

9. Literaturverzeichnis

- Abramson, S. and J. L. Niles (1999). "Anticoagulation in continuous renal replacement therapy." Curr Opin Nephrol Hypertens 8(6): 701-7.
- Addonizio, V. P. (1990). "Platelet function in cardiopulmonary bypass and artificial organs." Hematol Oncol Clin North Am 4(1): 145-55.
- Addonizio, V. P. and R. W. Colman (1982). "Platelets and extracorporeal circulation." Biomaterials 3(1): 9-15.
- Agvald, P., L. C. Adding and L. E. Gustafsson (2005). "Influence of oxygen, temperature and carbon dioxide on nitric oxide formation from nitrite as measured in expired gas from in situ perfused rabbit lung." Vascul Pharmacol. 43(6): 441-8.
- Al-Ali, S. Y., I. M. Hassan and S. Sadek (2005). "Ultrastructural changes in rat livers perfused in vitro and in vivo with a high dose of methotrexate." Histol Histopathol. 20(4): 1131-45.
- Arnaud, A., M. Ramirez, J. H. Baxter and A. J. Angulo (2004). "Absorption of enterally administered N-acetyl-L-glutamine versus glutamine in pigs." Clin Nutr 23(6): 1303-12.
- Arreola, J. L., M. H. Vargas, P. Segura, J. Chavez, B. Sommer, V. Carvajal and L. M. Montano (2004). "Possible role of substance P in the ischemia-reperfusion injury in the isolated rabbit lung." Transplantation 78(2): 296-9.
- Austen, W. G., Jr., C. Kyriakides, J. Favuzza, Y. Wang, L. Kobzik, F. D. Moore, Jr. and H. B. Hechtman (1999). "Intestinal ischemia-reperfusion injury is mediated by the membrane attack complex." Surgery 126(2): 343-8.
- Bellomo, R., J. A. Kellum and M. R. Pinsky (1996). "Transvisceral lactate fluxes during early endotoxemia." Chest 110(1): 198-204.
- Bindslev, L., J. Eklund, O. Norlander, J. Swedenborg, E. Olsson, E. Nilsson, O. Larm, G.I., A. Malmberg and E. Scholander (1987). "Treatment of acute respiratory failure by extracorporeal carbon dioxide elimination performed with a surface heparinized artificial lung." Anesthesiology 67: 117-120.
- Bloch, R., H. Menge, H. Lorenz-Meyer and E. O. Riecken (1971). "[Automated segmental small intestine perfusion. A method for the assessment of the intestinal resorption]." Klin Wochenschr 49(22): 1218-22.
- Boldizsar, H., J. Laklia and F. Simon (1985). "In vitro study of bidirectional glycine transport in porcine small intestine." Acta Vet Hung 33(1-2): 59-73.
- Bonomini, M., V. Sirolli, N. Settefrati, S. Stuard, F. Tropea, L. Di Liberato, C. Tetta and A. Albertazzi (1999). "Surface antigen expression and platelet neutrophil interactions in haemodialysis." Blood Purif 17(2-3): 107-17.
- Brezis, M., A. Shina, G. Kidroni, F. H. Epstein and S. Rosen (1988). "Calcium and hypoxic injury in the renal medulla of the perfused rat kidney." Kidney Int 34(2): 186-94.

-
- Brook, N. R., A. J. Knight and M. L. Nicholson (2003). "Intra-renal resistance reflects warm ischemic damages, and is further increased by static cold storage: a model of non-heart-beating donor kidney." Med Sci Monit 9(7): BR271-5.
- Burakoff, R. and W. H. Percy (1992). "Studies in vivo and in vitro on effects of PGE₂ on colonic motility in rabbits." Am J Physiol 262: G23-G29.
- Burgmann, H., H. Reckendorfer, M. Sperlich and P. G. Spieckermann (1996). "Comparison of Bretschneider's-HTK and Euro-Collins solution using an in vitro small bowel perfusion model." Transplant Proc 28(5): 2636.
- Carson, S. D. and W. H. Konigsberg (1980). "Lipid activation of coagulation factor III apoprotein (tissue factor)--reconstitution of the protein-membrane complex." Thromb Haemost. 44(1): 12-5.
- Chuang, H. Y., S. F. Mohammad, N. C. Sharma and R. G. Mason (1980). "Interaction of human alpha-thrombin with artificial surfaces and reactivity of adsorbed alpha-thrombin." J Biomed Mater Res 14(4): 467-76.
- Colton, C. K., R. A. Ward and S. Shaldon (1994). "Scientific basis for the assessment of biocompatibility in extracorporeal blood treatment." Nephrol Dial Transplant 9(Suppl 2): 11-17.
