

## AG Pufe

### Publikationen (Originalarbeiten/ reviews)

#### 1998

1. Kadyrov M, Kosanke G, Kingdom J, Kaufmann P (1998) Increased fetoplacental angiogenesis during first trimester in anaemic women. *Lancet* **352**:1747-9

(Impact-factor: 53,254)

2. Kosanke G, Kadyrov M, Korr H, Kaufmann P (1998) Maternal anemia results in increased proliferation in human placental villi. *Placenta* **11**:339-57

(Impact-factor: 2,434)

#### 1999

3. Schmitz C, Materne S, Korr H (1999). Cell-Type-Specific Differences in Age-Related Changes of DNA Repair in the Mouse Brain – Molecular Basis for a New Approach to Understand the Selective Neuronal Vulnerability in Alzheimer's Disease. *J Alzheimers Dis* **1**:387-407

(Impact-factor: 1,940)

#### 2001

4. Held-Feindt J, Forstreuter F, Pufe T, Mentlein R (2001) Influence of the somatostatin receptor sst2 on growth factor signal cascades in human glioma cells. *Brain Res Mol Brain Res* **87**:12-21

(Impact-factor: 3,125)

5. Pufe T, Petersen W, Tillmann B, Mentlein R (2001) The splice variants VEGF121 and VEGF189 of the angiogenic peptide vascular endothelial growth factor are expressed in osteoarthritic cartilage. *Arthritis Rheum* **44**:1082-8

(Impact-factor: 7,873)

6. Pufe T, Petersen W, Tillmann B, Mentlein R (2001) The splice variants VEGF121 and VEGF165 of the angiogenic peptide Vascular endothelial cell growth factor are expressed in the synovia of patients with rheumatoid arthritis. *J Rheumatol* **28**:1482-5

(Impact-factor: 3,470)

7. Paulsen F, Pufe T, Petersen W, Tillmann B (2001) Expression of natural peptide antibiotics in human articular cartilage and synovial membrane. *Clin Diagn Lab Immunol* **8**:1021-3

(Impact-factor: 2,872)

8. Paulsen FP, Pufe T, Schaudig U, Held-Feindt J, Lehmann J, Schröder JM, Tillmann B (2001) Detection of natural peptide antibiotics in human nasolacrimal ducts. *Invest Ophthalmol Vis Sci* **42**:2157-63

(Impact-factor: 3,388)

9. Pufe T, Petersen W, Tillmann B, Mentlein R (2001) The angiogenic peptide vascular endothelial cell growth factor (VEGF) is expressed in fetal and ruptured tendons. *Virchows Archive* **439**:579-585

(Impact-factor: 2,936)

10. Harms G, Zenk J, Martin S, Kokozidou M, Puschel W, Bienzle U, Seitz HM (2001). Localised lymphadenopathy due to leishmanial infection. *Infection* **29**: 355-356

(Impact-factor: 2,773)

11. Kadyrov M, Kaufmann P, Huppertz B (2001) Expression of a cytokeratin 18 neo-epitope is a specific marker for trophoblast apoptosis in human placenta. *Placenta* **22**:44-8

(Impact-factor: 2,434)

## **2002**

12. Rutten BP, Steinbusch HW, Korr H, Schmitz C (2002). Antioxidants and Alzheimer's disease: from bench to bedside (and back again). *Curr Opin Clin Nutr Metab Care* **5**:645-51 Review

(Impact-factor: 4,534)

13.Schmitz C, Grolms N, Hof PR, Boehringer R, Glaser J, Korr H (2002). Altered spatial arrangement of layer V pyramidal cells in the mouse brain following prenatal low-dose X-irradiation. A stereological study using a novel three-deminsinal analyses method to estimate ne nearest neighbor distance distributions of cells in thick sections. *Cereb Cortex* **12**:954-60

(Impact-factor: 6,308)

14.Petersen W, Pufe T, Kurz B, Mentlein R, Tillmann B (2002) Angiogenesis in fetal tendon development: Spatial and temporal expression of the angiogenic peptide vascular endothelial growth factor (VEGF). *Anat & Embryol* **205**:263-70

(Impact-factor: 4,231)

15.Pufe T, Wildemann B, Petersen W, Mentlein R, Raschke M, Schmidmaier G (2002) Quantitative measurement of the splice variants 120 and 164 of the angiogenic peptide vascular endothelial growth factor (VEGF) in the time flow of fracture healing: a study in rat. *Cell Tissue Res* **309**:387-92

(Impact-factor: 3,043)

16.Petersen W, Tsokos M, Pufe T (2002) Expression of the VEGF splice variants 121 and 165 in hypertrophic chondrocytes of the human growth plate and epiphyseal cartilage. *J Anat* **201**:153-157

(Impact-factor: 2,479)

17.Paulsen F, Pufe T, Conradi L, Tsokos M, Papendiek J, Petersen W (2002) Antimicrobial peptides are expressed and produced in human healthy and inflamed synovial membrane. *J Pathol* **198**:369-77

(Impact-factor: 6,253)

18.Paulsen FP, Pufe T, Schaudig U, Held-Feindt J, Lehmann J, Thale AB, Tillmann BN (2002) Protection of human efferent tear ducts by antimicrobial peptides. *Adv Exp Med Biol* **506**:547-53

(Impact-factor: 1,760)

19.Becker R, Pufe T, Giessmann N, Kulow S, Mentlein R, Petersen W (2002) Die Rolle des Angiogenesefaktors VEGF (vascular endothelial growth factor) bei der Heilung von Meniskusläsionen. *Arthroskopie* **15**: 190-195

(Impact-factor: 0,2)

20.Kemp B, Kertschanska S, Kadyrov M, Rath W, Kaufmann P, Huppertz B (2002) Invasive depth of extravillous trophoblast correlates with cellular phenotype – a comparison of intra- and extrauterine implantation sites. *Histochem Cell Biol* **117**:401-14

(Impact-factor: 2,164)

21.Zybina TG, Kaufmann P, Frank HG, Freed J, Kadyrov M, Biesterfeld S (2002) Genome multiplication of extravillous trophoblast cells in human placenta in the course of differentiation and invasion into endometrium and myometrium. I. Dynamics of polyploidization. *Tsitologija* **44**:1058-67

(Impact-factor: 0,2)

### **2003**

22.Rutten BP, Wirths O, Van den Berg WD, Lichtenthaler SF, Vehoff J, Steinbusch HW, Korr H, Beyreuther K, Multhaup G, Bayer TA, Schmitz C (2003). No alterations of hippocampal neuronal number and synaptic bouton number in a transgenic mouse model expressing the beta-cleaved C-terminal APP fragment. *Neurobiol Dis* **12**:110-20

(Impact-factor: 5,227)

23.Rutten BP, Korr H, Steinbusch HW, Schmitz C (2003). The aging brain: less neurons could be better. *Mech Ageing Dev* **124**:349-55. Review.

(Impact-factor: 3,748)

24.Pufe T, Bartscher M, Petersen W, Tillmann B, Mentlein R (2003) Pleiotrophin, an embryonic growth and differentiation factor, is expressed in rheumatoid arthritis. *Arthritis Rheum* **48**:660-7

(Impact-factor: 7,873)

25.Tsokos M, Pufe T, Anders S, Paulsen F, Mentlein R (2003) Pulmonary expression of vascular endothelial growth factor in sepsis. *Arch Pathol Lab Med* **127**:331-5

(Impact-factor: 3,658)

26.Pufe T, Bartscher M, Petersen W, Tillmann B, Mentlein R (2003) Pleiotrophin, an embryonic differentiation and growth factor, is expressed in osteoarthritis. *Osteoarthritis & Cartilage* **11**:260-264

(Impact-factor: 5,454)

27. Pufe T, Paulsen F, Petersen W, Mentlein R, Tsokos M (2003) The angiogenic peptide vascular endothelial growth factor (VEGF) is expressed in chronic sacral pressure ulcers. *J Pathol* **200**:130-136

(Impact-factor: 6,253)

28. Petersen W; Unterhauser F; Pufe T; Zantop T, Südkamp NP, Weiler A (2003) The angiogenic peptide vascular endothelial growth factor (VEGF) is expressed during the remodeling of free tendon grafts in sheep. *Arch Orthop Trauma Surg* **123**:168-74

(Impact-factor: 1,967)

29. Petersen W, Pufe T, Zantop T, Tillmann B, Mentlein R (2003) Hypoxia and PDGF have a synergistic effect that increases the expression of the angiogenetic peptide vascular endothelial growth factor in Achilles tendon fibroblasts. *Arch Orthop Trauma Surg* **123**:485-8

(Impact-factor: 1,310)

30. Pufe T, Petersen W, Kurz B, Tsokos M, Tillmann B, Mentlein R (2003) Mechanical factors influence the expression of endostatin – an inhibitor of angiogenesis – in human tendons *J Orthop Res* **21**:610-616

(Impact-factor: 3,414)

31. Fehrenbach A, Pufe T, Wittwer T, Nagib R, Dreyer N, Pech T, Petersen W, Fehrenbach H, Wahlers T, Richter J (2003) Reduced vascular endothelial growth factor correlates with alveolar epithelial damage after experimental ischemia and reperfusion. *J Heart Lung Transplant* **22**:967-78

(Impact-factor: 7,955)

32. Petersen W, Pufe T, Unterhauser F, Zantop T, Mentlein R, Weiler A (2003) The splice variants 120 and 164 of the angiogenic peptide vascular endothelial growth factor (VEGF) are expressed during Achilles tendon healing. *Arch Orthop Trauma Surg* **123**:475-80

(Impact-factor: 1,967)

33. Petersen W, Pufe T, Zantop T, Paulsen F (2003) Blood supply of the flexor hallucis longus tendon with regard to dancer's tendinitis: injection and immunohistochemical studies of cadaver tendons. *Foot Ankle Int* **24**:591-6

(Impact-factor: 1,458)

34. Pufe T, Scholz-Ahrens KE, Franke ATM, Petersen W, Mentlein R, Varoga D, Tillmann B, Schrezenmeir J, Glüer CC (2003) The role of VEGF (vascular endothelial growth factor) in glucocorticoid induced bone loss: evaluation in a minipig model. *Bone* **33**:869-876

(Impact-factor: 4,455)

35. Kadyrov M, Schmitz C, Black S, Kaufmann P, Huppertz B (2003) Preeclampsia and maternal anemia display reduced apoptosis and opposite invasive phenotypes of extravillous trophoblast. *Placenta* **24**:540-8

(Impact-factor: 2,434)

36. Koch T, Brandenburg LO, Schulz S, Liang Y, Klein J, Höllt V (2003) ADP-ribosylation factor-dependent phospholipase D2 activation is required for agonist-induced mu-opioid receptor endocytosis. *J Biol Chem* **278**:9979-9985

