

Address:

David W. Scharp, MD
 Prodo Laboratories, Inc
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 Aliso Viejo, Ca 92656
 (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 – 2015 – Lecturer for Global Entrepreneurs Class – #IS-189, Department of International Studies, School of Social Sciences, UCI, Irvine, CA

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 – 2006 - 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

2008 to Present - Founder – The Scharp-Lacy Research Institute, Irvine, CA – formerly Invenio Institute
2007 to 2012 - Consultant – Beta O₂, Tel Aviv, Israel
2008 – 2009 – Scientific Advisory Board – Micro-Islet, Inc, San Diego, CA
2008 to 2011– Scientific Advisory Board – Pan-Medics, Costa Mesa, CA
2010 - 2011 - Acting Chief Medical Officer – Pan-Medics, Costa Mesa, CA
2010 to Present – Founder – Scharp Technologies, Irvine, CA
2011 to 2015 - Consultant – Betalogics, Inc, Division of Johnson & Johnson
2012 to 2014 – Consultant – Didimi, Inc., San Francisco, CA
2013 to Present – Senior Advisor to International Pancreas & Islet Transplantation Association
2013 to Present – Advisor to JDRF Encapsulation Consortium
2015 to Present – Advisor to TransCelerate Advisory Committee for Encapsulated Islets

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 – 2008 – Chief Executive Officer & President – Invenio Institute, Irvine, Ca
2006 to Present – Chief Executive Officer & President – Prodo Laboratories, Inc, 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:

1962-1963 – President of the State of Illinois High Schools Student Council, Eureka, IL
1967-1970 – President of Medical Student Class of 1970, Washington University School of Medicine, St. Louis, MO
1977-1982 – Recipient, NIH Research Career Development Award, Department of Surgery, Washington University School of Medicine
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:

- 1989 - USPTO #4,868,121 "Islet Isolation Process" Scharp, D.W., Lacy, P.E., Finke, E.H., Poteat, J.
- 1992 – USPTO #5,079,160 (1992) "Method to Isolate Clusters of Cell Sub-Types from Organs" Lacy, P.E., Scharp, D.W., Ricordi, C.
- 1994 - USPTO #5,322,790 (1994) "Islet Isolation Process" Scharp, D.W., Lacy, P.E., Finke, E.H., Poteat, T.J.
- 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.
- 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.
- 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.

- 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.
- 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.
- 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.
- 1999 – USPTO #5,916,554 “Use of Pouch for Implantation of Living Cells” Dionne, K.E., Scharp, D.W.
- 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.
- 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.
- 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.
- 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 #PCT/US2014/028884 "Compositions of Cells, Media and Methods Thereof," David W. Scharp, MD, Scharp Technologies, March 14, 2014.

4. USPTO #14/390,563 "Novel Enhanced Compositions and Methods for Tissue Storage," David W. Scharp, MD, October 3, 2014
5. 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 (Assigned to Prodo Labs)
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 Publications & Presentations:

Abstracts :

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

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
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
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
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
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
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

IPITA 2015 Meeting, Melbourne - November, 2015

1. Advances in Human Islet Processing Towards Stable and Predictable Outcomes" David Scharp, Gowri Arulmoli, Hannah Sunshine

Recently Published 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*, 67-68: 35-73, August, 2013.

Tamaki, S., Nye, C., Slorach, E., Scharp, D., Blau, H.M., Whiteley, P., Pomerantz, J.H. – "Simultaneous silencing of multiple RB and p53 pathway members induces cell cycle reentry in intact human pancreatic islets." *BMC Biotechnology* 14:86, 2014.

Submitted Articles:

Scharp, D.W., Stabler, C., Matsumoto, S., Ludwig, B., Markmann, J.- Islet Encapsulation – An ongoing development challenge. *Transplantation*, 2014.