- Cuber, J. C., G. Bernard, T. Fushiki, C. Bernard, R. Yamanishi, E. Sugimoto and J. A. Chayvalle (1990). "Luminal CCK-releasing factors in the isolated vascularly perfused rat duodenojejunum." Am J Physiol 259(2 Pt 1): G191-7.
- Date, R. S., R. F. McMahon and A. K. Siriwardena (2005). "Radiofrequency Ablation of the pancreas. I: Definition of optimal thermal kinetic parameters and the effect of simulated portal venous circulation in an ex-vivo porcine model." JOP. J Pancreas 6(6): 581-587.
- de Aguilar-Nascimento, J. E., C. Gurgel Marques, A. Carvalho Mariano, A. Bicudo Salomao and J. de Souza Neves (2003). "Benefits of intraluminal injection of glutamine for intestinal mucosa during ischemia-reperfusion." Eur Surg Res 35(4): 352-6.
- Desai, T. R., A. C. Sisley, S. Brown and B. L. Gewertz (1996). "Defining the critical limit of oxygen extraction in the human small intestine." J Vasc Surg 23(5): 832-7; discussion 838.
- Dubin, A., M. O. Pozo, V. S. K. Edul, G. Murias, H. S. Canales, M. Barán, B. Maskin, G. Ferrera, M. Laporte and E. Estenssoro (2005). "Urinary bladder partial carbon dioxide tension during hemorrhagic shock and reperfusion: an observational study." Critical Care 9: R556-R561.
- Eloy, R., F. Battinger, J. Y. Bignon, A. Ananna and J. F. Grenier (1979). "Intestinal brush border enzymes and chronic alcohol ingestion." Res Exp Med (Berl) 175(3): 257-69.
- Fadul, J. E., T. Linde, B. Sandhagen, B. Wikstrom and B. G. Danielson (1997). "Effects of extracorporeal hemapheresis therapy on blood rheology." J Clin Apher 12(4): 183-6.
- Filez, L., F. Penninckx, W. Stalmans, R. Kerremans and K. Geboes (1994). "Prevention of mucosal reperfusion damage after orthotopic small bowel autotransplantation in cats." Transplant Proc 26(3): 1485-8.
-

- Filez, L., W. Stalmans, F. Penninckx and R. Kerremans (1990). "Influences of ischemia and reperfusion on the feline small-intestinal mucosa." J Surg Res 49(2): 157-63.
- Fink, M. P. (1991). "Gastrointestinal mucosal injury in experimental models of shock, trauma, and sepsis." Crit Care Med 19(5): 627-41.
- Fisher, R. B. and M. L. Gardner (1974). "A kinetic approach to the study of absorption of solutes by isolated perfused small intestine." J Physiol 241(1): 211-34.
- Fisher, R. B. and D. S. Parsons (1949). "A preparation of surviving rat small intestine for the study of absorption." J Physiol 110(1-2): 36-46, pl.
- Foley, P. L., C. H. Barthel and H. R. Brausa (2002). "Effect of Covalently Bound Heparin Coating on Patency and Biocompatibility of Long-term Indwelling Catheters in the Rat Jugular Vein." Comparative Medicine 52(3): 243-248.
- Fondevila, C., X. D. Shen, S. Tsuchiyashi, K. Yamashita, E. Csizmadia, C. Lassman, R. W. Busuttill, J. W. Kupiec-Weglinski and F. H. Bach (2004). "Biliverdin therapy protects rat livers from ischemia and reperfusion injury." Hepatology 40(6): 1333-41.
- Foulkes, E. C. (1985). "Interactions between metals in rat jejunum: implications on the nature of cadmium uptake." Toxicology 37(1-2): 117-25.
- Friedrichs, G. S., K. S. Kilgore, P. J. Manley, M. R. Gralinski and B. R. Lucchesi (1994). "Effects of heparin and N-acetyl heparin on ischemia/reperfusion-induced alterations in myocardial function in the rabbit isolated heart." Circ Res 75(4): 701-10.
- Fruchterman, T. M., D. A. Spain, M. A. Wilson, P. D. Harris and R. N. Garrison (1998). "Complement inhibition prevents gut ischemia and endothelial cell dysfunction after hemorrhage/resuscitation." Surgery 124(4): 782-91; discussion 791-2.
- Gabbai, F. B., O. W. Peterson, S. Khang, C. B. Wilson and R. C. Blantz (1994). "Glomerular hemodynamics in cell-free and erythrocyte-perfused isolated rat kidney." Am J Physiol 267(3 Pt 2): F423-7.
