

David W. Scharp, MD

Curriculum Vitae
Prodo Laboratories, Inc
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March 21, 2019**Education & Training**

<u>Institution</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 (WUSM) St. Louis, MO	MD	1966-1970	Medicine
Barnes Hospital Surgery Training St. Louis, MO	-	1970-1972	General Surgery
WUSM Post-Doctoral Training Paul Lacy, MD, PhD, St. Louis, MO	-	1972-1974	Diabetes Research
Barnes Hospital Surgery Training St. Louis, MO	-	1974-1976	General Surgery
Chief Resident in General Surgery		1975-1976	General Surgery
Certifications – American Board of Surgery		1979, 1989	General Surgery

Academic Appointments

1976	Assistant Professor of Surgery	WUSM and Barnes Hospital	St. Louis, MO
1983	Associate Professor of Surgery	WUSM and Barnes Hospital	St. Louis, MO
1991-1994	Professor of Surgery	WUSM and Barnes Hospital	St. Louis, MO
2012-2015	Lecturer Global Entrepreneurs	UCI Dept International Studies	Irvine, CA

Corporate Appointments

1989-1993	Founding Scientific Advisory Board, Cytotherapeutics, Providence, RI		
1989-1993	Founding Scientist with associated research, Cytotherapeutics, Providence, RI		
1994-1999	Executive VP, Chief Scientific Officer, Chief Medical Officer, Neocrin Co, Irvine, CA		
1999-2004	Executive VP, Chief Scientific Officer, Chief Medical Officer, Novocell Inc, Irvine, CA		
2004-2006	Executive VP, CMO, new Novocell post-merger with Cythera, Irvine, CA		
2006-present	Founder, CEO, President, CSO – Prodo Laboratories, Aliso Viejo, CA		
2006-present	Founder, CEO, President – The Scharp-Lacy Research Institute, Aliso Viejo, CA		
2010-present	Founder, CEO, CSO – Scharp Technologies, Aliso Viejo, CA		
2017-present	Founder, CEO, CSO – Progeneron, Aliso Viejo, CA		

Current Active Companies

Prodo Laboratories, Inc – Global Distribution of Human Islets for Research through the International Islet Distribution Program (IIDP) of the National Institutes of Health. Research into Improved Islet Isolation Techniques and Islet Encapsulation technology

The Scharp-Lacy Research Institute – Provides Human Islets through IIDP to academic investigators with Prodo Labs plus research on children donor islet processing
Scharp Technologies – Human Bone Marrow Mesenchymal Stem Cell Research and Production of MDFc19 Conditioned Media for Skin Health Products
Contract Manufacturing for new company developing methods of providing bone marrow mesenchymal stem cells to chronically failing myocardium.
Progeneron – Developing Topical Supplements for several different conditions utilizing natural plant components in unique combinations. Products are being developed for Dupuytren's Contracture; Neosporin replacement for burns, wounds, and abrasions; aging skin; Peronies Disease; and several other conditions that may benefit from these kinds of new products.

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 for zero gravity experiment with published results, McDonnell Douglas Corp
1986-1994 – National Surgical Advisor, Digestive Disease Center of Excellence, Humana Corp
1989-1993 – Contractual Research for Cytotherapeutics – Encapsulated Islet Transplants
1993 – FDA approved Investigator IND clinical trial for encapsulated human islets implanted into non-diabetic, Type 1 diabetic, and Type 2 diabetic recipients for Cytotherapeutics, Providence, RI
2005 – Contractual FDA approved Phase I/II clinical trial of encapsulated islet implants into the subcutaneous site of patients with Type 1 diabetes for Novocell, Irvine, CA
2007-2012 - Consultant – Beta O₂, Tel Aviv, Israel
2008-2009 – Scientific Advisory Board – Micro-Islet, San Diego, CA
2008-2011 – Scientific Advisory Board – Pan-Medics, Costa Mesa, CA
2011-2015 – Consultant - Betalogics, Inc, Division of Johnson & Johnson, Chicago, IL
2012-2014 – Consultant – Didimi, Inc, San Francisco, CA
2013-present – Senior Advisor to International Pancreas & Islet Transplantation Association
2013-present – Advisor- Juvenile Diabetes Research Foundation Islet Encapsulation Consortium

