Curriculum vitae: Ian Robert Wanless

Revised March 28, 2020 (See last 2 sections for brief summaries)

Contents

- Biographical information
- Referreed Publications
- Chapters and non-referred publications
- Presentations (oral papers, posters, published abstracts).
- Invited lectures, national and international
- · Summary of research endeavors
- Brief Biography

Biographical information

Birth: July 31, 1945, Sarnia, Ontario, Canada

Citizenship: Canadian

Spouse: Eve Ann Roberts, MA, MD, PhD, FRCPC, FAASLD

Office address:

Queen Elizabeth II Health Sciences Centre Division of Anatomic Pathology, MacKenzie Building, 7th floor, 740-5788 University Ave, Halifax, NS, Canada

B3H 1V8

Fax: 902-473-1049 Website: www.ianwanless.com E-mail: iwanless@eastlink.ca

Education/ degrees/ diplomas

1967	B.Sc. (Honours biochemistry), McGill University	
1971	M.D.,C.M., McGill University	
1971-2	Rotating Internship, Royal Alexandra Hospital, Edmonton, Alberta	
1972	Licentiate of the Medical Council of Canada	
1972-3	Resident, Internal Medicine, University of Alberta Hospital, Edmonton	
1973-4	Resident, Anatomical Pathology, University of Alberta Hospital	
1974	General License, College of Physicians and Surgeons of Ontario	
1974-8	Resident, Anatomical and Clinical Pathology, Cornell University Medical College, New York	
1977	Fellow, Royal College of Physicians and Surgeons of Canada, General Pathology	
1978	Diplomate, American Board of Pathology, Anatomical and Clinical Pathology	
1978-	Member, Canadian Medical Protective Association	
2006-	Full license with specialty registration in General Pathology with the College of Physicians and Surgeons	
of Nova Scotia.		

Employment

2006-	Professor, Department of Pathology, Dalhousie University, Halifax, Canada	
2006-	Staff Pathologist, Queen Elizabeth II Health Sciences Centre, Victoria Site, Halifax, Canada	
1996-06	Professor, Department of Pathology, University of Toronto (renamed Department of Laboratory	
Medicine and Pathobiology 1997)		
1987-96	Associate Professor, Department of Pathology, University of Toronto	
1980-87	Assistant Professor, Department of Pathology, University of Toronto	
1978-80	Lecturer, Department of Pathology, University of Toronto	
1995-98	Consultant Pathologist, Princess Margaret Hospital (until PMH merged with TGH, 1998)	
1990-95	Director, Canadian Liver Pathology Reference Centre	
1990-06	Staff Pathologist, Toronto General Hospital, Toronto (Renamed University Health Network ca. 2000	
(1990-92 - Head or co-head of Autopsy Service)		
1985-90	Secretary, Canadian Liver Pathology Reference Centre	
1990-05	Consultant Pathologist, Hospital for Sick Children	
1980-92	Consultant Pathologist, Clinical Institute of Addiction Research Foundation	
1978-90	Staff Pathologist, Toronto Western Hospital, Toronto	

Honours

Selection of paper (#16) for Yearbook of Pathology and Clinical Pathology, 1986

Selection of paper (#18) for Yearbook of Digestive Diseases, 1986

Selection of paper (#20) for Yearbook of Digestive Diseases, 1986

Selection of paper (#25) for editorial review in Hepatology, 1989.

Selection of paper (#30) for Gastroenterology Digest, 1990.

Selection of paper (#33) for Yearbook of Digestive Diseases, 1992

Member, Environmental Liver Panel, Armed Forces Institute of Pathology, 1993-95

Chair, International Working Party of World Congresses of Gastroenterology for the Nomenclature of Hepatocellular Nodules, 1994-5.

President Hans Popper Hepatopathology Society, 2002-4

Queen's Jubilee Medal, 2003

Member International Liver Study Group (Gnomes), 2004-

Gold Medal, Canadian Liver Foundation, 2005

Hans Popper Hepatopathology Society Lifetime Achievement Award, 2020

Professional affiliations and activities

American Association for the Study of Liver Disease, member

Canadian Association for the Study of the Liver, member (and Councilor and chair of membership committee 1990-92.

International Academy of Pathology (US-Can Academy of Pathology), member, to 2011 Hans Popper Hepatopathology Society, charter member, president 2002-2004 The Laennec Liver Pathology Society, 1997-, founding president (secretary from 2006) International Liver Study Group (Gnomes), 2004-, member

Reviewer for journals

Am J Gastroenterology, Am J Pathol, Arch Pathol Lab Med, Bone Marrow Transplantation, Cancer, Cancer Research, Can J Gastroenterol, Cardiovascular Pathology, Comparative Hepatology, Dig Dis Sci, Exp Mol Pathol, Gastroenterology, Gut, Hepatology, Hepatology Research, Hepatology International, Histopathology, J Hepatology, J Gastroenterology and Hepatology, J Histochem Cytochem, J Rheumatology, Liver, Liver

International, Liver Transpl Surg, The Medical Letter, N Engl J Med, Obesity Res, Proc Nat Acad Sciences (USA), Tumor Biology, Virchows Archives (This list not current)

Editorial boards:

Hepatology International, Journal of Clinical and Experimental Hepatology, Liver International, Surgical and Experimental Pathology (This list not current)

Committees

Postgraduate Education Committee, Department of Pathology, U. of T (1984-1990)

Continuing Medical Education Committee, Department of Pathology, U. of T. (1986-8)

Medical Education Committee, TWH (1987-88)

Faculty Council, Faculty of Medicine, representative for Pathology, (1989-93)

Canadian Liver Foundation, Medical Advisory Board Executive Commmittee (1990-1995)

Canadian Association for Study of the Liver, Councillor (1990-) and chairman of membership committee (1991-1995)

Environmental Liver Panel, Armed Forces Institute of Pathology, member

Nomenclature Committee for World Congress of Gastroenterology, chair for terminology of nodular lesions, 1993-94

Nomenclature Committee for World Congress of Gastroenterology, panel member for terminology of chronic hepatitis (1993-94)

Abstract Selection Committee, American Assoc. for the Study of Liver Diseases (1994)

Editorial Committee, Liver Letter (1994-96)

Secretary-Treasurer, The Toronto Hospital Pathology Associates (1994-5)

Chair, The Toronto Hospital Pathology Associates (1995-6)

Steering Committee, Canadian Viral Hepatitis Network (2000-2)

Appointments and Promotions Committee, Dalhousie, 2007-2011 (chair 2008-2011)