- Groneberg, D. A., C. Grosse-Siestrup and A. Fischer (2002). "In Vitro Models to Study Hepatotoxicity." Toxicologic Pathology 30(3): 394-399.
- Grosse-Siestrup, C., C. Fehrenberg, H. von Baeyer and D. A. Groneberg (2002). "Multiple-organ harvesting for models of isolated hemoperfused organs of slaughtered pigs." Altex 19(1): 9-13.
- Grosse-Siestrup, C., J. Pfeffer, V. Unger, S. Nagel, C. Witt, A. Fischer and D. A. Groneberg (2002). "Isolated hemoperfused slaughterhouse livers as a valid model to study hepatotoxicity." Toxicologic Pathology 30(6): 749-754.
- Grosse-Siestrup, C., V. Unger, C. Fehrenberg, H. v Baeyer, A. Fischer, F. Schaper and D. A. Groneberg (2002). "A model of isolated autologously hemoperfused porcine slaughterhouse kidneys." Nephron 92(2): 414-21.
- Grosse-Siestrup, C., V. Unger, M. Meissler, S. Nagel, A. Wussow, C. Peiser, A. Fischer, R. Schmitt and D. A. Groneberg (2003). "Hemoperfused isolated porcine slaughterhouse kidneys as a valid model for pharmacological studies." J Pharm Sci 92(6): 1147-54.

- Grosse-Siestrup, C., V. Unger, J. Pfeffer, Q. T. Dinh, S. Nagel, J. Springer, C. Witt, A. Wussow and D. A. Groneberg (2004). "Hepatotoxic effects of polidocanol in a model of autologously perfused porcine livers." Arch Toxicol 78(12): 697-705.
- Grosse-Siestrup, C., P. M. Wiemer, T. C. Fischer, C. Fehrenberg, V. Unger, A. Fischer and D. A. Groneberg (2002). "Isolated hemoperfused porcine skin as a valid model to assess percutaneous absorption." J Invest Dermatol 119(1): 197-9.
- Grotz, M. R., E. A. Deitch, J. Ding, D. Xu, Q. Huang and G. Regel (1999). "Intestinal cytokine response after gut ischemia: role of gut barrier failure." Ann Surg 229(4): 478-86.
- Gunshin, H. (1997). "Cloning and characterization of a mammalian proton-coupled metal-ion transporter." Nature 388(6641): 482-8.
- Gutierrez, A., A. Alvestrand, J. Bergstrom, H. Beving, B. Lantz and L. W. Henderson (1994). "Biocompatibility of hemodialysis membranes: a study in healthy subjects." Blood Purif 12(2): 95-105.
- Haberich, F. J., R. Herzer, O. Aziz and R. Dennhardt (1968). "[Intestinal resorption and secretion study. I. Technic of extracorporeal perfusion of a temporarily isolated intestinal segment in the unanesthetized rat]." Z Gesamte Exp Med 148(3): 223-37.
- Haisjackl, M., G. Luz, H. Sparr, R. Germann, N. Salak, B. Friesenecker, E. Deusch, S. Meusbürger and W. Hasibeder (1997). "The effects of progressive anemia on jejunal mucosal and serosal tissue oxygenation in pigs." Anesth Analg 84(3): 538-44.
- Halm, M. A. (1996). "Acute gastrointestinal complications after cardiac surgery." Am J Crit Care 5(2): 109-18; quiz 119-20.
- Hammerschmidt, D. E., P. D. Harris, J. H. Wayland, P. R. Craddock and H. S. Jacob (1981). "Complement-induced granulocyte aggregation in vivo." Am J Pathol 102(2): 146-50.
- Hartmann, F., D. Vieillard-Baron and R. Heinrich (1984). "Isolated perfusion of the small intestine using perfluorotributylamine as artificial oxygen carrier." Adv Exp Med Biol 180: 711-20.
- Harward, T. R. S., D. Coe, W. W. Souba, N. Kingman and J. M. Seeger (1994). "Glutamine preserves gut glutathione levels during intestinal ischemia/reperfusion." J Surg Res 56: 351-355.
- Hochel, J., D. Lehmann, C. Fehrenberg, V. Unger, D. A. Groneberg and C. Grosse-Siestrup (2003). "Effects of different perfusates on functional parameters of isolated perfused dog kidneys." Nephrol Dial Transplant 18(9): 1748-54.