Report from IPITA-TTS Opinion Leaders Meeting on the Future of b-Cell Replacement

Stephen T. Bartlett, MD,¹ James F. Markmann, MD, PhD,² Paul Johnson, MD,³ Olle Korsgren, MD,⁴ Bernhard J. Hering, MD,⁵ David Scharp, MD,^{6,7} Thomas W.H. Kay, MD,⁸ Jonathan Bromberg, MD, PhD,² Jon S. Odorico, MD, PhD,⁹ Gordon C. Weir, MD,¹⁰ Nancy Bridges, MD,¹¹ Raja Kandaswamy, MD,⁵ Peter Stock, MD, PhD,¹² Peter Friend, MD,³ Mitsukazu Gotoh, MD,¹³ David K.C. Cooper, MD,¹⁴ Chung-Gyu Park, MD,¹⁵ Phillip O'Connell, MD,¹⁶ Cherie Stabler, PhD,¹⁷ Shinichi Matsumoto, MD,¹⁸ Barbara Ludwig, MD,¹⁹ Pratik Choudhary, MD,²⁰ Boris Kovatchev, MD,²¹ Michael R. Rickels, MD,²² Megan Sykes, PhD,²³ Kathryn Wood, MD, PhD,³ Kristy Kraemer, MD,²⁴ Albert Hwa, PhD,²⁵ Edward Stanley, MD,^{26,27} Camillo Ricordi, MD,¹⁷ Mark Zimmerman, MD,²⁸ Julia Greenstein, PhD,²⁹ Eduard Montanya, MD,³⁰ and Timo Otonkoski, MD³¹

Scharp, D.W., Arulmoli, J., Sunshine, H., "Advances in Human Islet Processing towards Stable Manufacturing Resulting in Predictable Islet Outcomes." *Plos One*, 2015, submitted.

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. Mislser, 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
69. Schmidt, R.E., Plurad, S.B., Olack, B.J., Scharp, D.W. - The effect of pancreatic islet transplantation and insulin therapy on neuroaxonal dystrophy in sympathetic autonomic ganglia of chronic Streptozotocin diabetic rats, *Brian Research* 497:393-398, 1989
70. Callery, M.P., Ricordi, C., Scharp, D.W., Kamei, T., Swanson, C.J., Lacy, P.E., Flye, M.W. - Hepatic insufficiency following portacaval shunting is prevented by prior intraportal pancreatic islet autotransplantation. *Surgery* 106:257-266, 1989
71. Dotta, F., Colman, P.G., Nayak, R.C., Lombardi, D., Scharp, D.W., Andreani, D., Pontieri, G.M., di Mario, U., Lenti, L., Eisenbarth, G.S. - Ganglioside expression in human pancreatic islets, *Diabetes* 38:1478-1483, 1989
72. Permutt, M.A., Koranyi, L., Keller, K., Lacy, P.E., Scharp, D.W., Mueckler, M. - Cloning and functional expression of a human pancreatic islet glucose-transporter cDNA, *Proc Natl Acad Sci USA* 86:8688-8692, 1989
73. Callery, M.P., Kamei, T., Flye, M.W., Davis, C.G., Swanson, C.J., Olack, B.J., Lacy, P.E., Scharp, D.W. - Intrahepatic islet autografts in dogs function despite completely diverting portacaval shunt, *Transplant Proc* 22:767-770, 1990
74. Scharp, D.W., Lacy, P.E., Santiago, J.V., McCullough, C.S., Weide, L.G., Falqui, L., Marchetti, P., Gingerich, R.L., Jaffe, A.S., Cryer, P.E., Anderson, C.B., Flye, M.W. - Insulin independence after islet transplantation into Type 1 diabetic patient, *Diabetes* 39:515-518, 1990

