

Address:

David W. Scharp, MD
 Prodo Laboratories, Inc
 32A Mauchly
 Irvine, Ca 92618
 (949) 727-1972

Education:

<u>Institution & Location</u>	<u>Degree</u>	<u>Years</u>	<u>Course of Study</u>
University of Missouri, Columbia, MO	-	1963-1966	Chemistry & Biology
Washington University School of Medicine St. Louis, MO	MD	1966-1970	Medicine
Barnes Hospital Surgery Training St. Louis, MO	-	1970-1972	Surgery
WUSM Post Doc - Paul Lacy, MD, PhD St. Louis, MO	-	1972-1974	Research
Barnes Hospital Surgery Training	-	1974-1976	Surgery

Academic Appointments:

- 1976 – Assistant Professor of Surgery, Washington University School of Medicine, St. Louis, MO
- 1983 – Associate Professor of Surgery, Washington University School of Medicine, St. Louis, MO
- 1991 to 1994 - Professor of Surgery, Washington University School of Medicine, St. Louis, MO
- 2012 to Present – “Global Entrepreneurship” undergraduate, Sociology Department, UCI with Peter Gluck, Patent Attorney, Seymour Saschlossler, Accountant

Certifications:

- 1979 - American Board of Surgery
- 1989 - Recertification: American Board of Surgery

Corporate Relationships:

- 1982-1986 – Contractual Research – “Electrophoretic Separation of Pancreatic Cells in Space”, McDonnell Douglas Corp, St Louis, MO
- 1983 – STS 8 Challenger Space Shuttle flight for electrophoretic separation of pancreatic islet and acinar cells at zero gravity during Shuttle flight experiment
- 1986-1994 - National Surgical Advisor - Digestive Disease Center of Excellence, The Humana Corporation
- 1989 – Founding Scientist – Cytotherapeutics, Inc, Providence, Rhode Island
- 1989-1993 – Founding Scientific Advisory Board – Cytotherapeutics, Inc
- 1989-1993 – Contractual Research – “Encapsulated Islets using Hollow Fibers”, Cytotherapeutics, Inc
- 1993 – FDA Approved Investigator IND clinical trial for encapsulated human islets into non-diabetic, Type 1 Diabetic, and Type 2 Diabetic recipients for Cytotherapeutics, Providence, RI
- 1999 – 2005 - Co-Founder - Novocell, Inc, Irvine, CA
- 2005 – FDA Approved Phase I/II Clinical Trial of encapsulated human islets into the subcutaneous site of patients with Type 1 diabetes for Novocell, Inc.
- 2006 to present – Founder – Prodo Laboratories, Inc, Irvine, CA
- 2006 – 2008 – Founder – Invenio Institute, Irvine, CA

2007 to 2012 - Consultant – Beta O₂, Tel Aviv, Israel
 2008 to 2011– Scientific Advisory Board – Pan-Medics, Costa Mesa, CA
 2008 to Present - Founder – The Scharp-Lacy Research Institute, Irvine, CA
 2008 – 2009 – Scientific Advisory Board – Micro-Islet, Inc, San Diego, CA
 2010 to Present - Founder & Chairman of the Board – Scharp Technologies, Irvine, CA
 2010 - 2011 - Acting Chief Medical Officer – Pan-Medics, Costa Mesa, CA
 2011 to Present - Consultant – Betalogics, Inc, Division of Johnson & Johnson
 2012 to 2013 – Consultant – Didimi, Inc., San Francisco, CA
 2013 to Present – Senior Advisor to International Pancreas & Islet Transplantation Association, IPITA
 2013 to Present – Advisor to JDRF Encapsulation Consortium

Corporate Appointments:

1994-1999 – Executive Vice President, Chief Scientific Officer, Chief Medical Officer - Neocrin Co., Irvine, CA
 1999 – 2004 - Executive Vice President, Chief Scientific Officer, Chief Medical Officer, Novocell, Inc., Irvine, CA
 2004 – 2006 - Executive Vice President, Chief Scientific Officer, Chief Medical Officer, Novocell, Inc., Irvine, CA – Post Merger with Cythera, Inc
 2006 to Present – Chief Executive Officer & President – Prodo Laboratories, Irvine, CA
 2006 – 2008 – Chief Executive Officer & President – Invenio Institute, Irvine, Ca
 2008 to Present – Chief Executive Officer & President – The Scharp-Lacy Research Institute, Irvine, CA (formerly Invenio Institute)
 2010 to Present – Chairman of the Board – Scharp Technologies, Irvine, CA