- Hofbauer, R., D. Moser, M. Frass, R. Oberbauer, A. D. Kaye, O. Wagner, S. Kapiotis and W. Druml (1999). "Effect of anticoagulation on blood membrane interactions during hemodialysis." Kidney Int 56(4): 1578-83.
- Hohenleitner, F. J. and J. R. Senior (1969). "Metabolism of canine small intestine vascularly perfused in vitro." J Appl Physiol 26(1): 119-28.
- Horl, W. H. (2002). "Hemodialysis membranes: interleukins, biocompatibility, and middle molecules." J Am Soc Nephrol 13 Suppl 1: S62-71.

-
- Janssen, M. J., J. K. Deegens, T. H. Kapinga, J. R. Beukhof, P. C. Huijgens, A. C. van Loenen and J. van der Meulen (1996). "Citrate compared to low molecular weight heparin anticoagulation in chronic hemodialysis patients." Kidney Int 49(3): 806-13.
- Janssen, M. J. and J. van der Meulen (1996). "The bleeding risk in chronic haemodialysis: preventive strategies in high-risk patients." Neth J Med 48(5): 198-207.
- Jin, T. (2002). "Cadmium biomonitoring and renal dysfunction among a population environmentally exposed to cadmium from smelting in China (ChinaCad)." Biometals 15(4): 397-410.
- Kamler, M., H. Jakob, H. A. Lehr, M. M. Gebhard and S. Hagl (1997). "Direct visualization of leukocyte/endothelial cell interaction during extracorporeal circulation (ECC) in a new animal model." Eur J Cardiothorac Surg 11(5): 973-80.
- Kavin, H., N. W. Levin and M. M. Stanley (1967). "Isolated perfused rat small bowel--technic, studies of viability, glucose absorption." J Appl Physiol 22(3): 604-11.
- Kazatchkine, M. D., D. T. Fearon, J. E. Silbert and K. F. Austen (1979). "Surface-associated heparin inhibits zymosan-induced activation of the human alternative complement pathway by augmenting the regulatory action of the control proteins on particle-bound C3b." J Exp Med 150(5): 1202-15.
- Kilgore, K. S., E. J. Tanhehco, K. B. Naylor and B. R. Lucchesi (1999). "Ex vivo reversal of heparin-mediated cardioprotection by heparinase after ischemia and reperfusion." J Pharmacol Exp Ther 290(3): 1041-7.
- Kirklin, J. K., S. Westaby, E. H. Blackstone, J. W. Kirklin, D. E. Chenoweth and A. D. Pacifico (1983). "Complement and the damaging effects of cardiopulmonary bypass." J Thorac Cardiovasc Surg 86(6): 845-57.
- Kong, S. E., L. R. Blennerhassett, K. A. Heel, R. D. McCauley and J. C. Hall (1998). "Ischaemia-reperfusion injury to the intestine." Aust N Z J Surg 68(8): 554-61.
- Kumar, S. V., R. Bose and S. Bhattacharya (2001). "Low doses of heavy metals disrupt normal structure and function of rat platelets." J Environ Pathol Toxicol Oncol 20(1): 65-75.
- Lacey, J. M. and D. W. Wilmore (1990). "Is glutamine a conditionally essential amino acid?" Nutr Rev 48(8): 297-309.
- Lane, D. A. and S. K. Bowry (1994). "The scientific basis for selection of measures of thrombogenicity." Nephrol Dial Transplant 9 Suppl 2: 18-28.
- Lazar, H. L., H. Hudson, J. McCann, J. D. Fonger, D. Birkett, G. S. Aldea and R. J. Shemin (1995). "Gastrointestinal complications following cardiac surgery." Cardiovasc Surg 3(3): 341-4.
- Lazar, H. L., X. Zhang, T. Hamasaki, C. A. Memmelo, P. Treanor, S. Rivers, G. S. Aldea, S. A. Bernard and R. J. Shemin (1997). "Heparin-bonded circuits decrease myocardial ischemic damage: an experimental study." Ann Thorac Surg 63(6): 1701-5.
- Leverett, L. B., J. D. Hellums, C. P. Alfrey and E. C. Lynch (1972). "Red Blood Cell Damage by Shear Stress." Biophys J 12(3): 257-73.
-

- Lindholm, L., M. Westerberg, A. Bengtsson, R. Ekroth, E. Jensen and A. Jeppsson (2004). "A closed perfusion system with heparin coating and centrifugal pump improves cardiopulmonary bypass biocompatibility in elderly patients." Ann Thorac Surg 78(6): 2131-8; discussion 2138.
- Löffler, G. and P. E. Petrides (1998). "Biochemie und Pathobiochemie." Kohlenhydrate 6: 122-31.