Pathology-Immunology-Microbiology Unit, Pathology Component Chair, Dalhousie, 2009-2010

Med I-II curriculum committee, Dalhousie, 2009-2010

Refereed Publications

- 1. Fensom DS, Wanless IR. Further studies of electro-osmosis in Nitella in relation to pores in membranes. J Exptl Bot 1967;18:563-577.
- 2. Wanless IR, Bryniak N, Fensom DS. The effect of some growth- regulating compounds upon electroosmotic measurements, transcellular water flow and Na, K, and Cl influx in Nitella flexilis. Can J Bot 1973;51:1055-1070.
- 3. Wanless IR, Mielke B, et al. Mesothelioma of the AV-node with longstanding complete heart block. Report of a case. Am J Clin Pathol 1975;63:377-383.
- 4. Wanless IR, Gledhill RW. Failure to produce hepatic hyperplastic nodules in rats by portacaval anastomosis and testosterone. Nature 1979;277:327-328.
- 5. Wanless IR, Godwin TA, Allen F, Feder A. Nodular regenerative hyperplasia of the liver in hematologic disorders: A possible response to obliterative portal venopathy. Medicine (Baltimore) 1980;59:367-379.
- 6. Wanless IR, Solt L, Kortan P, Deck JHN, Gardiner GW, Prokipchuk EJ. Nodular regenerative hyperplasia of the liver associated with macroglobulinemia: A clue to the pathogenesis. Am J Med 1981;70:1203-1209.
- 7. Orrego H, Israel Y, Crossley IR, Mahmoud AAF, Peters PA, Varghese G, Wanless IR. Effect of chronic alcohol intake on hepatic fibrosis and granulomas in murine schistosomiasis mansoni. Hepatology 1981;1:416-418.
- 8. Wanless IR, Medline A. The role of estrogens as promoters of hepatic neoplasia. Lab Invest 1982;46:313-320.
- 9. Wanless IR, Bernier V, Seger M. Intrahepatic portal sclerosis in patients without history of liver disease: An autopsy study. Am J Pathol 1982;106: 63-70.
- 10. Thorne C, Urowitz M, Wanless IR, Roberts E, Blendis L. Liver disease in Felty's syndrome. Am J Med 1982;73:35-40.
- 11. Whittaker SJ, Amar JN, Wanless IR, Heathcote J. Sulindac hepatotoxicity. Gut 1982;23:875-877.
- 12. Wanless IR, Bernier V. Fibrous thickening of the splenic capsule. A response to chronic splenic congestion. Arch Pathol Lab Med 1983;107:595-599.
- 13. Wanless IR. The cellular distribution of vitamin A in the liver. Liver 1983;3:403-409.
- 14. Wanless IR. The effect of dietary cholesterol on platelet survival in the rabbit. A study using 14C-serotonin and 51Chromium double-labelled platelets. Thromb Haemost 1984;52:85-89.
- 15. Reynolds J, Wanless IR. Nodular regenerative hyperplasia of the liver in a patient with rheumatoid arteritis. J Rheumatol 1984;11: 838-842.
- 16. Roberts EA, Cox DW, Medline A, Wanless IR. Occurrence of alpha-1-anti-trypsin deficiency in 155 patients with alcoholic liver disease. Am J Clin Pathol 1984;82:424-427.
- 17. Mitwalli A, Rodella H, Brandes L, Wanless I, Wu G, Ogilvie R, Schilling H, Dobbie JW, Wilson LS, Oreopoulos DG. Is fat absorbed through the peritoneum? Perit Dial Bull 1985;5:165-168.
- 18. Wanless IR, Lentz JS, Roberts EA. Partial nodular transformation of the liver in an adult with persistent ductus venosus. A review with hypothesis on the pathogenesis. Arch Pathol Lab Med 1985;109:427-432.
- 19. Wanless IR, Geddie WR. Lipogranulomata in liver and spleen: An autopsy series. Arch Pathol Lab Med 1985;109:283-286.

- 20. Wanless IR, Mawdsley C, Adams R. On the pathogenesis of focal nodular hyperplasia of the liver. Hepatology 1985;5:1194-1200.
- 21. Wanless IR, Gryfe A. Nodular transformation of the liver in hereditary hemorrhagic telangiectasia. Arch Pathol Lab Med 1986;110: 331-335.
- 22. Grupp LA, Perlanski E, Wanless IR, Stewart RB. Voluntary alcohol intake in the hypertension prone Dahl rat. Pharmacol Biochem Behav 1986;24:1167-1174.
- 23. Singer P, Wanless I, Silver H, Keating A. Pulmonary tumor emboli, microangiopathic hemolytic anemia and dyspnea in disseminated cancer. The Cancer Journal 1986;1:76-78.
- 24. Wanless IR, Zahradnik J, Heathcote EJ. Hepatic cysts of periductal gland origin presenting as obstructive jaundice. Gastroenterology 1987;93:894-898.
- 25. Kim YI, Heathcote J, Wanless IR. The hepatitis B carrier state a followup study of 100 consecutive cases. Clin Invest Med 1987;10:383-387.
- 26. Wanless IR, Bargman J, Oreopoulos D, Vas S. Subcapsular steatonecrosis of the liver in response to peritoneal insulin delivery: A clue to the pathogenesis of steatonecrosis in obesity. Modern Pathology 1989;2:69-74.
- 27. Wanless IR: Coexistent pulmonary and portal hypertension: Yin and Yang. (editorial). Hepatology 1989;10:255-257.
- 28. Wanless IR, Albrecht S, Bilbao J, Frei JV, Heathcote EJ, Roberts EA, Chiasson D. Multiple focal nodular hyperplasia of the liver associated with vascular malformations of various organs and neoplasia of the brain: a new syndrome. Modern Pathology 1989;2:456-462.
- 29. Wanless IR, Dore S, Gopinath N, Tan J, Cameron R, Heathcote EJ, Blendis LM, Levy G. Histopathology of cocaine hepatotoxicity: report of four patients. Gastroenterology 1990;98:497-501.
- 30. Flowers MA, Heathcote EJ, Wanless IR, Sherman M, Reynolds WJ, Cameron RG, Levy GA, Inman RD. Fulminant hepatitis as a consequence of reactivation of hepatitis B virus infection after discontinuation of low-dose methotrexate therapy. Ann Intern Med 1990;112:381-382.
- 31. Wanless IR. Micronodular transformation (nodular regenerative hyperplasia) of the liver: a report of 64 cases among 2500 autopsies and a new classification of benign hepatocellular nodules. Hepatology 1990;11:787-797.
- Witt-Sullivan H, Heathcote J, Cauch K, Blendis L, Ghent C, Katz A, Milner R, Pappas RC, Rankin J, Wanless IR. The demography of primary biliary cirrhosis in Ontario, Canada. Hepatology 1990;12:98-105.
- 33. Wanless IR, Lentz JS. Fatty liver hepatitis (steatohepatitis) and obesity: An autopsy study with analysis of risk factors. Hepatology 1990;12:1106-1110.
- 34. Wanless IR, Peterson P, Das A, Boitnott JK, Moore GW, Bernier V. Hepatic vascular disease and portal hypertension in polycythemia vera and agnogenic myeloid metaplasia: a clinico-pathological study of 145 patients examined at autopsy. Hepatology 1990;12:1166-1174.
- 35. Phillips MJ, Cameron R, Flowers MA, Blendis LM, Greig PD, Wanless I, Sherman M, Superina R, Langer B, Levy GA. Post-transplant recurrent hepatitis B viral liver disease. Am J Pathol 1992;140:1295-1308.
- 36. Liu G, Butany J, Wanless IR, Cameron R, Greig P. The vascular pathology of human hepatic allografts. Hum Pathol 1993;24:182-188.
- 37. Donaldson BW, Gopinath R, Wanless IR, Phillips MJ, Cameron R, Roberts EA, Greig PD, Levy G, Blendis LM. The role of transjugular liver biopsy in fulminant liver failure relation to other prognostic indicators. Hepatology 1993;18:1370-1374.

