

## 8. Literaturverzeichnis

- [1] Velten F.  
*Der Einfluß der Extrazellulärmatrrix auf die Vitalität und Funktion immunisierter Langerhans'scher Inseln*  
Dissertation Mainz [1994]
- [2] Vreden M.  
*Sauerstoffprofile mikroenkapsulierter Inselorgane – Effekt von immobilisiertem Hämoglobin in Matrix*  
Diplomarbeit, Fachbereich Biologie [1993]
- [3] Wolters G.H.; van Suylichem P.T.; van Deijnen J.H.; van Schilfgaarde R.  
*Factors influencing the isolation process of islets of Langerhans*  
Horm. Metab. Res. Suppl. **25**: 20-26 [1990]
- [4] Perdrizet G.A.; Rewinski M.J.; Bartus S.A.; Hull D.; Schweizer R.T.; Scharp D.W.  
*Albumin improves islet isolation: specific versus nonspecific effects*  
Transplant. Proc. **27**: 3400-3402 [1995]
- [5] Ling Z.; Hannaert J.C.; Pipeleers D.  
*Effect of nutrients, hormones and serum on survival of rat islet beta cells in culture*  
Diabetologia **37**: 15-21 [1994]
- [6] Clark S.A.; Chick W.L.  
*Islet cell culture in defined serum-free medium*  
Endocrinology **126**: 1895-1903 [1990]
- [7] Yamanoi Y.; Awai M.; Seno S.  
*Degranulation effect of ferric nitrilotriacetate ( $Fe^{3+}$ -NTA) on the pancreatic islet beta-cells: its acute toxic effect on glucose metabolism*  
Acta Med. Okayama **38**: 423-473 [1984]
- [8] Shirasuga N.; Hayashi K.; Awai M.  
*Pancreatic islets after repeated injection of  $Fe^{3+}$ -NTA. An ultrastructural study of diabetic rats*  
Acta Pathol. Japan **39**: 159-168 [1989]

- [9] May M.E.; Parmley R.T.; Spicer S.S.; Ravenel D.P.; May E.E.; Buse M.G.  
*Iron nitrilotriacetate—induced experimental diabetes in rats*  
J. Lab. Clin. Med. **95**: 525-535 [1980]
- [10] Ivanov V.V.; Lusta I.V.; Sitozhevskii A.V.; Trofimov A.V.;  
Kozhanova A.A.  
*The effect of pro-oxidants on insulin secretion by the isolated rat pancreas*  
Biull. Eksp. Biol. Med. **116**: 165-167 [1993]
- [11] Sitozhevskii A.V.; Lusta I.V.; Trofimov A.V.; Ivanov V.V.; Karpenko O.A.  
*Insulin secretion by isolated rat pancreas as affected by prooxidants;  
relationship to glutathione release*  
Probl. Endokrinol. (Mosk.) **40**: 39-41 [1994]
- [12] Lamberti F.V.; Sefton M.V.  
*Microencapsulation of erythrocytes in Eudragit-RL-coated calcium alginate*  
Biochim. Biophys. Acta **759**: 81-91 [1983]
- [13] Stryer L.  
*Biochemie*  
Spektrum der Wissenschaft Verlagsgesellschaft mbH Heidelberg: 163 [1990]
- [14] Lehninger A.L.; Nelson D.L.; Cox M.M.  
*Prinzipien der Biochemie*  
Spektrum Akademischer Verlag, Heidelberg: 217 [1998]
- [15] Chandy T.; Mooradian D.L.; Rao G.H.  
*Evaluation of modified alginate-chitosan-polyethylene glycol microcapsules  
for cell encapsulation*  
Artif. Organs **23**: 894-903 [1999]
- [16] Petruzzo P.; Ruiu G.; Cappai A.; Piras P.; Arnone M.; Brotzu G.  
*Xenograft of pancreatic islets: preliminary results of a new immunoisolation  
method*  
Ann. Ital. Chir. **65**: 241-247 [1994]
- [17] Horcher A.; Zekorn T.; Siebers U.; Klöck G.; Frank H.; Houben R.; Bretzel  
R.G.; Zimmermann U.; Federlin K.  
*Transplantation of microencapsulated islets in rats: evidence for induction of  
fibrotic overgrowth by islet alloantigens released from microcapsules*  
Transplant. Proc. **26**: 784-786 [1994]