75. Atkinson, M.A., Maclaren, N.K., Riley, W.J., Scharp, D.W., Lacy, P.E. - 64,000 Mr autoantibodies as predictors of insulin dependent diabetes, *Lancet* 335:1357-1360, 1990
76. Scharp, D.W., Olack, B.J., Swanson, C.J., Marchetti, P. - Normal reproductive function in dogs with islet autograft, *Transplant Proc* 22(5):2403-2404, 1990
77. Chern, H.T., Scharp, D.W. - Viability assessment of cryopreserved canine islets *in vivo*, *Endocrine Surgery* 7(3):355-360, 1990
78. Medoff, G., Sagal, S., Krogstad, D., Peters, M., Hogan, J., Scharp, D. - Clinical Pathology Conference - Abdominal pain, fever, and weight loss in a 61 year-old Arabian Man, *Am J Medicine* 89:83-90, 1990
79. Ricordi, C., Gray, D.W.R., Hering, B.J., et al - Islet isolation assessment in man and large animals, *Acta Diabetol. Lat.* 27:185-195, 1990
80. Atkinson, M.A., Maclaren, N.K., Holmes, L., Scharp, D.W., Lacy, P.E., Riley, W.J. - The natural history and predictive value of Mr 64,000 autoantibodies for insulin-dependent diabetes mellitus, *J Autoimmunity* 3:41-45, 1990
81. Atkinson, M.A., Holmes, L.H., Scharp, D.W., Lacy, P.E., Maclaren, N.K. - No evidence for serological autoimmunity to islet cell heat shock proteins in insulin dependent diabetes, *J Clin Invest* 87:721-724, 1991
82. Scharp, D.W., Lacy, P.E., Santiago, J.V., McCullough, C.S., Weide, L.G., Boyle, P.J., Falqui, L., Marchetti, P., Ricordi, C., Gingerich, R.L., Jaffe, A.S., Cryer, P.E., Hanto, D.W., Anderson, C.B., Flye, M.W., - Results of our first nine intraportal islet allografts in Type 1, insulin-dependent diabetic patients, *Transplantation* 51:76-85, 1991
83. Finke, E., Marchetti, P., Falqui, L., Swanson, C., McLearn, M., Olack, B., Scharp, D.W., Lacy, P.E. - Large scale isolation, function and transplantation of islets of Langerhans from the adult pig pancreas, *Transplant Proc* 23(1):772-773, 1991
84. Olack, B., Swanson, C., McLearn, M., Longwith, J., Scharp, D.W., Lacy, P.E. - Islet purification using Euroficoll gradients, *Transplant Proc* 23(1):774-776, 1991
85. Scharp, D.W., Lacy, P.E., Weide, L.G., Marchetti, P., McCullough, C.S., Flavin, K., Santiago, J.V. - Intraportal islet allografts: the use of a stimulation index to represent functional results, *Transplant Proc* 23(1):796-798, 1991
86. Falqui, L., Finke, E.H., Carel, J.C., Scharp, D.W., Lacy, P.E. - Marked prolongation of human islet xenograft survival (human to mouse) by low-temperature culture and temporary immunosuppression with human and mouse anti-lymphocyte sera, *Transplantation* 51:1322-1324, 1991
87. Scharp, D.W., Lacy P.E. - The clinical feasibility of human islet transplantation, *Clinical Diabetes* 42-45, May/June, 1991
88. Marchetti, P., Finke, E.H., Gerasimidi-Vazeou, A., Falqui, L., Scharp, D.W., Lacy P.E.- Automated large scale isolation, *in vitro* function and xenotransplantation of porcine islets of Langerhans, *Transplantation* 52:209-213, 1991
89. Kowalski, L., Falqui, L., Lacy, P.E., Scharp, D.W. - Production of marked prolongation of survival of canine islet xenografts in mice by antilymphocyte sera and L3T4 antibody, *Transplantation* 52:1094-1097, 1991
90. Marchetti, P., Swanson, C., McLearn, M., Finke, E.H., Gerasimidi-Vazeou, A., Scharp, D.W., Lacy, P.E. - In vitro function and xenotransplantation of long-term (3 weeks) cultured porcine islets of Langerhans, *Transplant Proc* 24(2):637, 1992