Honors & Awards

1962-1963 – President of the State of Illinois High School Student Council, Eureka, IL
1967-1970 – President of Medical School Class of 1970, Washington University School of Medicine, St. Louis, MO
1977-1982 – Recipient of NIH Research Career Development Award, Department of Surgery, Washington University School of Medicine (WUMS), St. Louis, MO
1982-1994 – Continuous NIH research funding through series of grant applications, WUMS
1980-1995 – Site Visit Team Member, NIDDK of the NIH for grant acceptance review
1982 – Elected as Fellow of the American College of Surgery

- 1985-1989 – Member of NIH Surgery, Anesthesiology, Trauma (SAT) Study Section for research grant reviews for funding
- 1987 – Elected as Member of College of Transplant Surgeons
- 1988 – Elected Faculty Member of Alpha Omega Alpha, WUMS Chapter, St. Louis, MO
- 1990 – Federal Employee of the Year Award, Head of Surgery Department, St. Louis Veterans Hospital, St. Louis, MO
- 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 Transplant Society
- 1993 – Founding Council Member – International Pancreas and Islet Transplantation Association
- 1994 – Elected to Membership of American Surgical Society
- 2010 – Awarded Grant for Human Islets for Research and Distribution by National Institutes of Health and the Internal Revenue Service Qualifying Therapeutic Discovery Grant
- 2010 – Awarded grant for Human Islet Expansion by National Institutes of Health and the Internal Revenue Service Qualifying Therapeutic Discovery Grant
- 2011 – Awarded Grant for Novel Thermal Reversible Polymer (TRG) for Human Islet Encapsulation and Implantation by National Institutes of Health Phase 1 Grant

Google Scholar Citations March 21, 2019

Total Publication Citations – 9,750 h-index – 46 i10-index - 111

291 Articles & Reviews – 8,547 citations

Most Cited Article – 1,392 citations - Ref #76

Number of Articles – 203 with 154 cited = 75.8% of published articles cited

20 Patents Issued with total 1,203 patent citations from 13 patents Cited = 56.5% cited

Most Cited Patent – 352 citations - USPTO #6,083,523

Published Patents cited from 25 to 352 citations each

3 Patents Recently Submitted, not included

Patents – Issued & Expired or Abandoned

Year [Citations] Number

1989 – [74] - USPTO #4,868,121 “Islet Isolation Process” **Scharp, DW**, Lacy, PE, Finke, EH, Poteat, J.

1992 – [108] - USPTO #5,079,160 (1992) “Method to Isolate Clusters of Cell Sub-Types from Organs” Lacy, PE, **Scharp, DW**, Ricordi, C.

1994 - [35] - USPTO #5,322,790 (1994) “Islet Isolation Process” **Scharp, D.W.**, Lacy, P.E., Finke, EH, Poteat, T.J.

1999 – [45] - USPTO #5,916,554 “Use of Pouch for Implantation of Living Cells” Dionne, KE, **Scharp, DW**.

2001 – [26] 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 – [25] - 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 – [41] - USPTO #7,427,415 “Implantation of Encapsulated Biological Materials for Treating Diseases” **Scharp, DW**, Latta, P, Yue, C, Yu, X, Hubbell, J. (Abandoned by Viacyte on 9/23/12)