(Impact-factor: 4,011)

## **2004**

37. Schmitz C, Rutten BP, Pielen A, Schäfer S, Wirths O, Tremp G, Czech C, Blanchard V, Multhaup G, Rezaie P, Korr H, Steinbusch HW, Pradier L, Bayer TA (2004). Hippocampal neuron loss exceeds amyloid plaque load in a transgenic mouse model of Alzheimer's disease. *Am J Pathol* **164**:1495-205

(Impact-factor: 4,069)

38. Petersen W, Pufe T, Zantop T, Tillmann B, Tsokos M, Mentlein R (2004) Expression of VEGFR-1 and -2 in degenerative Achilles tendons. *Clin Orthop Relat R* **1**:286-291

(Impact-factor: 4,091)

39. Pufe T, Lemke A, Kurz B, Petersen W, Tillmann B, Grodzinsky AJ, Mentlein R (2004) Mechanical overload induces VEGF in cartilage explants via hypoxia-inducible factor (HIF). *Am J Pathol* **164**:185-92

(Impact-factor: 4,069)

40. Pufe T, Harde V, Petersen W, Goldring MB, Tillmann B, Mentlein R (2004) VEGF induces matrix metalloprotease expression in chondrocytes. *J Pathol* **202**:367-374

(Impact-factor: 6,253)

41. Becker R, Pufe T, Kulow S, Giessmann N, Neumann W, Mentlein R, Petersen W (2004) Expression of vascular endothelial growth factor during meniscus healing in a rabbit model. *JBJS Br* **86**:1082-1087

(Impact-factor: 3,581)

42. Pufe T, Mentlein R, Tsokos M, Steven P, Varoga D, Goldring MB, Tillmann BN, Paulsen FP (2004) VEGF expression in adult permanent thyroid cartilage: implications for lack of cartilage ossification. *Bone* **35**:543-552

(Impact-factor: 4,455)

43. Pufe T, Petersen W, Goldring MB, Mentlein R, Varoga D, Tsokos M, Tillmann B (2004) Endostatin –an inhibitor of angiogenesis- is expressed in human cartilage and fibrocartilage. *Matrix Biol* **23**:267-276

(Impact-factor: 8,136)

44. Petersen W, Hohmann G, Pufe T, Tsokos M, Zantop T, Paulsen F, Tillmann B (2004) Structure of the human tibialis posterior tendon. *Arch Orthop Trauma Surg* **124**:237-42

(Impact-factor: 1,967)

45. Petersen W, Wildemann B, Pufe T, Raschke M, Schidmaier G (2004) The angiogenic peptide pleiotrophin (PTN/HB-GAM) is expressed in fracture healing: an immunohistochemical study in rats. *Arch Orthop Trauma Surg* **124**:603-7

(Impact-factor: 1,967)

46. Petersen W, Varoga D, Zantop T, Hassenpflug J, Mentlein R, Pufe T (2004) Cyclic strain influences the expression of the vascular endothelial growth factor (VEGF) and the hypoxia inducible factor 1 alpha (HIF-1 $\alpha$ ) in tendon fibroblasts. *J Orthop Res* **22**:847-53

(Impact-factor: 3,414)

47. Varoga D, Pufe T, Harder J, Meyer-Hoffert U, Mentlein R, Schroder JM, Petersen W, Tillmann B, Proksch E, Goldring M, Paulsen F (2004) Production of endogenous antibiotics in articular cartilage. *Arthritis Rheum* **50**:3526-3534

(Impact-factor: 7,873)

48.Pötgens AJG, Drewlo S, Kokozidou M, Kaufmann P (2004) Syncytin: the major regulator of trophoblast fusion? Recent developments and hypotheses on its action. *Human Reproduction Update* **10**: 487-496

(Impact-factor: 11,852)

49.Black S, Kadyrov M, Kaufmann P, Ugele B, Emans N, Huppertz B (2004) Syncytial fusion of human trophoblast depends on caspase 8. *Cell Death Differ* **11**:90-8

(Impact-factor: 8,000)

50.Bose P, Black S, Kadyrov M, Bartz C, Shlebak A, Regan L, Huppertz B (2004) Adverse effects of Lupus anticoagulant positive blood sera on placental viability can be prevented by heparin in vitro. *Am J Obstet Gynecol* **191**:2125-31

(Impact-factor: 5,732)

51.Koch T, Brandenburg, LO, Liang Y, Schulz S, Beyer A, Schröder H, Höllt V (2004) Phospholipase D2 modulates agonist-induced  $\mu$ -opioid receptor desensitization and resensitization. *J Neurochem* **88**:680-688

(Impact-factor: 4,609)

## **2005**

52.Casanova MF, de Zeeuw L, Switala A, Kreczmanski P, Korr H, Ulfing N, Heinsen H, Steinbusch HW, Schmitz C (2005). Mean cell spacing abnormalities in the neocortex of patients with schizophrenia. *Psychiatry Res* **133**:1-12

(Impact-factor: 2,223)

53.Varoga D, Pufe T, Harder J, Schröder J-M, Mentlein R, Meyer-Hoffert U, Goldring MB, Tillmann B, Paulsen F (2005) Human  $\beta$ -defensin-3 mediates tissue remodelling processes in articular cartilage by increasing metalloproteinases and reducing their endogenous inhibitors. *Arthritis Rheum* **52**: 1736-45

(Impact-factor: 7,873)



54. Wruck C, Funke-Kaiser H, Pufe T, Kusserow H, Menk M, Kruse ML, Stoll M, Unger T (2005) Regulation of transport of the Angiotensin II type 2 receptor by a novel membrane-associated Golgi protein. *Arterioscler Thromb Vasc Biol* **25**:57-64

(Impact-factor: 6,086)

55. Hübner RH, Meffert S, Mundt U, Böttcher H, Freitag S, El'Mokhtari NE, Pufe T, Hirt S, Fölsch UR, Bewig B (2005) Matrix metalloproteinase-9 in bronchiolitis obliterans syndrome after lung transplantation. *Eur Respir J* **25**: 494-501

(Impact-factor: 12,244)

56. Mentlein R, Pufe T (2005) New functions of angiogenic peptides in osteoarthritic cartilage. *Current Rheumatology Reviews* **1**:37-43

(Impact-factor: 0,2)

57. Gebhardt M, Mentlein R, Schaudig U, Pufe T, Recker K, Nölle B, Al-Samir K, Geerling G, Paulsen FP (2005) Differential expression of VEGF corroborates the limbal origin of pterygia. *Ophthalmology* **112**:1023-1030

(Impact-factor: 7,749)

58. Pufe T, Petersen W, Mentlein R, Tillmann B (2005) The role of vasculature and angiogenesis for the pathogenesis of degenerative tendons disease. *Scan J Med & Sci Sports* **15**:211-222

(Impact-factor: 3,623)

59. Petersen W, Pufe T, Pfrommer S, Tillmann B (2005) Overload damage to the Achilles tendon: the importance of vascular care and angiogenesis. *Orthopade* **34**:533-542

(Impact-factor: 0,632)

60. Varoga D, Pufe T, Mentlein R, Kohrs S, Grohmann S, Tillmann B, Hassenpflug J, Paulsen F (2005) Expression and regulation of antimicrobial peptides in articular joints. *Ann Anat* **187**:499-508

(Impact-factor: 1,852)

61. Pufe T, Kurz B, Petersen W, Varoga D, Mentlein R, Kulow S, Lemke A, Tillmann B (2005). The influence of biomechanical parameters on the expression of VEGF and endostatin in the bone and joint system. *Ann Anat* **187**:461-472

(Impact-factor: 1,852)

62. Petersen W, Pufe T, Stärke C, Fuchs T, Kopf S, Raschke M, Becker R, Tillmann B (2005) Locally applied angiogenic factors – a new therapeutic tool for meniscal repair. *Ann Anat* **187**: 509-519

(Impact-factor: 1,852)

63. Kurz B, Lemke A, Fay J, Pufe T, Grodzinsky AJ, Schünke M (2005) Pathomechanism of cartilage destruction by mechanical injury. *Ann Anat* **187**:473-485

(Impact-factor: 1,852)

64. Bose P, Black S, Kadyrov M, Weissenborn U, Neulen J, Regan L, Huppertz B (2005) Heparin and aspirin attenuate placental apoptosis in vitro - implications for early pregnancy failure. *Am J Obstet Gynecol* **192**:23-30

(Impact-factor: 4,982)

65. Mieke U, Neumaier-Wagner P, Kadyrov M, Goyal P, Alfer J, Rath W, Huppertz B (2005) Concerted upregulation of CLP36 and smooth muscle actin protein expression in human endometrium during decidualization. *Cells Tissues Organs* **179**:109-14

(Impact-factor: 1,275)

66. Koch T, Widera A, Bartzsch K, Schulz S, Brandenburg LO, Wundrack N, Beyer A, Grecksch G, Höllt V (2005) Receptor endocytosis counteracts the development of opioid tolerance. *Mol. Pharmacol* **67**:280-287

(Impact-factor: 3,978)

## **2006**

67. Nguyen HP, Kobbe P, Rahne H, Wörpel T, Jäger B, Stephan M, Pabst R, Holzmann C, Riess O, Korr H, Kántor O, Petrasch-Parwez E, Wetzel R, Osmand A, von Hörsten S (2006). Behavioral abnormalities precede neuropathological markers in rats transgenic for Huntington's disease. *Hum Mol Genet* **15**:3177-94

(Impact-factor:4,902)

68. Kántor O, Temel Y, Holzmann C, Raber K, Nguyen HP, Cao C, Türkoglu HO, Rutten BP, Visser-Vandewalle V, Steinbusch HW, Blokland A, Korr H, Riess O, von Hörsten S, Schmitz C (2006). Selective striatal neuron loss and alterations in behavior correlate with impaired striatal function in Huntington's disease transgenic rats. *Neurobiol Dis* **22**:538-47

(Impact-factor: 5,227)

69. Varoga D, Paulsen F, Kohrs S, Grohmann S, Lippross S, Tillmann BN, Besch L, Hassenpflug J, Goldring MB, Pufe T (2006) Expression and regulation of human beta-defensin-2 in osteoarthritic cartilage. *J Pathol* **209**:166-173

(Impact-factor: 6,253)

70. Varoga D, Paulsen F, Mentlein R, Fay J, Kurz B, Schütz R, Wruck C, Goldring MB, Pufe T. (2006) TLR-2 mediated induction of Vascular Endothelial Growth Factor (VEGF) in case of septic joint disease. *J Pathol* **210**:315-324

(Impact-factor: 6,253)