- Maack, T. (1980). "Physiological evaluation of the isolated perfused rat kidney." Am J Physiol 238(2): F71-8.
- Mack, V. E., D. C. Marsh, J. E. Mack, F. O. Belzer and J. H. Southard (1993). "Comparison of cold and warm ischemic injury in hepatocytes from the rat liver." Transplant Proc 25(1 Pt 2): 1666-9.
- Maliuk Vol I, Maliuk VI, Ovruts`ka ZH and S. LO (1976). "Effect of heparin on oxidative phosphorylation and ultrastructure of rabbit heart mitochondria." Ukr Biokhim Zh. 48(1): 16-22.
- Malone, E. D. and M. S. Kannan (2001). "Effects of intestinal ischemia on in vitro activity of adjacent jejunum in samples obtained from ponies." Am J Vet Res 62(12): 1973-8.
- Malone, P. C. (1987). "The physiology of intestinal oxygenation and the pathophysiology of intestinal ileus." Med Hypotheses 22(2): 111-57.
- Mayer, K., B. Temmesfeld-Wollbruck, A. Friedland, H. Olschewski, M. Reich, W. Seeger and A. F. Grimminger (1999). "Severe microcirculatory abnormalities elicited by E. coli hemolysin in the rabbit ileum mucosa." Am J Respir Crit Care Med 160(4): 1171-8.
- Minor, T., H. Klauke and W. Isselhard (1997). "Assessment of intestinal integrity after ischemic preservation by luminal and vascular perfusion in vitro." Eur Surg Res 29(4): 246-53.
- Mizutani, A., K. Okajima, M. Uchiba and T. Noguchi (2000). "Activated protein C reduces ischemia/reperfusion-induced renal injury in rats by inhibiting leukocyte activation." Blood 95(12): 3781-7.
- Modersohn, D., S. Eddicks, C. Grosse-Siestrup, I. Ast, S. Holinski and W. Konertz (2001). "Isolated hemoperfused heart model of slaughterhouse pigs." Int J Artif Organs 24(4): 215-21.
- Morteau, O., J. More and L. Pons (1993). "Platlet-activating factor and interleukin 1 are involved in colonic dysmotility in experimental colitis in rats." Gastroenterology 104: 47-56.
- Mueller, X. M., H. T. Tevaeearai, D. Jegger, O. Tucker and L. K. von Segesser (2001 a). "Are standard human coagulation tests suitable in pigs and calves during extracorporeal circulation?" Artif Organs 25(7): 579-84.
- Mueller, X. M., H. T. Tevaeearai, D. Jegger, O. Tucker and L. K. von Segesser (2001 b). "Hemolysis and hematology profile during perfusion: inter-species comparison." Int J Artif Organs 24(2): 89-94.
- Muller, T. F., M. Seitz, I. Eckle, H. Lange and G. Kolb (1998). "Biocompatibility differences with respect to the dialyzer sterilization method." Nephron 78(2): 139-42.
-

- Murray, J. F. and E. Escobar (1968). "Circulatory effects of blood viscosity: comparison of methemoglobinemia and anemia." J Appl Physiol 25(5): 594-9.
- Nielsen, T. and C. Maaske (1966). "Some comparative aspects of porcine renal function." Swine in Biomedical Research: 529-536.
- Nordberg, G. F. (2004). "Cadmium and health in the 21st century--historical remarks and trends for the future." Biometals 17(5): 485-9.
- Nyhlen, K., U. Hultkvist-Bengtsson, M. Nilsson and B. Rippe (2000). "Leukocyte sequestration in isolated guinea pig lungs during extracorporeal circulation: effects on microvascular function." Blood Purif 18(2): 121-7.
- Ochsenfahrt, H. (1979). "The relevance of blood flow for the absorption of drugs in the vascularly perfused, isolated intestine of the rat." Naunyn Schmiedebergs Arch Pharmacol 306(2): 105-12.
- Omokawa, S., P. S. Malchesky, M. Yamashita, J. B. Goldcamp and Y. Nose (1988). "Anticoagulant and membrane effects on humoral and cellular changes during plasmapheresis." ASAIO Trans 34(3): 404-9.
- Palsson, R. and J. L. Niles (1999). "Regional citrate anticoagulation in continuous venovenous hemofiltration in critically ill patients with a high risk of bleeding." Kidney Int 55(5): 1991-7.
- Parks, D. A. and D. N. Granger (1988). "Ischemia-reperfusion injury: a radical view." Hepatology 8(3): 680-2.
