

CURRICULUM VITAE

JONATHAN PAUL FRYER, M.D., M.Sc., FACS, FRCSC

1. PERSONAL INFORMATION

Associate Professor of Surgery,
Northwestern University, Feinberg School of Medicine
Director, Intestinal Transplantation,
Northwestern Memorial Hospital

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Division of Organ Transplantation
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Citizenship Status: US Citizen
Married: Sonya Sharpless
Children: Conor Fryer

2. EDUCATION:

1979-1981 Faculty of Science (pre-med)
University of Manitoba
Dean's honor list

1981-1985 Faculty of Medicine
University of Manitoba
Graduate, Class of 1985

3. GRADUATE MEDICAL EDUCATION:

1985-1986 Mixed Surgical Internship
Manitoba Affiliated Teaching Hospitals
University of Manitoba

1986-1991 General Surgery Residency
Manitoba Affiliated Teaching Hospitals
University of Manitoba

4. POSTDOCTORAL RESEARCH TRAINING:

1990-1992 Research Fellow
Masters of Science (Surgery) program
University of Manitoba
Thesis: In vitro and in vivo assessment of Rapamycin as an
Immunosuppressive agent in the rabbit

1992-1993 Research Fellowship
University of Minnesota

1993-1994 Clinical Fellowship
Transplant Surgery
University of Minnesota

1994-1995 Extended Clinical/Research Fellowship
Transplant Surgery
University of Western Ontario

5. BOARD CERTIFICATION & MEDICAL LICENSURE:

College of Physicians and Surgeons of Manitoba	(educational)	1985-1986	
	(residents)	1986-1990	
	(full)	1991-1992	
Minnesota Board of Medical Practice 1993-1994	(medicine and surgery license)		
College of Physicians and Surgeons of Ontario	(educational)	1994	
	(full)	1994-1995	
Illinois Department of Professional Regulation	(full)	1995	
American Board of Surgery: Board Certified (General Surgery) #37544		1992	
American Board of Surgery: Recertification (General Surgery)		2002	
The Royal College of Physicians and Surgeons of Canada (General Surgery)		1991	

6. MILITARY SERVICE

NOT APPLICABLE

7. FACULTY APPOINTMENTS:

2/1/92-6/30/92 Junior Staff Surgeon
Department of Surgery, Health Science Center,
Winnipeg, Manitoba, Canada

Lecturer
Faculty of Medicine,
University of Manitoba

1995-present Staff Surgeon & Director, Intestinal Transplantation
Department of Surgery, Northwestern Memorial Hospital
Chicago, Illinois

1995-2005 Assistant Professor of Surgery
Department of Surgery, Division of Organ Transplantation
Northwestern University Medical School

2005- present Associate Professor of Surgery
Department of Surgery, Division of Organ Transplantation

8. HOSPITAL STAFF APPOINTMENTS:

1995-present Northwestern Memorial Hospital, Chicago, IL. Active attending physician.
1996-present Children's Memorial Hospital, Chicago, IL. Active attending physician.
1996-present Dept. of Veterans Affairs Medical Center Lakeside, Chicago, IL. Active attending physician.

9. ADMINISTRATIVE APPOINTMENTS:

1995 - Director, Intestinal Rehabilitation and Transplantation Program
2004 – Clinical Practice Director, Division of Organ Transplantation

10. COMMITTEE SERVICE:

1995 - present - Regional Organ Bank of Illinois - Liver and Intestinal Subcommittee
1995 - present - United Network for Organ Sharing (UNOS) - Region 7 Representative
1996 - present - National Kidney Foundation of Illinois, Inc. - Medical Advisory Board
1996 - Northwestern University Med. School Biomedical Eng. Institute Planning Comm.
1996 - present - Northwestern University Medical School Medical Students Research Committee
1997 - present - Northwestern Memorial Hospital, Director of Grand Rounds, Dept. of Surgery,
1995 – present - Regional Organ Bank of Illinois/Gift of Hope – Research Subcommittee
1998 - 2000 - Northwestern Memorial Hospital Surgery Utilization Management Subcommittee,
Chair
1998 - 2002 - ASTS Data and Informatics Committee
2000 - 2007 - Northwestern Memorial Hospital Infection Control Committee
2002 - Northwestern University Medical School – Institutional Review Board
2004 – present – ASTS Newsletter Committee
2005 - present - ASTS Committee for the Workforce
2005 - present - ASTS Curriculum Task Force
2006 - present - ASTS Fellowship Training Committee
2006 - present - ATS Liver/Intestine Committee

11. AWARDS, HONORS, DISTINCTIONS:

12/90 American College of Surgeons: Manitoba Chapter Meeting - Scientific Paper Competition: Third Place
12/91 American College of Surgeons: Manitoba Chapter Meeting - Scientific Paper Competition: Third Place
1994 American Society of Transplant Surgeons: Upjohn Award
1997 Society for Surgery of the Alimentary Tract: Career Development Award.
2004 Excellence in Teaching Award, Department of Surgery

2005 Excellence in Teaching Award, Department of Surgery

2006 Excellence in Teaching Award, Department of Surgery

12. PROFESSIONAL SOCIETY MEMBERSHIPS

1996- American Association for the Advancement of Science
1996- American Association for the Study of Liver Diseases
1995 American College of Surgeons - Fellow
1996- American Society of Transplant Surgeons
1996- American Society for Parenteral and Enteral Nutrition
1997- Association for Academic Surgery
1992- Canadian Association of General Surgeons
1996- Chicago Society for Gastroenterology
1999- Chicago Surgical Society
1995- National Kidney Foundation of Illinois
1992- Royal College of Surgeons of Canada - Fellow
1996- Society for Surgery of the Alimentary Tract
1996- Transplantation Society
1998- International Xenotransplantation Association
2001- American Gastroenterological Association
2002- American Association of Immunologists
2005- Association of Surgical Education
2006- American Society of Transplantation

13. OTHER PROFESSIONAL AND SCIENTIFIC ACTIVITY:

1998 - The 5th International Congress for Xenotransplantation – Member Advisory Committee
1999 - 2001 American Society of Transplant Surgeons – Data and Informatics Subcommittee
2001 - Co-chair –6th International Xenotransplantation Association Congress
2001- Xenotransplantation – Editorial Board
2003 - International Advisory Committee – 8th International Small Bowel Transplant Symposium
2005 - International Advisory Committee - 9th International Small Bowel Transplant Symposium
2006 - International Advisory Committee - 10th International Small Bowel Transplant Symposium

14. SPEAKER BOARD/CONSULTANT:

Coram Pharmaceuticals - Speakers Board
Serono Pharmaceuticals - Speakers Board

15. TEACHING :

Clinical Teaching:

1995-present Interview and selection of Residency Candidates for the Department of Surgery
1995-present Mock oral examinations for Surgical Residents
1995-1997 Suture Sessions
1996-1999 Preceptor for 2nd year medical students for the Physical Diagnosis Unit
1995-present Teaching of Fellows, residents, and students assigned to Transplant Team
1995-present Teaching of GI/Liver fellow assigned to Transplant Team
1996-present Preceptor to high school students (4), undergrad/medical students (15), surgical residents (1), and postgrad fellows (2) in transplant research lab

1997-present Director, Surgical Grand Rounds
 2003- Team Education Coordinator – Division of Transplantation
 2002- Clinical Teaching Scholars Program
 2004 Excellence in Teaching Award, Department of Surgery
 2005 Excellence in Teaching Award, Department of Surgery
 2005-2006 Surgical Education Research Fellowship - Association of Surgical Education
 2006 Excellence in Teaching Award, Department of Surgery
 2006- ASTS –Fellowship Training Committee
 2006- ASTS – Fellowship Curriculum development task force