- 38. Michieletti P, Wanless IR, Katz A, Scheuer PJ, Yeaman SJ, Bassendine MF, Palmer JM, Heathcote EJ. Antimitochondrial antibody negative primary biliary cirrhosis: a distinct syndrome of autoimmune cholangitis. Gut 1994;35:260-265.
- 39. Heathcote EJL, Cauch K, Walker V, Bailey RJ, Blendis LM, Ghent CN, Minuk GY, Pappas SC, Scully L, Steinbrecher UP, Sutherland L, Williams CN, Worobetz L, Milner RA, Wanless IR, Witt-Sullivan H. The Canadian multi-center double blind randomized controlled trial of ursodeoxycholic acid in primary biliary cirrhosis. Hepatology 1994;19:1149-1156.
- 40. Altraif I, Lilly L, Wanless IR, Heathcote EJ. Cholestatic liver disease with ductopenia (vanishing bile duct syndrome) following clindamycin and trimethoprim-sulfamethoxazole administration. Am J Gastroenterology 1994;89:1230-1234.
- 41. Woolf GM, Petrovic LM, Rojter SE, Wainwright S, Villamil FG, Katkov WN, Michieletti P, Wanless IR, Stermitz FR, Beck JJ, Vierling JM. Acute hepatitis associated with the Chinese herbal product Jin Bu Huan. Ann Intern Med 1994; 121:729-735.
- 42. Sadowski D, Lee SS, Wanless IR, Kelly JK, Heathcote EJ. Progressive type of focal nodular hyperplasia characterized by multiple tumors and recurrence. Hepatology 1995;21:970-975.
- 43. Wong DKH, Colina Y, Naylor CD, Chen E, Sherman M, Vas S, Wanless IR, Read S, Li H, Heathcote EJ. Interferon alfa treatment of chronic hepatitis B: Randomized trial in a predominantly homosexual male population. Gastroenterology 1995;108:165-171.
- 44. Wanless IR, Wong F, Blendis LM, Greig P, Heathcote EJ, Levy G. Hepatic and portal vein thrombosis in cirrhosis: possible role in development of parenchymal extinction and portal hypertension. Hepatology 1995;21:1238-1247.
- 45. Wanless IR, Liu J, Butany J. Role of thrombosis in the pathogenesis of congestive hepatic fibrosis (cardiac cirrhosis). Hepatology 1995;21:1232-1237.
- 46. Batchelor, WB, Heathcote J, Wanless IR. Chaparral-induced hepatic injury. Am J Gastroenterol 1995;90:831-833.
- 47. Heathcote EJ, Wanless IR. Hepatotoxicity: Newer aspects of pathogenesis and treatment. The Gastroenterologist 1995;3:119-129.
- 48. Wanless IR, et al. (International Working Party of World Congresses of Gastroenterology). Terminology of Nodular Lesions of the Liver. Hepatology 1995;22:983-993.
- 49. Battaglia DM, Wanless IR, Brady AP, Mackenzie RL. Intrahepatic sequestered segment of liver presenting as focal fatty change. Am J Gastroenterology 1995;90:238-239.
- 50. Wanless IR, Aljumah AA, Sherman M, Wilson S, Langer B, Saito A. Lipiodol accumulation in hepatic hemangioma. Am J Surg Pathol 1996;20:480-482.
- 51. Cattral MS, Krajden M, Wanless IR, Rezig M, Cameron R, Greig PD, Chung SW, Levy GA. A pilot study of ribavirin therapy for hepatitis C virus infection after liver transplantation. Transplantation 1996;61:1483-8.
- 52. Redston MS, Wanless IR. The hepatic von Meyenburg complex: Prevalence and association with hepatic and renal cysts among 2843 autopsies. Modern Pathology 1996;9:233-237.
- 53. Muradali D, Wilson S, Wanless IR, Greig, PD, Cattral M, Cameron RG, Levy GA. Peliosis hepatis with intrahepatic calcifications. J Ultrasound Med 1996;15:257-260
- 54. Soares M, Wanless IR, Cameron R, Ambus U. Entero-portal fistula secondary to penetrating duodenal peptic ulcer. Am J Gastroenterol 1996;91:1462-1463.