- Parks, D. A., T. K. Williams and J. S. Beckman (1988). "Conversion of xanthine dehydrogenase to oxidase in ischemic rat intestine: a reevaluation." Am J Physiol 254(5 Pt 1): G768-74.
- Pascher, A., J. Klupp, R. J. Schulz, S. Kohler, G. Junge, I. M. Sauer, W. Veltzke-Schlieker, A. Adler, O. Guckelberger, N. C. Nussler, A. Dignass, J. M. Langrehr and P. Neuhaus (2005). "[Clinical results of intestinal and multivisceral transplantation at the Charite, Berlin. A case series]." Dtsch Med Wochenschr 130(8): 387-92.
- Petri, N., C. Tannergren, B. Holst, F. A. Mellon, Y. Bao, G. W. Plumb, J. Bacon, K. A. O'Leary, P. A. Kroon, L. Knutson, P. Forsell, T. Eriksson, H. Lennernas and G. Williamson (2003). "Absorption/metabolism of sulforaphane and quercetin, and regulation of phase II enzymes, in human jejunum in vivo." Drug Metab Dispos 31(6): 805-13.
- Pohland, C. C., S. E. Toennies, M. Linsel-Nitschke, W. T. Knoefel, M. Malago, X. Rogiers, M. Gundlach and C. E. Broelsch (1995). "Ischemia and reperfusion injury in rat small bowel: evaluation with an ex vivo reperfusion model." Transplant Proc 27(1): 590-2.
- Prohaska, W. (2004). "Wesentliche Unterschiede zwischen verschiedenen gerinnungshemmenden Medikamenten." Wissenschaftsforum: 5-7.
- Reimann, P. M. and P. D. Mason (1990). "Plasmapheresis: technique and complications." Intensive Care Med 16(1): 3-10.
-

-
- Richter, E. and G. J. Strugala (1985). "An all-glass perfusator for investigation of the intestinal transport and metabolism of foreign compounds in vitro." J Pharmacol Methods 14(4): 297-304.
- Richter, O. N., C. Bartz, J. Dowaji, M. Kupka, J. Reinsberg, U. Ulrich and W. Rath (2006). "Contractile reactivity of human myometrium in isolated non-pregnant uteri." Hum Reprod. 21(1): 36-45.
- Rogausch, H. (1987). "The apparent viscosity of aggregating and non-aggregating erythrocyte suspensions in the isolated perfused liver." Biorheology 24(2): 163-71.
- Rummel, W. and H. F. Stupp (1960 a). "[The effect of potassium and calcium on salt, glucose and water absorption by the isolated small intestine.]." Naunyn Schmiedebergs Arch Exp Pathol Pharmacol 240: 79-92.
- Rummel, W. and H. F. Stupp (1960 b). "[Absorption of D- and L-glucose by the intestine in vitro.]." Med Exp Int J Exp Med 3: 303-8.
- Saadia, R., M. Schein, C. MacFarlane and K. D. Boffard (1990). "Gut barrier function and the surgeon." Br J Surg 77(5): 487-92.
- Sack, F. U., R. Dollner, B. Reidenbach, A. Schledt, S. Taylor, M. M. Gebhard and S. Hagl (2002). "Extracorporeal circulation induced microvascular perfusion injury of the small bowel." Eur Surg Res 34(6): 418-24.
- Sack, F. U. and S. Hagl (2002). "Extracorporeal circulation and intestinal microcirculation: pathophysiology and therapeutical options. An intravital microscopic study in a large animal model." Eur Surg Res 34(1-2): 129-37.
- Sack, F. U., B. Reidenbach, A. Schledt, R. Dollner, S. Taylor, M. M. Gebhard and S. Hagl (2002). "Dopexamine attenuates microvascular perfusion injury of the small bowel in pigs induced by extracorporeal circulation." Br J Anaesth 88(6): 841-7.
- Saito, S., S. Westaby, D. Piggott, T. Katsumata, S. Dudnikov, D. Robson, P. Catarino and C. Nojiri (2001). "Reliable long-term non-pulsatile circulatory support without anticoagulation." Eur J Cardiothorac Surg 19(5): 678-83.
- Salzman, E. W. (1971). "Thrombosis in artificial organs." Trans Proc 3(4): 1491-96.
- Scheppach, W., C. Loges, P. Bartram, S. U. Christl, F. Richter, G. Dusel, P. Stehle, P. Fuerst and H. Kasper (1994). "Effect of free glutamine and alanyl-glutamine dipeptide on mucosal proliferation of the human ileum and colon." Gastroenterology 107(2): 429-34.
