

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

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# 1 Curriculum vitae

## 1.1 Allgemeine Angaben

**Vor-/Zuname** : Prof. Dr. med. Alexander Arlt

**Geburtsname** : Arlt

**Geburtsdatum** : 14.08.1974

**Geburtsort** : Itzehoe

**Institution** : Klinik für Innere Medizin I

Universitätsklinikum Schleswig Holstein Campus Kiel

Schittenhelmstrasse 12; 24105 Kiel

0431/500-22210

**Position** : Leitender Oberarzt & Personaloberarzt

Leiter der Pankreasambulanz

Leiter Gastroenterologische Funktionsdiagnostik

Stellvertretende Leitung Endoskopie

Stellvertretende Leitung internistischen Intensivmedizin

wissenschaftlicher Arbeitsgruppenleiter

**Listenplätze** : Tertio Loco Professur (W2) für Innere Medizin mit dem Schwerpunkt

Gastroenterologische und Molekulare Onkologie, LMU München

Secundo Loco Professur (W2) für Molekulare Gastroenterologische

Onkologie, TU München

## 1.2 Ausbildung und beruflicher Werdegang

- 1980 – 1993 : **Schulzeit** in Oelixdorf und Itzehoe, Abschluss: Hochschulreife
- 1993 – 1994 : **Studium** der Diplomstudiengänge Mathematik und Chemie an der Universität Hamburg
- 1994 - 2001 : **Studium** der Humanmedizin 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**
- 26.09.2007 : **Facharzt für Innere Medizin**
- 07.01.2009 : **Schwerpunktsbezeichnung Gastroenterologie**
- 01.04.2009 : **Ernennung zum Oberarzt (entfristetes Arbeitsverhältnis seit 2011)**
- 01.05.2012 : **Personaloberarzt**
- 15.08.2012 : **Zusatzbezeichnung Intensivmedizin**
- 21.02.2013 : **Ernennung zum Ausserplanmäßigem Professor**
- 01.07.2013 : **Leitender Oberarzt**

## 1.3 Wissenschaftlicher Werdegang

- 01/97 – 02/2002 : **Promotion**  
Thema: „Funktionelle Charakterisierung des PRG1<sup>p22/EX-1</sup> als neues Zielgen des Transkriptionsfaktors NF- $\kappa$ B“ im Labor für Molekulare Gastroenterologie (Leiter Prof. Dr. H. Schäfer) der Klinik für Allgemeine Innere Medizin (Leiter Prof. Dr. U.R. Fölsch) des UKSH – Campus Kiel.  
Abschluß: Dr. med. Note: summa cum laude
- Seit 06/01 : **wissenschaftlicher Angestellter und Assistenzarzt**, Klinik für Allgemeine Innere Medizin UKSH – Campus Kiel.  
Forschungsschwerpunkt: Chemoresistenz beim Pankreaskarzinom
- 10/04 – 03/04 : **Gerok-Stelle des SFB 415**
- 29.10.2007 : **Habilitation im Fach Innere Medizin**
- 29.10.2007 : **Lehrbefugnis für das Fach Innere Medizin**
- 21.02.2013 : **Ernennung zum Ausserplanmäßigem Professor**

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## 1.4 Preise und Auszeichnungen

- 2000 : Young Investigator Award der American Association for Cancer Res.
- 2000 : Posterpreis des European Pancreatic Club
- 2000 und 2001 : Stipendium der Helmut Robert Gedächtnisstiftung
- 2001 : Dissertationspreis der Norddeutschen Gesellschaft für Gastroenterologie
- 2001 : Vincenz-Czerny-Preis für Onkologie der Deutschen Gesellschaft für Hämatologie und Onkologie
- 2001 : Wissenschaftspreis der Hensel-Stiftung
- 2001 : Walther und Christiane Richtzenhain-Preis des DKFZ
- 2001 : Fakultätspreis der Medizinischen Fakultät der CAU Kiel für die beste Promotionsarbeit
- 2002 : Ludolph-Brauer-Preis der Nordwestdeutschen Gesellschaft für Innere Medizin
- 2002 : Graduierten Stipendium der Novartis Stiftung für therapeutische Forschung
- 2002 : Young Investigator Award der Deutsch. Gesellschaft für Innere Medizin
- 2004 : Stipendium aus der Ernst-Jung-Medaille für Medizin in Gold
- 2008 : Harald Goebell-Stipendium der DGVS
- 2010 : Rising Star award der ASNEMGE

## 1.5 Klinische Schwerpunkte

### 1.5.1 Diagnostische und interventionelle Endoskopie

- Endosonographie des oberen Gastrointestinaltraktes (DEGUM Stufe II Ausbilder)
- ERCP
- Endoskopisch geführte Therapie von Pankreasnekrosen und Pseudozysten
- Lumenapposing metal stents (Drainagen und Stomien)
- Stentversorgung maligner Stenosen des Ösophagus und des Duodenums
- Endoskopische Mukosa Resektion und Endoskopische Submukosa Dissektion
- Kapselendoskopie
- Kapsel-pH-Metrie
- Ösophago-gastroduodenoskopie, Koloskopie und Bronchoskopie

#### Endoskopischer Leistungskatalog seit 2003

(Stand 01.12.2017, nur Untersuchungen als eigenverantwortlicher Erstuntersucher)

Leistung	Anzahl
Gastroskopie (incl. PEG-/PEJ-Anlage und Stentimplantationen)	7454
Koloskopie (ohne Rektoskopie oder Sigmoidoskopien)	2654
Endoskopischer Ultraschall (ohne rektalen EUS)	2127
ERCP	1704
Bronchoskopien	1972

### 1.5.2 Gastrointestinale Funktionsdiagnostik

- pH-Metrie und Manometrie
- Kapselendoskopie
- Atemtestlabor

### 1.5.3 Internistische Intensivmedizin

## 2 Schriftenverzeichnis

### 2.1 Publication metrics

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

### 2.2 Originalarbeiten

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.
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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 psoriasis 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.
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