- 55. Wanless IR. Nodular regenerative hyperplasia, dysplasia, and hepatocellular carcinoma (editorial). Am J Gastroenterol 1996:91:836-837.
- Wanless IR, Belgiorno J, Huet PM. Hepatic sinusoidal fibrosis induced by cholesterol and stilbestrol in the rabbit: 1. Morphology and inhibition of fibrogenesis by dipyridamole. Hepatology 1996;24:855-864.
- 57. Mastaï R, Laganière S, Wanless IR, Giroux L, Rocheleau B, Huet PM. Hepatic sinusoidal fibrosis induced by cholesterol and stilbestrol in the rabbit. 2. Hemodynamic and drug disposition studies. Hepatology 1996;24:865-870.
- 58. Aljumah AA, Cattral MS, Greig PD, Wanless IR, Krajden M, Hemming AW, Lilly LB, Levy GA. Longterm ribavirin therapy for recurrent hepatitis C after liver transplantation. Transplant Proc 1997;29:514.
- 59. Shimamatsu K, Wanless IR. Role of ischemia in causing apoptosis, atrophy, and nodular hyperplasia in human liver. Hepatology 1997;26:343-350.
- 60. Chung SW, Greig PD, Cattral MS, Taylor BR, Sheiner PA, Wanless IR, Cameron R, et al. Evaluation of liver transplantation for high-risk indications. Br J Surg 1997;84:189-95.
- 61. Moreno-Merlo F, Wanless IR, Shimamatsu K, Sherman M, Greig P, Chiasson D. The role of granulomatous phlebitis and thrombosis in the pathogenesis of cirrhosis and portal hypertension in sarcoidosis. Hepatology 1997;26:554-560.
- 62. Philosophe B, Greig PD, Hemming AW, Cattral MS, Wanless I, Rasul I, Baxter N, et al. Surgical management of hepatocellular carcinoma: resection or transplantation? J Gastrointest Surg 1998;2:21-7.
- 63. Tanaka M, Wanless IR. Pathology of the liver in Budd-Chiari syndrome: portal vein thrombosis and the histogenesis of veno-centric cirrhosis, veno-portal cirrhosis, and large regenerative nodules. Hepatology 1998;27:488-496.
- 64. McEntee M, Wright K, Wanless IR, DeNovo R, Shull R. Non-cirrhotic portal hypertension and nodular regenerative hyperplasia of the liver in dogs with mucopolysaccharidosis I (MPS-I). Hepatology 1998, 28:385-90.
- 65. Hyman A, Yim C, Krajden M et al. Oral Prostaglandin (PGE2) Therapy for Chronic Viral Hepatitis B and C. J Viral Hepat. 1999;6:329-336. (C)
- 66. Springer J, Cauch-Dudek K, O'Rourke K, Wanless, IR, Heathcote EJ. Asymptomatic primary biliary cirrhosis: a study of its natural history and prognosis. Am J Gastroenterol 1999;94:47-53. (C)
- 67. Cattral MS, Hemming AW, Wanless IR, Al Ashgar H, Krajden M, Lilly L, et al. Outcome of long-term ribavirin therapy for recurrent hepatitis C after liver transplantation. Transplantation 1999;67(9):1277-80. (C)
- 68. Sasaki M, Nakanuma Y, Gershwin ME, Demetris AJ, Wanless IR, Thung SN, Miyakawa H, Kage M, and Mitsui T. Biotin-related proteins of 70 and 72 kDa in gallbladder bile in primary biliary cirrhosis. Hepatology Research 1999;14,154-160. (C)
- 69. Wanless IR, Nakashima E, Sherman M. Regression of human cirrhosis: morphologic features and the genesis of incomplete septal cirrhosis. Arch Pathol Lab Med 2000;124:1599-607. (SRA)
- 70. Wanless IR. Epithelioid hemangioendothelioma, multiple focal nodular hyperplasias, and cavernous hemangiomas of the liver [letter]. Arch Pathol Lab Med 2000;124:1105-7. (SRA)
- 71. Wanless IR. Regression of human cirrhosis: In Reply. Arch Pathol Lab Med 2000;124:1592-3. (SRA)
- 72. Comay D, Cauch-Dudek K, Hemphill D, Diamandis E, Wanless I, Heathcote EJ. Are antibodies to carbonic anhydrase II specific for anti-mitochondrial antibody-negative primary biliary cirrhosis? Dig Dis Sci 2000;45(10):2018-21. (C)

- 73. Bigam DL, Pennington JJ, Carpentier A, Wanless IR, Hemming AW, Croxford R, et al. Hepatitis C-related cirrhosis: a predictor of diabetes after liver transplantation. Hepatology 2000;32:87-90. (C)
- 74. Demetris A, Adams D, Bellamy C, Blakolmer K, Clouston A, Dhillon AP, et al. Update of the International Banff Schema for Liver Allograft Rejection: working recommendations for the histopathologic staging and reporting of chronic rejection. An International Panel. Hepatology 2000;31:792-9. (C)
- 75. Bioulac-Sage P, Balabaud C, Wanless. IR. Diagnosis of Focal Nodular Hyperplasia. Am J Surg Pathol 2001;25(10):1322-5. (SRA)
- 76. Wanless IR. Use of corticosteroid therapy in autoimmune hepatitis resulting in the resolution of cirrhosis (editorial). J Clin Gastroenterol 2001;32(5):371-2. (SRA)
- 77. Malkan G, Humar A, Lilly L, Greig PD, Grant D, Wanless IR, et al. Natural history of recurrent hepatitis C after liver transplantation. Transplant Proc 2001;33(1-2):1468. (C)
- 78. Bourdeau A, Faughnan ME, McDonald ML, Paterson AD, Wanless IR, Letarte M. Potential role of modifier genes influencing transforming growth factor- beta1 levels in the development of vascular defects in endoglin heterozygous mice with hereditary hemorrhagic telangiectasia. Am J Pathol 2001;158(6):2011-20. (C)
- 79. Joshi S, Cauch-Dudek K, Wanless IR, et al. Primary biliary cirrhosis with additional features of autoimmune hepatitis: response to therapy with ursodeoxycholic acid. Hepatology 2002;35:409-13. (C)
- 80. Tinmouth J, Lee M, Wanless IR, Tsui FW, Inman R, Heathcote EJ. Apoptosis of biliary epithelial cells in primary biliary cirrhosis and primary sclerosing cholangitis. Liver 2002;22:228-34. (C)
- 81. Wanless IR, Sweeney G, Dhillon AP, et al. Lack of progressive hepatic fibrosis during long term therapy with deferiprone in subjects with transfusion-dependent Beta-thalassemia. Blood, 2002;100:1566-1569. (SRA)
- 82. Capurro M, Wanless IR, Sherman M, Deboer G Shi W, Miyoshi E, Filmus J. Glypican-3: a novel serum and histochemical marker for hepatocellular carcinoma, Gastroenterology, 2003;125:89-97. (C)
- 83. Wanless IR, Sweeney G, Dhillon AP, Guido M, Piga A, Galanello R, Schwartz E, Cohen A. Deferiprone and the treatment of iron overload (letter). Blood 2003;101: 5090-5091. (SRA)
- 84. Yeung E, Wanless IR, Wong F, Guindi M. Ramipril-associated hepatotoxicity, Arch Pathol Lab Med 2003;127(11):1493-7. (SRA)
- 85. Dahlan Y, Smith L, Simmonds D, Jewell LD, Wanless I, Heathcote EJ, Bain V. Pediatric-onset primary biliary cirrhosis. Gastroenterology 2003;125(5):1476-9.
- 86. Khalili K, Lan FP, Hanbidge AE, Muradali D, Oreopoulos DG, Wanless IR. Hepatic subcapsular steatosis in response to intraperitoneal insulin delivery: CT findings and prevalence. AJR Am J Roentgenol 2003;180:1601-4.
- 87. Wanless IR, Shiota K. The pathogenesis of nonalcoholic steatohepatitis (NASH) and other fatty liver diseases: A four step model including the role of lipid release and hepatic venular obstruction in the progression to cirrhosis. Semin Liver Dis 2004;24:99-106.(SRA).
- 88. Ward, NL, Haninec, AL, Van Slyke P, Sled JG, Sturk C, Henkelman RM, Wanless IR, Dumont DJ. Angiopoietin-1 causes reversible degradation of the portal microcirculation in mice: implications for treatment of liver disease. Am J Pathol 2004, 165(3):889-99.
- 89. Roskams TA, Theise ND, Balabaud C, Bhagat G, Bhathal PS, Bioulac-Sage P, Brunt EM, Crawford JM, Crosby HA, Desmet V, Finegold MJ, Geller SA, Gouw AS, Hytiroglou P, Knisely AS, Kojiro M, Lefkowitch JH, Nakanuma Y, Olynyk JK, Park YN, Portmann B, Saxena R, Scheuer PJ, Strain AJ, Thung SN, Wanless IR,