- [18] Serie J.R.; Hickey G.E.; Schmitt R.V.; Hegre O.D.  
*Prolongation of culture-isolated neonatal islets xenografts without immunosuppression*  
Transplant. Proc. **36**: 6-11 [1983]
- [19] Ricordi C.; Fincke E.H.; Lacy P.E.  
*A method for the mass isolation of islets from the adult pig pancreas*  
Diabetes **35**: 649-653 [1986]
- [20] Knetemann N.M.; Alderson D.; Scharp D.W.  
*The isolation and purification of human pancreatic islets*  
Transplant. Proc. **19**: 3469-3470 [1987]
- [21] Hara Y.; Taniguchi H.; Yamashiro Y.; Kuroda N.; Ishihara K.; Ejiri K.; Baba S.  
*An improved method for the isolation of islets from the rat pancreas*  
Exp. Clin. Endocrinol. **2**: 171-175 [1988]
- [22] Ricordi C.; Lacy P.E.; Scharp D.W.  
*Automated islet isolation from human pancreas*  
Diabetes **38**: 140-142 [1989]
- [23] Van der Burg M.P.M.; Gooszen H.G.; Ploeg R.J.; Guicherit O.R.; Scherft J.P.;  
Terpstra J.L.; Bruijn J.A.; Frölich M.  
*Pancreatic islet isolation with UW solution: a new concept*  
Transplant. Proc. **22**: 2050-2051 [1990]
- [24] Wolters G.H.J.; Vos-Scheperkeuter G.H.; van Deijnen J.H.M.;  
van Schilfgaarde R.  
*An analysis of the role of collagenase and protease in the enzymatic dissociation of the rat pancreas for islet isolation*  
Diabetologia **35**: 735-742 [1992]
- [25] Cui W.; Gu Y.; Miyamoto M.; Tanaka M.; Xu B.; Imamura M.; Iwata H.;  
Ikada Y. ; Inoue K.  
*Novel method for isolation of adult porcine pancreatic islets with two-stage digestion procedure*  
Cell Transplant. **8**: 391-398 [1999]
- [26] Arita S.; Smith C.V.; Nagai T.; Sakamoto Y.; Ochiai M.; Maruyama M.;  
Tanabe Y.; Shelvin L.; Mullen Y.  
*Improved human islet isolation by a tube method for collagenase infusion*  
Transplantation **68**: 705-707 [1999]

- [27] Kenmochi T.; Miyamoto M.; Une S.; Nakagawa Y.; Moldovan S.; Navarro R.A.; Benhamou P.Y.; Brunicardi F.C.; Mullen Y.  
*Improved quality and yield of islets isolated from human pancreata using a two-step digestion method*  
Pancreas **20**: 184-190 [2000]
- [28] Lim F.; Sun A.M.  
*Microencapsulated islets as bioartificial endocrine pancreas*  
Science **210**: 908-910 [1980]
- [29] O'Shea G.M.; Goosen M.F.A.; Sun A.M.  
*Prolonged survival of transplanted islets of Langerhans encapsulated in a biocompatible membrane*  
Biochim. Biophys. Acta **804**: 133-136 [1984]
- [30] Zekorn T.; Bretzel R.G.; Siebers U.; Doppl W.; Renardy M.; Zschocke P.; Planck H.; Federlin K.  
*Protein coat causes improved insulin diffusion through membranes for immuno-isolated islet transplantation: Improved islet survival by pretreatment of membranes and islets*  
Transplant. Proc. **22**: 867-869 [1990]
- [31] Zekorn T.; Siebers U.; Horcher A.; Schnettler R.; Klöck G.; Bretzel R.G.; Zimmermann U.; Federlin K.  
*Barium-alginate beads for immunoisolated transplantation of islets of Langerhans*  
Transplant. Proc. **24** : 937-939 [1992]
- [32] Zondervan G.J. ; Hoppen H.J. ; Pennings A.J. ; Fritschy W. ; Wolters G.; van Schilfgaarde R.  
*Design of a polyurethane membrane for the encapsulation of islets of Langerhans*  
Biomaterials **13**: 136-144 [1992]
- [33] Zekorn T.; Siebers U.; Horcher A.; Schnettler R.; Zimmermann U.; Bretzel R.G.; Federlin K.  
*Alginate coating of islets of Langerhans: in vitro studies on a new method for microencapsulation for immuno-isolated transplantation*  
Acta Diabetol. **29** : 41-45 [1992]