71. Drescher W, Varoga D, Lohse J, Liebs TR, Herdegen T, Hassenpflug J, Pufe T (2006) Femoral artery constriction enhanced by methylprednisolone. *J Bone Joint Surg (Am)* **88**:162-166

(Impact-factor: 4,583)

72. Fay J, Varoga D, Wruck C, Kurz B, Goldring MB, Pufe T (2006) Reactive-oxygen-species (ROS) induce expression of vascular endothelial growth factor (VEGF) in chondrocytes and human articular cartilage explants. *Arthritis Research and Therapy* **8**:R189

(Impact-factor: 4,269)

73.Huppertz B, Bartz C, Kokozidou M (2006) Trophoblast fusion: Fusogenic proteins, syncitins and ADAMs, and other prerequisites for syncytial fusion. *Micron* **37**: 509-517

(Impact-factor: 1,728)

74.Kadyrov M, Kingdom JC, Huppertz B (2006) Divergent trophoblast invasion and apoptosis in placental bed spiral arteries from pregnancies complicated by maternal anemia and early-onset preeclampsia/intrauterine growth restriction. *Am J Obstet Gynecol* **194**:557-63

(Impact-factor: 5,732)

75.Bose P, Kadyrov M, Goldin R, Hahn S, Backos M, Regan L, Huppertz B (2006) Aberrations of Early Trophoblast Differentiation Predispose to Pregnancy Failure: Lessons from the Anti-phospholipid Syndrome. *Placenta* **27**:869-75

(Impact-factor: 2,434)

76.Huppertz B, Kadyrov M, Kingdom JC (2006) Apoptosis and its role in the trophoblast. *Am J Obstet Gynecol* **195**:29-39

(Impact-factor: 4,982)

77.Miehe U, Kadyrov M, Neumaier-Wagner P, Bartz C, Rath W, Huppertz B (2006) Expression of the actin stress fiber-associated protein CLP36 in the human placenta. *Histochem Cell Biol*, **126**:465-71

(Impact-factor: 2,164)

78.Koch T, Wu DF, Yang L, Brandenburg LO, Höllt V (2006) Role of Phospholipase D2 in the agonist-induced and constitutive endocytosis of G-protein coupled receptor. *J Neurochem* **97**:365-372

(Impact-factor: 4,609)

## **2007**

79.Rutten BP, Schmitz C, Gerlach OH, Oyen HM, de Mesquita EB, Steinbusch HW, Korr H (2007). The aging brain: accumulation of DNA damage or neuron loss? *Neurobiol Aging* **28**:91-8

(Impact-factor: 4,454)

80. Petersen W, Pufe T, Stärke C, Fuchs T, Kopf S, Neumann W, Zantop T, Paletta J, Raschke M, Becker R (2007) The Effect of Locally Applied Vascular Endothelial Growth Factor on Meniscus Healing: Gross and Histological Findings. *Arch Orthop Trauma Surg* **127**:235-240

(Impact-factor: 1,967)

81. Pufe T, Groth G, Goldring MB, Tillmann B, Mentlein R (2007) Effects of pleiotrophin, a heparin-binding growth factor, on chondrocytes. *Osteoarthritis & Cartilage* **15**:155-162

(Impact-factor: 5,454)

82. Pufe T, Claassen H, Scholz-Ahrens K, Varoga D, Drescher W, Franke ATM, Wruck CJ, Petersen W, Cellarius C, Schrezenmeir J, Glüer CC (2007) Influence of Estradiol on VEGF expression in bone: a study in Göttingen miniature pigs and human osteoblasts. *Calcified Tissue Int* **80**:184-191

(Impact-factor: 3,293)

83. Wruck CJ, Claussen M, Fuhrmann G, Römer L, Schulz A, Pufe T, Wätzig V, Peipp M, Herdegen T, Götz ME (2007) Luteolin protects rat PC12 and C6 cells against MPP<sup>+</sup> induced toxicity via an ERK dependent Keap1-Nrf2-ARE pathway. *J Neural Transmission* **72**:57-67

(Impact-factor: 2,871)

84. Haenisch S, Zimmermann U, Dazert E, Wruck CJ, Dazert P, Siegmund W, Kroemer HK, Warzok RW, Cascorbi I. (2007) Influence of polymorphisms of ABCB1 and ABCC2 on mRNA and protein expression in normal and cancerous kidney cortex. *Pharmacogenomics J* **7**:56-65

(Impact-factor: 3,812)

85. Morrish DW, Kudo Y, Caniggia I, Cross J, Evain-Brion D, Gasparowicz M, Kokozidou M, Leisser C, Takahashi K, Yoshimatsu J (2007) Growth factors and trophoblast differentiation – workshop report. *Placenta* **28**:121-124

(Impact-factor: 2,434)

86. Mess A, Zaki N, Kadyrov M, Korr H, Kaufmann P (2007) Caviomorph placentation as a model for trophoblast invasion *Placenta* **28**:1234-1238

(Impact-factor: 2,434)

87.Kadyrov M, Garnier Y, Kaufmann P, Huppertz B (2007) Cytokeratin antibodies as differential markers of trophoblast and uterine epithelium in the sheep placenta *Placenta* **28**:1107-1109

(Impact-factor: 2,434)

88.Brandenburg LO, Koch T, Sievers J, Lucius R (2007) Internalization of PrP106-126 by the Formyl-Peptide-Receptor-like-1 (FPRL1) in Glial Cells. *J Neurochem* **101**:718-728

(Impact-factor: 4,609)

89.Hayward M D, Pötgens A J G, Drewlo S, Kaufmann P, Raski J E J (2007) Distribution of human endogenous retrovirus type W receptor in normal human villous placenta. *Pathology* **39**:406-412

(Impact-factor: 3,068)

90.Mess A, Zaki N, Korr H, Kaufmann P (2007) Caviomorph placentation as a model for trophoblast invasion *Placenta* **28**:1234-1238

(Impact-factor: 2,434)

91.Demir-Weusten A Y, Seval Y, Kaufmann P, Demir R, Yucel G, Huppertz B (2007) Matrix metalloproteinases-2, -3 and -9 in human term placenta *Acta Histochem* **109**:403-412

(Impact-factor: 1,652)

92.Sennvik K, Boekhoorn K, Lasrado R, Terwel D, Verhaeghe S, Korr H, Schmitz C, Tomiyama T, Mori H, Krugers H, Joels M, Ramakers G J, Lucassen P J, Van Leuven F (2007) Tau-4R suppresses proliferation and promotes neuronal differentiation in the hippocampus of tau knockin/knockout mice *FASEB J* **21**:2149-2161

(Impact-factor: 5,595)

93.Kántor O, Schmitz C, Feiser J, Brasnjevic I, Korr H, Busto R, Ginsberg M D, Schmidt-Kastner R (2007) Moderate loss of cerebellar Purkinje cells after chronic bilateral common carotid artery occlusion in rats *Acta Neuropathol* **113**:549-58

(Impact-factor: 15,876)

94. Kreczmanski P, Heinsen H, Mantua V, Woltersdorf F, Masson T, Ulfing N, Schmidt-Kastner R, Korr H, Steinbusch H, Hof PR, Schmitz C (2007) Volume, neuron density and total neuron number in five subcortical regions in schizophrenia. *Brain* **130**:678-92

(Impact-factor: 10,848)

## **2008**

95. Pufe T, Petersen W, Fändrich F, Varoga D, Wruck CJ, Mentlein R, Helfenstein A, Dressel S, Hoseas D, Tillmann B, Ruhnke M (2008) Programmable cells of monocytic origin (PCMO): A source of peripheral blood stem cells that generate collagen type II-producing chondrocytes. *J Orthop Res* **26**:304-13

(Impact-factor: 3,414)

96. Garnier Y, Kadyrov M, Gantert M, Einig A, Rath W, Huppertz B (2008) Proliferative responses in the placenta after endotoxin exposure in preterm fetal sheep. *Eur J Obstet Gynecol Reprod Biol* **138**:152-157

(Impact-factor: 1,809)

97. Wu DF, Yang LQ, Goschke A, Stumm R, Brandenburg LO, Liang YJ, Höllt V, Koch T (2008) Role of receptor internalization in the agonist-induced desensitization of cannabinoid type 1 receptors. *J Neurochem* **104**:1132-43

(Impact-factor: 4,609)

98. Wruck CJ, Götz ME, Herdegen T, Varoga D, Brandenburg LO, Pufe T (2008) Kavalactones protect neural cells against amyloid beta peptide-induced neurotoxicity via ERK1/2-dependent Nrf2-activation. *Mol Pharm* **73**:1785-1795

(Impact-factor: 3,987)

99. Zecca L, Wilms H, Geick S, Claasen JH, Brandenburg LO, Holzknacht C, Panizza ML, Zucca FA, Deuschl G, Sievers J, Lucius R (2008) Human neuromelanin induces neuroinflammation and neurodegeneration in the rat substantia nigra: implications for Parkinson's disease. *Acta Neuropathol* **116**:47-55

(Impact-factor: 15,876)

100. Brandenburg LO, Konrad M, Wruck CJ, Koch T, Pufe T and Lucius R (2008) Involvement of Formyl-Peptide-Receptor-Like-1 (FPRL1) and Phospholipase D (PLD) in the Internalization and Signal Transduction of Amyloid beta 1-42 (A $\beta$ 1-42) in Glial Cells. *Neuroscience* **156**:266-276

(Impact-factor: 3,382)

101. Brandenburg LO, Varoga D, Nicolaeva N, Leib SL, Wilms H, Podschun R, Wruck CJ, Schröder JM, Pufe T and Lucius R (2008) Role of glial cells in the functional expression of LL-37/rCRAMP in meningitis. *Journal of Neuropathology and Experimental Neurology* **67**:1041-54

(Impact-factor: 3,490)

102. Varoga D, Tohidnezhad M, Paulsen F, Wruck CJ, Brandenburg L, Mentlein R, Lippross S, Hassenpflug J, Besch L, Müller M, Jürgens R, Seekamp A, Schmitt L, Pufe T (2008) The role of human-beta-Defensin-2 (HBD-2) in bone. *J Anat* **213**:749-757

(Impact-factor: 2,479)

103. Hausdorf J, Lemmens MA, Heck KD, Grolms N, Korr H, Kertschanska S, Steinbusch HW, Schmitz C, Maier M (2008) Selective loss of unmyelinated nerve fibers after extracorporeal shockwave application to the musculoskeletal system. *Neuroscience* **155**:138-144

(Impact-factor: 3,382)

104. Hausdorf J, Lemmens MA, Kaplan S, Marangoz C, Milz S, Odaci E, Korr H, Schmitz C, Maier M (2008) Extracorporeal shockwave application to the distal femur of rabbits diminishes the number of neurons immunoreactive for substance P in dorsal root ganglia L5. *Brain Res* **1207**:96-101