15. RESEARCH GRANTS/CONTRACTS:

1991 Paul H.T. Thorlakson Foundation Research Grant (\$10,000)

1991 Surgical Education and Research Fund Grant (\$5,000)

1991 Surgical Education and Research Travel Fund Grant (\$5,000)

1992 Kidney Foundation of Manitoba Grant (\$2,500)

1996 Northwestern University Research Grants Committee (\$5,000)
 "Development and Characterization of a Guinea Pig to Mouse Model of Discordant Xenograft Rejection"

1996 Northwestern Memorial Hospital Intramural Research Grants Program (\$20,000)
 "Prevention of Hyperacute Rejection of a Pig to Human Cardiac Xenograft Using C1q Inhibitors"

1996 National Kidney Foundation of Illinois, Inc. (\$13,134)
 "The Influence of High PRA Serum on Endothelial Cells"

1996 Northwestern Memorial Foundation Grant (\$80,000)
 "Intestinal Transplantation Program"

1997 Principal Investigator. The Society of Surgery of the Alimentary Tract (\$80,000)
 "Lymphocyte Trafficking in a Murine Model of Intestinal Transplantation"

1997 Principal Investigator, Nextran Inc. (\$463,841), "Optimization of an Ex Vivo Liver Perfusion System".

1998 Co-Investigator, Nextran Inc., "Pig to Baboon Renal Xenotransplantation," (\$383,418).

1998 Principal Investigator, Nextran Inc., "A Pilot Study to Evaluate the Safety of Extracorporeal Perfusion of Livers Harvested from Transgenic Swine in Patients with Severe Acute Hepatic Failure.

1998 Co-Investigator, Northwestern Memorial Hospital, Research Committee (\$20,000),
 "Study of Infectivity of Porcine Endogenous Retrovirus for Humans: Implications for Xenotransplantation,".

1999 Principal Investigator – Ophidian Pharmaceuticals (\$47,625). "Evaluation of avian antibodies for use in xenotransplantation".

- 2004 Medical School Research grant for student Christopher Chow. (\$3,000).
“Role of NFkB in Altering Small Bowel Permeability During Rejection” under the mentorship of Drs. Jonathan Fryer and Jenny Zhang.
- 2005 Principal Investigator – NIH R21 DK072544-01A1 - Permeability Changes in Small Bowel Allograft Rejection. (\$291,180) Project Period: 08/15/2005 - 06/30/2007
- 2006 Principal Investigator - Serono IMG (\$60,400) “Influence of recombinant Human Growth Hormone (r-HGH) on intestinal permeability and liver injury in intestinal failure patients receiving parenteral nutrition”.

16. SCHOLARLY PRODUCTIVITY:

A. Original, peer-reviewed reviewed research articles

1. **Fryer JP**, Graham TL, Fong HM, Burns CM. Diagnostic peritoneal lavage as an indicator for therapeutic surgery. *The Canadian Journal of Surgery* 1991; 34:471-476.
2. Honcharik N, **Fryer JP**, Yatscoff RW. The pharmacokinetics of rapamycin: Single dose studies in the rabbit. *Therapeutic Drug Monitoring* 1992;14:475-478.
3. **Fryer JP**, Yatscoff RW, Pascoe EA, Thliveris JA. Relationship of blood concentrations of rapamycin and cyclosporine to suppression of allograft rejection in a rabbit heterotopic heart transplant model. *Transplantation* 1993; 55:340-345.
4. Yatscoff RW, **Fryer JP**, Thliveris JA. Comparison of the effect of Rapamycin and FK506 on release of prostacyclin and endothelin in vitro. *Clin Biochem* 1993; 26:1-6.
5. **Fryer JP**, Matas AJ. Criteria for selection of kidney transplant recipients. *The Journal of Critical Illness* 1994; 9:362-374.
6. **Fryer JP**, Granger DK, Leventhal JR, Gillingham K, Najarian JS, Matas AJ. Steroid related complications in the cyclosporine era. *Clinical Transplantation* 1994;8:224-229.
7. **Fryer JP**, Benedetti E, Perry EH, Matas AJ. Antibody mediated rejection of an HLA identical ABO incompatible kidney transplant after two failed cadaver transplants. *Transplantation* 1994; 58(6):723-725.
8. **Fryer JP**, Leventhal JR, Dalmaso AP, Chen S, Simone PA, Jessurun J, Sun LH, Reinsmoen NL, Matas AJ. Cellular rejection in discordant xenografts when hyperacute rejection is prevented: Analysis using adoptive and passive transfer. *Transplant Immunology* 1994;2(2):87-93.
9. Benedetti E, **Fryer JP**, Matas AJ, Sutherland DE, Payne WD, Dunn DL, Gores P, Gruessner R, Najarian JS. Kidney transplant outcome with and without right renal vein extension. *Clinical Transplantation*. 1994;8:416-417.
10. **Fryer JP**, Leventhal JR, Dalmaso AP, Chen S, Simone PA, Goswitz JJ, Reinsmoen NL, Matas AJ. Beyond hyperacute rejection: Accelerated rejection in a discordant xenograft model by adoptive transfer of specific cell subsets. *Transplantation* 1995;59(2):171-176.

11. Gruessner RW, **Fryer JP**, Fasola C, Nakleh RE, Gruessner AC, Kim S, Dunn DL, Pirenne J, Bekersky I, Benedetti E, Troppmann C. A prospective study of FK506 vs CsA and pig ATG in a porcine model of small bowel transplantation. *Transplantation* 1995;59(2):164-171.
12. Leventhal JR, John R, **Fryer JP**, Witson JC, Muller-Derlich J, Remiszewski J, Dalmaso AP, Matas AJ, Bolman III RM. Removal of baboon and human anti-porcine IgG and IgM natural antibodies by immunoabsorption: results of in vitro and in vivo studies. *Transplantation* 1995;59(2):294-300.
13. **Fryer JP**, Leventhal JR, Matas AJ. The emergence of xenotransplantation. *Transplant Immunology* 1995;3(1):21-31.
14. **Fryer JP**, Metrakos P, Verran D, Asfar S, Pelz D, Fortier M, Ghent C, Wall W, Grant D. Central pontine myelinolysis (CPM) and cyclosporine neurotoxicity following liver transplantation. *Transplantation* 1996;61(4):658-661.
15. **Fryer JP**, Kim S, Wells C, Fasola C, Jechorek R, Dunn DL, Pirenne J, Arazola L, Gruessner RWG. Bacterial translocation in a large animal model of small bowel transplantation: Portal vs Systemic venous drainage and effect of FK506 immunosuppression. *Archives of Surgery* 1996; 131(1):77-84.
16. **Fryer JP**, Pascoe EA, Yatscoff RW, Thliveris JA. A comparison of cyclosporine A and cyclosporine G in rabbit heterotopic cardiac transplant model: graft outcome and histological findings. *Histology and Histopathology* 1996; 11:277-284.
17. Asfar S, Metrakos P, **Fryer J**, Verran D, Ghent C, Grant D, Bloch M, Burns P, Wall W. An analysis of late deaths after liver transplantation. *Transplantation* 1996; 61(9):1377-1381.
18. Gruessner RWG, Fasola C, **Fryer J**, Nakhleh RE, Kim S, Gruessner AC, Beebe D, Moon C, Troppmann C, Najarian J. Quadruple Immunosuppression including Minnesota antilymphocyte globulin and CsA prevents rejection in a pig model of small bowel transplantation. *J Surg Research* 1996; 61:260.
19. Pirenne J, Benedetti E, Gruessner A, Moon C, Hakim N, **Fryer JP**, Troppmann C, Nakhleh RE, Gruessner RWG. Combined transplantation of small and large bowel: FK506 versus cyclosporine A in a porcine model. *Transplantation* 1996; 61(12):1685-1694.
20. Yedidag EN, Koffron AJ, Mueller KH, Kaplan B, Kaufman DB, **Fryer JP**, Stuart FP, Abecassis M. Acyclovir triphosphate inhibits the diagnostic polymerase chain reaction for cytomegalovirus. *Transplantation* 1996;62(2):238-242.
21. **Fryer JP**, Grant D, Jiang J, Metrakos P, Ozcay N, Ford C, Garcia B, Behme R, Zhong R. The influence of macrophage depletion on bacterial translocation and rejection in small bowel transplantation. *Transplantation* 1996; 62(5):553-559.
22. Kaplan B, Wang Z, Abecassis MM, **Fryer JP**, Stuart FP, Kaufman DB. Frequency of hyperkalemia in recipients of simultaneous pancreas kidney transplants with bladder drainage. *Transplantation* 1996; 62(8):1174-1175.
23. Yedidag EN, **Fryer JP**, Levi E, Buckingham FC, Ivancic D, Kraff J, Huang CF, Rademaker AW, Kaufman DB, Abecassis M, Stuart FP. Early histopathology of small intestinal discordant xenografts. *Transplantation* 1996; 62(10):1385-1391.