- [34] Robitaille R. ; Pariseau J.F. ; Leblond F.A. ; Lamoureux M. ; Lepage Y. ; Halle J.P.  
*Studies on small (<350 microm.) alginate-poly-L-lysine microcapsules. III. Biocompatibility of smaller versus standard microcapsules*  
J. Biomed. Mater. Res. **44**: 116-120 [1999]
- [35] King A.; Sandler S.; Andersson A.; Hellerstrom C.; Kulseng B.; Skjak-Braek G.  
*Glucose metabolism in vitro of cultured and transplanted mouse pancreatic islets microencapsulated by means of a high-voltage electrostatic field*  
Diabetes Care **22**: B 121-126 [1999]
- [36] Lum Z.P.; Tai I.T.; Krestow M.; Norton J.; Vacek I.; Sun A.M.  
*Prolonged reversal of diabetic state in NOD mice by xenografts of microencapsulated rat islets*  
Diabetes **40**: 1511-1516 [1991]
- [37] Lum Z.P.; Krestow M.; Tai I.T.; Vacek I.; Sun A.M.  
*Xenografts of rat islets into diabetic mice. An evaluation of new smaller capsules*  
Transplantation **53**: 1180-1183 [1992]
- [38] Sun Y. ; Ma X. ; Zhou D.; Vacek I.; Sun A.M.  
*Normalization of diabetes in spontaneously diabetic cynomolgus monkeys by xenografts of microencapsulated porcine islets without immunosuppression*  
J. Clin. Invest. **98**: 1417-1422 [1996]
- [39] Zhou M.; Chen D.; Yao Q. ; Xia Z. ; Wang C. ; Zhu H.  
*Microencapsulation of rat islets prolongs xenograft survival in diabetic mice*  
Chin. Med. J. (Engl.) **111**: 394-397 [1998]
- [40] Soon-Shiong P.  
*Treatment of type I diabetes using encapsulated islets*  
Adv. Drug Deliv. Rev. **35**: 259-270 [1999]
- [41] Schrezenmeir J.; Gerö L.; Laue C.; Kirchgessner J.; Müller A.; Hüls A.; Passmann R.; Hahn H.J.; Kunz L.; Mueller-Klieser W.; Altmann J.J.  
*The role of oxygen supply in islet transplantation*  
Transplant. Proc. **24**: 2925-2929 [1992]