- West AB. Nomenclature of the finer branches of the biliary tree: canals, ductules, and ductular reactions in human livers. Hepatology. 2004 Jun;39(6):1739-45.
- 90. de Groot CJ, van Goor GM, Stolk MF, Metselaar HJ, Janssen HL, Kazemier G, Zondervan PE, Wanless IR. Liver failure after delivery. Gut 2005;54(5):672.
- 91. Feld JJ, Dinh H, Arenovich T, Marcus VA, Wanless IR, Heathcote EJ. Autoimmune hepatitis: effect of symptoms and cirrhosis on natural history and outcome. Hepatology 2005;42(1):53-62.
- 92. Bioulac-Sage P, Balabaud C, Bedossa P, Scoazec JY, Chiche L, Dhillon AP, et al. Pathological diagnosis of liver cell adenoma and focal nodular hyperplasia: Bordeaux update. J Hepatol 2007;46:521-27.
- 93. Wanless IR. International consensus on histologic diagnosis of early hepatocellular neoplasia, Hepatology Research 2007, 37 (Suppl 2), S139-41.
- 94. Kojiro M, Wanless IR, Alves V, et al. Pathologic diagnosis of early hepatocellular carcinoma: a report of The International Consensus Group for Hepatocellular Neoplasia. Hepatology. 2009 Feb;49(2):658-64.
- 95. Chaplin AC, Curley MA, Wanless IR. Clozapine-induced acute hepatic failure. Can J Gastroenterol. 2010 Dec;24(12):739-40.
- 96. Kim SU, Oh HJ, Wanless IR, Lee S, Han KH, Park YN. The Laennec staging system for histological subclassification of cirrhosis is useful for stratification of prognosis in patients with liver cirrhosis. J Hepatol. 2012;57:556-63.
- 97. Soochan D, Keough V, Wanless I, Molinari M. Intra and extra-hepatic cystadenoma of the biliary duct. Review of literature and radiological and pathological characteristics of a very rare case. BMJ case reports. 2012 (epub pii: bcr0120125497. doi: 10.1136/bcr.01.2012.5497).
- 98. Zheng Z, Molinari M, Sapp H, Jung SM, Wanless I, Huang WY. Benign epithelial inclusions in peripancreatic lymph nodes: a report of two cases and review of the literature. Int J Surg Pathol. 2012;20:570-6.
- 99. Arnason T, Fleming K, Wanless IR. Peritumoural hyperplasia of the liver: a response to portal vein invasion by hypervascular neoplasms. Histopathology 2013; 62, 458–464.
- 100. Fleming K, Wanless IR. Glutamine synthetase expression in activated hepatocyte progenitor cells and loss of hepatocellular expression in congestion and cirrhosis. Liver International, 2013: 33: 525–534
- 101. Edwards L and Wanless IR. Mechanisms of liver involvement in systemic disease. Best Pract Res Clin Gastroenterol 2013;27: 471-483.
- 102. Bedossa P, Brunt EM, Burt AD, Callea F, Clouston AD, Dienes HP, Goodman ZD, Gouw ASH, Hubscher SG, Roberts EA, Roskams T, Terracciano L, Tiniakos DG, Torbenson MS, Wanless IR. Well-differentiated hepatocellular neoplasm of uncertain malignant potential: proposal for a new diagnostic category. Human Pathol 2014;45: (3), 658-660.
- 103. Brunt EM, Gouw ASH, Hubscher SG, Tiniakos DG, Bedossa P, Burt AD, Callea F, Clouston AD, Dienes HP, Goodman ZD, Roberts EA, Roskams T, Terracciano L, Torbenson MS, Wanless IR. Pathology of the liver sinusoids. Histopathology 2014;64:907-920.
- 104. Botros N, Yan SR, Wanless IR. Malakoplakia of liver: report of two cases. Pathol Res Pract. 2014;210:459-62.
- 105. Yan J, Kang Y, Xu S, Ong LL, Zhuo S, Bunte RM, et al. In vivo label-free quantification of liver microcirculation using dual-modality microscopy. Journal of Biomedical Optics. 2014;19(11):116006.
- 106. Stueck, AE and Wanless IR. Hepatocyte buds derived from progenitor cells repopulate regions of parenchymal extinction in human cirrhosis. Hepatology 2015;61(5):1696-707.