Honors & Awards:

1977-1982 – Recipient, NIH Research Career Development Award
 1980-1995 – Site Visit Team Member, NIDDK of the NIH
 1982-1994 - Continuous NIH Grant Support through Series of NIH Grant Awards
 1982 – Elected as Fellow American College of Surgery
 1985-1989 – Member, NIH Surgery, Anesthesiology, and Trauma (SAT) Study Section
 1985-1989 - Reserve Member, NIH SAT Study Section
 1988 - Elected Faculty Member, Alpha Omega Alpha - Washington University School of Medicine Chapter
 1990 - Outstanding Professional Employee, Federal Employee of the Year Award, St. Louis Veterans Hospital
 1990 - The Huddinge Hospital Transplant Lectureship - Annual Meeting of the Swedish Society for Medical Science, Stockholm, Sweden
 1992-1994 – Member, Juvenile Diabetes Research Foundation - Grant Reviewer
 1992 - Council Member - Cell Transplantation Society
 1993 - Council Member - International Pancreas & Islet Transplantation Association
 1994 - Elected to Membership of the American Surgical Society
 2010 - David Scharp, PI, *Human Islets for Research & Distribution*, Prodo Laboratories, Inc. Award #20-5534494, National Institutes of Health & Internal Revenue Service, Qualifying Therapeutic Discovery Grant
 2010 - David Scharp, PI, *Human Islet Expansion*, Prodo Laboratories, Inc. Award #20-5534495, National Institutes of Health & Internal Revenue Service, Qualifying Therapeutic Discovery Grant
 2011 – David Scharp, PI, *Novel Thermal Reversible Polymer (TRG) for Human Islet Encapsulation and Implantation*. SBIR & NIDDK, NIH Phase I Grant

#1R43DK093333-01 - 09/27/2011 – 08/31/2012 Prodo Laboratories, Inc

Memberships in Societies (Former & Current):

American College of Surgeons
American Diabetes Association
American Federation of Clinical Research
American Pancreatic Association
American Society for Artificial Internal Organs
American Surgical Association
Association for Academic Surgery
Society of University Surgeons
Tissue Culture Association
American Society of Transplant Surgeons
The Cell Transplantation Society
International Pancreas & Islet Transplantation Association

Patents:

Issued:

1. 1989 - USPTO #4,868,121 "Islet Isolation Process" Scharp, D.W., Lacy, P.E., Finke, E.H., Poteat, J.
2. 1992 – USPTO #5,079,160 (1992) "Method to Isolate Clusters of Cell Sub-Types from Organs" Lacy, P.E., Scharp, D.W., Ricordi, C.
3. 1994 - USPTO #5,322,790 (1994) "Islet Isolation Process" Scharp, D.W., Lacy, P.E., Finke, E.H., Poteat, T.J.
4. 1998 – USPTO #5,798,113 "Implantable Biocompatible Immunoisulatory Vehicle for Delivery of Selected Therapeutic Products" Dionne, K.E., Emerich, D.F., Hoffman, D., Sanberg, P.R., Christenson, L., Hegre, O.D., Scharp, D.W., Lacy, P.E., Aebischer, P., Vasconcellos, A.V., Lysaght, M.J., Gentile, F.T.
5. 1998 – USPTO #5,800,828 "Implantable Biocompatible Immunoisulatory Vehicle for Delivery of Selected Therapeutic Products" Dionne, K.E., Emerich, D.F., Hoffman, D., Sanberg, P.R., Christenson, L., Hegre, O.D., Scharp, D.W., Lacy, P.E., Aebischer, P., Vasconcellos, A.V., Lysaght, M.J., Gentile, F.T.
6. 1998 – USPTO #5,800,829 "Methods for Coextruding Immunoisulatory Implantable Vehicles with a Biocompatible Jacket and a Biocompatible Matrix Core" Dionne, K.E., Emerich, D.F., Hoffman, D., Sanberg, P.R., Christenson, L., Hegre, O.D., Scharp, D.W., Lacy, P.E., Aebischer, P., Vasconcellos, A.V., Lysaght, M.J., Gentile, F.T.
7. 1999 – USPTO #5,869,077 "Methods for Treating Diabetes by Delivering Insulin from Biocompatible Cell Containing Devices" Dionne, K.E., Emerich, D.F., Hoffman, D., Sanberg, P.R., Christenson, L., Hegre, O.D., Scharp, D.W., Lacy, P.E., Aebischer, P., Vasconcellos, A.V., Lysaght, M.J., Gentile, F.T.
8. 1999 - USPTO #5,871,767 "Methods for Treatment or Prevention of Neurodegenerative Conditions Using Immunoisulatory Implantable Vehicles with a Biocompatible Jacket and a Biocompatible Matrix Core" Dionne, K.E.,

