. E., Fölsch, U. R., Schäfer, H. (2002). Autocrine production of interleukin 1beta confers constitutive nuclear factor kappaB activity and chemoresistance in pancreatic carcinoma cell lines. *Cancer Res* **62**: 910-6.
  10. Schiller, H., Bartscht, T., **Arlt, A.**, Zahn, M. O., Seifert, A., Bruhn, T., Bruhn, H. D., Gieseler, F. (2002). Thrombin as a survival factor for cancer cells: thrombin activation in malignant effusions in vivo and inhibition of idarubicin-induced cell death in vitro. *Int J Clin Pharmacol Ther* **40**: 329-35.
  11. **Arlt, A.**, Gehrz, A., Muerkoster, S., Vorndamm, J., Kruse, M. L., Fölsch, U. R., Schäfer, H. (2003). Role of NF-kappaB and Akt/PI3K in the resistance of pancreatic carcinoma cell lines against gemcitabine-induced cell death. *Oncogene* **22**: 3243-51.
  12. **Arlt, A.**, Kruse, M. L., Breitenbroich, M., Gehrz, A., Koc, B., Minkenbergh, J., Fölsch, U. R., Schäfer, H. (2003). The early response gene IEX-1 attenuates NF-kappaB activation in 293 cells, a possible counter-regulatory process leading to enhanced cell death. *Oncogene* **22**: 3343-51.
  13. Muerkoster, S., **Arlt, A.**, Witt, M., Gehrz, A., Haye, S., March, C., Grohmann, F., Wegehenkel, K., Kalthoff, H., Fölsch, U. R., Schäfer, H. (2003). Usage of the NF-kappaB inhibitor sulfasalazine as sensitizing agent in combined chemotherapy of pancreatic cancer. *Int J Cancer* **104**: 469-76.
  14. Trauzold, A., Schmiedel, S., Roder, C., Tams, C., Christgen, M., Oestern, S., **Arlt, A.**, Westphal, S., Kapischke, M., Ungefroren, H., Kalthoff, H. (2003). Multiple and synergistic deregulations of apoptosis-controlling genes in pancreatic carcinoma cells. *Br J Cancer* **89**: 1714-21.

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15. Trauzold, A., Schmiedel, S., Sipos, B., Wermann, H., Westphal, S., Roder, C., Klapper, W., **Arlt, A.**, Lehnert, L., Ungefroren, H., Johannes, F. J., Kalthoff, H. (2003). PKCmu prevents CD95-mediated apoptosis and enhances proliferation in pancreatic tumour cells. *Oncogene* **22**: 8939-47.
16. **Arlt, A.**, Minkenber, J., Kocs, B., Grossmann, M., Kruse, M. L., Fölsch, U. R., Schäfer, H. (2004). The expression of immediate early gene X-1 (IEX-1) is differentially induced by retinoic acids in NB4 and KG1 cells: possible implication in the distinct phenotype of retinoic acid-responsive and -resistant leukemic cells. *Leukemia* **18**: 1646-55.
17. Muerkoster, S., **Arlt, A.**, Gehr, A., Vorndamm, J., Witt, M., Grohmann, F., Fölsch, U. R., Schäfer, H. (2004). [Autocrine IL-1beta secretion leads to NF-kappabeta-mediated chemoresistance in pancreatic carcinoma cells in vivo]. *Med Klin (Munich)* **99**: 185-90.
18. Muerkoster, S., Wegehenkel, K., **Arlt, A.**, Witt, M., Sipos, B., Kruse, M. L., Sebens, T., Kloppel, G., Kalthoff, H., Fölsch, U. R., Schäfer, H. (2004). Tumor stroma interactions induce chemoresistance in pancreatic ductal carcinoma cells involving increased secretion and paracrine effects of nitric oxide and interleukin-1beta. *Cancer Res* **64**: 1331-7.
19. Kruse, M. L. \*, **Arlt, A.** \*, Sieke, A., Grohmann, F., Grossmann, M., Minkenber, J., Fölsch, U. R., Schäfer, H. (2005). Immediate early gene X1 (IEX-1) is organized in subnuclear structures and partially co-localizes with promyelocytic leukemia protein in HeLa cells. *J Biol Chem* **280**: 24849-56.