91. Kneteman, N.M., Marchetti, P., Tordjman, K., Bier, D.M., Santiago, J.V., Swanson, C.J., Olack, B.J., Scharp, D.W. - Effect of cyclosporine on insulin secretion and insulin sensitivity in dogs with intrasplenic islet autotransplants, *Surgery* 111(4):430-437, 1992
92. Scharp, D.W., Marchetti, P., Swanson, C.J., Newton, M., McCullough, C.S., Olack, B.J. - The effect of transplantation site and islet mass on long-term survival and metabolic and hormonal function of canine purified islet autografts, *Cell Transplantation* 1:245-254, 1992
93. Mislér, S. Barnett, D.W., Pressel, D.M., Gillis, K.D., Scharp, D.W., Falke, L.C. - Stimulus-secretion coupling in B cells of transplantable human islets of Langerhans: evidence for a critical role for Ca²⁺ entry, *Diabetes* 41:662-670, 1992
94. Marchetti, P., Scharp, D.W., Longwith, J.E., Swanson, C.J., Olack, B.J., Gerasimidi-Vazeou, A., Finke, E.H., Lacy, P.E. - Prevention of contamination of isolated porcine islets of Langerhans, *Transplantation* 53(6):1364-1366, 1992
95. Olack, B.J., Hill, A., Scharp, D.W., Lacy, P.E. - Automated purification of canine islets, *Transplant Proc* 24(3):1003-1004, 1992
96. Marchetti, P., Pfiffner, K., Scharp, D.W., Lacy, P.E., Gerasimidi-Vazeou, A., Finke, E.H. - Successful cryopreservation of porcine pancreatic islets, *Transplant Proc* 24(3):1005-1006, 1992
97. Scharp, D.W., Lacy, P.E., McLearn, M., Longwith, J.E., Olack, B.J. - The bioburden of 590 consecutive human pancreata for islet transplant research, *Transplant Proc* 24(3):974-975, 1992
98. McLearn, M., Marchetti, P., Finke, E., Gerasimidi-Vazeou, A., Scharp, D.W., Lacy, P.E. - Porcine islet function: Effects of arginine, Leucine, and Butyrate, *Transplant Proc* 24(3):980-982, 1992
99. Marchetti, P., Finke, E.H., Swanson, C., Gerasimidi-Vazeou, A., Olack, B., Scharp, D.W., Navalesi, R., Lacy, P.E. - The potential of porcine islet xenotransplantation in the therapy of diabetes, *Diab. Nutr. Metab.* 5 (Suppl 1):151-154, 1992
100. Marchetti, P., Scharp, D.W., Olack, B.J., Swanson, C.J., Bier, D., Colelli, C., Toffolo, G., Newton, M., Navalesi, R. - Glucose metabolism, insulin sensitivity and glucagon secretion in dogs with intraportal or intrasplenic islet autografts, *Transplant Proc* 24(6):2828-2829, 1992
101. Marchetti, P., Olack, B., Swanson, C., Newton, M., Scharp, D.W. - Assessment of long-term (1 year) graft survival and metabolic hormonal changes after intrasplenic canine pancreatic microfragment transplantation, *Diabetes & Metabolism* 19:17-24, 1993
102. Barnett, D.W., Pressel, D.M., Chern, H.T., Scharp, D.W., Mislér, S. - cAMP-Enhancing agents "permit" stimulus-secretion coupling in canine pancreatic islet β -cells, *J. Membrane Biol* 138:113-120, 1994
103. Ansara, M.F., Saudek, F., Newton, M., Cryer, P.E., Scharp, D.W. - Pancreatic islet transplantation prevents defective glucose counter-regulation in diabetic dogs, *Transplant Proc.* 26(2):664-665, 1994
104. Shiroki, R., Poindexter, N., Mohanakumar, T., Scharp, D.W. - Rejection of human islet allografts in human lymphocyte-reconstituted severe combined immunodeficient mice, *Transplant Proc.* 26(2):716-717, 1994
105. Marchetti, P., Scharp, D.W., Finke, E., Swanson, C.J., Gerasimidi-Vazeou, A., Olack, B.J., Navalesi, R., Lacy, P.E. - Effect of different temporary immunosuppressive therapies and low-temperature culture on pancreatic islet xenograft survival (Pig-to-Mouse), *Transplant Proc.* 26(2):760-761, 1994