Emerich, D.F., Hoffman, D., Sanberg, P.R., Christenson, L., Hegre, O.D., Scharp, D.W., Lacy, P.E., Aebischer, P., Vasconcellos, A.V., Lysaght, M.J., Gentile, F.T.

9. 1999 - USPTO #5,874,099 "Methods for Making Immunoisulatory Implantable Vehicles with a Biocompatible Jacket and a Biocompatible Matrix Core" Dionne, K.E., Emerich, D.F., Hoffman, D., Sanberg, P.R., Christenson, L., Hegre, O.D., Scharp, D.W., Lacy, P.E., Aebischer, P., Vasconcellos, A.V., Lysaght, M.J., Gentile, F.T.
10. 1999 – USPTO #5,916,554 "Use of Pouch for Implantation of Living Cells" Dionne, K.E., Scharp, D.W.
11. 2000 – USPTO #6,083,523 "Implantable biocompatible immunoisulatory vehicle for the delivery of selected therapeutic products" Dionne, K, Emerich, D, Hoffman, D, Sanberg, P, Christenson, L, Hegre, O, Scharp, D, Lacy, P, Aebischer, P, Vasconcello, A, Lysaght, M, Gentile, F.
12. 2001 – USPTO #6,322,804 "Implantable biocompatible immunoisulatory vehicle for the delivery of selected therapeutic products" Dionne, K, Emerich, D, Hoffman, D, Sanberg, P, Christenson, L, Hegre, O, Scharp, D, Lacy, P, Aebischer, P, Vasconcello, A, Lysaght, M, Gentile, F.
13. 2005 – USPTO #6,960,351 "Implantable biocompatible immunoisulatory vehicle for delivery of selected therapeutic products" Dionne, K, Emerich, D, Hoffman, D, Sanberg, P, Christenson, L, Hegre, O, Scharp, D, Lacy, P, Aebischer, P, Vasconcello, A, Lysaght, M, Gentile, F.
14. 2008 - USPTO #7,427,415 "Implantation of Encapsulated Biological Materials for Treating Diseases" Scharp, DW, Latta, P, Yue, C, Yu, X, Hubbell, J.

Patent Applications:

1. USPTO #13/843,034 "Composition of Cells Media, and Methods Thereof", David W. Scharp, MD, Scharp Technologies, March 15, 2013.
2. USPTO #PCT/US2013/035329 "Compositions and Methods for Tissue Storage" David W. Scharp, MD, Prodo Laboratories, Inc, April 4, 2013
3. USPTO #14/052,003 "Systems, Processes, Methods and Machines for Transforming Image Data into Sizing and Volume Measurements for Tissue," Roy McCord, October 11, 2013
4. USPTO #PCT/US2014/028884 "Compositions of Cells, Media and Methods Thereof," David W. Scharp, MD, Scharp Technologies, March 14, 2014.
5. USPTO #14/390,563 "Novel Enhanced Compositions and Methods for Tissue Storage," David W. Scharp, MD, October 3, 2014

6. USPTO #61/949,147 "Novel Enhanced Coating for Cells, Reagents and Methods," David W. Scharp, MD and Alexander Gorkovenko, March 6, 2014.