24. Abecassis MM, Koffron AJ, Kaplan B, Buckingham M, Muldoon JP, Cribbins AJ, Kaufman DB, **Fryer JP**, Stuart J, Stuart FP. The role of PCR in the diagnosis and management of CMV in solid organ recipients: what is the predictive value for the development of disease and should PCR be used to guide antiviral therapy. *Transplantation* 1997; 63(2):275-279.
25. **Fryer JP**, Chen S, Johnson E, Simone P, Sun LH, Goswitz JJ, Matas AJ. The role of monocytes and macrophages in delayed xenograft rejection. *Xenotransplantation* 1997; 4(1):40-48.
26. Ozcay N, **Fryer J**, Grant D, Freeman D, Garcia B, Zhong B. Budesonide, a locally acting steroid, prevents graft rejection in a rat model of intestinal transplantation. *Transplantation* 1997; 63(9):1220-1225.
27. Koffron AJ, Hummel M, Patterson BK, Yan S, Kaufman DB, **Fryer JP**, Stuart FP, Abecassis MI. Cellular localization of latent murine cytomegalovirus. *J of Virol* 1998; 72(1):95-103.
28. Craig R, **Fryer J**, Kim J. Absorptive function following small bowel transplantation. *Dig. Disease in Science* 1998; 43(9):1925-30.
29. Kaplan B, Lown K, Craig R, Abecassis M, Kaufman D, Leventhal J, Stuart F, **Fryer JP**. Low bioavailability of cyclosporine microemulsion and tacrolimus in a small bowel transplant recipient, possible relationship to intestinal P-glycoprotein activity. *Transplantation* 1999; 67(2):333-335.
30. Leventhal JR, **Fryer JP**, Matas AJ. The role of cellular immune responses in xenotransplantation. *Current Opinions in Immunology* 1999.
31. Kaufman DB, Leventhal JR, Stuart J, Abecassis MM, **Fryer JP**, Stuart FP. Mycophenolate mofetil and tacrolimus as primary maintenance immunosuppression in simultaneous pancreas-kidney transplantation: initial experience in 50 consecutive cases. *Transplantation* 1999; 67:586-93.
32. Koffron AJ, Abecassis MI, Yan S, Naidu YM, Bar-Dagan Y, Kaufman DB, **Fryer JP**, Stuart FP, Steinmuller D. Non-specific tissue injury induced by CMV-specific cytotoxic T-lymphocytes. *Transplantation*, submitted, 1998.
33. **Fryer JP**, Firca J, Leventhal JR, Blondin B, Malcolm A, Ivancic D, Gandhi R, Shah A, Pao W, Abecassis M, Kaufman DB, Stuart F, Anderson B. IgY antiporcine endothelial cell antibodies effectively block human antiporcine xenoantibody binding. *Xenotransplantation* 1999; 56: 1-13
34. Kaufman DB, Leventhal JR, Koffron A, Gheorghide M, Elliott MD, Parker MA, Abecassis MM, **Fryer JP**, Stuart FP. Simultaneous pancreas-kidney transplantation in the mycophenolate mofetil/tacrolimus era: Evolution from induction therapy with bladder drainage to noninduction therapy with enteric drainage. *Surgery* 2000; 128: 726-37.
35. WE Walsh, BE Anderson, D Ivancic, Z Zhang, JP Piccini, TG Rodgers, W Pao, **JP Fryer**. Distribution of, and immune response to, chicken anti-alphaGal Immunoglobulin Y antibodies in wild-type and alphaGal knockout mice. *Immunology* 2000, 101 (4): 467-473.

36. **Fryer JP**, Leventhal JR, Pao W, Stadler C, Jones M, Walsh T, Zhong R, Zhang Z, Wang H, Goodman DJ, Kurek M, d'Apice AJF, Blondin B, Ivancic D, Buckingham F, Kaufman DB, Abecassis M, Stuart F, Anderson BE. Synthetic Peptides which Inhibit the Interaction Between C1q and Immunoglobulin and Prolong Xenograft Survival. *Transplantation*, 2000 Sep 15; 70 (5): 828-36.
37. Abecassis M, Adams M, Adams P, Arnold RM, Atkins CR, Barr JL, WM Bennett, Bia M, Briscoe DM, Burdick J, Corry RJ, Davis J, Delmonico FL, **Fryer JP**, Gaston RS, Harmon W, Jacobs CL, Kahn J, Leichtman A, Miller C, Moss D, Newmann J, Rosen LS, Siminoff L, Spital A, Starnes VA, Thomas C, Tyler LS, Williams L, Wright FH, Youngner S. Consensus Statement on the Live Organ Donor. *JAMA* 2000; 284 (22) 2919-2926.
38. Leventhal JR, Deeik RK, Joehl RJ, Rege RV, Herman CH, **Fryer JP**, Kaufman D, Abecassis M, Stuart FP. Laparoscopic Live Donor Nephrectomy – Is it safe? *Transplantation* 2000 Aug 27; 70(4): 602-606.
39. Blei AT, Rinella ME, Alonso EM, Rao S, Whittington PF, **Fryer JP**, Abecassis MM, Superina R, Flamm S. Body Mass Index as a Predictor of Hepatic Steatosis in Living Liver Donors. *Liver Transplantation*, Vol. 7, No. 5 (May), 2001: pp 409-414.
40. Kaufman DB, Leventhal JR, Gallon LG, Parker MA, Koffron AJ, **Fryer JP**, Abecassis MM, Stuart FP. Risk Factors and Impact of Cytomegalovirus Disease in Simultaneous Pancreas-Kidney Transplants. *Transplantation* 2001; 72 (12): 1940-1945
41. CL Cook, W Pao, JR Firca, BE Anderson, **JP Fryer**. Simple Purification Method for an α Galactulose-Specific Antibody from Chicken Eggs. *Journal of Bioscience and Bioengineering* Vol. 91, No. 3, 305-310. 2001.
42. Kaufman DB, Leventhal JR, Koffron AJ, Gallon LG, Parker MA, **Fryer JP**, Abecassis MM, Stuart FP. A prospective study of rapid corticosteroid elimination in simultaneous pancreas-kidney transplantation. *Transplantation* 2002; 73 (2) 169-177.
43. Kaufman DB, Leventhal JR, Gallon LG, Parker MA, Elliott MD, Gheorghide M, Koffron AJ, **Fryer JP**, Abecassis MM, Stuart FP. Technical and immunologic progress in simultaneous pancreas-kidney transplantation. *Surgery* 2002 Oct; 132 (4):545-535.
44. Murayama KM, Derossis AM, DaRosa DA, Sherman HB, **Fryer JP**. A Critical Evaluation of Morbidity and Mortality Conference. *American Journal of Surgery* 2002; 183 (3): 246-250.
45. Mora N, Kaptanoglu L, Zhang Z, Nickrasz M, Black S, Ver Steeg K, Wade, R, Siddal V, Pao W, Walsh W, Ivancic D, Kaufman D, Abecassis M, Stuart F, Blei A, Leventhal J, and **Fryer JP**. Single vs. Dual Vessel Porcine Extracorporeal Liver Perfusion. *Journal of Surgical Research* 2002; 103: 228-235.
46. Z Zhang, L Kaptanoglu, W Haddad, D Ivancic, Z Alnadjim, S Hurst, D Tishler, AD Luster, TA Barrett, **JP Fryer**. Donor T Cell Activation Initiates Small Bowel Allograft Rejection Through an IFN- γ -Inducible Protein-10-Dependent Mechanism. *Journal of Immunology* 2002; 168 (7): 3205-3212.
47. **Fryer JP**, Leventhal J. Xenotransplant News. *Xenotransplantation* 2003;10(2):142-8.