(Impact-factor: 3,125)

105. van Kooten IA, Palmén SJ, von Cappeln P, Steinbusch HW, Korr H, Heinsen H, Hof PR, van Engeland H, Schmitz C (2008) Neurons in the fusiform gyrus are fewer and smaller in autism. *Brain* **131**:987-999

(Impact-factor: 10,848)



## **2009**

106. Varoga D, Wruck CJ, Tohidnezhad M, Brandenburg L, Paulsen FP, Mentlein R, Seekamp A, Besch L, Pufe T (2009) Osteoblasts participate in the innate immunity of the bone by producing human beta defensin 3. *Histochemistry and Cell Biology* **131**:207-218

(Impact-factor: 2,164)

107. Varoga D, Lippross S, Pufe T, Schütz R (2009) NSAID related acute Compartment Syndrome. *J Trauma* **66**:1251-1252

(Impact-factor: 3,695)

108. Varoga D, Klostermeier E, Paulsen F, Wruck C, Brandenburg L, Tohidnezhad M, Mentlein R, Besch L, Seekamp A, Pufe T (2009) The antimicrobial peptide HBD-2 and the toll-like-receptors-2 and -4 are induced in synovial membranes in case of septic arthritis. *Virchows Archiv* **454**:685-694

(Impact-factor: 2,936)

109. Weiss S, Zimmermann G, Pufe T, Varoga D, Henle P (2009) The systemic angiogenic response during bone healing. *Arch Orthop Trauma Surg* **129**:989-997

(Impact-factor: 1,967)

110. Wruck CJ, Huppertz B, Brandenburg LO, Pufe T, Kadyrov M (2009) A Nrf2 mediated defense mechanism in the etiology of preeclampsia. *Histopathology* **55**:102-106

(Impact-factor: 3,267)

111. Brandenburg LO, Seyferth S, Wruck C, Koch T, Rosenstiel P, Lucius R, Pufe T (2009) Involvement of Phospholipase D 1 and 2 in the Activity and Signal Transduction of the Formyl-Peptide-Receptors in the human colonic cell line HT29. *Molecular Membrane Biology* **25**:1-13

(Impact-factor: 1,125)

112. Brandenburg LO, Lucius R, Koch T, Wruck C, Pufe T (2009) Internalization and Signal Transduction of PrP106-126 in Rat Neuroblastoma Cell Line B104. *Ann Anat* **191**:459-468

(Impact-factor: 1,852)

113.Varoga D, Drescher W, Pufe M, Groth G, Pufe T (2009) Differential expression of VEGF (vascular endothelial growth factor) in glucocorticoid related femoral head necrosis. Clin Orthop Relat R **467**:3273-3282

(Impact-factor: 4,091)

114.Kreczmanski P, Heinsen H, Mantua V, Woltersdorf F, Masson T, Ulfing N, Schmidt-Kastner R, Korr H, Steinbusch HW, Hof PR, Schmitz C (2009) Microvessel length density, total length, and length per neuron in five subcortical regions in schizophrenia. Acta Neuropathol. 2009 **117**:409-21

(Impact-factor: 15,876)

115.Brandenburg LO, Jansen S, Varoga DJ, Nicolaeva N, Leib SL, Podschun R, Wruck CJ, Wilms H, Lucius R, Pufe T (2009) Expression and regulation of antimicrobial peptide rCRAMP after bacterial infection in primary rat meningeal cells. J Neuroimmunol. **217**:55-64

(Impact-factor: 2,655)

## **2010**

116.Drescher W, Varoga D, Liebs T, Lohse J, Herdegen T, Hassenpflug J, Pufe T (2010) Femoral Artery Constriction Enhanced in Wistar Rats. Ann Anat **192**:58-61

(Impact-factor: 1,852)

117.Brandenburg LO, Kipp M, Lucius R, Beyer C, Pufe T, Wruck CJ (2010) Sulforaphane suppresses LPS-induced inflammation in primary rat microglia. Inflammation Research. **59**:443-450

(Impact-factor: 2,143)

118.Brandenburg L, Konrad M, Wruck C, Koch T, Lucius R, Pufe T (2010) Potential role of the Formyl-Peptide-Receptors and Scavenger Receptor MARCO in the Signal Transduction of Amyloid beta 1-42 (A $\beta$ 1-42) in Glial Cells. Journal of Neurochemistry **113**:749-760

(Impact-factor: 4,244)

119.Kopf S, Birkenfeld F, Becker R, Petersen W, Stärke C, Wruck CJ, Tohidnezhad M, Varoga D, Pufe T (2010) Local Treatment of Meniscal Lesions With Vascular Endothelial Growth Factor: A Study in Sheep. *J Bone Joint Surg Am* **92**:2682-2691

(Impact-factor: 4,309)

120.Michelsen KA, Korr H, Steinbusch HW, Schmitz C (2010) Presenilin 1-related alterations in DNA integrity in a transgenic mouse model of Alzheimer's disease. *Brain Res* **1316**:139-144

(Impact-factor: 3,125)

121.Baertling F, Kokozidou M, Pufe T, Windoffer R, Wruck C, Brandenburg L, Beyer C, Kipp M (2010) ADAM12 is expressed by astrocytes during experimental demyelination. *Brain Res Mol Brain Res.* **1326**:1-14

(Impact-factor: 3,125)

122.Brandenburg L, Konrad M, Wruck C, Koch T, Lucius R, Pufe T (2010) Potential role of the Formyl-Peptide-Receptors and Scavenger Receptor MARCO in the Signal Transduction of Amyloid beta 1-42 (A $\beta$ 1-42) in Glial Cells. *Journal of Neurochemistry* **113**:749-760

(Impact-factor: 4,609)

123.Brandenburg LO, Jansen S, Wruck C, Lucius R, Pufe T (2010) Antimicrobial peptide rCRAMP induce glial cell activation through P2Y receptor signalling pathways. *Molecular Immunology* **47**:1905-13

(Impact-factor: 3,188)

124.Brandenburg LO, Kipp M, Lucius R, Beyer C, Pufe T, Wruck CJ (2010) Sulforaphane suppresses LPS-induced inflammation in primary rat microglia. *Inflammation Research* **59**:443-450

(Impact-factor: 2,990)

125.Pape HC, Pufe T (2010) Bone defects – what role does vascularity play in filling the gap? *Injury* **41**:553-554

(Impact-factor: 2,199)

126. Claassen H, Steffen R, Hassenpflug J, Varoga D, Wruck C, Brandenburg LO, Pufe T (2010) 17- $\beta$  estradiol reduces expression of MMP-1, -3, -13 in human primary articular chondrocytes from female patients cultured in a 3-dimensional alginate system. *Cell and Tissue Research* **342**:283-293

(Impact-factor: 3,043)

127. Yang L, Seifert A, Wu D, Wang X, Rankovic V, Schröder H, Brandenburg LO, Höllt V, Koch T. (2010) Role of phospholipase D2/phosphatidic acid signal transduction in micro- and delta-opioid receptor endocytosis. *Journal of Neurochemistry*. **78**:105-113

(Impact-factor: 4,609)

128. Wilms H, Schwark T, Brandenburg LO, Sievers J, Dengler R, Deuschl G, Lucius R. Regulation of activin A synthesis in microglial cells: pathophysiological implications for bacterial meningitis. (2010) *Journal of Neuroscience Research* **88**:16-23

(Impact-factor: 2,662)

129. Kopf S, Birkenfeld F, Becker R, Petersen W, Stärke C, Wruck CJ, Tohidnezhad M, Varoga D, Pufe T (2010) Local Treatment of Meniscal Lesions With Vascular Endothelial Growth Factor. *J Bone Joint Surg (Am)* **92**:2682-2691

(Impact-factor: 4,583)

130. Jansen S, Vereecken H, Klumpe E (2010) On the role of metabolic activity on the transport and deposition of *Pseudomonas fluorescens* in saturates porous media. *Water Res* **44**:1288-96

(Impact-factor: 7,051)

131. Stoll C, John T, Endres M, Rosen C, Kaps C, Kohl B, Sittinger M, Ertel W, Schulze-Tanzil G (2010) Extracellular matrix expression of human tenocytes in three-dimensional air-liquid and PLGA cultures compared with tendon tissue: implications for tendon tissue engineering. *J Orthop Res* **28**:1170-1177

(Impact-factor: 3,414)

## **2011**

132. Wruck CJ, Streetz K, Pavic G, Götz ME, Tohidnezhad M, Brandenburg LO, Varoga D, Eickelberg O, Herdegen T, Chan K, Kan YW, Pufe T (2011) Nrf2 induces interleukin-6 (IL-6) expression via an antioxidant response element within the IL-6 promoter. *JBC* **11**:4493-4499

(Impact-factor: 4,011)

133. Kokozidou M, Drewlo S, Bartz C, Raven G, Brandenburg L, Wruck C, Pufe T (2011) Complex patterns of ADAM12 mRNA and protein splice variants in the human placenta. *Annals of Anatomy* **193**:142-148

(Impact-factor: 1,852)

134. Braun BJ, Slowik A, Leib SL, Lucius R, Varoga D, Wruck CJ, Jansen S, Podschun R, Pufe T, Brandenburg LO. (2011) The formyl peptide receptor like-1 and scavenger receptor MARCO are involved in glial cell activation in bacterial meningitis. *Journal of Neuroinflammation* **8**:11

(Impact-factor: 4,902)

135. Wruck CJ, Fragoulis A, Gurzynski A, Brandenburg LO, Kan YW, Chan K, Hassenpflug J, Freitag-Wolf S, Varoga D, Lippross S, Pufe T (2011) Role of oxidative stress in rheumatoid arthritis: insight from the Nrf2-knockout mice. *Annals of the rheumatic diseases* **70**:844-850

(Impact-factor: 12,350)

136. Wruck C, Brandenburg L, Kadyrov M, Kokozidou M, Tohidnezhad M, Pufe T (2011) Impaired cornification of Nrf-2 mouse esophagus. *International Journal of Dermatology* **50**:1362-1365

(Impact-factor: 1,227)

137. Gavenis K, Pufe T, Brandenburg LO, Schiffli K, Schmidt-Rohlfing B (2011) Effects of controlled released BMP-7 on markers of inflammation and degradation during the cultivation of human osteoarthritic chondrocytes. *Journal of Biomaterials Applications* **26**:419-433

(Impact-factor: 2,082)

138. Tohidnezhad M, Varoga D, Podschun R, Wruck CJ, Seekamp A, Brandenburg LO, Pufe T, Lippross S. (2011) Thrombocytes are effectors of the innate immune system releasing human beta defensin-3. *Injury* **42**:682-686