Recent Peer-Reviewed Presentations & Publications:

IPITA 2013 Meeting, Carmel, CA – Sept 25-27, 2013, Oral Presentations

1. "Human Islets in Minimal Volume Capsules Utilizing a Novel Glucose Polymer", Alex Gorkovenko, David Scharp, Gowri Arulmoli, Peyman Taeidi, Eva Albert, Hannah Sunshine, Cory Kucera, Alina Avakian, Daniel McRaney, David Bondurant, Brian Haight, Mike Magaldi, Prodo Laboratories
2. "Survival and Function of Human Islets Cultured for 4 Weeks Post-Processing" David Scharp, Gowri Arulmoli, Peyman Taeidi, Eva Albert, Alina Avakian, Hannah Sunshine, Cory Kucera, Daniel McRaney, David Bondurant, Brian Haight, Mike Magaldi, Prodo Laboratories
3. "*In vitro* Islet Function of Isolated Human Islets from Type 2 Diabetic Donors" David Scharp, Gowri Arulmoli, Peyman Taeidi, Eva Albert, Cory Kucera, Hannah Sunshine, Alina Avakian, Daniel McRaney, David Bondurant, Brian Haight, Mike Magaldi, Prodo Laboratories
4. "Critical Donor and Processing Variables for Quality Human Islet Recovery" David Scharp, Gowri Arulmoli, Alina Avakian, Peyman Taeidi, Eva Albert, Cory Kucera, Hannah Sunshine, Daniel McRaney, David Bondurant, Brian Haight, Mike Magaldi, Prodo Laboratories
5. "The Use of Novel Decalin Beads During Collection for Human Islet Preservation and Function" David Scharp, Gowri Arulmoli, Hannah Sunshine, Peyman Taeidi, Eva Albert, Alina Avakian, Cory Kucera, Daniel McRaney, David Bondurant, Brian Haight, Mike Magaldi, Prodo Laboratories
6. "Multi-Analysis of Islet Culture Variables for Human Islet Culture Optimization" David Scharp, Gowri Arulmoli, Eva Albert, Cory Kucera, Hannah Sunshine, Alina Avakian, Peyman Taeidi, Daniel McRaney, David Bondurant, Brian Haight, Mike Magaldi, Prodo Laboratories

World Stem Cell Summit, San Diego, CA, December, 2013, Abstract #33264, Poster Presentation

1. "Nutrient and Metabolite Documentation for Standardization of Mesenchymal Stem Cell (MSC) Cultures Using the CEDEX Bio" David W. Scharp, MD, Gowri Arulmoli, Eva Albert, Peyman Taeidi, Hannah Sunshine, Cory Kucera, Daniel McRaney, Scharp Technologies

Recent Review Articles:

David W. Scharp, MD & Piero Marchetti, MD, PhD "Encapsulated Islets for Diabetes Therapy: History, Current Progress, and Critical Issues Requiring Solution," Advanced Drug Delivery Reviews, (2014) Vol. 67-68, pp35-73. As Chapter in "Cell Encapsulation and Drug Delivery," Ed. Paul de Voss, Advanced Drug Delivery Reviews, Vol 67-68, pp 1-154, April 12, 2014.

Publications :

Peer Reviewed Articles :

1. Merrick, A.W., Scharp, D.W. - Electroencephalography of resting behavior in cattle, with observations on the question of sleep, Am. J. Vet. Res., 32:1893-1897, 1971