106. di Carlo, A., Scharp, D.W., Gingerich, R.L., Giannarelli, R., Ansara, M., Olack, B.J., Swanson, C.J., Navalesi, R. - Insulin and glucagon release from isolated, perfused human islets following low-temperature culture and cryopreservation, *Transplant Proc.* 26(2):821-822, 1994
107. Marchetti, P., Scharp, D.W., Pfiffner, K., Swanson, C.J., Finke, E.H., Olack, B.J., Gerasimidi-Vazeou, A., McLearn, M., Lacy, P.E. - Cryogenic storage of isolated, purified porcine pancreatic islets, *Transplantation* 57:340-346, 1994
108. Marchetti, P., Kneteman, N.M., Swanson, C.J., Olack, B.J., Scharp, D.W. - Effect of cyclosporin treatment on metabolic and hormonal responses to mixed meal plus oral glucose in dogs with intrasplenic pancreatic islet autograft, *Experimental Medicine*, In Press
109. Marchetti, P., Scharp, D.W., McLearn, M., Gingerich, R., Finke, E.H., Olack, B.J., Swanson, C.J., Giannarelli, R., Navalesi, R., Lacy, P.E. - Pulsatile insulin secretion from isolated human pancreatic islets, *Diabetes* 43:827-830, 1994
110. Shiroki, R., Poindexter, N.J., Woodle, E.S., Hussain, M.S., Mohanakumar, T., Scharp, D.W. - Human peripheral blood lymphocyte reconstituted severe combined immunodeficient (hu-PBL-SCID) mice: a model for human islet allograft rejection, *Transplantation* 58:1555-1562, 1994
111. Scharp, D.W., Swanson, C.J., Olack, B.J., Latta, P.P., Hegre, O.D., Doherty, E.J., Gentile, F.T., Flavin, K.S., Ansara, M.F., Lacy, P.E. - Protection of encapsulated human islets implanted without immunosuppression in patients with Type I and Type II diabetes and in non-diabetic controls, *Diabetes* 43:1167, 1994
112. Marchetti, P., Scharp, D.W., Finke, E.H., Giannarelli, R., Swanson, C.J., Olack, B.J., Lacy, P.E., Navalesi, R. - Factors affecting in vitro and in vivo function of isolated porcine islets, *Transplant Proc.* 26(6):3419-3420, 1994
113. di Carlo, A., Scharp, D.W., Gingerich, R.L., Ansara, M.F., Olack, B.J., Swanson, C.J., Giannarelli, R., Navalesi, R. - C-peptide secretion from isolated perfused human islets: effect of culture and cryopreservation, *Transplant Proc.* 26(6) 3399, 1994
114. Perdrizet, G.A., Rewinski, M.J., Schweizer, R.T., Scharp, D.W. - Heat shock and recovery protects pancreatic islets from warm ischemic injury, *Transplant Proc.* 26(6) 3477-3478, 1994
115. Marchetti, P., Scharp, D.W., Finke, E., Swanson, C.J., Gerasimidi-Vazeou, A., Olack, B.J., Navalesi, R., Lacy, P.E. - Anti-CD4 antibody treatment in xenografts of differently immunomodulated porcine islets, *Transplant Proc.* 26(3):1132, 1994
116. Brennan, D.C., Scharp, D.W., White, N.H., Flavin, K.S., Zukosky, J.M., Ansara, M.F., Cryer, P.E., Lacy, P.E. - Modification of methodology results in improvements in simultaneous kidney-islet success, *Transplant Proc.* 27(1):1349-1350, 1995
117. Chern, H.T., Scharp, D.W. - Successful long-term cryopreservation of highly purified canine islets, *European Surg Res* 27:167-175, 1995
118. Marchetti, P., Scharp, D.W., Finke, E.H., Swanson, C.J., Olack, B.J., Gerasimidi-Vazeou, A., Giannarelli, R., Navalesi, R., Lacy, P.E. - Prolonged survival of discordant porcine islet xenografts, *Transplantation* 61:1100-1102, 1996
119. Hill, R.S., Cruise, G.M., Hager, S.R., Lamberti, F.V., Yu, X., Garufis, C.L., Yu, Y., Mundwiler, K.E., Cole, J.F., Hubbell, J.A., Hegre, O.D., Scharp, D.W. - Immunoisolation of adult porcine islets for the treatment of diabetes mellitus, *Annals of the NY Academy of Sciences* 831:332-343, 1997