Patents – Issued

Year [Citations] Number

- 1998 – [112] - USPTO #5,798,113 “Implantable Biocompatible Immunoisulatory Vehicle for Delivery of Selected Therapeutic Products” Dionne, KE, Emerich, DF, Hoffman, D, Sanberg, PR, Christenson, L, Hegre, OD, **Scharp, DW**, Lacy, PE, Aebischer, P, Vasconcellos, AV, Lysaght, MJ, Gentile, FT.
- 1998 – [162] - USPTO #5,800,828 “Implantable Biocompatible Immunoisulatory Vehicle for Delivery of Selected Therapeutic Products” Dionne, KE, Emerich, DF, Hoffman, D, Sanberg, PR, Christenson, L, Hegre, OD, **Scharp, DW**, Lacy, PE, Aebischer, P, Vasconcellos, AV, Lysaght, MJ, Gentile, FT.
- 1998 – [35] - USPTO #5,800,829 “Methods for Coextruding Immunoisulatory Implantable Vehicles with a Biocompatible Jacket and a Biocompatible Matrix Core” Dionne, KE, Emerich, DF, Hoffman, D, Sanberg, PR, Christenson, L, Hegre, OD, **Scharp, DW**, Aebischer, P, Vasconcellos, AV, Lysaght, MJ, Gentile, FT.
- 1999 – [00] - USPTO #5,869,077 “Methods for Treating Diabetes by Delivering Insulin from Biocompatible Cell Containing Devices” Dionne, KE, Emerich, DF, Hoffman, D, Sanberg, PR, Christenson, L, Hegre, OD, **Scharp, DW**, Lacy, PE, Aebischer, P., Vasconcellas, AV, Lysaght, MJ, Gentile, FT.
- 1999 – [131] - 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, KE, Emerich, DF, Hoffman, D, Sanberg, PR, Christenson, L, Hegre, OD, **Scharp, DW**, Lacy, PE, Aebischer, P, Vasconcellos, AV, Lysaght, MJ, Gentile, FT.
- 1999 – [57] - USPTO #5,874,099 “Methods for Making Immunoisulatory Implantable Vehicles with a Biocompatible Jacket and a Biocompatible Matrix Core” Dionne, KE, Emerich, DF, Hoffman, D, Sanberg, PR, Christenson, L, Hegre, OD, **Scharp, DW**, Lacy, PE, Aebischer, P, Vasconcellos, AV, Lysaght, MJ, Gentile, FT.
- 2000 – [352] - 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, DW**, Lacy, P, Aebischer, P, Vasconcello, A, Lysaght, M, Gentile, F.
- 2001 – [00] – USPTO #6,322,804 “Implantable Biocompatible Immunoisulatory Vehicle for the Delivery of Selected Therapeutic Products. Dionne, K, Emerich, D, Hoffman, D, Sanberg, PR, Christenson, L, Hegre, O, **Scharp, DW**, Lacy, PE, Aebischer, P, Vasconcellos, AV, Gentile, FT.
- 2005 – [00] – USPTO #6,960,351 “Implantable Biocompatible Immunoisulatory Vehicle for Delivery of Selected Therapeutic Products” Dionne, KE, Emerich, DF, Hoffman, D,

- Sanberg, PR, Christenson, L, Hegre, OD, **Scharp, DW**, Lacy, PE, Aebischer, P, Vasconcellos, AV, Lysaght, MJ, Gentile, FT.
- 2008 - [00] - USPTO #7,427,415 "Implantation of Encapsulated Biological Materials for Treating Diseases" **Scharp, DW**, Latta, P, Yue, C, Yu, X, Hubbell, JA.
- 2018 - [00] - USPTO #9,858,664 "System, Processes, Methods and Machines for Transforming Image Data into Sizing and Volume Measurements for Tissue" - McCord, R, Licensed to Prodo Laboratories, Inc.
- 2018 - [00] - USPTO # 10,053,520 "Coatings for Cells, Reagents, and Methods" - **Scharp, DW**, Gorkovenko, A.
- 2019 - [00] - USPTO #10,169,876 "Systems, Processes, Methods and Machines for Transforming Image Data into Sizing and Volume Measurements for Tissue" McCord, R - Licensed to Prodo Laboratories, Inc

Patents - Submitted

USPTO Citations Number

- 2019 - USPTO - [00] - #15/446729 "Encapsulation Methods and Compositions" **Scharp, DW**, McCord, R, March 1, 2017, **To Be Allowed**, Awaiting Final Paper Work.
- 2019 - USPTO - [00] - PCT/US2017, 020207/WO/2017/151773, "Encapsulation Methods and Compositions" Prodo Laboratories, **Scharp, DW**. McCord, R., 1/03/2016 - US62/302,167.
- 2019 - USPTO - [00] - #15/844,642 "Systems, Processes, Methods, and Machines for Transforming Data into Sizing and Volume Measurements for Tissues. McCord, Roy (Assigned to Prodo Laboratories, Inc.)