(Impact-factor: 2,199)

139. Schulze Tanzil G, Al-Sadi O, Wiegand E, Ertel W, Kohl B, Pufe T (2011) The role of pro-inflammatory and immunoregulatory cytokines in tendon healing and rupture: new insights. *Scan J Med & Sci Sports* **21**:337-351

(Impact-factor: 3,623)

140. Schneider R, Borges M, Kadyrov M (2011) Forskolin-induced differentiation of BeWo cells stimulates increased tumor growth in the chorioallantoic membrane (CAM) of the turkey (*Meleagris gallopavo*) egg. *Annals of Anatomy* **193**:220-223

(Impact-factor: 1,852)

141. Lippross S, Moeller B, Haas H, Tohidnezhad M, Steubesand N, Wruck CJ, Seekamp A, Pufe T, Varoga D (2011) Intra-articular Injection of Platelet-rich plasma reduces inflammation in a house swine model of rheumatoid arthritis of the knee joint. *Arthritis Rheum* **63**:3344-3353

(Impact-factor: 7,873)

142. Drescher W, Pufe T, Smeets R, von Eisenhart R, Jäger M, Tingart M (2011) Femoral head necrosis: diagnostic and differential therapy. *Z Orthop Unfallchir* 2011 **149**:1–15

(Impact-factor: 0,572)

143. Tohidnezhad M, Varoga D, Wruck C, Brandenburg LO, Seekamp A, Shakibaei M, Sönmez TT, Pufe T, Lippross S (2011) Platelet-released growth factors can accelerate tenocyte proliferation and activate the anti-oxidant response element. *Histochemistry and Cell Biology* **135**:453–460

(Impact-factor: 2,164)

144. Drescher W, Beckmann R, Kasch R, Pufe M, Knobe M, Kweider N, Hassenpflug J, Tingart M, Pufe T, Kadyrov M (2011) Nitrate Patch prevents Steroid Related Bone Necrosis. *JOR* **29**:1517-1520

(Impact-factor: 3,414)

145.Lichte P, Pape HC, Pufe T, Kobbe P, Fischer H (2011) Scaffolds for bone healing: Concepts, Materials and Evidence. *Injury* **42**:569-573

(Impact-factor: 2,199)

146.Kweider N, Fragoulis A, Rosen C, Pecks U, Rath W, Pufe T, Wruck C (2011) Interplay between VEGF and Nrf2: implications for preeclampsia. *JBC* **286**:42863-72

(Impact-factor: 4,011)

147.Bauch C, Kolle SN, Fabian E, Pachel C, Ramirez T, Wiench B, WruckCJ, van Ravenzwaay (2011) Intralaboratory validation of four in vitro assays for the prediction of the skin sensitizing potential of chemicals. *Toxicol In Vitro* **25**:1162-1128

(Impact-factor: 3,105)

148.Wruck CJ, Fragoulis A, Gurzynski A, Brandenburg LO Kan YW, Chan K, Hassenpflug J, Freitag-Wolf S, Varoga D, Lippross S, Pufe T (2011). Role of oxidative stress in rheumatoid arthritis: insights form the Nrf2-knockout mice. *Ann Rheum Dis* **70**:844-50

(Impact-factor: 12,350)

## **2012**

149.Lippross S, Klueter T, Steubesand N, Oestern S, Mentlein R, Hildebrandt F, Podschun R, Pufe T, Seekamp A, Varoga D (2012) Multiple trauma induces serum production of host defense peptides. *Injury* **43**:137-42

(Impact-factor: 2,199)

150.Dang J, Brandenburg LO, Rosen C, Fragoulis A, Kipp M, Pufe T, Beyer C, Wruck C (2012). Nrf2 expression by neurons, astroglia, and microglia in the cerebral cortical penumbra of ischemic rats. *Journal of Molecular Neuroscience* **46**:578-584

(Impact-factor: 2,454)

151.Brandenburg LO, Merres J, Albrecht LJ, Varoga D, Pufe T (2012) Antimicrobial Peptides: Multifunctional Drugs for Different Applications. *Polymers* **4**:539-560

(Impact-factor: 2,935)

152. Tohidnezhad M, Varoga D, Wruck CJ, Podschun R, Hermanns-Sachweh B, Bornemann J, Bovi M, Sönmez TT, Slowik A, Houben A, Seekamp A, Brandenburg LO, Pufe T, Lippross S (2012) Platelets display potent antimicrobial activity and release human beta defensin-2. *Platelets* **23**:217-223

(Impact-factor: 2,356)

153. Jansen H, Meffert RH, Birkenfeld F, Petersen W, Pufe T (2012) Detection of Vascular Endothelial Growth Factor (VEGF) in Moderate Osteoarthritis in a Rabbit Model. *Ann Anat* **194**:452-456

(Impact-factor: 1,852)

154. Cotofana S, Tillmann B, Pufe T, Lehrer S, Watz D, Zangl M, Modlmayr H, Knöckel E, Mahn HJ, Wambach W (2012) Mechanisms of proximal hamstring rupture in a non-athlete healthy middle-aged female. *Ann Anat* Volume **194**:489-493

(Impact-factor: 1,852)

155. Slowik A, Merres J, Elfgen A, Mohr F, Jansen S, Wruck CJ, Pufe T, Brandenburg LO (2012) Involvement of formyl peptide receptors in receptor for advanced glycation end products (RAGE) - and amyloid beta 1-42-induced signal transduction in glial cell. *Molecular Neurodegeneration* 2012;**7**:55. doi 10.1186/1750-1326-7-55.

(Impact-factor: 6,425)

156. Giebeler A, Brandenburg LO, Kaldenbach M, Erschfeld S, Wasmuth H, Wruck CJ; Trautwein C, Streetz K (2012) Lack of hepatic c-Met and gp130 expression is associated with an impaired anti-bacterial response and higher lethality after bile duct ligation. *Laboratory Investigation* **92**:1726-37

(Impact-factor: 4,263)

157. Kweider N, Huppertz B, Wruck CJ, Beckmann R, Rath W, Pufe T, Kadyrov M (2012) A Role for Nrf2 in Redox Signalling of the Invasive Extravillous Trophoblast in Severe Early Onset IUGR Associated with Preeclampsia. *PLoS one* **7**;e47055. doi: 10.1371/journal.pone.0047055

(Impact-factor: 2,766)



158. Fragoulis A, Laufs J, Mueller S, Soppa U, Siegl S, Reiss LK, Tohidnezhad M, Rosen C, Tenbrock K, Varoga D, Lippross S, Pufe T, Wruck CJ (2012). Sulforaphane has opposing effects on TNF-alpha Stimulates and unstimulated synoviocytes. *Arthritis Research & Therapie* **14** (5): R220. doi: 10.1186/ar4059.

(Impact-factor: 4,269)

159. Beier CP, Kumar P, Meyer K, Leukel P, Bruttel V, Aschenbrenner I, Riemenschneider MJ, Fragoulis A, Rümmele O, Lamszus K, Schulz JB, Weis J, Bogdahn U, Wischhusen J, Hau P, Spang R, Beier D (2012). The cancer stem cell subtype determines immune infiltration of glioblastoma. *Stem Cells Dev* **21**:2753-61

(Impact-factor: 3,315)

## **2013**

160. Brandenburg LO, Jansen S, Albrecht LJ, Merres J, Gerber J, Pufe T, Tauber S (2012) CpG oligodeoxynucleotides induce the expression of the antimicrobial peptide cathelicidin in glial cells. *J Neuroimmunol* **255**:18-31

(Impact-factor: 2,655)

161. Jansen S, Podschun R, Leib S, Grötzinger J, Schröder JM, Oestern S, Pufe T, Brandenburg LO (2012) Expression and function of the antimicrobial peptide Psoriasin (S100A7) and Koebnerisin (S100A15) in the brain. *Infection and Immunity* Volume **81**:1788-1797

(Impact-factor: 3,256)

162. Sönmez TT, Vinogradov A, Zor F, Kweider N, Lippross S, Liehn EA, Naziroglu M, Hölzle F, Wruck C, Pufe T, Tohidnezhad M (2013). The effect of platelet rich plasma on angiogenesis in ischemic flaps in VEGFR2-luc mice. *Biomaterials* **34**: 2674-82

(Impact-factor: 8,806)

163. Sönmez TT, Al-Sawaf O, Brandacher G, Kanzler I, Tuchscheerer N, Tohidnezhad M, Kanatas A, Knobe M, Fragoulis A, Tolba R, Mitchell D, Pufe T, Wruck CJ, Hölzle F, Liehn EA (2013). A novel laser-Doppler flowmetry assisted murine model of acute hindlimb ischemia-reperfusion for free flap research. *PLoS one* **8**(6):e66498

(Impact-factor: 2,766)

164. Kadyrov M, Moser G, Rath W, Kweider N, Wruck CJ, Pufe T, Huppertz B (2013). Mütterlich-plazentare Interaktionen und fetale Programmierung. *Z Geburtsh Neonatol* **217**:88-94

(Impact-factor: 0,246)

165. Brücken A, Cizen A, Fera C, Meinhardt A, Weis J, Nolte K, Rossaint R, Pufe T, Marx G, Fries M (2013) Argon reduces neurohistopathological damage and preserves functional recovery after cardiac arrest in rats. *Br J Anaesth* 110 Suppl 1:i106-12

(impact-factor: 6,499)

## **2014**

166. Korr H, Angstmann NB, Born TB, Bosse K, Brauns B, Demmler F, Fueller K, Kántor O, Kever BM, Rahimyar N, Salimi S, Silny J, Schmitz C (2014). No Evidence of Persisting Unrepaired Nuclear DNA Single Strand Breaks in Distinct Types of Cells in the Brain, Kidney and Liver of Adult Mice after Continuous Eight-Week 50 Hz Magnetic Field Exposure with Flux Density of 01 mT or 1.0 mT. *PLoS One*.2014; **9**(10):e109774. doi: 10.1371/journal.pone.109774.

(Impact-factor: 2,766)

167. Merres J, Höss J, Albrecht LJ, Kress E, Soehnlein O, Jansen S, Pufe T, Tauber SC, Brandenburg LO (2014). Role of the Cathelicidin-Related Antimicrobial Peptide in Inflammation and Mortality in a Mouse Model of Bacterial Meningitis. *J Innate Immun* **6**:205-18

(Impact-factor: 3,837)

168. Al Sawaf O, Fragoulis A, Rosen C, Kan YW, Pufe T, Sönmez T, Wruck CJ (2014). Nrf2 protects against tweak-mediated skeletal muscle Wasting. *Sci Rep* 2014;**4**:3625. doi: 10.1038/srep03625.