- Schinzel, H., K. Berghoff, I. Beuermann, O. Sauer, M. A. von Mach and L. S. Weilemann (2006). "Anticoagulation with low-molecular-weight heparin (dalteparin) in plasmapheresis therapy: initial experience." Transfusion. 46(4): 624-9.
- Schmidt, R. F. and G. Thews (1997). "Physiologie des Menschen." Funktionen des Magen-Darm-Kanals 27: 806-45.
- Shepherd, A. P. (1982). "Local control of intestinal oxygenation and blood flow." Annu Rev Physiol 44: 13-27.
-

- Souba, W. W. (1991). "Glutamine: a key substrate for the splanchnic bed." Annu Rev Nutr 11: 285-308.
- Stadler, M., V. Nuyens, L. Seidel, A. Albert and J. Boogaerts (2005). "Effect of nutritional status on oxidative stress in an ex vivo perfused rat liver." Anesthesiology 103(5): 978-86.
- Stangl, M. J., J. Krapp, D. Theodorou, M. Eder, C. Hammer, W. Land and F. W. Schildberg (2000). "Computer-assisted ex vivo, normothermic small bowel perfusion." Eur Surg Res 32(2): 100-6.
- Svenmarker, S., S. Haggmark, E. Jansson, R. Lindholm, M. Appelblad, E. Sandstrom and T. Aberg (2002). "Use of heparin-bonded circuits in cardiopulmonary bypass improves clinical outcome." Scand Cardiovasc J 36(4): 241-6.
- Taft, D. (2004). "The isolated perfused rat kidney model: a useful tool for drug discovery and development." Curr Drug Discov Technol. 1(2): 97-111.
- Tamura, S., A. Ohike, Y. Tokunaga, R. Ibuki, G. L. Amidon, H. Sezaki and S. Yamashita (2004). "Effect of experimental acute renal and hepatic failure on absorption of tacrolimus in rat small intestine." Drug Metab Pharmacokinet 19(3): 190-7.
- Tashiro, M., T. Okamoto, Y. Sakanashi, H. Ao, T. Imaizumi, H. Tanimoto, F. Yanagi, M. Sugita, R. Mimura and H. Terasaki (2001). "Experimental evaluation of the V-point heparin-bonding system applied to a dense-membrane artificial lung during 24-hour extracorporeal circulation in beagles." Artif Organs 25(8): 655-63.
- te Velthuis, H., P. G. Jansen, C. E. Hack, L. Eijssman and C. R. Wildevuur (1996). "Specific complement inhibition with heparin-coated extracorporeal circuits." Ann Thorac Surg 61(4): 1153-7.
- Temmesfeld-Wollbruck, B., A. Szalay, K. Mayer, H. Olschewski, W. Seeger and F. Grimminger (1998). "Abnormalities of gastric mucosal oxygenation in septic shock: partial responsiveness to dopexamine." Am J Respir Crit Care Med 157(5 Pt 1): 1586-92.
- Tolwani, A. J., R. C. Campbell, M. B. Schenk, M. Allon and D. G. Warnock (2001). "Simplified citrate anticoagulation for continuous renal replacement therapy." Kidney Int 60(1): 370-4.
- Unger, J. K., C. Haltern, B. Dohmen and R. Rossaint (2003). "Influence of different heparin concentrations on the results of in vitro investigations in plasmaseparation technology using capillary membrane filters." Artif Organs 27(7): 649-57.
- Van Hoogmoed, L. M., J. E. Nieto, J. R. Snyder and F. A. Harmon (2002). "In vitro evaluation of an intraluminal solution to attenuate effects of ischemia and reperfusion in the small intestine of horses." Am J Vet Res 63(10): 1389-94.
- Van Hoogmoed, L. M., J. R. Snyder, J. Nieto and F. A. Harmon (2001). "In vitro evaluation of a customized solution for use in attenuating effects of ischemia and reperfusion in the equine small intestine." Am J Vet Res 62(11): 1679-86.
- Vatistas, N. J., J. E. Nieto, L. Van Hoogmoed, I. Gardner and J. R. Snyder (2003). "Use of an isolated intestinal circuit to evaluate the effect of ischemia and reperfusion on mucosal permeability of the equine jejunum." Vet Surg 32(1): 52-61.

- Vinnars, E., J. Bergstrom and P. Furst (1975). "Influence of the postoperative state on the intracellular free amino acids in human muscle tissue." Ann Surg 182(6): 665-71.