Published Articles

# Citations	
1970's	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
27	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
25	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
196	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
268	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
366	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
10	7. Ballinger, WF, Lacy, PE, Scharp. DW, Kemp, CB, Knight, M- Isografts and Allografts of Pancreatic Islets in Rats. British J Surgery, 60(4): 313, 1973

- 13 8. DW Scharp, CB Kemp, MJ Knight, JJ Murphy, WT Newton, WF Ballinger, ... Long-term results of portal vein islet isografts and allografts in treatment of streptozotocin-induced diabetes, *Diabetes* 23, 359-359, 1974.
- 11 9. MJ Knight, DW Scharp, CB Kemp, SB Nunnally, Ballinger WF, PE Lacy, Cryopreservation of pancreatic islets. *European Surgical Research*, 6, 89-89, 1974.
- 125 10. 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
- 57 11. 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
- 13 12. Feldman, S., Hirshberg, G., Dodi, G., Raizman, M., Scharp, D., Ballinger, W., Lacy, P.E. - Intrasplenic islet isografts, *Surgery* 82:386-394, 1977
- 13 13. 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
- 4 14. Scharp, DW, Merrell, RC, Feldman SD, Ruwe, EA, Feldmeier, M. Long-Term Culture of Islets of Langerhans Utilizing a Rotational Culture Method. *In Vitro- Journal of Tissue Culture Association.* 13 (3), 174.
- 16 15. 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
- 18 16. Feldman, S., Scharp, D., Hirshberg, G., Dodi, G., Ballinger, W., Lacy, P.E. - Streptozotocin-induced liver tumors, *Transplantation* 24:152-154, 1977
- 18 17. Feldman, S, Dodi, G, Haid, K, Scharp, DW, Ballinger, WF, Lacy, PE, Artificial hybrid pancreas, *Surgical Forum* 28:439-441, 1977
- 6 18. 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
- 6 19. Scharp, D, Krupin, T, Waltman, S, Oestrich, C, Feldman, S, Ballinger, W ... Relationship of abnormal insulin release to fluorophotometry in experimental diabetes, *Diabetes* 27, 435-435, 1978.
- 71 20. 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* 18:1185-190, 1979
- 9 21. Scharp, DW, Merrell, RC, Feldmeier, MM, Downing, R, Ballinger, WG. Pseudo-islet Formation and Culture from Canine Isolated Pancreatic Cells. *In Vitro Journal Tissue Culture Association* 15(3) 216, 1979
- 5 22. Downing, R., Scharp, D.W., Merrell, R., Greideer, M., Ballinger, W.F. Venous versus ductal distension of the canine pancreas for isolation of islets, *Surgical Forum* 30:422-424, 1979.
- 6 23. Merrell, RC, Scharp, DW, Gingerich, R, Feldmeier, M, Greider, M, Downing, R. New Approaches to Separation of Islet Cells. *Surgical Forum* 30. 301-305, 1978.
24. 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

- 66 25. Lacy, P.E., Davie, J.M., Finke, E.H., Scharp, D.W. - Prolongation of islet allograft survival, *Transplantation* 27:171-174, 1979
- 74 26. Scharp, D.W., Downing, R., Merrell, R.C., Grieder, M. - Isolating the elusive islet, *Diabetes* 29(1):19- 30, 1980
- 6 27. 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
- 1980's 28. 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
- 8 29. 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
- 26 30. Downing, R., Scharp, D.W., Ballinger, W.F., An improved technique for the isolation and identification of mammalian islets of Langerhans, *Transplantation* 29(1), 79.82, 1980.
31. 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
- 6 32. RV Rajotte, DW Scharp, R Downing, P Preston, GD Molnar, WF Ballinger, *Transplantation of frozen-thawed rat islets of Lanagerhans after sucrose versus step dilution*, *Cryobiology* 17 (6), 618-619, 1981.
33. 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
- 81 34. 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
- 9 35. Britt, L.D., Scharp, D.W. - Formation of pseudo-islets from neonatal pig pancreas, *Surgical Forum* 31:354-356, 1980
- 53 36. 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
37. Silberberg, R, Scharp, DW, LEsker, PA. *Biochemical Studies of Long Bone from Diabetic Rats and Rats Bearing Transplanted Pancreatic Islets.*, *Pathobiology* 49(2) 61-67.
38. 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
39. Bergen, J., Mason, N.S., Scharp, D.W., Sparks, R.E. - Insulin inhibition of islets in transplantation chambers, *Artificial Organs* 5:787-791, 1981
- 1 40. Scharp, DW, *Rejection of islet isografts in a strain of Lewis rats*, *Transplantation* 31 (3) 229-230, 1981.
- 17 41. Paquette, T.L., Gingerich, R., Scharp, D.W. - Altered amidation of pancreatic polypeptide in culture, *Biochemistry* 20:7403-7408, 1981
- 2 42. Greider, MH, Gingerich, RL, Scharp, DW, *in vitro studies of canine pseudo-islets*, *Cellular Basis of Chemical Messengers in the Digestive System*, 317-321, 1981