120. Cruise, G.M., Hegre, O.D., Scharp, D.W., Hubbell J.A., - A sensitivity study of the key parameters in the interfacial photopolymerization of poly(ethylene glycol) diacrylate upon porcine islets, *Biotech. Bioeng.* 57:655-665, 1998
121. Cruise, G.M., Scharp, D.W., Hubbell, J.A. - Characterization of permeability and network structure of interfacially photopolymerized poly(ethylene glycol) diacrylate hydrogels, *Biomaterials* 19:1287-1294, 1998
122. Cruise, G.M., Hegre, O.D., Lamberti, F.V., Hager, S.R., Hill, R., Scharp, D.W., Hubbell, J.A. - *In vitro* and *in vivo* performance of porcine islets encapsulated in interfacially photopolymerized poly(ethylene glycol) diacrylate membranes, *Cell Transplantation*, 8:293-306, 1999
123. Scharp, D, Yu, X, Sheckler, V, Hubbell, J, Latta, P. – Clinically relevant results from encapsulated islet allografts implanted subcutaneously in diabetic baboons without long term immunosuppression. *Diabetes* 54: Sup 194-OR, 2005.
124. Scharp, D, Schwartz, S, Mulgrew, P, Albrecht, G, Oberholzer, J, Kuhtreiber, W, Yu, X. – Encapsulated human islet allografts: Phase I / II Clinical Trial. *Diabetes* 55: Sup , 2006.
125. Coutts, M, Hinton, S, Zheng, J, Scharp, DW – Hypothermic storage and preservation of human pancreatic acinar tissue. *In Vitro Cell Dev Biol* 43:2-6, 2007.
126. □W.M. Kühtreiber, L.T. Ho, A. Kamireddy, J.A.W. Yacoub, D.W. Scharp - Islet Isolation From Human Pancreas With Extended Cold Ischemia Time □ *Transplantation Proceedings* □42: 2027-2031, 2010.
127. 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*, 67-68: 35-73, August, 2013.
128. Tamaki, S., Nye, C., Slorach, E., Scharp, D., Blau, H.M., Whiteley, P., Pomerantz, J.H. – “Simultaneous silencing of multiple RB and p53 pathway members induces cell cycle reentry in intact human pancreatic islets.” *BMC Biotechnology* 14:86, 2014.

Review & Chapters:

1. Karl, R., Scharp, D.W., Ballinger, W.F., Lacy, P.E. - Progress Report: transplantation of insulin secreting tissue, *Gut.* 18:1062-1072, 1977
2. Lacy, P.E., Scharp, D.W., Ballinger, W.F. - Transplantation of the islets of Langerhans - future directions. 14th International Congress of Therapeutics, p. 105, L'Expansion Scientifique Francaise, Montpellier, France, 1977
3. Scharp, D.W. - Rejection of islet “isografts” in a strain of Lewis rats, *Transplantation*, 31:229-230, 1981
4. Rajotte, R.V., Scharp, D.W., Molnar, G.D., Preston, R. - Feasibility of low temperature banking for pancreatic islet cell transplantation. In “Islet Isolation, Culture, and Cryopreservation”, Ed. K. Federlin and R.G. Bretzel. Thieme-Stratton, Inc., p. 124-135, 1981
5. Scharp, D.W., Downing, R., Merrell, R.C., Nunnally, S., Kiske, D., Grieder, M.H. - New approaches in the methods for isolating mammalian islets of Langerhans utilizing the dog pancreas. In “Islet Isolation, Culture, and Cryopreservation”. Ed. K. Federlin and R.G. Bretzel. Thieme-Stratton, Inc. p. 9-31, 1981