- von Baeyer, H., K. Stahl, M. Hausler, M. Meissler, V. Unger, J. Frank, C. Grosse-Siestrup, G. Kaczmarczyk, K. Affeld, H. J. Flaig and B. Steinbach (1997). "A new method of ex vivo whole blood perfusion of isolated mammalian organs, exemplified by the kidney of swine." Biomed Tech (Berl). 42(3): 61-8.
- von Engelhardt, W. and G. Breves (2005 a). "Physiologie der Haustiere." Physiologie des Magen-Darm-Kanals 2: 388-392.
- von Engelhardt, W. and G. Breves (2005 b). "Physiologie der Haustiere." Physiologie des Magen-Darm-Kanals 2: 343-348.
- Vroman, L., A. L. Adams, G. C. Fischer and P. C. Munoz (1980). "Interaction of high molecular weight kininogen, factor XII, and fibrinogen in plasma at interfaces." Blood 55(1): 156-9.
- Wan, S., J. L. LeClerc and J. L. Vincent (1997). "Inflammatory response to cardiopulmonary bypass: mechanisms involved and possible therapeutic strategies." Chest 112(3): 676-92.
- Weiler, J. M., R. W. Yurt, D. T. Fearon and K. F. Austen (1978). "Modulation of the formation of the amplification convertase of complement, C3b, Bb, by native and commercial heparin." J Exp Med 147(2): 409-21.
- Wendel, H. P. and G. Ziemer (1999). "Coating-techniques to improve the hemocompatibility of artificial devices used for extracorporeal circulation." Eur J Cardiothorac Surg 16: 342-350.
- Willey, M. L., S. de Denus and S. A. Spinler (2002). "Removal of lepirudin, a recombinant of hirudin, by hemodialysis, hemofiltration or plasmapheresis." Pharmacotherapy 22(4): 492-9.
- Wilmore, D. W., R. J. Smith, S. T. O'Dwyer, D. O. Jacobs, T. R. Ziegler and X. D. Wang (1988). "The gut: a central organ after surgical stress." Surgery 104(5): 917-23.
- Wilson, T. H. (1954). "Concentration gradients of lactate, hydrogen and some ions across the intestine in vitro." J Physiol 56: 521-27.
- Wilson, T. H. (1956). "The role of lactic acid production in glucose absorption from the intestine." J Biol Chem 222(2): 751-63.
- Wilson, T. H. and G. Wiseman (1954). "The use of sacs of everted small intestine for the study of the transference of substances from the mucosal to the serosal surface." J Physiol 123(1): 116-25.
- Windmueller, H. G. and A. E. Spaeth (1981). "Vascular autoperfusion of rat small intestine in situ." Methods Enzymol 77: 120-9.
- Windmueller, H. G., A. E. Spaeth and C. E. Ganote (1970). "Vascular perfusion of isolated rat gut: norepinephrine and glucocorticoid requirement." Am J Physiol 218(1): 197-204.

- Wirguin, I., T. Brenner, E. Shinar and Z. Argov (1990). "Citrate-induced impairment of neuromuscular transmission in human and experimental autoimmune myasthenia gravis." Ann Neurol 27(3).
- Wu, G. H., H. Wang, Y. W. Zhang, Z. H. Wu and Z. G. Wu (2004). "Glutamine supplemented parenteral nutrition prevents intestinal ischemia-reperfusion injury in rats." World J Gastroenterol 10(17): 2592-4.
- Yagmurdu, M. C., T. Colak, R. Emiroglu, G. Karabay, B. Bilezikci, S. Turkoglu, D. Aldemir, G. Moray and M. Haberal (2003). "Antiinflammatory action of heparin via the complement system in renal ischemia-reperfusion." Transplant Proc 35(7): 2566-70.
- Yagmurdu, M. C., E. Turk, G. Moray, F. Can, M. Demirbilek, N. Haberal, G. Karabay, H. Karakayali and M. Haberal (2005). "Effects of heparin on bacterial translocation and gut epithelial apoptosis after burn injury in the rat: Dose-dependent inhibition of the complement cascade." Burns 31(5): 603-609.
- Yokoyama, H., T. Horie and S. Awazu (2006). "Naproxen-induced oxidative stress in isolated perfused rat liver." Chem Biol Interact 160(2): 150-8.
- Zahler, S., P. Massoudy, H. Hartl, C. Hahnel, H. Meisner and B. F. Becker (1999). "Acute cardiac inflammatory responses to postischemic reperfusion during cardiopulmonary bypass." Cardiovasc Res 41(3): 722-30.
- Zimmerman, B. J., M. B. Grisham and D. N. Granger (1988). "Mechanisms of oxidant-mediated microvascular injury following reperfusion of the ischemic intestine." Basic Life Sci 49: 881-6.