- 94 43. Schmidt, R.E., Scharp, D.W. - Axonal dystrophy in experimental diabetic autonomic neuropathy, *Diabetes* 31:761-770, 1982
- 2 44. 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
- 39 45. Sparks, R.E., Mason, N.S., Finley, T.C., Scharp, D.W., Development, testing, and modeling of an islet transplantation chamber, *ASAIO Journal* 28 91), 229-231, 1982.
- 7 46. 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
- 30 47. 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 Aupp 4), 63-68, 1982.
- 1 48. Scharp, DW, Lacy, PE, The isolation and alteration of islet tissue for transplantation. *In Vitro – Journal of the Tissue Culture Association.* 18 (3), 316-317, 1982.
- 1 49. Scharp, DW, Long, JA, Olack, BA, Preparation of pseudo-islets, *Cryobiology* 19 (6), 659-660, 1982.
- 3 50. Scharp, D.W., Long, J.A. - Studies of islet isolation and transplantation, *Cryobiology* 20:129-137, 1983
- 23 51. Long, J.A., Britt, L.D., Olack, B.J., Scharp, D.W. - Autotransplantation of isolated canine islets, *Transplant Proc.* 15:1332-1338, 1983
- 3 52. Sparks, RE, Mason, TC, Scharp, DW, A distributed source-model for the hybrid artificial pancreas, *ASAIO Journal* 29 (1), 460-462, 1983.
- 86 53. 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
- 10 54. 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
- 47 55. Scharp, D.W. - Isolation and transplantation of islet tissue, *World J. of Surgery* 8:143-151, 1984
56. Scharp, DW, Transplantation of pancreatic islet cells – Introduction, *World Journal of Surgery* 8 (2), 135-136, 1984
- 128 57. 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
- 13 58. Scharp, D.W. - Clinical feasibility of islet transplantation, *Transplant Proc.* 16(3):820-825, 1984
- 31 59. Sparks, RE, Mason, NS, Scharp, DW, Some Present Directions in Research on Tissue Transplantation Chambers, *Biomaterials in Artificial Organs*, 193-199, 1984.
- 13 60. Heiken, J.P., Balfe, D.M., Picus, D., Scharp, D.W. - Radical pancreatectomy: Postoperative evaluation by CT, *Radiology* 153:211-215, 1984
- 1 61. 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
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63. 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
- 8 64. 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
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- 6 66. Kneteman, N.M., Alderson, D., Scharp, D.W. - Cyclosporine A immunosuppression of allotransplanted canine pancreatic islets, *Transplant. Proc.*, 19(1):950-951, 1987
- 30 67. Alderson, D., Kneteman, N.M., Scharp, D.W. - The isolation of purified human islets of Langerhans, *Transplant Proc.* 19(1):916-917, 1987
- 39 68. 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
- 5 69. 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
- 22 70. 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
- 8 71. Kneteman, N.M., Alderson, D., Scharp, D.W. - The isolation and purification of human pancreatic islets, *Transplant Proc.* 19(4):3469-3470, 1987
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Reviews & Chapters:

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