- 107. Arnason T, Borger DR, Corless C, Hagen C, Iafrate AJ, Makhlouf H, et al. Biliary Adenofibroma of Liver: Morphology, Tumor Genetics, and Outcomes in 6 Cases. Am J Surg Pathol. 2017;41(4):499-505.
- 108. Hytiroglou P and Wanless IR. The interstitium takes shape (Editorial). Hepatology 2019;69(4):1830-2.
- 109. Wanless, IR. The role of vascular injury and congestion in the pathogenesis of cirrhosis: the congestive escalator and the parenchymal extinction sequence. Current Hepatology Reports. 2020;19(1):40-53. Open Access, published online Jan. 28, 2020, print copy appeared March 2, 2020). (For supplementary electronic content (video), see journal website at: https://link.springer.com/article/10.1007/s11901-020-00508-y) or www.ianwanless.ca.
- 110. Wanless, IR. Quantitative SHG-microscopy: unraveling the nano-architecture of the cirrhotic liver (Editorial). Clin Res Hepatol Gastroenterol 44:(1), 1-3. (https://doi.org/10.1016/j.clinre.2019.07.009)

Chapters and non-referred publications

- 1. Wanless IR, Medline A, Phillips MJ: Pathology of the hepatic vasculature. In Lautt WW (ed). The Circulation of the Liver in Health and Disease, Raven Press, New York, 1981, pp 257-283.
- 2. Wanless IR: The use of morphometry in the study of nodular and vascular lesions of the liver.

 Conference on Advances in Morphometry and Ploidy Determination. Bahr GF (ed). Analyt Quant Cytol Histol 1987;9:39-41.
- 3. Wanless IR: On the pathogenesis of non-cirrhotic portal hypertension. In Boyer JD, Bianchi L (eds). Cirrhosis (Proceedings of the VII International Congress of Liver Diseases, Falk Symposium No. 44), MTP Press, London, 1987, pp. 293-311.
- 4. Wanless IR: Understanding non-cirrhotic portal hypertension: Ménage à foie (editorial). Hepatology 1988;8:192-193.
- 5. Wanless IR: Book review. Hepatology 1988;8:979.
- 6. Wanless IR, Heathcote EJ: Letter to the editor (Two cases of obstructive jaundice secondary to hamartomatous cystic changes in the bile ducts). Human Pathology 1989;20:399-400.
- 7. Wanless IR: Endocrine pathology of the hepatobiliary system. In Kovacs K and Asa SL (eds). Functional Endocrine Pathology, Blackwell, Boston, 1990, pp 768-789.
- 8. Wanless IR: Non-cirrhotic portal hypertension. In Okuda K and Benhamou JP (eds). Portal Hypertension: Clinical and Physiological aspects, Springer-Verlag, Tokyo, 1991, pp 393-399. (SRA)
- 9. Rappaport AM and Wanless IR. Physioanatomic considerations. In Schiff L and Schiff ER (eds). Diseases of the Liver, 7th edition, Lippincott, Philadelphia, 1993, pp 1-41. (C)
- 10. Wanless IR. Vascular disorders. In MacSween RNM, Anthony PP, Scheuer PJ, Burt AD, Portmann BC (eds). Pathology of the Liver, 3rd edition, Churchill Livingston, Edinburgh, 1994. (SRA)
- 11. Wanless IR (Translated into Japanese by Y Nakanuma). Dysplastic nodules and small hepatocellular carcinoma. Byori to Rinsho 1995;13:1465-1472. (SRA)
- 12. Wanless IR. Noncirrhotic Portal Hypertension: Recent Concepts. In Boyer JL, Ockner RK (eds) Progress in Liver Diseases, volume XIV, WB Saunders, Philadelphia, 1996, pp.265-278. (SRA)
- 13. Wanless IR. Anatomy and developmental anomalies of the liver. In Feldman M, Scharschmidt BF, Sleisenger MH (eds). Sleisenger and Fordtran's Gastrointestinal Disease. 6th edition, 1997, 1055-1060. (SRA)

- 14. Wanless IR. Thrombosis and phlebitis in the pathogenesis of portal hypertension and cirrhosis: the 2-hit hypothesis for the pathogenesis of chronic liver disease. In Arroyo V, Bosch J, Bruguera M, Rodes J (eds). Therapy in Liver Diseases, Barcelona, Masson, 1997, pp 47-50. (SRA)
- 15. Wanless IR. Role of impaired perfusion in the pathogenesis of cirrhosis. In: Kaplowitz N, ed. Liver Injury Update: Clinical implications and mechanistic role of cells of the liver. Chicago: AASLD, 1997:323-327. (SRA)
- 16. Wanless IR: The hepatobiliary system. In Kovacs K and Asa SL (eds). Functional Endocrine Pathology, second edition, Blackwell, Boston, 1998, pp 843-868. (SRA)
- 17. Wanless IR. Hepatic Vascular Disorders. In Bloomer JR, Goodman ZD, Ishak KG. Clinical and Pathological Correlations in Liver Disease. Armed Forces Institute of Pathology, Washington, 1998 pp 37-49. (SRA)
- 18. Wanless IR. Physioanatomic considerations. In Schiff ER, Sorrell MF, Maddrey WC (eds). Schiff's Diseases of the Liver, 8th edition, Lippincott, Philadelphia, 1999, pp 3-37. (SRA)
- 19. Wong F, Wanless IR, Blendis LM. Nodular diseases of liver. In Schiff ER, Sorrell MF, Maddrey WC (eds). Schiff's Diseases of the Liver, 8th edition, Lippincott, Philadelphia, 1999, pp 1269-1280. (SRA)
- 20. Wanless (co-author of multiauthored chapter): Tumours of the liver and intrahepatic bile ducts. In Pathology and Genetics of Tumours of the Digestive System., World Health Organization Classification of Tumours, Lyon, 2000. (C)
- 21. Wanless IR. Vascular disorders. In MacSween RNM, Anthony PP, Scheuer PJ, Burt AD, Portmann BC (eds). Pathology of the Liver, 4th edition, Churchill Livingston, Edinburgh, 2002, 539-574. (SRA)
- 22. Sherman M and Wanless IR. Site-specific precancerous conditions: Liver. In Franco EL and Rohan TE (eds). Cancer Precursors: Epidemiology, detection, and prevention, Springer-Verlag, New York, 2001, 164-185. (C)
- 23. Wanless IR. Hepatic microcirculatory changes in cirrhosis: The role of vascular changes in the pathogenesis of cirrhosis. in Complications of cirrhosis, Edited by TD Boyer and R Groszmann, AASLD, Dallas, 2001, pp 90-93. (SRA)
- 24. Wanless IR. Editorial on "Tragedy at Crooks Inlet" The Beaver 2001;81(6);44. (SRA)
- 25. Wanless IR. Anatomy, Histology, Embryology, and Developmental Anomalies of the Liver. In Feldman M, Friedman, LS, Sleisenger MH (eds). Sleisenger and Fordtran's Gastrointestinal and Liver Disease. 7th edition, Philadelphia, Saunders, 2002, pp 1195-1201. (SRA)
- 26. Wanless IR. Physioanatomic considerations. In Schiff ER, Sorrell MF, Maddrey WC (eds). Schiff's Diseases of the Liver, 9th edition, Lippincott, Philadelphia, 2002.(SRA)
- 27. Wanless IR. Benign liver tumors. Clinics Liver Dis 2002;6:513-26, ix. (SRA)
- 28. Wanless IR. Cirrhosis. In Johnson LR (ed). Encyclopedia of Gastroenterology, 2003, 356-362. (SRA)
- 29. Wanless IR. Pathology of vascular diseases of liver. In Surgical Pathology of the Alimentary Tract, Pancreas and Biliary Tree, and Liver, ed RD Odze, JR Goldblum, JM Crawford. WB Saunders, 2004, 885-907. (SRA)
- 30. Wanless IR, Crawford, JM. Cirrhosis. In Surgical Pathology of the Alimentary Tract, Pancreas and Biliary Tree, and Liver, ed RD Odze, JR Goldblum, JM Crawford. WB Saunders, 2004,863-884.(SRA)
- 31. Wanless IR. Structural changes leading to progression of cirrhosis and portal hypertension. In Portal Hypertension in the 21st Century. Groszmann, RJ, Tytgat, GNJ, Bosch J (Eds.) 2004 47-53.(SRA)
- 32. Wanless IR. Liver biopsy in the diagnosis of hepatocellular carcinoma. Clin Liver Dis 2005;9(2):281-5.