- \* shared first author
20. Muerkoster, S., Isberner, A., **Arlt, A.**, Witt, M., Reimann, B., Blaszcuk, E., Werbing, V., Fölsch, U. R., Schmitz, F., Schäfer, H. (2005). Gastrin suppresses growth of CCK2 receptor expressing colon cancer cells by inducing apoptosis in vitro and in vivo. *Gastroenterology* **129**: 952-68.
21. Muerkoster, S., **Arlt, A.**, Sipos, B., Witt, M., Grossmann, M., Kloppel, G., Kalthoff, H., Fölsch, U. R., Schäfer, H. (2005). Increased expression of the E3-ubiquitin ligase

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- receptor subunit betaTRCP1 relates to constitutive nuclear factor-kappaB activation and chemoresistance in pancreatic carcinoma cells. *Cancer Res* **65**: 1316-24.
22. Trauzold, A., Roder, C., Sipos, B., Karsten, K., **Arlt, A.**, Jiang, P., Martin-Subero, J. I., Siegmund, D., Muerkoster, S., Pagerols-Raluy, L., Siebert, R., Wajant, H., Kalthoff, H. (2005). CD95 and TRAF2 promote invasiveness of pancreatic cancer cells. *Faseb J* **19**: 620-2.
23. Waetzig, G. H., Rosenstiel, P., **Arlt, A.**, Till, A., Brautigam, K., Schäfer, H., Rose-John, S., Seegert, D., Schreiber, S. (2005). Soluble tumor necrosis factor (TNF) receptor-1 induces apoptosis via reverse TNF signaling and autocrine transforming growth factor-beta1. *Faseb J* **19**: 91-3.
24. Muerkoster, S. S., Lust, J., **Arlt, A.**, Hasler, R., Witt, M., Sebens, T., Schreiber, S., Fölsch, U. R., Schäfer, H. (2006). Acquired chemoresistance in pancreatic carcinoma cells: induced secretion of IL-1beta and NO lead to inactivation of caspases. *Oncogene* **25**: 3973-81.
25. Tepel, J., March, C., Ketterer, T., Kapischke, M., **Arlt, A.**, Kremer, B., Kalthoff, H., Kruse, M. L. (2006). A modified random oligonucleotide-based combination therapy for adjuvant treatment of pancreatic ductal adenocarcinoma. *Int J Oncol* **28**: 1105-12.
26. **Arlt, A.**, Minkenber, J., Kruse, M. L., Grohmann, F., Fölsch, U. R., Schäfer, H. (2007). Immediate early gene-X1 interferes with 26 S proteasome activity by attenuating expression of the 19 S proteasomal components S5a/Rpn10 and S1/Rpn2. *Biochem J* **402**: 367-75.
27. El Mokhtari, N. E. \*, **Arlt, A.** \*, Meissner, A., Lins, M. (2007). Inotropic therapy for cardiac low output syndrome: comparison of hemodynamic effects of dopamine/dobutamine versus dopamine/dopexamine. *Eur J Med Res* **12**: 563-7.
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28. **Arlt, A.**, Rosenstiel, P., Kruse, M. L., Grohmann, F., Minkenber, J., Perkins, N. D., Fölsch, U. R., Schreiber, S., Schäfer, H. (2008). IEX-1 directly interferes with RelA/p65



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- dependent transactivation and regulation of apoptosis. *Biochim Biophys Acta* **1783**: 941-52.
29. **Arlt, A.**, Harbeck, B., Anlauf, M., Alkatout, I., Kloppel, G., Fölsch, U. R., Bewig, B., Monig, H. (2008). Fatal pneumocystis jirovecii pneumonia in a case of ectopic Cushing's syndrome due to neuroendocrine carcinoma of the kidney. *Exp Clin Endocrinol Diabetes* **116**: 515-9.
30. Sebens Muerkoster, S., Rausch, A. V., Isberner, A., Minkenberg, J., Blaszczyk, E., Witt, M., Fölsch, U. R., Schmitz, F., Schäfer, H., **Arlt, A.** (2008). The apoptosis-inducing effect of gastrin on colorectal cancer cells relates to an increased IEX-1 expression mediating NF-kappa B inhibition. *Oncogene* **27**: 1122-34.
31. **Arlt, A.**, Bauer, I., Schafmayer, C., Tepel, J., Muerkoster, S. S., Brosch, M., Roder, C., Kalthoff, H., Hampe, J., Moyer, M. P., Fölsch, U. R., Schäfer, H. (2009). Increased proteasome subunit protein expression and proteasome activity in colon cancer relate to an enhanced activation of nuclear factor E2-related factor 2 (Nrf2). *Oncogene* **28**: 3983-96.