6. Slavin, S., Britt, L.D., Scharp, D.W., Lacy, P.E. - Treatment of experimental diabetes with histoincompatible islet allografts in rats conditioned with total lymphoid irradiation. In "Diabetic Renal-Retinal Syndrome", Volume 2. Ed. E.A. Friedman and E.A. L'Experance. Grune and Stratton, Inc., NY, p. 519-528, 1982
7. Chen, Y., Mason, N.S., Scharp, D.W., Ballinger, W.F., Sparks, R.E. - Collagenase immobilized on cellulose acetate membranes. In "Biomaterials: Interfacial Phenomena and Applications". Ed. S.L. Cooper and N.A. Peppas, American Chemical Society, Washington, D.C., p. 483-491, 1982
8. Scharp, D.W. - Hybrid Artificial Pancreas Panel Discussion. Transactions of the American Society for Artificial Internal Organs, 28:642-643, 1982
9. Scharp, D.W. - Clinical Feasibility of Islet Transplantation, International Symposium on Organ Transplantation in Diabetes, The Netherlands 1983, Transplant Proc. 16:820-825, 1984
10. Scharp, D.W., Mason, N.S., Sparks, R.E. - The use of hybrid artificial organs to provide immunoisolation to endocrine grafts. In "Bone Marrow & Organ Transplantation", Ed. S. Slavin, Elsevier Science Publishers, New York, p. 601-618, 1984
11. Scharp, D.W., Long, J.A., Feldmeier, M.M., Olack, B.J., O'Shaughnessy, S., Swanson, C.J. - Automated methods for isolating and purifying islet cells from the pancreas. In "Methods in Diabetes Research", Ed. Larner and Pohl, New York, John Wiley & Sons, p. 237-243, 1984
12. Scharp, D.W., Long, J.A., Feldmeier, M.M., Olack, B.J., O'Shaughnessy, S., Swanson, C.J. - Automated methods of mass islet isolation. In "Methods in Diabetes Research", Ed. Larner and Pohl, New York, John Wiley & Sons, p. 225-236, 1984
13. Slavin, S., Weiss, L., Weigensberg, M., Morecki, S., Fuks, Z., Britt, L., Lacy, P.E., Scharp, D.W. - Tolerance to alloantigens in rodents and reversal of streptozotocin-induced diabetes in tolerant rats by histo-incompatible islet allografts. In "Bone Marrow & Organ Transplantation", Ed. S. Slavin, Elsevier Science Publications, New York, 1984
14. Williamson, J.R., Olack, B., Rowald, E.A., Chang, K., Scharp, D.W. - Effects of insulin treatment on collagen crosslinking in streptozotocin diabetic rats. In "Lessons from Animal Diabetes", Eds. E. Shafir and A. Renold, John Libbey, London, 1984, p. 402-404
15. Lacy, P.E., Scharp, D.W. - Islet Transplantation in treating diabetes, Ann. Rev. Med., 37:33-40, 1986
16. Scharp, D.W. - The elusive human islet: Variables involved in its effective recovery. In "Transplantation of the Endocrine Pancreas in Diabetes Mellitus", Eds. R. van Schifgaarde and M.A. Hardy, Elsevier Science Publications, Amsterdam, 1988, p. 97-107
17. Scharp, D.W., Lacy, P.E. - Islet transplantation: a review of the objective, the concepts, the problems, the progress and the future. In "Transplantation of the pancreas", Eds. J.M. Dubernard and D.E.R. Sutherland, Kluwer Academic Publishers, The Netherlands, 1989, p. 455-478
18. Scharp, D.W., Lacy, P.E. - Clinical islet transplantation. In "Excerpta Medica International Congress Series", Eds. R. Larkins, P. Zimmet, D. Chisholm, Elsevier Science Publishers, Amsterdam, 1989, p. 721-724
19. McCullough, C.S., Scharp, D.W., Lacy, P.E. - Human islet isolation and transplantation. In "Immunologische and Dyamische Aspekte der Insulinsubstitution beim Diabetes Mellitus", Ed. R.G. Bretzel, Springer-Verlag, Heidelberg, 1990, p. 260-267

20. Atkinson, M.A., Maclaren, N.K., Scharp, D.W. - No role for 65KD heatshock protein in diabetes, (Letter) *Lancet* 336:1250-1251, 1990
21. Lacy, P.E., Scharp, D.W. - Islet cell transplantation. In "Diabetes Mellitus", Fourth Edition, Eds. H. Rifkin and D. Porte, Jr., Elsevier Science Publications, New York, 1990, P. 880-886
22. McCullough, C.S., Scharp, D.W. - Pancreas and islet transplantation for the treatment of Type I diabetes mellitus. In "Surgical Management of the Diabetic Patient", Eds. M. Bergman and G.A. Sicard, Raven Press, Ltd., New York, 1991, p. 349-362
23. Scharp, D.W. - Islet Transplantation: Approaches to a Clinical Therapy. In "Perspectives in General Surgery", Vol 3, No. 1, Ed. Barry A. Levine, Quality Medical Publishers, St. Louis, MO, 1992, p. 93-105
24. Scharp, D.W. - Islet quality control testing and the islet isolation laboratory. In "Pancreatic Islet Cell Transplantation", Ed. Camillo Ricordi, R.G. Landes Company, Austin, 1992, p. 82-88
25. Scharp, D.W. - Clinical islet transplantation - registry report, accomplishments in the past and future research needs, Invited Commentary, *Cell Transplantation* 2:299, 1993
26. Scharp, D.W. - Pancreatic Islet Transplantation. In "Atlas of Organ Transplantation, Ed. M. Wayne Flye, W.B. Saunders Company, Philadelphia, PA, 1994, p. 209-220
27. Ansara, M.F., Cryer, P.E., Scharp, D.W. - Perioperative Management of the Diabetic Patient. In "Care of the Surgical Patient", Ed. A. McHugh, Scientific American Medicine, New York, NY, 1994

Published Abstracts: >100 not detailed