- 33. Wanless IR. Anatomy, Histology, Embryology, and Developmental Anomalies of the Liver. In Feldman M, Friedman, LS, Sleisenger MH (eds). Sleisenger and Fordtran's Gastrointestinal and Liver Disease. 8th edition, Philidelphia, Saunders, 2006, pp 1543-1550 (SRA)
- 34. Wanless IR. Physioanatomic considerations. In Schiff ER, Sorrell MF, Maddrey WC (eds). Schiff's Diseases of the Liver, 10th edition, Lippincott, Philadelphia, 2007, pp 181-212.(SRA)
- 35. Boston, November 2007, Annual Postgraduate Course of AASLD, faculty and course co-director. Lecture on "Vascular disease and cirrhosis".
- 36. Wanless IR. Vascular disorders. In Burt AD, Portmann BC, Ferrell LD (eds). MacSween's Pathology of the Liver, 5th edition, Churchill Livingston, Edinburgh, 2007, pp 613-648.
- Wanless IR. Vascular disorders of the liver. In Surgical Pathology of the GI Tract, Liver, Biliary Tree, and Pancreas, 2nd ed., Eds. RD Odze, JR Goldblum. WB Saunders, 2009, pp 1147-1168.
- 38. Wanless IR, Crawford, JM. Cirrhosis. In Surgical Pathology of the GI Tract, Liver, Biliary Tree, and Pancreas, 2nd ed., Eds. RD Odze, JR Goldblum. WB Saunders, 2009, pp 1115-1146.
- 39. Bioulac-Sage P, Balabaud, C, and Wanless IR. Focal nodular hyperplasia and hepatocellular adenoma . In Bosman FT, Carneiro F, Hruban RH, Theise ND, editors. World Health Organization Classification of Tumours of the Digestive System. 4th ed. Lyon: IARC Press; 2010, pp198-204.
- 40. Wanless IR. Vascular diseases, in Practical Hepatic Pathology, R Saxena, Ed. pp 443-454, 2011.
- 41. Wanless IR. Benign Liver Tumours, in Sherlock's Diseases of the Liver and Biliary System, 12th edition, edited by Dooley JS, Lok A, Burroughs A, Heathcote J., Wiley-Blackwell, Oxford, 2011, pp 671-680.
- 42. Wanless IR and Huang W. Vascular disorders. In Burt AD, Portmann BC, Ferrell LD (eds). MacSween's Pathology of the Liver, 6th edition, Churchill Livingston, Edinburgh, 2012, chapter 12, pp 601-643.
- 43. Wanless IR. Physioanatomic considerations. In Schiff ER, Maddrey WC, Sorrell MF (eds). Schiff's Diseases of the Liver, 11th edition, Wiley-Blackwell, Chichester, UK, 2012, pp 89-119.
- 44. Wanless IR. Benign Liver Tumours, in Sherlock's Diseases of the Liver and Biliary System, 13th edition, edited by Dooley JS, Lok A, Burroughs A, Heathcote J., Wiley-Blackwell, Oxford, 2018, pp 693-704.
- 45. Wanless IR. Physioanatomic considerations. In Schiff ER, Maddrey WC, Sorrell MF (eds). Schiff's Diseases of the Liver, 12th edition, Wiley, Oxford, UK, 2018, pp. 73-102.
- 46. Wanless I. Pathology of Budd-Chiari syndrome and Hepatic vein obstruction In: Qi X, editor. Budd-Chiari Syndrome: Springer; 2019. p 26-38.

Presentations (oral papers, posters, published abstracts).

- 1. Wanless IR, Montilou J, Mouradian J, Susin M, Sherman RL. Significance of focal sclerosis in membranous nephropathy. Kid Internat 1977;12:520.
- Wanless IR. The role of platelets in the pathogenesis of hepatic fibrosis. Gastroenterology 1979;76:1266. (Poster presented at annual meeting of American Gastroenterological Association, New Orleans, May 1979).
- 3. Wanless IR. Nodular regenerative hyperplasia of the liver: A possible response to obliterative portal venopathy. Gastroenterology 1979;76:1266.
- 4. McNicholas W, Gordon DA, Quinn R, Wanless IR, Muir J, Epstein S. Pulmonary manifestations of Sjogren's syndrome. (Poster presented at 79th annual meeting of Canadian Lung Association, Toronto, June 26, 1979).