- [42] Dionne K.E. ; Colton C.K. ; Yarmush M.L.  
*Effect of oxygen on isolated pancreatic tissue*  
Trans. Am. Soc. Artif. Intern. Organs **35**: 739-741 [1989]
- [43] Dionne K.E. ; Colton C.K. ; Yarmush M.L.  
*Effect of hypoxia on insulin secretion by isolated rat and canine islets of Langerhans*  
Diabetes **42**: 12-21 [1993]
- [44] Schrezenmeir J.; Kirchgessner J.; Gerö L.; Kunz L.A.; Beyer J.; Mueller-Klieser W.  
*Effect of microencapsulation on oxygen distribution in islets organs*  
Transplantation **57**: 1308-1314 [1994]
- [45] Sandler S.; Andersson A.; Eizirik D.L.; Hellerstrom C.; Espevik T.; Kulseng B.; Thu B.; Pipeleers D.G.; Skjak-Braek G.  
*Assessment of insulin secretion in vitro from microencapsulated fetal porcine islet-like cell clusters and rat, mouse, and human pancreatic islets*  
Transplantation **63**: 1712-1718 [1997]
- [46] Papas K.K.; Long R.C. Jr.; Sambanis A.; Constantinidis I.  
*Development of a bioartificial pancreas: II. Effects of oxygen on long-term entrapped betaTC3 cell cultures*  
Biotechnol. Bioeng. **66**: 231-237 [1999]
- [47] Papas K.K.; Long R.C. Jr.; Constantinidis I.; Sambanis A.  
*Effects of short-term hypoxia on a transformed cell-based bioartificial pancreatic construct*  
Cell Transplant. **9**: 415-422 [2000]
- [48] Schrezenmeir J.; Gerö L.; Solhdju M.; Kirchgessner J.; Laue C.; Beyer J.; Stier H.; Mueller-Klieser W.  
*Relation between secretory function and oxygen supply in isolated islet organs*  
Transplant. Proc. **26** : 809-813 [1994]
- [49] Weber C.J. ; Zabinski S. ; Koschitzky T.; Wicker L. ; Rajotte R.; D'Agati V.; Peterson L. ; Norton J. ; Reemtsma K.  
*The role of CD4<sup>+</sup> helper T cells in the destruction of microencapsulated islet xenografts in NOD mice*  
Transplantation **49**: 396-404 [1990]

- [50] Cole D.R.; Waterfall M.; McIntyre M.; Baird J.D.  
*Microencapsulated islet grafts in the BB/E rat: a possible role for cytokines in graft failure*  
*Diabetologia* **35**: 231-237 [1992]
- [51] de Vos P.; Wolters G.H.J. ; Fritschy W.M. ; van Schilfgaarde R.  
*Obstacles in the application of microencapsulation in islet transplantation*  
*Int. J. Artif. Organs* **16**: 205-212 [1993]
- [52] Fritschy W.M. ; de Vos P.; Groen H. ; Klatter F.A. ; Pasma A. ; Wolters G.H.J. ; van Schilfgaarde R.  
*The capsular overgrowth on microencapsulated pancreatic islet grafts in streptozotocin and autoimmune diabetic rats*  
*Transpl. Int.* **7**: 264-271 [1994]
- [53] De Vos P.; de Haan B.J. ; Wolters G.H.J. ; Strubbe J.H. ; van Schilfgaarde R.  
*Improved biocompatibility but limited graft survival after purification of alginate for microencapsulation of pancreatic islets*  
*Diabetologia* **40**: 262-270 [1997]
- [54] Chicheportiche D.; Reach G.  
*In vitro kinetics of insulin release by microencapsulated rat islets: effect of the size of the microcapsules*  
*Diabetologia* **31**: 54-57 [1988]
- [55] Cappai A.; Petruzzo P.; Ruiu G.; Congiu T.; Dessy E.; de Seta W.; Santa Cruz G.; Brotzu G.  
*Evaluation of new small barium alginate microcapsules*  
*Int. J. Artif. Organs* **18** : 96-102 [1995]
- [56] O'Shea G.M.; Sun A.M.  
*Encapsulation of rat islets of Langerhans prolongs xenograft survival in diabetic mice*  
*Diabetes* **35**: 943-946 [1986]
- [57] Ponka P.; Beaumont C.; Richardson D.R.  
*Function and regulation of transferrin and ferritin*  
*Semin. Hematol.* **35**: 35-54 [1998]
- [58] Hyder A.; Laue C.; Schrezenmeir J.  
*Variable responses of islet cells of different ages and species to hypoxia*  
*Transplant. Proc.* **30** : 578-580 [1998]