32. Geismann, C., Morscheck, M., Koch, D., Bergmann, F., Ungefroren, H., **Arlt, A.**, Tsao, M. S., Bachem, M. G., Altevogt, P., Sipos, B., Fölsch, U. R., Schäfer, H., Muerkoster, S. S. (2009). Up-regulation of L1CAM in pancreatic duct cells is transforming growth factor beta1- and slug-dependent: role in malignant transformation of pancreatic cancer. *Cancer Res* **69**: 4517-26.
33. Lipinski, S., Till, A., Sina, C., **Arlt, A.**, Grasberger, H., Schreiber, S., Rosenstiel, P. (2009). DUOX2-derived reactive oxygen species are effectors of NOD2-mediated antibacterial responses. *J Cell Sci* **122**: 3522-30.
34. Nebel, A., Flachsbart, F., Till, A., Caliebe, A., Blanche, H., **Arlt, A.**, Hasler, R., Jacobs, G., Kleindorp, R., Franke, A., Shen, B., Nikolaus, S., Krawczak, M., Rosenstiel, P., Schreiber, S. (2009). A functional EXO1 promoter variant is associated with prolonged life expectancy in centenarians. *Mech Ageing Dev.*

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35. Steubesand, N., Kiehne, K., Brunke, G., Pahl, R., Reiss, K., Herzig, K. H., Schubert, S., Schreiber, S., Fölsch, U. R., Rosenstiel, P., **Arlt, A.** (2009). The expression of the beta-defensins hBD-2 and hBD-3 is differentially regulated by NF-kappaB and MAPK/AP-1 pathways in an in vitro model of *Candida esophagitis*. *BMC Immunol* **10**: 36.
36. Wilms, H., Rosenstiel, P., Romero-Ramos, M., **Arlt, A.**, Schäfer, H., Seeger, D., Kahle, P. J., Odoj, S., Claasen, J. H., Holzknecht, C., Brandenburg, L. O., Deuschl, G., Schreiber, S., Kirik, D., Lucius, R. (2009). Suppression of MAP kinases inhibits microglial activation and attenuates neuronal cell death induced by alpha-synuclein protofibrils. *Int J Immunopathol Pharmacol* **22**: 897-909.
37. Buch, S., Schafmayer, C., Volzke, H., Seeger, M., Miquel, J. F., Sookoian, S. C., Egberts, J. H., **Arlt, A.**, Pirola, C. J., Lerch, M. M., John, U., Franke, A., von Kampen, O., Brosch, M., Nothnagel, M., Kratzer, W., Boehm, B. O., Broring, D. C., Schreiber, S., Krawczak, M., Hampe, J. (2010). Loci from a genome-wide analysis of bilirubin levels are associated with gallstone risk and composition. *Gastroenterology* **139**: 1942-1951 e2.
38. Kiefel, H., Bondong, S., Erbe-Hoffmann, N., Hazin, J., Riedle, S., Wolf, J., Pfeifer, M., **Arlt, A.**, Schafer, H., Muerkoster, S. S., Altevogt, P. (2010). L1CAM-integrin interaction induces constitutive NF-kappaB activation in pancreatic adenocarcinoma cells by enhancing IL-1beta expression. *Oncogene* **29**: 4766-78.
39. Schaefer, A. S., Richter, G. M., Nothnagel, M., Manke, T., Dommisch, H., Jacobs, G., **Arlt, A.**, Rosenstiel, P., Noack, B., Groessner-Schreiber, B., Jepsen, S., Loos, B. G., Schreiber, S. (2010). A genome-wide association study identifies GLT6D1 as a susceptibility locus for periodontitis. *Hum Mol Genet* **19**: 553-62.
40. Schuler, S., Fritsche, P., Diersch, S., **Arlt, A.**, Schmid, R. M., Saur, D., Schneider, G. (2010). HDAC2 attenuates TRAIL-induced apoptosis of pancreatic cancer cells. *Mol Cancer* **9**: 80.
41. Seeger, M., Gunther, R., Hinrichsen, H., Both, M., Helwig, U., **Arlt, A.**, Stelck, B., Brasen, J. H., Sipos, B., Schafmayer, C., Braun, F., Broring, D. C., Schreiber, S., Hampe, J.