(Impact-factor: 4,122)

169. Lichte P, Pfeifer R, Werner, BE, Ewers P, Tohidnezhad M, Pufe T, Hildebrand F, Pape HC, Kobbe P (2014). Dehydroepiandrosterone modulates the inflammatory response in a bilateral femoral shaft fractures model. *European Journal of Medical Research* 2014;**19**:27. doi 10.1186/2014-783X19-27.

(Impact-factor: 1,742)

170. Beckmann R, Tohidnezhad M, Lichte P, Wruck CJ, Jahr H, Pape HC, Pufe T (2014). New from old: Relevant factors for fracture healing in aging bone. *Orthopade* **43**:298-305

(Impact-factor 0,632)

171. Tohidnezhad M, Wruck CJ, Slowik A, Kweider N, Beckmann R, Bayer A, Houben A, Brandenburg LO, Varoga D, Sönmez TT, Stoffel M, Jahr H, Lippross S, Pufe T (2014). Role of platelet-released growth factors in detoxification of reactive oxygen species in osteoblasts. *Bone* **65**:9-17

(Impact-factor: 4,455)

172. Kweider N, Huppertz B, Kadyrov M, Rath W, Pufe T, Wruck C (2014). A possible protective Role of Nrf2 in Preeclampsia. *Ann Anat.* **196**:268-77

(Impact-factor: 1,852)

173. Reiss L, Fragoulis A, Siegl S, Platen C, Kan Y, Nautiyal J, Parker M, Pufe T, Uhlig U, Martin C, Uhlig S, Wruck C (2014). Interplay between Nrf2 and amphiregulin during mechanical ventilation. *Am J Respir Cell Mol Biol* **51**:668-677

(Impact-factor: 3,785)

174. Al Sawaf O, Fragoulis A, Rosen C, Keimes N, Kan YW, Liehn E, Hölzle F, Pufe T, Sönmez T, Wruck C (2014). Nrf2 augments skeletal muscle regeneration after ischemia-reperfusion injury. *J Pathol* **234**:538-47

(Impact-factor: 6,253)

175. Lippross S, Beckmann R, Ayub F, Tohidnezhad M, Campbell G, Kan YW, Sönmez TT, Varoga D, Jahr H, Pufe T, Wruck CJ (2014). Nrf2 deficiency impairs fracture healing in mice. *Calcif Tissue Int* **95**:349-61.

(Impact-factor: 3,293)

176. Ramirez T, Mehling A, Kolle SN, Wruck CJ, Teubner W, Eltze T, Aumann A, Urbisch D, van Ravenzwaay B, Landsiedel R (2014). LuSens: a keratinocyte based ARE reporter gene assay for use in integratet testing strategies for skin sensitization hazard identification. *Toxicol In Vitro* **28**:1482-97

(Impact-factor: 3,105)

177. Beckmann R, Houben A, Tohidnezhad M, Kweider N, Fragoulis A, Wruck C, Brandenburg L, Hermanns-Sachweh B, Goldring MB, Pufe T, Jahr H (2014). Mechanical forces induce changes in VEGF and VEGFR-1/sFlt-1 expression in human chondrocytes. *Int J Mol Sci* **15**:154656-74.

(Impact-factor: 3,687)

178. Beckmann R, Shaheen H, Kweider N, Ghassemi A, Pufe T, Kadyrov M, Drescher W (2014). Enoxaparin prevents steroid-related avascular necrosis of the femoral head. *Scientific World Journal*. 2014;2014:347813. doi: 10.1155/2014/347813. Epub 2014 Jul 2.

(Impact-factor: 0,2)

179. Fitschen-Oestern S, Klueter T, Lippross S, Steubesand N, Weuster M, Mentlein R, Pufe T, Tohidnezhad M, Seekamp A, Bayer A, Varoga D (2014). The antimicrobial peptide lysozyme is induced after multiple trauma. *Mediators Inflamm*. 2014;2014:303106. doi: 10.1155(2014/303106. Epub 2014 Aug 31.

(Impact-factor: 2,417)

180. Lichte P, Kobbe P, Pfeifer R, Campbell G, Beckmann R, Tohidnezhad M, Bergmann C, Kadyrov M, Fischer H, Glüer CC, Hildebrand F, Pape JC, Pufe T (2015). Impaired fracture healing after haemorrhagic shock. *Mediators of Inflammation* vol. 2015, Article ID 132451, 7 Pages, 2015. doi: 10.1155/2015/132451

(Impact-factor: 3,549)

181. Oldekamp S, Pscheidl S, Kress E, Soehnlein O, Jansen S, Pufe T, Wang JM, Tauber S, Brandenburg LO (2014). Lack of formyl peptide receptor 1 and 2 leads to stronger inflammation and higher mortality in a mouse model of pneumococcal meningitis. *Immunology* **143**:447-61

(Impact-factor 3,358)

182. Brandenburg LO, Pufe T, Koch T (2014). Role of Phospholipase D in G-protein coupled receptor function. *Membranes* **4**:302-18

(Impact-factor: 0,2)

183. Krohn T, Verburg FA, Pufe T, Neuhuber W, Vogg A, Heinzl A, Motthagy FM, Behrendt FF (2015). [68Ga]PSMA-HBED uptake mimicking lymph node metastasis in celiac ganglia: an important pitfall for clinical practice. *Eur J of Nuclear Med Mol Imaging* **42**:210-214

(Impact-factor: 7,704)

184. Oestern S, Lippross S, Klüeter T, Weuster M, Varoga D, Tohidnezhad M, Rose-John S, Andruszkow H, Hildebrand F, Steubesand N, Pufe T, Seekamp A, Bayer A, Neunaber C (2017). Multiple trauma model of the mouse. *BMC Musculoskelett Disord* 2017 Nov. 21;18(1): 468

(Impact-factor: 1,998)

185. Fragoulis A, Siegl S, Brandenburg LO, Pufe T, Weis J, Wruck CJ (2017). Oral administration of methysticin improves cognitive deficits in a mouse model of Alzheimer's disease. *Redox Biol* **12**:843-853

(Impact-factor: 7,126)

186. Klüeter T, Brüggemann S, Weuster M, Menzdorf L, Fitschen-Oestern S, Steubesand A, Acil Y, Pufe T, Varoga D, Seekamp A, Lippross S (2014). Rivaroxaban does not impair fracture healing in a rat femur fracture model: an experimental study. *BMC Musculoskeletal Disord* 2015 Apr 9; 16(1):79

(Impact-factor: 1,998)

187. Lichte P, Pfeifer R, Kobbe P, Tohidnezhad M, Pufe T, Almahoud K, Hildebrand F, Pape HC (2014). Inhalative IL-10 treatment after bilateral femoral fractures affect pulmonary inflammation in mice. *Ann Anat* **200**:73-8

(Impact-factor: 1,852)

188. Klüeter T, Lippross S, Weuster M, Mentlein R, Steubesand N, Neunaber C, Hildebrand F, Pufe T, Tohidnezhad M, Beyer A, Seekamp A, Varoga D, Fitschen-Oestern S (2014). The antimicrobial peptide Lysozyme is induced after multiple trauma. *Mediators of Inflamm.* 2014;2014:303106 doi: 10.1155/2014/303106 Epub 2014 Aug 31

(Impact-factor: 3,549)

189. Fet N, Alizai PH, Fragoulis A, Wruck C, Pufe T, Tolba RH, Neumann UP, Klinge U (2014). In-vivo characterization of inflammatory reaction following mesh implantation in transgenic mice models. *Langenbeck's Arch Surg* **399**: 579-88

(Impact-factor 2,296)

## **2015**

190. Das R, Timur UT, Edip S, Haak E, Wruck C, Weinans H, Jahr H (2015). TGF- $\beta$ -2 is involved in the preservation of the chondrocyte phenotype under hypoxic conditions. *Ann Anat* **198**:1-10

(Impact-factor 1,852)

191. Beckmann R, Lippross S, Hartz C, Tohidnezhad M, Ferreira MS, Neuss-Stein S, Seekamp A, Nebelung S, Kweider N, Rath B, Jahr H, Pufe T, Varoga DJ (2015). Abrasion arthroplasty increases mesenchymal stem cell content of postoperative joint effusions. *BMC Musculoskelet Disord.* 2015 Sep 12: 16 (1): 250. Doi: 10.1186/s 12891-015-0705-0

(Impact-factor: 1,998)

192. Brill N, Riedel J, Rath B, Tingart M, Jahr H, Betsch M, Quack V, Pufe T, Schmitt R, Nebelung S (2015) Optical coherence tomography-based parameterization and quantification of articular cartilage surface integrity. *Biomed Opt Express* **6**: 2398-411

(Impact-factor: 3,482)

193. De Bont F, Brill N, Schmitt R, Tingart M, Rath B, Pufe T, Jahr H, Nebelung S (2015) Evaluation of Single-Impact Induced Cartilage Degeneration by Optical Coherence Tomography. *Biomed. Res Int.* 2015;2015: 48794. Doi: 10.1155/2015/486794

(Impact-factor: 2,583)

194. Al Sawaf O, Clarner T, Fragoulis A, Kan YW, Pufe T, Streetz K, Wruck CJ (2015) Nrf2 in health and disease: current and future clinical implications. *Clinical Science* **129**: 989-99

(Impact-factor: 5,220)

195. Wertenbruch S, Drescher H, Grossarth V, Kroy D, Giebeler A, Erschfeld S, Heinrichs D, Soehnlein O, Trautwein C, Brandenburg LO, Streetz K (2015) The Anti-Microbial Peptide LL37/CRAMP Is Elevated in Patients with Liver Diseases and Acts as a Protective Factor during Mouse Liver Injury. *Digestion*. **91** : 307-317

(Impact-factor: 2,037)

196. Krohn T., Verburg FA, Pufe T, Neuhuber W, Vogg A, Heinzl A, Mottaghy FM, Behrendt FF (2015) [(68GA)PSMA-HBED uptake mimicking lymph node metastasis in coeliac ganglia: an important pitfall in clinical practice. *Eur J Nucl Med Mol Imaging*. **42**: 210-214

(Impact-factor: 7,704)

197. Weiss M, Gümbel D, Gelbrich N, Brandenburg LO, Mandelkow R, Zimmermann U, Ziegler P, Burchardt M, Stope MB (2015) Inhibition of Cell Growth of the Prostate Cancer Cell Model LNCaP by Cold Atmospheric Plasma. *In Vivo* **29**: 611-6

(Impact-factor: 1,116)

198. Schumacher A, Denecke B, Braunschweig T, Stahlschmidt J, Ziegler S, Brandenburg LO, Stope MB, Martincuks A, Vogt M, Görtz D, Camporeale A, Poli V, Müller-Newen G, Brümmendorf TH, Ziegler P (2015) Angptl4 is upregulated under inflammatory conditions in the bone marrow of mice, expands myeloid progenitors, and accelerates reconstitution of platelets after myelosuppressive therapy. *J Hematol Oncol*. **8**:64

(Impact-factor: 7,333)

199. Dörr A, Kress E, Podschun R, Pufe T, Tauber SC, Brandenburg LO (2015) Intrathecal application of the antimicrobial peptide CRAMP reduced mortality and neuroinflammation in an experimental model of pneumococcal meningitis. *J Infect*. **71**: 188-99

(Impact-factor: 4,603)

200. Nebelung S, Brill N, Müller F, Tingart M, Pufe T, Merhof D, Schmitt R, Jahr H, Truhn D (2015) Towards Optical Coherence Tomography-based elastographic evaluation of human cartilage. *J Mech Behav Biomed Mater*. **56**: 106-119.