48. Buchman AL, Scolapio J, **Fryer JP**. American Gastroenterological Association Medical position Statement: Short Bowel Syndrome and Intestinal Transplantation. *Gastroenterology* 2003;124:1105-1110.
49. Buchman AL, Scolapio J, **Fryer JP**. AGA technical review on Short Bowel Syndrome and Intestinal Transplantation. *Gastroenterology* 2003;124:1111-1134.
50. **Fryer JP**, Pellar S, Ormond DB. Mortality in candidates waiting for combined liver-intestine transplants exceeds that for other candidates waiting for liver transplants. *Liver Transplantation* 2003 Jul; 9(7):748-753.
51. Zhang Z, Kaptanoglu L, Tang Y, Ivancic D, Rao SM, Luster A, Barrett TA, **Fryer J**. IP-10-induced recruitment of CXCR3 Host T Cells is Required for Small Bowel Allograft Rejection. *Gastroenterology* 2004 Mar; 126 (3): 809-818
52. Salvalaggio PO, Baker TA, Koffron AJ, **Fryer JP**, Clark L, Superina RA, Blei AT, Abecassis MM. Comparative Analysis of Live Liver Donation Risk Using a Comprehensive Grading System for Severity. *Transplantation* 2004 June; 77 (11):1765-1767
53. Fraser TG, Zembower TR, Lynch P, **Fryer JP**, Salvalaggio PRO, Yeldandi AV, Stosor V. Cavitory Legionella Pneumonia in a Liver Transplant Recipient. *Transplant Infectious Diseases* 2004; 6 (2): 77-80.
54. Leventhal JR, Kocak B, Salvalaggio PRO, Koffron AJ, Baker TB, Kaufman DB, **Fryer JP**, Abecassis MM, Stuart FP. Laparoscopic donor nephrectomy 1997 to 2003: Lessons learned with 500 cases at a single institution. *Surgery* 2004; 136 (4) 881-890.
55. Hyun JG, Brown JB, Grimm GR, Tang Y, Mittal N, Dirisina R, Zhang Z, **Fryer JP**, Weinstock JV, Luster AD, Barrett TA. Anti-Interferon-inducible chemokine, CXCL 10, reduces colitis by impairing T helper-1 induction and recruitment in mice. *Inflamm Bowel Dis* 2005; 11 (9): 799-805.
56. Salvalaggio PRO, Koffron AJ, **Fryer JP**, Abecassis MM. Liver Transplantation With Simultaneous Removal of an Intracardiac Transjugular Intrahepatic Portosystemic Shunt and a Vena Cava Filter Without the Utilization of Cardiopulmonary Bypass. *Liver Transplantation* 2005; 11 (2) 229-232.
57. Buchman AL, Iyer K, **Fryer JP**. Parenteral nutrition-associated liver disease and the role for isolated intestine and intestine/liver transplantation. *Hepatology* 2006; 43 (1) 9-19.
58. **Fryer JP**, Iyer K. Innovative Approaches to Improving Organ Availability for Small Bowel Transplant Candidates. *Gastroenterology* 2006; 130 (2 Suppl 1): S152-157.
59. Koffron AJ, Kung R, Baker T, **Fryer JP**, Clark L, Abecassis M. Laparoscopic-Assisted Right Lobe Donor Hepatectomy. *American Journal of Transplantation*. 2006;6:2522.
60. Chungfat N, Dixler I, Cohran V, Buchman A, Abecassis M, **Fryer J**. Late consideration of intestinal transplantation where progression of parenteral nutrition associated liver disease (PNALD) mandates a combined liver/intestine transplant is associated with inferior outcomes. *Annals of Surgery* (submitted for publication).

61. Tang Y, Clayburgh DR, Mittal N, Dirisina R, Zhang, Z, Chow C, Kron M, Ivancic D, Grimm G, Manjali J, **Fryer J**, Nusrat A, Turner JR, Barret TA. Epithelial NFkB enhances transmucosal fluid movement by altering tight junction protein composition: a new host defense function. *Gastroenterology* (submitted for publication).
62. Zhang Z, Chow CJ, Tang Y, Clayburgh DR, Ivancic D, Turner JR, Barrett TA, Fryer JP. TNF mediated changes in intestinal epithelial tight junction permeability are dependent on epithelial NFkB activation. *American Journal of Physiology – Gastrointestinal and Liver Physiology* (submitted for publication).
63. In Press: **Fryer JP**, "The current status of Intestinal Transplantation." January 2007

B. Editorials, Invited Reviews, Book Chapters, Commentaries

1. **Fryer JP**, Leventhal J, Zhong R. Macrophage Depletion in Small Animal Transplant Models, pp 441. In Organ Transplantation in Rats and Mice. June 1998. – **(Invited peer-reviewed)**
2. Abecassis MM, Blei AT, Flamm S, **Fryer JP**. Chapter 8. Liver Transplantation, pp169-205. in Organ Transplantation. Ed. F. Stuart, M, Abecassis and DB Kaufman. R.G. Landes Company. 2000:169. - **(Invited peer-reviewed)**
3. **Fryer JP** Chapter 9. Intestinal Transplantation, pp 208-222. in Organ Transplantation. Ed. F. Stuart, M. Abecassis and DB Kaufman. R. G. Landes Company. 2000:208. **(Invited peer-reviewed)**
4. **Fryer JP**, Leventhal JR. Essay 16. Xenotransplantation, pp529. in Organ Transplantation. Ed. F. Stuart, M. Abecassis and D.B. Kaufman. R.G. Landes Company. 2000:530. - **(Invited peer-reviewed)**
5. Kaufman DB, Leventhal JR, Elliott JD, Gallon LG, Parker MA, Gheorghide M, Koffron AJ, Ferrario M, Abecassis MM, **Fryer JP**, Stuart FP. Pancreas Transplantation at Northwestern University. *Clinical Transplants* 2000, pg. 239-246 - **(Invited peer-reviewed)**
6. **Fryer JP**. The Role of Intestinal Transplantation in the Management of Intestinal Failure. *Current Gastroenterology Reports*. 2001 Aug; 3 (4):334-42. - **(Invited peer-reviewed)**
7. Koffron A, **Fryer JP**, Abecassis, M. Indications and Results of Liver Transplantation for Primary and Metastatic Liver Cancer. *Cancer Treat Res*; 2001, pg. 77-99. - **(Invited peer-reviewed)**
8. **Fryer JP**, Newell KA. Small Bowel Transplantation: A work in progress. *Current Opinion in Organ Transplantation* 2004:225-232. - **(Invited peer-reviewed)**
9. **Fryer JP**, Angelos P. Is there a role for living donor intestinal transplantation? *Prog Transplant*. 2004; 14 (4): 321-329. - **(Invited peer-reviewed)**
10. **Fryer JP**, Iyer K. Intestinal Transplantation. In Clinical Nutrition: A guide for gastroenterologists. (In Press) **(Invited peer-reviewed)**