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- (2010). Chronic portal vein thrombosis: transcapsular hepatic collateral vessels and communicating ectopic varices. *Radiology* **257**: 568-78.
42. Sina, C. \*, Arlt, A. \*, Gavrilova, O., Midtling, E., Kruse, M. L., Muerkoster, S. S., Kumar, R., Fölsch, U. R., Schreiber, S., Rosenstiel, P., Schäfer, H. (2010). Ablation of gly96/immediate early gene-X1 (gly96/iex-1) aggravates DSS-induced colitis in mice: role for gly96/iex-1 in the regulation of NF-kappaB. *Inflamm Bowel Dis* **16**: 320-31.
- \* shared first author
43. Billmann-Born, S., Till, A., Arlt, A., Lipinski, S., Sina, C., Latiano, A., Annese, V., Hasler, R., Kerick, M., Manke, T., Seegert, D., Hanidu, A., Schafer, H., van Heel, D., Li, J., Schreiber, S., Rosenstiel, P. (2011). Genome-wide expression profiling identifies an impairment of negative feedback signals in the Crohn's disease-associated NOD2 variant L1007fsinsC. *J Immunol* **186**: 4027-38.
44. Kurbitz, C., Heise, D., Redmer, T., Goumas, F., Arlt, A., Lemke, J., Rimbach, G., Kalthoff, H., Trauzold, A. (2011). Epicatechin gallate and catechin gallate are superior to epigallocatechin gallate in growth suppression and anti-inflammatory activities in pancreatic tumor cells. *Cancer Sci* **102**: 728-34.
45. Pahl, R., Brunke, G., Steubesand, N., Schubert, S., Bottner, M., Wedel, T., Jurgensen, C., Hampe, J., Schafer, H., Zeissig, S., Schreiber, S., Rosenstiel, P., Reiss, K., Arlt, A. (2011). IL-1{beta} and ADAM17 are central regulators of {beta}-defensin expression in *Candida* esophagitis. *Am J Physiol Gastrointest Liver Physiol* **300**: G547-53.
46. Schniewind, B., Schafmayer, C., Both, M., Arlt, A., Fritscher-Ravens, A., Hampe, J. (2011). Ingrowth and device disintegration in an intralobar abscess cavity during endosponge therapy for esophageal anastomotic leakage. *Endoscopy* **43 Suppl 2**: E64-5.
47. Geismann, C., Arlt, A., Bauer, I., Pfeifer, M., Schirmer, U., Altevogt, P., Muerkoster, S. S., Schafer, H. Binding of the transcription factor Slug to the L1CAM promoter is essential for transforming growth factor-beta1 (TGF-beta)-induced L1CAM expression in human pancreatic ductal adenocarcinoma cells. *Int J Oncol* **38**: 257-66.

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48. Stickel, F., Buch, S., Lau, K., Zu Schwabedissen, H. M., Berg, T., Ridinger, M., Rietschel, M., Schafmayer, C., Braun, F., Hinrichsen, H., Gunther, R., Arlt, A., Seeger, M., Muller, S., Seitz, H. K., Soyka, M., Lerch, M., Lammert, F., Sarrazin, C., Kubitz, R., Haussinger, D., Hellerbrand, C., Broring, D., Schreiber, S., Kiefer, F., Spanagel, R., Mann, K., Datz, C., Krawczak, M., Wodarz, N., Volzke, H., Hampe, J. (2011). Genetic variation in the PNPLA3 gene is associated with alcoholic liver injury in caucasians. *Hepatology* **53**: 86-95.
49. Erhart, W., Alkasi, O., Brunke, G., Wegener, F., Maass, N., Arnold, N., Arlt, A., Meinhold-Heerlein, I. (2011). Induction of human beta-defensins and psoriasin in vulvovaginal human papillomavirus-associated lesions. *J Infect Dis* **204**: 391-9.
50. Fritscher-Ravens, A., Cuming, T., Olagbaiye, F., Holland, C., Milla, P., Seehusen, F., Hadeler, K. G., Arlt, A., Mannur, K. (2011). Endoscopic transesophageal vs. thoracoscopic removal of mediastinal lymph nodes: a prospective randomized trial in a long term animal survival model. *Endoscopy* **43**: 1090-6.