(Impact-factor: 3,239)

201. Schmidt AK, Reich A, Falkenburger B, Schulz JB, Brandenburg LO, Ribes S, Tauber SC (2015) Adjuvant granulocyte colony-stimulating factor therapy results in improved spatial learning and stimulates hippocampal neurogenesis

in a mouse model of pneumococcal meningitis. *J Neuropathol Exp Neurol.* **74**: 85-94

(Impact-factor: 3,490)

202. Zaragatski E, Grommes J, Schurgers LJ, Langer S, Kennes L, Tamm M, Koepfel TA, Kranz J, Hackhofer T, Arakelyan K, Jacobs MJ, Kokozidou M (2015) Vitamin K antagonism aggravates chronic kidney disease-induced neointimal hyperplasia and calcification in arterialized veins: role of vitamin K treatment? *Kidney Int* **89**: 601-611

(Impact-factor: 8,429)

203. Lichte P, Knobbe P, Pfeifer R, Campbell GC, Beckmann R, Tohidnezhad M, Bergmann C, Kadyrov M, Fischer H, Glüer CC, Hildebrand F, Pape HC, Pufe T (2015) Impaired Fracture Healing after Hemorrhagic Shock. *Mediators Inflamm.* vol. 2015; Article ID 132451, 7 pages, Doi: 10.1155/2015/132451.

(Impact-factor: 3,549)

204. Brill N, Riedel J, Schmitt R, Tingart M, Truhn D, Pufe T, Jahr H, Nebelung S (2015) 3D Human cartilage surface characterization by optical coherence tomography. *Phys Med Biol.* **60**:7747-62.

(Impact-factor: 2,665)

## **2016**

205. Arslan E, Nellessen T, Bayer A, Prescher A, Lippross S, Nebelung S, Jahr H, Jaeger C, Huebner WD, Fischer H, Stoffel M, Shakibaei M, Pufe T, Tohidnezhad M (2016) Effect of platelet mediator concentrate (PMC) on Achilles tenocytes: an in vitro study. *BMC Musculoskelet Disord.* 2016 Jul 22;17:307. Doi: 10.1186/s12891-016-1160-2.

(Impact-factor: 1,998)

206. Ramadori P, Drescher H, Erschfeld S, Schumacher F, Berger C, Fragoulis A, Schenkel J, Kensler TW, Wruck CJ, Trautwein C, Kroy DC, Streetz KL (2016) Hepatocyte-specific Keap1 deletion reduces liver steatosis but not inflammation during non-alcoholic steatohepatitis development. *Free Radic Biol Med.* **91**: 114-126

(Impact-factor: 6,020)



207.Menzdorf L, Weuster M, Klüter T, Brüggemann S, Behrendt P, Fitchen-Oestern S, Varoga D, Seekamp A, Purcz N, Glueer CC, Pufe T, Lippross S (2016) Local pamidronate influences fracture healing in a rodent femur fracture model: an experimental study. BMC Musculoskelet Disord. 2016 Jun 9;17:255. Doi: 10.1186/s12891-016-1113-9.

(Impact-factor: 1,998)

208.Weiss M, Brandenburg LO, Burchardt M, Stope MB (2016) MicroRNA-1 properties in cancer regulatory networks and tumor biology. Crit Rev Oncol Hematol **104**: 71-7.

(Impact-factor: 4,495)

209.Brandenburg LO, Tauber SC (2016) Do Innate Immune Gene Variations Contribute to Susceptibility and Severity of Pneumococcal Meningitis? EBioMedicine **10**: 9-10

(Impact-factor: 6,183)

210.Bayer A, Lammel J, Rademacher F, Groß J, Siggelkow M, Lippross S, Klüter T, Varoga D, Tohidnezhad M, Pufe T, Cremer J, Gläser R, Harder J (2016) Platelet-released growth factors induce the antimicrobial peptide human beta-defensin-2 in primary keratinocytes. Exp Dermatol. **25**:460-465

(Impact-factor: 2,608)

211.Draheim T, Liessem A, Scheld M, Wilms F, Weißflog M, Denecke B, Kensler TW, Zendedel A, Beyer C, Kipp M, Wruck CJ, Fragoulis A, Clarner T (2016) Activation of the astrocytic Nrf2/ARE system ameliorates the formation of demyelinating lesions in a multiple sclerosis animal model. Glia. **64**: 2219-2230.

(Impact-factor: 5,997)

212.Caspar A, Mostertz J, Leymann M, Ziegler P, Evert K, Evert M, Zimmermann U, Brandenburg LO, Burchardt M, Stope MB (2016) In Vitro Cultivation of Primary Prostate Cancer Cells Alters the Molecular Biomarker Pattern. In Vivo. **30**:573-579.

(Impact-factor: 1,116)

213. Böhland M, Kress E, Stope MB, Pufe T, Tauber SC, Brandenburg LO (2016) Lack of Toll-like receptor 2 results in higher mortality of bacterial meningitis by impaired host resistance. *J Neuroimmunol* **299**: 90-97.

(Impact-factor: 2,655)

214. Alizai PH, Bertram L, Fragoulis A, Wruck CJ, Kroy DC, Klinge U, Neumann UP, Schmeding M (2016) In vivo imaging of antioxidant response element activity during liver regeneration after partial hepatectomy. *J Surg Res* **206**: 525-535.

(Impact-factor: 2,051)

215. Dietz-Laursonn K, Beckmann R, Ginter S, Radermacher K, de la Fuente M (2016) In-vitro cell treatment with focused shockwaves-influence of the experimental setup on the sound field and biological reaction. *J Ther Ultrasound*. 2016 Mar 29;4:10. Doi: 10.1186/s40349-016-0053-z. eCollection 2016.

(Impact-factor: 0,2)

216. Zaragatski E; Grommes J, Schurgers LJ, Langer S, Kennes L, Tamm M, Koepfel TA, Kranz J, Hackhofer T, Arakelyan K, Jacobs MJ, Kokozidou M (2016) Vitamin K antagonism aggravates chronic kidney disease-induced neointimal hyperplasia and calcification in arterialized veins: role of vitamin K treatment? *Kidney Int* **89**: 601-611

(Impact-factor: 8,429)

217. Albrecht LJ, Tauber SC, Merres J, Kress E, Stope MB, Jansen S, Pufe T, Brandenburg LO (2016) Lack of Proinflammatory Cytokine Interleukin-6 or Tumor Necrosis Factor Receptor-1 Results in a Failure of the Innate Immune Response after Bacterial Meningitis. *Mediators Inflamm*. 7678542. doi: 10.1155/2016/7678542.

(Impact-factor: 3,549)

218. Rauschenberger L, Staar D, Thom K, Scharf C, Venz S, Homuth G, Schlüter R, Brandenburg LO, Ziegler P, Zimmermann U, Weitschies W, Völker U, Lendeckel U, Walther R, Burchardt M, Stope MB (2016) Exosomal particles secreted by prostate cancer cells are potent mRNA and protein vehicles for the interference of tumor and tumor environment. *Prostate* **76**: 409-24.

(Impact-factor: 3,347)

219. Nebelung S, Brill N, Tingart M, Pufe T, Kuhl C, Truhn D (2016) Quantitative OCT and MRI biomarkers for the differentiation of cartilage degeneration. *Skeletal Radiol.* **45**:505-16

(Impact-factor: 1,737)

220. Nebelung S, Tingart M, Pufe T, Kuhl C, Jahr H, Truhn D (2016) Ex vivo quantitative multiparametric MRI mapping of human meniscus degeneration. *Skeletal Radiol.* **45**:1649-1660

(Impact-factor: 1,737)

221. Weiss M, Ahrend H, Grossebrummel H, Ziegler P, Brandenburg Lo, Walther R, Zimmermann U, Burchardt M, Stope MB (2016) Cytochrome P450 17A1 Inhibitor Abiraterone Acetate Counteracts the Heat Shock Protein 27's Cell Survival Properties in Prostate Cancer Cells. *Urol Int* **97**:112-7

(Impact-factor: 1,508)

## **2017**

222. Gelbrich N, Ahrend H, Kaul A, Brandenburg LO, Zimmermann U, Mustea A, Burchardt M, Gumbel D, Stope MB (2017) Different Cytokine and Chemokine Expression Patterns in Malignant Compared to Those in Nonmalignant Renal Cells. *Anal Cell Pathol (Amst)*. 2017;2017:7190546. Doi: 10.1155/2017/7190546. Epub 2017 Jul 9.

(Impact-factor: 1,574)

223. Bayer A, Lammel J, Lippross S, Klüter T, Behrendt P, Tohidnezhad M, Pufe T, Cremer J, Jahr H, Rademacher F, Gläser R, Harder J (2017) Platelet-released growth factors induce psoriasis in keratinocytes: Implications for the cutaneous barrier. *Ann Anat* **213**:25-32

(Impact-factor: 1,852)

224. Sönmez TT, Bayer A, Cremer T, Hock JVP, Lethaus B, Kweider N, Wruck CJ, Drescher W, Jahr H, Lippross S, Pufe T, Tohidnezhad M (2017) The protective effect of platelet released growth factors and bone augmentation (Bio-Oss®) on ethanol impaired osteoblasts. *Ann Anat* **214**:36-42

(Impact-factor: 1,864)

225. Fitschen-Oestern S, Lippross S, Klueter T, Weuster M, Varoga D, Tohidnezhad M, Pufe T, Rose-John S, Andruszkow H, Hildebrand F, Steubesand N, Seekamp A, Neunaber C (2017) A new multiple trauma model of the mouse. *BMC Musculoskelet Disord.* 2017 Nov 21;18(1):468.

(Impact-factor: 1,998)

226. Fitschen-Oestern S, Weuster M, Lippross S, Behrendt P, Fuchs S, Pufe T, Tohidnezhad M, Bayer A, Seekamp A, Varoga D, Klüter T (2017) Hepatocytes express the antimicrobial peptide HBD-2 after multiple trauma: an experimental study in human and mice. *BMC Musculoskelet Disord.* 2017 Mar 7;18(1):100. Doi: 10.1186/s12891-017-1458-8.