11. **Fryer JP**, Iyer K. Innovative approaches to improving organ availability for small bowel transplant candidates. *Gastroenterology* 2006 Feb;130(2):S152-157.
12. **Fryer JP**, Buchman A. Intestinal Transplantation. *Clinical Nutrition in Gastroenterology Intestinal Disease* 2006; Chapter 32:376-382.
13. Wang M, Dixler K, **Fryer JP**. Regional Variations in the US living donor experience. *Living Donor Organ Transplantation*. Ed. Rainer Gruessner and Enrico Benedetti. Pub McGraw-Hill Co. New York, NY 2007 (In Press).
14. Newell KA, **Fryer JP**. Immunology of intestinal allograft rejection. In: Langnas A, Goulet O, Quiglet E and Tappenden K (eds.), *Intestinal Failure: Diagnosis, Management and Transplantation*. Oxford: Blackwell Publishing, 2007 (In Press).
15. Fryer JP. Intestinal Transplantation – current status. *Gastroenterology Clinics of North America* 2007 (In Press).

C. Case reports, Technical notes, Letters

Not applicable

D. Proceedings and Non-refereed Papers:

1. **Fryer JP**, Benedetti E, Gillingham K, Najarian JS, Matas AJ. Steroid related complications in pediatric kidney transplant recipients in the cyclosporine era. *Transplant Proceedings* 1994; 26(1):91-92.
2. Moss A, **Fryer JP**, Leventhal JR, Simone P, Chen S, Reinsmoen N, Matas AJ. Analysis of the human anti-pig cellular immune response using the Hu-scid mouse-porcine skin graft model. *Trans Proc* 1994; 26(3):1209.
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17. Leventhal JR, Martinez W, Roszkowski J, **Fryer JP**, Kaufman DB, Abecassis MI, Stuart FP, Spear P. Porcine cells are susceptible to infection by human alpha herpesviruses. *Transplant Proc*. 2001 33 (1-2): 691.
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E. Software, world wide web-based publications, exhibits, audiovisual or other teaching material.

Not applicable

F. Patents

Not applicable

G. Abstracts Selected for Presentation at Scientific Meetings:

1. Daniel A. Bambini, **Jonathan Fryer**, Peter F. Whittington, Estella Alonso, P. Stephen Almond, Ricardo Superina. *Intestinal necrosis following small bowel transplantation: Atypical rejection or iatrogenic injury?* The 6th International Small Bowel Transplant Symposium. October 6-9, 1999, Omaha, Nebraska.
2. Dixon B. Kaufman, Joseph R. Leventhal, **Jonathan P. Fryer**, Michael I. Abecassis, Frank P. Stuart. *Kidney transplantation without prednisone*. First Joint Annual meeting of the American Society of Transplant Surgeons and the American Society of Transplantation. May 13-17, 2000, Chicago, Illinois.
3. Steven Flamm, Estella Alonso, Andres T. Blei, Peter Whittington, **Jonathan Fryer**, Frank Stuart, Ricardo Superina, Michael Abecassis. *The role of liver biopsy in the evaluation of living donors*. First Joint Annual meeting of the American Society of Transplant Surgeons and the American Society of Transplantation. May 13-17, 2000, Chicago, Illinois.
4. **Jonathan P. Fryer**, Zheng Zhang, Jeffery Roskowski, Winnie Pao, Marek Niekrasz, Joseph Leventhal, Michael Abecassis, Dixon Kaufman, Frank Stuart, Byron Anderson. *Isotype and IgG subtype switches associated with an elicited primate xeno antibody response to nonagal porcine endothelial antigens*. First Joint Annual meeting of the American Society of Transplant Surgeons and the American Society of Transplantation. May 13-17, 2000, Chicago, Illinois.
5. D.S. Tishler, **J.P. Fryer**, B.E. Anderson, D.Z. Ivancic, J.R. Leventhal, D.B. Kaufman, M.I. Abecassis, F.P. Stuart, Z.J. Zhang. *Temporal characterization of anti- α -1,3-gal mediated cardiac graft rejection in a murine model*. First Joint Annual meeting of the American Society of Transplant Surgeons and the American Society of Transplantation. May 13-17, 2000, Chicago, Illinois.
6. Dixon B. Kaufman, Michele Parker, Joseph Leventhal, Alan Koffran, Michael Abecassis, **Jonathan Fryer**, Joan Stuart, Frank P. Stuart. *Multivariate analysis of the impact of CMV in simultaneous pancreas-kidney (SPK) transplantation in the mycophenolate mofetil/tacrolimus era*. First Joint Annual meeting of the American Society of Transplant Surgeons and the American Society of Transplantation. May 13-17, 2000, Chicago, Illinois.
7. Steven Flamm, Estella Alonso, Andres T. Blei, Peter Whittington, **Jonathan Fryer**, Frank Stuart, Ricardo Superina, Michael Abecassis. *MR imaging of the liver: A cost-effective, non-invasive single approach to living donor evaluation*. First Joint Annual meeting of the American Society of Transplant Surgeons and the American Society of Transplantation. May 13-17, 2000, Chicago, Illinois.
8. Piyush Golia, Jenny Zhang, Isabelle De Plaen, Gail Thomas, Shixian Yan, Mary Hummel, Dixon Kaufman, **Jonathan Fryer**, Joseph Leventhal, Frank Stuart, Michael Abecassis. *Allogeneic transplantation induces HCMV immediate early gene expression and activates NF κ B*. First Joint Annual meeting of the American Society of Transplant Surgeons and the American Society of Transplantation. May 13-17, 2000, Chicago, Illinois.
9. Joseph R. Leventhal, Na Su, Dixon B. Kaufman, Michael I. Abecassis, Frank P. Stuart, Byron Anderson, Joseph Firca, **Jonathan P. Fryer**. *Altered infectivity of porcine endogenous retrovirus by "Protective" avian antibodies: implications for pig-to-human*

xenotransplantation. First Joint Annual meeting of the American Society of Transplant Surgeons and the American Society of Transplantation. May 13-17, 2000, Chicago, Illinois.