2. Knight, M.J., Scharp, D.W., Kemp, C.B., Ballinger, W.F., Lacy, P.E. - Effects of cold storage on the function of isolated pancreatic islets, *Cryobiology*, 10:89-90, 1973
3. Kemp, C.B., Scharp, D.W., Knight, M.J., Ballinger, W.F., Lacy, P.E. - Importance of implantation site of pancreatic islet isografts in treatment of experimental diabetes, *Surgical Forum* 24:297-299, 1973
4. Kemp, C.B., Knight, M.J., Scharp, D.W., Lacy, P.E., Ballinger, W.F. - Transplantation of isolated pancreatic islets into the portal vein of diabetic rats, *Nature* 244:447, 1973
5. Scharp, D.W., Kemp, C.B., Knight, M.J., Ballinger, W.F., Lacy, P.E. - The use of Ficoll in the preparation of viable islets of Langerhans from the rat pancreas, *Transplantation* 16:686-689, 1973
6. Kemp, C.B., Knight, M.J., Scharp, D.W., Ballinger, W.F., Lacy, P.E. - Effect of transplantation site on the results of pancreatic islet isografts in diabetic rats, *Diabetologia* 9:489-491, 1973
7. Scharp, D.W., Murphy, J.J., Newton, W.T., Ballinger, W.F., Lacy, P.E. - Transplantation of islets of Langerhans in diabetic Rhesus monkeys, *Surgery* 77:100-105, 1975
8. Scharp, D.W., Murphy, J.J., Newton, W.T., Ballinger, W.F., Lacy, P.E. - Application of an improved isolation technique for islet transplantation in primates and rats, *Transplant. Proc.* 6(1):739-741, 1975
9. Feldman, S., Hirshberg, G., Dodi, G., Raizman, M., Scharp, D., Ballinger, W., Lacy, P.E. - Intrasplenic islet isografts, *Surgery* 82:386-394, 1977
10. Karl, R.C., Scharp, D.W., Ballinger, W.F., Lacy, P.E. - Transplantation of insulin-secreting tissues, *J British Society Gastroenterology - GUT* 18:1062-1072, 1977
11. Griffith, R.C., Scharp, D.W., Hartman, B.K., Ballinger, W.F., Lacy, P.E. - A morphologic study of intrahepatic portal vein islet isografts, *Diabetes* 26:201-214, 1977
12. Feldman, S., Scharp, D., Hirshberg, G., Dodi, G., Ballinger, W., Lacy, P.E. - Streptozotocin-induced liver tumors, *Transplantation* 24:152-154, 1977
13. Feldman, S., Dodi, G., Haid, K., Scharp, D., Ballinger, W., Lacy, P.E. - Artificial hybrid pancreas, *Surgical Forum* 28:439-441, 1977
14. Scharp, D.W., Merrell, R.C., Feldman, S.D., Downing, R., Lacy P.E., Ballinger, W. - The use of gyrotational culture for the preservation of isolated islets, *Surgical Forum* 29:100-102, 1978
15. Krupin, T., Waltman, S.R., Scharp, D.W., Oestrich, G., Feldman, S.D., Becker, D., Ballinger, W.F., Lacy, P.E. - Ocular fluorophotometry in experimental diabetes mellitus: The effect of pancreatic islet isografts, *Investigative Ophthalmology & Visual Science* 18:1185-1190, 1979
16. Downing, R., Scharp, D.W., Ballinger, W.F. - An improved technique for the isolation and identification of mammalian islets of Langerhans, *Transplantation* 29:79-83, 1980
17. Lacy, P.E., Davie, J.M., Finke, E.H., Scharp, D.W. - Prolongation of islet allograft survival, *Transplantation* 27:171-174, 1979
18. Scharp, D.W., Downing, R., Merrell, R.C., Grieder, M. - Isolating the elusive islet, *Diabetes* 29(1):19-30, 1980
19. Downing, R., Scharp, D.W., Merrell, R.C., Grieder, M., Ballinger, W.F. - Venous versus ductal distension of the dog pancreas for isolation of islets, *Surgical Forum* 30:422-424, 1979