51. Fritscher-Ravens, A., Ghanbari, A., Topalidis, T., Pelling, M., Kon, O. M., Patel, K., Arlt, A., Bhowmik, A. (2011). Granulomatous mediastinal adenopathy: can endoscopic ultrasound-guided fine-needle aspiration differentiate between tuberculosis and sarcoidosis? *Endoscopy* **43**: 955-61.
52. Kruse, M. L., Hopf-Jensen, S., Timke, C., Agricola, B., Sparmann, G., Schmid, A., Sipos, B., Arlt, A., Schafer, H. (2011). Differentiation potential of pancreatic fibroblastoid cells/stellate cells: effects of peroxisome proliferator-activated receptor gamma ligands. *Int J Cell Biol* **2011**: 816791.
53. Noth, R., Lange-Grumfeld, J., Stuber, E., Kruse, M. L., Ellrichmann, M., Hasler, R., Hampe, J., Bewig, B., Rosenstiel, P., Schreiber, S., Arlt, A. (2011). Increased intestinal permeability and tight junction disruption by altered expression and localization of occludin in a murine graft versus host disease model. *BMC Gastroenterol* **11**: 109.
54. Sebens, S., Bauer, I., Geismann, C., Grage-Griebenow, E., Ehlers, S., Kruse, M. L., Arlt, A., Schafer, H. (2011). Inflammatory macrophages induce Nrf2 transcription factor-

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- dependent proteasome activity in colonic NCM460 cells and thereby confer anti-apoptotic protection. *J Biol Chem* **286**: 40911-21.
55. Noth, R., Stuber, E., Hasler, R., Nikolaus, S., Kuhbacher, T., Hampe, J., Bewig, B., Schreiber, S., Arlt, A. (2012). Anti-TNF-alpha antibodies improve intestinal barrier function in Crohn's disease. *J Crohns Colitis* **6**: 464-9.
56. Ammerpohl, O., Pratschke, J., Schafmayer, C., Haake, A., Faber, W., von Kampen, O., Brosch, M., Sipos, B., von Schonfels, W., Balschun, K., Rocken, C., Arlt, A., Schniewind, B., Grauholm, J., Kalthoff, H., Neuhaus, P., Stickel, F., Schreiber, S., Becker, T., Siebert, R., Hampe, J. (2012). Distinct DNA methylation patterns in cirrhotic liver and hepatocellular carcinoma. *Int J Cancer* **130**: 1319-28.
57. Winterhoff, B. J., Arlt, A., Duttmann, A., Ungefroren, H., Schafer, H., Kalthoff, H., Kruse, M. L. (2012). Characterisation of FAP-1 expression and CD95 mediated apoptosis in the A818-6 pancreatic adenocarcinoma differentiation system. *Differentiation* **83**: 148-57.
58. Jürgensen, C., Arlt, A., Naser, F., Fritscher-Ravens, A., Stölzel, U., Hampe, J. Endoscopic ultrasound criteria to predict the need for intervention in pancreatic necrosis. *BMC Gastroenterol* **12**: 48.
59. Zeissig, S., Murata, K., Sweet, L., Publicover, J., Hu, Z., Kaser, A., Bosse, E., Iqbal, J., Hussain, M. M., Balschun, K., Rocken, C., Arlt, A., Gunther, R., Hampe, J., Schreiber, S., Baron, J. L., Moody, D. B., Liang, T. J., Blumberg, R. S. (2012). Hepatitis B virus-induced lipid alterations contribute to natural killer T cell-dependent protective immunity. *Nat Med* **18**: 1060-8.
60. Bottner, M., Zorenkov, D., Hellwig, I., Barrenschee, M., Harde, J., Fricke, T., Deuschl, G., Egberts, J. H., Becker, T., Fritscher-Ravens, A., Arlt, A., Wedel, T. (2012). Expression pattern and localization of alpha-synuclein in the human enteric nervous system. *Neurobiol Dis* **48**: 474-480.
61. Lipinski, S., Grabe, N., Jacobs, G., Billmann-Born, S., Till, A., Hasler, R., Aden, K., Paulsen, M., Arlt, A., Kraemer, L., Hagemann, N., Erdmann, K. S., Schreiber, S., Rosenstiel, P. (2012). RNAi screening identifies mediators of NOD2 signaling:

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- Implications for spatial specificity of MDP recognition. *Proc Natl Acad Sci U S A* **109**: 21426-31.
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