10. Zheng J, Zhang, Zaid Alnadjim, Darren S. Tishler, David Ivancic, Terrence A. Barrett, **Jonathan P. Fryer**. *Activation of foreign antigen specific T cells accelerates small bowel allograft rejection*. First Joint Annual meeting of the American Society of Transplant Surgeons and the American Society of Transplantation. May 13-17, 2000, Chicago, Illinois.
11. Joseph R. Leventhal, Wanda M. Martinez, Jeffrey J. Roszkowski, **Jonathan P. Fryer**, Dixon B. Kaufman, Michael I. Abecassis, Frank P. Stuart, Patricia G. Spear. *Porcine cells are susceptible to infection by human herpes simplex virus*. First Joint Annual meeting of the American Society of Transplant Surgeons and the American Society of Transplantation. May 13-17, 2000, Chicago, Illinois.
12. **Fryer JP**, Zhang Z, Roszkowski J, Pao W. Niekrasz, Leventhal JR, Abecassis MM, Kaufman DB, Stuart F, Anderson B. *Isotype and IgG Subtype Switches Associated with an Elicited Primate Xenobody Response to Non α Gal Porcine Endothelial Antigens*. XVIII International Congress of the Transplantation Society. Rome, Italy, August 27 – September 1, 2000.
13. Tishler DS, **Fryer JP**, Anderson BE, Ivancic DZ, Leventhal JR, Kaufman DB, Abecassis MM, Stuart FP, Zhang Z. *Temporal Characterization of Anti- α 1, 3-Gal Mediated Cardiac Graft Rejection in a Murine Model*. XVIII International Congress of the Transplantation Society. Rome, Italy, August 27 – September 1, 2000.
14. Kaufman DB, Elliott M, Parker M, Leventhal JR, Koffron, Abecassis MM, **Fryer JP**, Stuart J, Stuart FP. *Simultaneous Pancreas/Kidney (SPK) Transplantation in Recipients with Revascularized Coronary Arteries – Long Term Result*. XVIII International Congress of the Transplantation Society. Rome, Italy, August 27 – September 1, 2000.
15. Zhang Z, Alnadjim Z, Tishler DS, Kaptanoglu L, Ivancic D, Barrett TA, **Fryer JP**. *Activation of Foreign Antigen Specific T Cells Accelerates Small Bowel Allograft Rejection*. XVIII International Congress of the Transplantation Society. Rome, Italy, August 27 – September 1, 2000.
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17. Kaufman DB, Leventhal JR, Parker M, Koffron A, Abecassis MM, **Fryer JP**, Stuart J, Stuart FP. *Steroid avoidance in kidney transplantation*. XVIII International Congress of the Transplantation Society. Rome, Italy, August 27 – September 1, 2000.
18. Abecassis M, Golia P, Zhang J, De Plaen I, Thomas G, Yan S, Hummel M, Kaufman D, **Fryer J**, Leventhal J, Stuart F. *Allogeneic transplantation and TNF administration induce HCMV immediate early gene expression and activate NF κ B*. XVIII International Congress of the Transplantation Society. Rome, Italy, August 27 – September 1, 2000.

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23. Koffron A, Herman C, Gross O, Kaufman D, Abecassis M, **Fryer J**, Stuart F, Leventhal J. *Laparoscopic donor nephrectomy: analysis of donor recipient outcomes*. XVIII International Congress of the Transplantation Society. Rome, Italy, August 27 – September 1, 2000.
24. **Fryer JP**, Zhang ZJ, Kaptanoglu L, Ziad A, Ivancic D, Leventhal JR, Kaufman DB, Abecassis MA, Stuart FP, Barrett TA. *IFN-inducible chemokines released by intestinal T cells enhance intestinal allograft rejection*: Transplant 2001 Joint Meeting, Chicago IL, May 11-16, 2001
25. Koffron A, Ferrario M, Nemcek A, Carr J, Blei A, Hirano I, **Fryer J**, Superina R, Kaufman D, Leventhal J, Stuart F, Abecassis M. *Volumetric Evaluation of Right Lobe Living Liver Donors: A Novel Surgical Approach for the Radiologist*. Presented at the Transplant 2001 Meeting, Chicago, IL, May 11-16, 2001.
26. Zhang ZJ, Barrett TA, Kaptanoglu L, Ivancic D, Stuart FP, **Fryer JP**. *Activation of T Cells in an intestinal allograft triggers rejection by influencing host T cell activation and migration*. Transplant 2001 Joint Meeting, Chicago, Illinois, May 11-16, 2001.
27. Golia P, Zheng Z, Ki8m SJ, DePlaen I, Thomas G, Hummel M, Kaufman DB, **Fryer JP**, Leventhal JR, Stuart FP, Abecassis MM. *The combined use of Transgenic (MIEP-lacZ) and Knock-Out (TNFR α 1-1/-) Mice Provides a Novel Strategy for the Mechanistic Study of CMV Immediate Early (IE) Gene Regulation*. Present at the Transplant 2001 Meeting, Chicago, IL, May 11-16, 2001.
28. Zhang Z, Alnadjim Z, Kaptanoglu L, Ivancic D, Luster A, Barrett TA, **Fryer JP**. *CXC chemokines are critical in triggering small bowel allograft rejection following activation of donor T cells by a foreign antigen*. Digestive Disease Week. May 22-23, 2001.
29. **JP Fryer**, S Pellar, D. Ormond. *With TPN-associated Liver Disease – Is a Liver/Intestine Transplant a Good Safety Net?* First Annual Nutrition Week, San Diego, California, February 23-27, 2002.

30. Z Zhang, L Kaptanoglu, W Haddad, D Ivancic, AD Luster, TA Barrett, **JP Fryer**. IP-10 Influences Both Host and Donor T Cell Trafficking in Small Bowel Allograft Rejection Initiated by Donor T Cell Activation. American Transplant Congress. Washington, DC April 26- May 1, 2002.
31. **JP Fryer**, ZJ Zheng, et al. The Role of Donor Derived IP-10 (CXCL10) in Small Bowel Allograft Rejection. American Transplant Congress 2002. Washington, DC April 26 – May 1, 2002.
32. **JP Fryer**, S Pellar, D Ormond. Inappropriate Prioritization of Patients Needing Liver/Intestine Transplants Leads to Very High Waiting List Mortality. American Transplant Congress 2002. Washington, DC April 26-May 1, 2002.
33. **JP Fryer**, S Pellar, D Ormond. Liver Allocation Policies Do Not Address the Higher Waiting List Mortality in Liver/Intestine Compared with Liver Only Transplant Candidates. Digestive Disease Week. San Francisco, CA May 19-22, 2002.
34. Z Zhang, TA Barrett, L Kaptanoglu, D Ivancic, AD Luster, **JP Fryer**. The Role of Interferon-Inducible Protein-10 (IP-10) in Small Bowel Allograft Rejection. Digestive Disease Week. May 22-23, 2002.
35. Z Zhang, TA Barrett, L Kaptanoglu, D Ivancic, AD Luster, **JP Fryer**. Donor T Cell Activation Initiated Small Bowel Allograft Rejection is Dependent upon IFN-Inducible Protein-10. Digestive Disease Week. May 22-23, 2002.
36. **JP Fryer**, S Pellar, D Ormond. Liver/Intestine Transplant Candidates Have Much Higher Waiting List Mortality than Liver Only Transplant Candidates. International Liver Transplantation, Chicago, IL June 13-15, 2002.
37. **JP Fryer**, S Pellar, D Ormond. Liver Allocation Policies Do Not Address the Higher Waiting List Mortality in Liver/Intestine Compared with Liver Only Transplant Candidates. XIX International Congress of Transplantation Society. Miami, FL, August 25-30, 2002.
38. Z Zhang, L Kaptanoglu, W Haddad, D Ivancic, AD Luster, TA Barrett, **JP Fryer**. Interferon-Gamma Inducible Protein-10 (IP-10) Influences T Cell Trafficking in a Foreign Antigen Triggered Small Bowel Allograft Rejection Model. XIX International Congress of Transplantation Society. Miami, FL, August 25-30, 2002
39. Z Zhang TA Barrett, L Kaptanoglu, S, Ivancic, AD Luster, **JP Fryer**. Abrogation of Donor-Derived Interferon-[Gamma] Inducible Protein-10 (IP-10) Inhibits Recruitment of Host Effector Cells into Small Bowel Allograft. XIX International Congress of Transplantation Society. Miami, FL, August 25-30, 2002.
40. **JP Fryer**, S Pellar, D Ormond. Are Pediatric Patients Needing Liver/Intestine Transplants Appropriately Prioritized on the Waiting List? – An Analysis of UNOS Data. Pediatric Intestinal Failure and Rehabilitation Symposium. Pittsburgh, PA, September 12-14, 2002.
41. ZJ Zhang, Y Tang, D Ivancic, Z Alnadjim, T Barrett, **JP Fryer**. Intestinal Crypt Cell Apoptosis during Small Bowel Allograft Rejection Is Independent of Donor-derived Inducible Nitric Oxide Synthase (iNOS). Digestive Disease Week, Orlando, May 19, 2003.