(Impact-factor: 1,998)

227. Kress E, Merres J, Albrecht LJ, Hammerschmidt S, Pufe T, Tauber SC, Brandenburg LO (2017) CRAMP deficiency leads to a pro-inflammatory phenotype and impaired phagocytosis after exposure to bacterial meningitis pathogens. *Cell Commun Signal.* 2017 Sep 16;15(1):32. Doi: 10.1186/s12964-017-0190-1.

(Impact-factor: 5,324)

228. Rüther BJ, Scheld M, Dreymueller D, Clarner T, Kress E, Brandenburg LO, Swartenbroekx T, Hoornaert C, Posaerts P, Fallier-Becker P, Beyer C, Rohr SO, Schmitz C, Chrzanowski U, Hochstrasser T, Nyamoya S, Kipp M (2017) Combination of cuprizone and experimental autoimmune encephalomyelitis to study inflammatory brain lesion formation and progression. *Glia* **65**: 1900-1913

(Impact-factor: 5,846)

229. Ahrend H, Kaul A, Ziegler S, Brandenburg LO, Zimmermann U, Mustea A, Buchardt M, Ziegler P, Stope MB (2017) MicroRNA-1 and MicroRNA-21 Individually Regulate Cellular Growth of Non-malignant and Malignant Renal Cells. *In Vivo.* **31**: 625-630.

(Impact-factor: 1,116)

230. Kweider N, Huppertz B, Rath W, Lambertz J, Caspers R, ElMoursi M, Pecks U, Kadyrov M, Fragoulis A, Pufe T, Wruck CJ (2017) The effects of Nrf2 deletion on placental morphology and exchange capacity in the mouse. *J Matern Fetal Neonatal Med* **30**:2068-2073.

(Impact-factor: 1,493)

231. Bihler K, Kress E, Esser S, Nyamoya S, Tauber SC, Clarner T, Stope MB, Pufe T, Brandenburg LO (2017) Formyl Peptide Receptor 1-Mediated Glial Cell Activation in a Mouse Model of Cuprizone-Induced Demyelination. *J Mol Neurosci* **62**:232-243

(Impact-factor: 2,454)

232. Jansen S, Kress E, Fragoulis A, Wruck CJ, Wolf R, Grötzinger J, Michalek M, Pufe T, Tauber SC, Brandenburg LO (2017) Psoriasin has divergent effects on the innate immune responses of murine glial cells. *J Neurochem* **141**:86-99

(Impact-factor: 4,609)

233. Bayer A, Tohidnezhad M, Lammel J, Lippross S, Behrendt P, Klüter T, Pufe T, Jahr H, Cremer J, Rademacher F, Gläser R, Harder J (2017) Platelet-Released Growth Factors Induce Differentiation of Primary Keratinocytes. *Mediators Inflamm.* 5671615 Doi: 10.1155/2017/5671615.

(Impact-factor: 3,549)

234. Bayer A, Lammel J, Tohidnezhad M, Lippross S, Behrendt P, Klüter T, Pufe T, Cremer J, Jahr H, Rademacher F, Gläser R, Harder J (2017) The Antimicrobial Peptide Human Beta-Defensin-3 Is Induced by Platelet-Released Growth Factors in Primary Keratinocytes. *Mediators Inflamm.* 6157491. Doi: 10.1155/2017/6157491.

(Impact-factor: 3,549)

235. Tohidnezhad M, Bayer A, Rasuo B, Hock JVP, Kweider N, Fragoulis A, Sönmez TT, Jahr H, Pufe T, Lippross S (2017) Platelet-Released Growth Factors Modulate the Secretion of Cytokines in Synoviocytes under Inflammatory Joint Disease. *Mediators Inflamm.* 2017;2017:1046438. Doi: 10.1155/2017/1046438. Epub 2017 Nov 19.

(Impact-factor: 3,549)

236. Fan Z, Wirth AK, Chen D, Wruck CJ, Rauh M, Buchfelder M, Savaskan N (2017) Nrf2-Keap1 pathway promotes cell proliferation and diminishes ferroptosis. *Oncogenesis.* **6**: e371. Doi: 10.1038/oncsis.2017.65.

(Impact-factor: 4,722)

237. Ramadori P, Drescher H, Erschfeld S, Fragoulis A, Kensler TW, Wruck CJ, Cubero FJ, Trautwein C, Streetz KL, Kroy DC (2017) Genetic Nrf2 Overactivation Inhibits the Deleterious Effects Induced by Hepatocyte-Specific c-met Deletion during the Progression of NASH. *Oxid Med Cell Longev*. 2017;2017:3420286. Doi: 10.1155/2017/3420286. Epub 2017 Jun 6.

(Impact-factor: 4,936)

238. Nebelung S, Sondern B, Oehrl S, Tingart M, Rath B, Pufe T, Raith S, Fischer H, Kuhl C, Jahr H, Truhn D (2017) Functional MR Imaging Mapping of Human Articular Cartilage Response to Loading. *Radiology*. **282**:464-474.

(Impact-factor: 7,469)

239. Fragoulis A, Siegl S, Fendt M, Jansen S, Soppa U, Brandenburg LO, Pufe T, Weis J, Wruck CJ (2017) Oral administration of methysticin improves cognitive deficits in a mouse model of Alzheimer's disease. *Redox Biol* **12**:843-853

(Impact-factor: 7,126)

240. Günes M, Altok M, Özmen Ö, Umul M, Günes A, Bas E, Özyildiz Z, Sönmez TT, Orhan H (2017) A Novel Experimental Method for Penile Augmentation Urethroplasty With a Combination of Buccal Mucosa and Amniotic Membrane in a Rabbit Model. *Urology*. **102**:240-246.

(Impact-factor: 2,300)

241. Uslusoy F, Naziroglu M, Övey IS, Sönmez TT (2017) Hypericum perforatum L. supplementation protects sciatic nerve injury-induced apoptotic, inflammatory and oxidative damage to muscle, blood and brain in rats. *J Pharm Pharmacol*. 2017 May 16. Doi: 10.1111/jphp.12741. [Epub ahead of print]

(Impact-factor: 2,309)

242. Alizai PH, Bertram L, Kroy D, Kummer J, Andert A, Neumann UP, Ulmer TF, Fragoulis A (2017) Expression of VEGFR-2 during Liver Regeneration after Partial Hepatectomy in a Bioluminescence Mouse Model. *c* **58**:330-340

(Impact-factor: 1,343)

243. Gonçalves E, Fragoulis A, Garcia-Alonso L, Cramer T, Saez-Rodriguez J, Beltrao P (2017) Widespread Post-transcriptional Attenuation of Genomic Copy-Number Variation in Cancer. *Cell Syst* **5**:386-398

(Impact-factor: 8,982)

244. Ulmer TF, Fragoulis A, Dohmeier H, Kroh A, Andert A, Stoppe C, Alizai H, Klink C, Coburn M, Neumann UP (2017) Argon Delays Initiation of Liver Regeneration after Partial Hepatectomy in Rats. *Eur Surg Res.* 2017;58(5-6):204-215

(Impact-factor: 1,343)

## **2018**

245. Bayer A, Tohidnezhad M, Berndt R, Lippross S, Behrendt P, Klüter T, Pufe T, Jahr H, Cremer J, Rademacher F, Simanski M, Gläser R, Harder J (2018) Platelet-released growth factors inhibit proliferation of primary keratinocytes in vitro. *Ann Anat* **215**:1-7

(Impact-factor: 1,852)

246. Lipps C, Klein F, Wahlicht T, Seiffert V, Butueva M, Zauers J, Truschel T, Luckner M, Koester M, MacLeod R, Petzold J, Huehn J, Qinggong Y, Müller PP, Kempf H, Zweigerdt R, Dittrich-Breiholz O, Pufe T, Beckmann R, Drescher W, Riancho J, Sanudo C, Korff T, Opalka B, Rebmann V, Göthert JR, Alves PM, Ott M, Schucht R, Hauser H, Wirth D, May T (2018) Expansion of functional, personalized cells with specific transgene combinations. *Nat Commun* 2018 Mar 8;9(1):994. doi: 10.1038/s41467-018-03408-4

(Impact-factor: 12,353)

247. Mersch D, Häne R, Tohidnezhad M, Pufe T, Drescher W (2018) Bone-preserving total hip arthroplasty in avascular necrosis of the hip-a matched-pairs analysis. *Int Orthop* **42**:1509-1516

(Impact-factor: 2,377)

248. Aust V, Kress E, Abraham S, Schröder N, Kipp M, Stope MB, Pufe T, Tauber SC, Brandenburg LO (2018) Lack of chemokine (C-C motif) ligand 3 leads to decreased survival and reduced immune response after bacterial meningitis. *Cytokine* **111**:246-254

(Impact-factor: 3,514)

249. Esser S, Göpfrich L, Bihler K, Kress E, Nyamoya S, Tauber SC, Clarner T, Stope MB, Pufe T, Kipp M, Brandenburg LO (2018) Toll-Like Receptor 2-Mediated Glial Cell Activation in a Mouse Model of Cuprizone-Induced Demyelination. *Mol Neurobiol* **55**:6237-6249

(Impact-factor: 5,076)

250. Liessem-Schmitz A, Teske N, Scheld M, Nyamoya S, Zendedel A, Beyer C, Clarner T, Fragoulis A (2018) Nrf2 Signaling in Sodium Azide-Treated Oligodendrocytes Restores Mitochondrial Functions. *J Mol Neurosci* **66**:229-237

(Impact-factor: 2,454)

251. Ohl K, Fragoulis A, Klemm P, Baumeister J, Klock W, Verjans E, Böll S, Möllmann J, Lehrke M, Costa I, Denecke B, Schippers A, Roth J, Wagner N, Wruck C, Tenbrock K (2018) Nrf2 Is a Central Regulator of Metabolic Reprogramming of Myeloid-Derived Suppressor Cells in Steady State and Sepsis. *Front Immunol.* 2018 Jul 6;9:1552. doi: 10.3389/fimmu.2018.01552. eCollection 2018

(Impact-factor: 5,511)

252. Teske N, Liessem A, Fischbach F, Clarner T, Beyer C, Wruck C, Fragoulis A, Tauber SC, Victor M, Kipp M (2018) Chemical hypoxia-induced integrated stress response activation in oligodendrocytes is mediated by the transcription factor nuclear factor (erythroid-derived 2)-like 2 (NRF2). *J Neurochem* **144**:285-301

(Impact-factor: 4,609)

253.

254.

255.