20. Merrell, R.C., Scharp, D.W., Gingerich, R., Feldmeier, M.M., Grieder, M., Downing, R. - New approaches to the separation of islet cells, *Surgical Forum* 30:303-305, 1979
21. Feldman, S.D., Scharp, D.W., Lacy, P.E., Ballinger, W.F. - Fetal pancreas isografts, cultured and uncultured, to reverse streptozotocin induced diabetes mellitus, *J. Surgical Research* 29:309-318, 1980
22. Grieder, M.H., Gingerich, R.L., Scharp, D.W. - In Vitro studies of canine pseudo-islets. UCLA Symposium - Cellular Basis of Chemical Messengers in the Digestive System", Los Angeles, January 16-18, 1980
23. Silberberg, R., Scharp, D.W., Lesker, P.A. - Biochemical studies of bone from diabetic rats and rats bearing transplanted pancreatic islets, *Experimental Cell Biology* 49:61-67, 1981
24. Rajotte, R.V., Scharp, D.W., Downing, R., Preston, R., Molnar, G.D., Ballinger, W.F. - Pancreatic islet banking: the transplantation of frozen-thawed rat islets transported between Centers, *Cryobiology* 18:357-369, 1981
25. Britt, L.D., Scharp, D.W. - Formation of pseudo-islets from neonatal pig pancreas, *Surgical Forum* 31:354-356, 1980
26. Britt, L.D., Stojeba, P.C., Scharp, C.R., Grieder, M.H., Scharp, D.W. - Neonatal pig pseudo-islets: A product of selective aggregation, *Diabetes* 30:580-583, 1981
27. Britt, L.D., Scharp, D.W., Lacy, P.E., Slavin, S. - Transplantation of islet cells across major histocompatibility barriers after total lymphoid irradiation and infusion of allogeneic bone marrow cells, *Diabetes* 31:36-38, 1982
28. Bergen, J., Mason, N.S., Scharp, D.W., Sparks, R.E. - Insulin inhibition of islets in transplantation chambers, *Artificial Organs* 5:787-791, 1981
29. Paquette, T.L., Gingerich, R., Scharp, D.W. - Altered amidation of pancreatic polypeptide in culture, *Biochemistry* 20:7403-7408, 1981
30. Schmidt, R.E., Scharp, D.W. - Axonal dystrophy in experimental diabetic autonomic neuropathy, *Diabetes* 31:761-770, 1982
31. Yasunami, Y., Lacy, P.E., Scharp, D.W., Britt, L.D. - Isolation and transplantation of islet cells from the neonatal pig pancreas, *Surgical Forum* 33, 359-361, 1982
32. Gingerich, R.L., Scharp, D.W., Grieder, M.H., Dye, E.S., Mousel, K.A. - A new in vitro model for studies of pancreatic polypeptide secretion and biochemistry, *Regulatory Peptides* 5:13-25, 1982
33. Scharp, D.W., Long, J.A. - Studies of islet isolation and transplantation, *Cryobiology* 20:129-137, 1983
34. Long, J.A., Britt, L.D., Olack, B.J., Scharp, D.W. - Autotransplantation of isolated canine islets, *Transplant Proc.* 15:1332-1338, 1983
35. Schmidt, R.E., Santiago, B.P., Olack, B.J., Scharp, D.W. - The effect of pancreatic islet transplantation and insulin therapy on experimental diabetic autonomic neuropathy, *Diabetes* 32:532-540, 1983
36. Giddings, S.J., Rotwein, P., Chirgwin, J.M., Scharp, D.W., Permutt, M.A. - Analysis of insulin gene expression in human pancreas, *Diabetes* 32:777-780, 1983
37. Scharp, D.W. - Isolation and transplantation of islet tissue, *World J. of Surgery* 8:143-151, 1984
38. Scharp, D.W., Mason, N.S., Sparks, R.E. - Islet immunoisolation: the use of hybrid artificial organs to prevent islet tissue rejection, *World J. of Surgery* 8:221-229, 1984

39. Scharp, D.W. - Clinical feasibility of islet transplantation, *Transplant Proc.* 16(3):820-825, 1984
40. Heiken, J.P., Balfe, D.M., Picus, D., Scharp, D.W. - Radical pancreatectomy: Postoperative evaluation by CT, *Radiology* 153:211-215, 1984
41. Martin, K.W., Morian, J.P., Jr., Lee, J.K.T., Scharp, D.W. - Demonstration of splenic artery pseudoaneurysm by Magnetic Resonance Imaging, *J. of Computer Assisted Tomography* 9(1):190-192, 1985
42. Downing, R., Morrissey, S., Kiske, D., Scharp, D.W. - Does the purity of intraportal islet isografts affect their endocrine function?, *J. Surg. Research* 41(1):41-46, 1986
43. Scharp, D.W., Lacy, P.E., Alderson, D., Kneteman, N.M. - The procurement and distribution of cadaver human pancreas for islet isolation and transplantation. *The Use of Human Tissues and Organs for Research and Transplant: Proceedings of the Second International Conference: National Diabetes Research Interchange* April 1986:61-70
44. Scharp, D.W., Alderson, D., Kneteman, N.M. - Optimization of islet preparations for clinical transplantation. *Transplant Proc.* 18(6):1814-1816, 1986
45. Kneteman, N.M., Alderson, D., Scharp, D.W. - Cyclosporine A immunosuppression of allotransplanted canine pancreatic islets, *Transplant. Proc.*, 19(1):950-951, 1987
46. Alderson, D., Kneteman, N.M., Scharp, D.W. - The isolation of purified human islets of Langerhans, *Transplant Proc.* 19(1):916-917, 1987
47. Hymer, W.C., Scharp, D.W., et al. - Continuous flow electrophoretic separation of proteins and cells from mammalian tissues, *Cell Biophysics* 10:61-85, 1987
48. Scharp, D.W., Alderson, D., Kneteman, N.M. - The effect of immunosuppression on islet transplant function in the dog, *Transplant Proc.* 19(1) 952-953, 1987
49. Alderson, D., Kneteman, N.M., Olack, B.J., Scharp, D.W. - Isolation and quantification of canine islet tissue for transplantation, *Transplantation* 43(4):579-581, 1987
50. Kneteman, N.M., Alderson, D., Scharp, D.W. - The isolation and purification of human pancreatic islets, *Transplant Proc.* 19(4):3469-3470, 1987
51. Scharp, D.W., Lacy, P.E., Finke, E., Olack, B.J. - Low-temperature culture of human islets isolated by the distention method and purified with Ficoll or Percoll gradients, *Surgery* 102:869-879, 1987
52. Kneteman, N.M., Alderson, D., Scharp, D.W. - Long-term normoglycemia in pancreatectomized dogs following pancreatic islet allotransplantation and cyclosporine immunosuppression, *Transplantation* 44(5):595-599, 1987
53. Fonseca, P., Scharp, D.W. - Use of oxygen free radical scavengers to increase the yields of isolated rat islets after pancreatic warm ischemia, *Surgical Forum* 38:371-373, 1987
54. Ricordi, C., Lacy, P.E., Finke, E.H., Olack, B.J., Scharp, D.W. - Automated method for isolation of human pancreatic islets, *Diabetes* 37:413-420, 1988
55. Turk, J., Hughes, J.H., Easom, R.A., Wolf, B.A., Scharp, D.W., Lacy, P.E., McDaniel, M.L. - Arachidonic acid metabolism and insulin secretion by isolated human pancreatic islets, *Diabetes* 37:992-996, 1988