42. **JP Fryer**, ZJ Zhang, Y Tang, L Kaptanoglu, T Barrett. CXCR3, but not CCR5, +ve Host T Cells are Predominant in Lamina Propria Infiltrates in Early Acute Small Bowel Allograft Rejection. Digestive Disease Week, Orlando, May 19, 2003.
43. **JP Fryer**, ZJ Zhang, Y Tang, L Kaptanoglu, Y Tang, D Ivancic, T Barrett. CXCR3, But Not CCR5, Is Important in Early Small Bowel Allograft Rejection in Mice. American Transplant Congress, Washington D.C., June 1, 2003.
44. B Kocak, A Koffron, P Salvalaggio, T Baker, **J Fryer**, D Kaufman, M Abecassis, F Stuart, J Leventhal. Laparoscopic Donor Nephrectomy 1997-2002: Donor and Recipient Outcomes in More Than 400 Cases at a Single Institution. American Transplant Congress, Washington, DC, June 1, 2003.
45. DB Kaufman, JR Leventhal, LG Gallon, I Helenowski, AJ Koffron, **JP Fryer**, MM Abecassis, FP Stuart. Long-term Results of Kidney Transplantation in the Prednisone-Free Era. American Transplant Congress, Washington, DC, June 1, 2003.
46. DB Kaufman, JR Leventhal, LG Gallon, MA Parker, AJ Koffron, **JP Fryer**, MM Abecassis, FP Stuart. Pancreas Transplantation in the Prednisone-Free Era. American Transplant Congress, Washington, DC, June 1, 2003.
47. TA Baker, PR Salvalaggio, AJ Koffron, **JP Fryer**. A Blei, MM Abecassis. Calculation of Graft Liver Size Based on Body Surface Area (BSA) is a Reliable as Radiologic Graft Estimation for Living Donor Liver Transplantation. American Transplant Congress, Washington, DC, June 1, 2003.
48. JR Leventhal, DB Kaufman, LG Gallon, J Stuart AJ Koffron, **JP Fryer**, MM Abecassis, TA Baker, B Kocak, PR Salvalaggio, FP Stuart. Four-Year Single Center Experience with Prednisone Free Immunosuppression in 434 Kidney Transplant Recipients. American Transplant Congress, Washington, DC, June 1, 2003.
49. L Alvarez, M Cellucci, E DeMayo, I Dixler, P Lim, K Turpin, MM Abecassis, DB Kaufman, AJ Koffron, **JP Fryer**, LG Gallon, JR Leventhal. Clinical Pathway Development in Renal Transplantation: 3 Day Length of Stay (LOS) is Achievable, Safe and Cost Effective. American Transplant Congress, Washington, DC, June 1, 2003.
50. JR Leventhal, L Gallon, DB Kaufman, J Stuart, AJ Koffron, **JP Fryer**, M Abecassis, FP Stuart. Alemtuzumab (Campath 1-H) Facilitates Prednisone-Free Immunosuppression (IP) in Kidney Transplant Recipients. American Transplant Congress, Washington, DC, June 1, 2003.
51. Zhang, Z, Ivancic D, Barrett T, **Fryer J**. Multi-lineage chimerism associated with long term survival in an isolated small bowel allograft. VIII International Small Bowel Transplant Symposium. Sept. 10-13, 2003, Miami, FL, Fla.
52. Zhang Z, Tang Y, Ivancic D, Barrett T, **Fryer J**. Donor derived NF κ B dependent mucosal inflammation augments small bowel allograft rejection. Miami VIII International Small Bowel Transplant Symposium. Sept. 10-13, 2003, Miami, Fla.
53. Zhang Z, Ivancic D, Barrett T, **Fryer J**. Neither naïve nor activated (TC1) CD8+ T cells are sufficient effectors of small bowel allograft rejection. VIII International Small Bowel Transplant Symposium. Sept. 10-13, 2003, Miami, Fla.

54. Zhang Z, Ivancic D, Barrett T, **Fryer J**. The critical role of CXCR3+ T Cells in small bowel allograft rejection. VIII International Small Bowel Transplant Symposium. Sept. 10-13, 2003, Miami, Fla.
55. Zhang Z, Cayburgh D, Kles K, Tang Y, Ivancic D, Turner J, Barrett T, **Fryer JP**. Rejection-mediated increases in small bowel (SB) epithelial tight junction permeability requires graft epithelial NFκB activation. XX International Congress of the Transplantation Society. Sept. 5-10 2004, Vienna, Austria.
56. Zhang Z, Ivancic D, Barrett T, **Fryer JP**. Mixed chimerism in association with long-term survival in an isolated small bowel allograft. XX International Congress of the Transplantation Society. Sept. 5-10 2004, Vienna, Austria.
57. Zhang Z, Chow C, Ivancic D, Hummel M, **Fryer JP**. Blocking NFκB activation in recipient T cells prolongs small bowel allograft survival in a mouse model of orthotopic SB transplantation. XX International Congress of the Transplantation Society. Sept. 5-10 2004, Vienna, Austria.
58. Zhang Z, Tang Y, Ivancic D, Chow C, Barrett T, **Fryer JP**. Early small bowel allograft rejection causes a functional defect in intestinal epithelial sucrase activity. XX International Congress of the Transplantation Society. Sept. 5-10 2004, Vienna, Austria.
59. Brussels Mtg.
60. Modanlou KA, Axelrod DA, Koffron AJ, **Fryer J**, Baker T, Al-Saden P, Abecassis M. Significance of Elevated Serum Troponin (sT) Levels in Liver Transplant (LT) Recipients in the Immediate Post-Operative Period. 2005 ATC Meeting, Washington, DC, May 20-25, 2005.
61. **Fryer JP**. Awaiting list outcomes with Intestinal Transplant Candidates since 1993. 2005 ATC Meeting, Washington, DC, May 20-25, 2005.
62. Salvalaggio P, Baker T, Koffron A, **Fryer J**, Clark L, Blei A, Nemcek A, Superina R, Abecassis M. A Critical Analysis of Liver Graft Volume Estimation in 100 Living Donors - A Case for Less is More. 2005 ATC Meeting, Washington, DC, May 20-25, 2005.
63. Salvalaggio P, Koffron A, Clark L, Baker T, **Fryer J**, Blei A, McNatt G, Superina R, Abecassis M. Trends in Living Donor Rule-Ins and Rule-Outs: Lessons Learned from 100 Living Donor Liver Transplants (LDLT). 2005 ATC Meeting, Washington, DC, May 20-25, 2005.
64. Kocak B, Koffron AJ, Baker TB, Salvalaggio PRO, Kaufman DB, **Fryer JP**, Abecassis, MM. A Proposed Classification of Complications Following Live Donor Nephrectomy. 2005 ATC Meeting, Washington, DC, May 20-25, 2005.
65. Axelrod DA, Koffron AJ, **Fryer J**, Baker TB, Al-Saden P, McNatt G, Sumner Scott, Modanlou K, Abecassis M. Economic Impact of Combined Liver/Kidney Transplant. 2005 ATC Meeting, Washington, DC, May 20-25, 2005.

66. Zhang Z, Chow CJ, Ivancic D, Hummel M, **Fryer JP**. TNF Independent Activation of Graft Derived NF-KappaB (NFKB) Augments Small Bowel (SB) allograft Rejection in a Mouse Model of SB Transplantation. 2005 ATC Meeting, Washington, DC, May 20-25, 2005.
67. Zhang Z, Chow CJ, Ivancic D, Hummel M, **Fryer JP**. Role to T-Cell Specific NF-KappaB (NFKB) Activation in Small Bowel (SB) Allograft Rejection in a Mouse Model of Orthotopic SB Transplantation. 2005 ATC Meeting, Washington, DC, May 20-25, 2005.
68. Kocak B, Koffron AJ, Baker TB, Salvalaggio PRO, Kaufman DB, **Fryer JP**, Abecassis MM. A Helping Hand? Single Center Experience with Hand Assisted vs. Standard Laparoscopic Living Donor Nephrectomy. 2005 ATC Meeting, Washington, DC, May 20-25, 2005.
69. Axelrod DA, Modanlou K, Koffron AJ, **Fryer J**, Baker TB, McNatt G, Sumner S, Abecassis MM. The Economic Implications of MELD: A Single Center Perspective. 2005 ATC Meeting, Washington, DC, May 20-25, 2005.
70. Leventhal JR, Baker TB, Koffron AJ, Kocak B, Gallon L, Friedewald J, Luo X, Kaufman DB, **Fryer JP**, Abecassis MM. Laparoscopic Donor Nephrectomy (LDN) 1997-2006: Lessons learned with 800 cases at a single institution. 2006 WTC Meeting, Boston, MA July 22-27, 2006
71. Zhang Z, Chow CJ, Tang Y, Barrett TA, **Fryer JP**. Activation of Mucosal Nf-KB and AP-1 in Small Bowel Allografts through TNF Receptor Independent Pathways. 2006 WTC Meeting, Boston, MA July 22-27, 2006
72. Zhang Z, Chen X, Lu Y, Xiu J, Kaufman DB, **Fryer JP**. Effect on NF-KB activation in the Altered Small Bowel Epithelial Permeability Following Ischemia/Reperfusion Injury. 2006 WTC Meeting, Boston, MA July 22-27, 2006
73. **Fryer J**, Dixler I, Buchman A, Iyer K, Cochran V, Abecassis M. Frequency and Impact of Intestine Transplant Listing When Liver Transplant Is also Needed. 2006 WTC Meeting, Boston, MA July 22-27, 2006
74. **Fryer JP**, Iyer K, Buchman A, Cochran V, Abecassis M. The Impact of MELD/PELD on Intestinal Transplantation. 2006 WTC Meeting, Boston, MA July 22-27, 2006
75. **Fryer JP**, Dixler I, Preczewski L, McNatt G, Abecassis M. Short Length of Stay Does Not Compromise Good Outcomes. 2006 WTC Meeting, Boston, MA July 22-27, 2006
76. **Fryer JP**, Chungfat Neil, Dixler I, Cochran V, Buchman A. Meld/Peld Scores Do Not Appropriately Prioritize Liver Intestine Transplant Candidates On The Liver Transplant Wait List. 2007 Nutrition Week, Phoenix, Arizona January 28-31, 2007
77. Fitzhugh J, Mikalunas V, Polensky S, Rubin H, Gerdzos J, Burch T, Wallin A, **Fryer JP**, Buchman A, Craig R. Incidence of Catheter Sepsis in Parental Nutrition Patients Before and After the Implementation of Strict Policies for Catheter Care. 2007 Nutrition Week January 28-31, 2007
78. Fitzhugh J, **Fryer JP**, Polensky S, Wallin A, Buchman A. Success in TPN Reduction with Intestinal Rehabilitation. 2007 Nutrition Week January 28-31, 2007

79. **Fryer JP**, Chungfat N, Dixler I, Cohran V, Buchman A. Intestinal Transplantation is Usually Considered Late – When Severe Liver Disease Mandates a Liver Transplant also and Compromises the Outcome. 2007 Nutrition Week January 28-31, 2007
80. **Fryer JP**, Putchakayala K, Polensky S, Fitzhugh J, Cohran V, Buchman A. C-reactive Protein (crp) Is Predictive Of Mortality In Intestinal Failure Patients. 2007 Nutrition Week January 28-31, 2007
81. **Fryer JP**, Putchakayal K, Polensky S, Wallin A, Fitzhugh J, Cohran V, Buchman A. Evaluation of the Model For End-Stage Liver Disease (meld) Score As A Predictor For Outcomes In Intestinal Failure Patients. 2007 Nutrition Week January 28-31, 2007

H. Presentations:

Invited Lectures, Symposia, Visiting Professors, Etc:

Invited Lectures/Visiting Professorships:

Educational Presentations at other Institutions

1. “Short Bowel Syndrome”. Surgical Grand Rounds. Mt. Sinai Hospital, Chicago, IL March 2001
2. “Short Bowel Syndrome” Medical Grand Rounds. Lutheran General Hospital. December, 2001
3. “Short Bowel Syndrome” Medical Grand Rounds. Evanston Hospital, November 2001
4. “Short Bowel Syndrome” Surgical Nutrition Rounds. Cook County Hospital, May 2002
5. “Short Bowel Syndrome and Intestinal Transplantation”. Medical Grand Rounds. Loyola University Medical Center. November 5, 2002.
6. “Surgical Strategies for Short Bowel Syndrome”. Medical Grand Rounds. Thorek Hospital. February 14, 2003.
7. “The Role of Intestinal Transplantation in HPN patient management- Aetna Healthcare. April 16, 2003.
8. Epithelial tight junction protein changes in early small bowel allograft rejection. 5th Chicago GI Epithelium and Mucosa (GEM) Club Meeting. University of Illinois Chicago. March 31, 2004
9. “Intestinal Failure Management in 2005” Evansville, Indiana. September 6, 2005
10. “Intestinal Failure Management in 2005” Henderson Hospital, Grand Rounds, Kentucky, September 7, 2005.
11. “Innovative approaches to the Organ Donor Shortage”. Intestinal Failure current and emerging therapies including transplantation. NIH sponsored workshop. February 8, 2004. Las Vegas
12. “Liver Transplantation, Intestinal Rehabilitation and Transplantation” Gut Club, Lombard Illinois. Feb 6, 2006
13. “Liver and Intestine Transplantation” Principal In-service. Cedar Rapids, Iowa City, Iowa, March 8, 2006.
14. “Intestinal Transplantation” 2nd Annual Snowbird Conference on Clinical Management of Inflammatory Bowel Diseases and Intestinal Failure. Snowbird, Utah. March 9-12, 2006.
15. “Needs Assessment for Curriculum Development for Transplant Surgery Fellowship” Association for Surgical Education Meeting. Tucson, Arizona, March 24, 2006.
16. “Intestinal Failure Pathophysiology and the Spectrum of Disease Management”. The Society for Surgery of the Alimentary Tract Mtg. Post Graduate Course. May 21, 2006, Los Angeles, California

17. "Donor Allocation for Intestine Patients: Can We Improve the System?" 4th Intestinal Pediatric Intestinal Failure & Rehabilitation Symposium. Pittsburgh, Pennsylvania. June 1-3, 2006.
18. "Intestinal Failure in the USA-What's Wrong with this Picture" Transplant Grand Rounds. Mt. Sinai, New York, June 19, 2006.
19. "Intestinal Failure in the USA-What's Wrong with this Picture" United Resource Network, Minneapolis, MN, September 11, 2006.
20. Intestinal Failure and Transplantation. Cleveland Clinic Foundataion. Cleveland Ohio, November 6, 2006.

Revised: February 2007