56. Corlett, M.P., Alderson, D., Kneteman, N.M., Scharp, D.W. - Long-term normoglycemia in canine islet autografts, *Transplant Proc* 20 (Suppl. 1):896-897, 1988
57. Corlett, M.P., Scharp, D.W., Lacy, P.E. - Microbial contamination risks in human islet isolation, *Transplant Proc* 20 (Suppl. 1):894-895, 1988
58. Ricordi, C., Scharp, D.W., Lacy, P.E. - Reversal of diabetes in nude mice after transplantation of fresh and 7 day cultured (24°C) human pancreatic islets, *Transplantation* 45:994-996, 1988
59. Ricordi, C., Scharp, D.W., Lacy, P.E. - Mass isolation of human pancreatic islets for transplantation. Proceedings from XXVI World Congress of the International College of Surgeons, Milan, Italy, July 3-9, 1988, Monduzzi Editore S.p.A.
60. Corlett, M.P., Scharp, D.W. - The effect of pancreatic warm ischemia on islet isolation in rats and dogs, *J. Surg. Research*, 45:531-536, 1988
61. Ricordi, C., Kneteman, N.M., Scharp, D.W., Lacy, P.E. - Transplantation of cryopreserved human pancreatic islets into diabetic nude mice, *World J. Surgery* 12:861-865, 1988
62. Misler, S., Gee, W.M., Gillis, K.D., Scharp, D.W., Falke, L.C. - A metabolite-regulated ATP-sensitive K⁺ channel in human pancreatic islet cells, *Diabetes* 38:422-427, 1989
63. Scharp, D.W., Lacy, P.E., Ricordi, C., Boyle, P., Santiago, J., Cryer, P., Gingerich, R., Jaffe, A., Anderson, C.B., Flye, M.W. - Human islet transplantation in patients with Type 1 diabetes, *Transplant Proc* 21 (No. 1):2744-2745, February 1989
64. Scharp, D.W. - Islet Transplantation, *Diabetes* 38: (Suppl. 1):323-325, 1989
65. Ricordi, C., Lacy, P.E., Scharp, D.W. - Automated islet isolation from human pancreas, *Diabetes* 38 (Suppl. 1):140-142, 1989
66. Kneteman, N.M., Alderson, D., Scharp, D.W., Lacy, P.E. - Prolonged cyropreservation of purified human pancreatic islets, *Diabetes* 38:176-178, 1989
67. Kneteman, N.M., Alderson, D., Scharp, D.W., Lacy, P.E. - Long-term cryogenic storage of purified adult human islets of Langerhans, *Diabetes* 38:386-396, 1989
68. Brelje, T.C., Scharp, D.W., Sorenson, R.L. - Three-dimensional imaging of intact, isolated islets of Langerhans using Confocal microscopy, *Diabetes* 38:808-814, 1989
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