- 5. Wanless IR. Hepatic cirrhosis in the rabbit induced by cholesterol and stilboestrol. A morphologic study. (Platform presentation at Canadian Liver Club, Chicago, November 1979).
- 6. Wanless IR, Medline A, Lee G. Induction of gamma glutamyl transpeptidase in zone I hepatocytes by administration of stilbestrol. Gastroenterology 1980;79:1063.
- 7. Wanless IR, Seger M. Portal vein obliteration in patients without clinical liver disease: The effect of age and congestive failure. Gastroenterology 1980;79:1063. (Poster presented at annual meeting of American Association for the study of liver diseases, Chicago, November 1980).
- 8. Wanless IR, Medline A. The role of estrogen in hepatic neoplasia: An experimental model. Gastroenterology 1981;80:1354. (Poster presented at annual meeting of AGA, New York, 1981).
- 9. Wanless IR. Dipyridamole inhibits hepatic fibrogenesis in a rabbit model of cirrhosis. Hepatology 1981;1:558. (Poster presented at annual meeting of AASLD, Chicago, November 1981).
- 10. Wanless IR, Solt LC, Kortan P, Gardiner G, Prokipchuk EJ. Nodular regenerative hyperplasia of the liver associated with macroglobulinemia. (Presented at annual meeting, Canadian Congress of Laboratory Medicine, Toronto, June 1981).
- 11. Wanless IR, Medline A. The role of estrogen in hepatic neoplasia: An experimental model. (Platform presentation at annual meeting, Canadian Congress of Laboratory Medicine, Toronto, June 1981).
- 12. Bernier V, Wanless IR. Hyaline perisplenitis: A response to chronic splenic congestion. Laboratory Investigation, 1982;46:9A-10A. (Poster presented at annual meetings of International Academy of Pathology, Boston, March 1982 and Canadian Congress of Laboratory Medicine, Montreal, June 1983).
- 13. Blendis LM, Thorne C, Urowitz MB, Wanless I, Roberts E. Liver disease in Felty's syndrome. Gut 1982;23:A445.
- 14. Wanless IR. Hepatic fibrosis induced by cholesterol and stilbestrol in the rabbit. Laboratory Investigation 1982;46:88A. (Poster presented at annual meeting of IAP, Boston, March 1982).
- 15. Shaw P, Wanless IR. Enterolithiasis: A case report. (Platform presentation at annual meeting of Canadian Congress of Laboratory Medicine, Montreal, June 1983).
- 16. Wanless IR. The effect of dietary cholesterol on platelet survival in the rabbit. Clinical Biochem 1984;17:210. (Poster presented at annual meeting of Canadian Congress of Laboratory Medicine, Halifax, June 1984).
- 17. Geddie WR, Wanless IR. Lipogranulomata in liver and spleen: An autopsy series. Clin Biochem 1984;17:212. (Platform presentation at annual meeting of Canadian Congress of Laboratory Medicine, Halifax, June 1984).
- 18. Lentz JS, Wanless IR, Roberts EA. Partial nodular transformation of the liver with patent ductus venosus. Clin Biochem 1984;17:212. (Platform presentation at annual meeting of Canadian Congress of Laboratory Medicine, Halifax, June 1984).
- 19. Mitwalli A, Rodela H, Brandes L, Wanless I, Wu G, Ogilvie R, Schilling H, Oreopoulos DG. Is fat absorbed from the peritoneum? (Presented at the annual meeting of American Society of Nephrology, November 1984).
- 20. Wanless IR. The pathogenesis of nodular transformation of the liver. (Platform presentation at the annual meeting of the Royal College, Montreal, Sept 12, 1984).
- 21. Wanless IR, Gryfe A, Mawdsley C. The pathogenesis of focal nodular hyperplasia. Lab Invest 1985;52:73A. (Platform presentation at IAP meeting, Toronto, March 1985).
- Wanless IR. Nodular regenerative hyperplasia of the liver. A morphometric study of 23 cases. Lab Invest 1986;54:67A. (Platform presentation at IAP meeting, New Orleans, March 1986).

- 23. Wanless IR. The pathogenesis of nodular regenerative hyperplasia of the liver. (Platform presentation at CAP meeting, Kingston, June 1986).
- 24. Wanless IR, Gryfe A. Nodular transformation of the liver in hereditary hemorrhagic telangiectasia. (Presented at CAP meeting, Kingston, June 1986).
- 25. Cybulsky M, Wanless IR, Geddie W. Polypoid carcinoma of the esophagus with features of malignant fibrous histiocytoma. (Platform presentation at CAP meeting, Kingston, June 1986).
- 26. Lecavalier D, Wanless IR, Ostro M, Asa S. Multiple gastric carcinoid tumours and metachronous pulmonary carcinoid tumour. (Platform presentation at CAP meeting, Kingston, June 1986).
- 27. Zahradnik J, Wanless IR, Heathcote EJ. Multiple hepatic periductal cysts causing obstructive jaundice. (Platform presentation at CAP meeting, Kingston, June 1986).
- 28. Wanless IR. Subcapsular fatty liver hepatitis in response to peritoneal insulin delivery in peritoneal dialysis patients: a clue to the pathogenesis of fatty liver hepatitis in obese diabetics. (Platform presentation at CAP meeting, Quebec, June 1987).
- 29. Wanless IR, Lentz JS. The prevalence of steatonecrosis in obese patients at autopsy. Hepatology 1987;7:1080.
- 30. Wanless IR, Bargman J, Oreopoulos D, Vas S. Subcapsular steatosis and steatonecrosis in response to peritoneal insulin delivery in chronic peritoneal dialysis patients: a clue to the pathogenesis of steatonecrosis in obesity. Hepatology 1987;7:1080. (Poster presented at meeting of Am. Soc. Nephrology, Washington, Nov. 1987)
- 31. MacDonald K, Wanless IR. The effect of obesity on hepatic histology in alcoholics. (Platform presentation at the Canadian Congress of Laboratory Medicine, Winnipeg, 1988).
- 32. Wanless IR, Lentz JS. Fatty liver hepatitis in obesity: an autopsy study. (Platform presentation at the Canadian Congress of Laboratory Medicine, Winnipeg, 1988).
- 33. Wanless IR, Harbour JW, Boitnott JK, Moore GW. The hepatic pathology and pathogenesis of noncirrhotic portal hypertension: an autopsy study of 32 patients from 1910-1984. Hepatology 1988;8:1345.
- 34. Heathcote J, Blendis L, Ghent C, Pappas C, Cauch K, Milner R, Rankin J, Katz A, Wanless I. The demography of primary biliary cirrhosis in Ontario, Canada. Hepatology 1988;8:1415.
- 35. Albrecht S, Wanless IR, Bilbao J, Frei JV. Multiple focal nodular hyperplasia of the liver associated with vascular malformations of the brain and liver and neoplasia of the brain: a new syndrome. Lab Invest 1989;2:72A. (Presented at annual meeting of International Academy of Pathology, San Francisco, March 1989 (poster) and Canadian Congress of Laboratory Medicine, Ottawa, June 1989 (platform presentation).
- 36. Peterson P, Wanless IR, Das A, Boitnott JK, Moore GW, Bernier V. Portal hypertension in agnogenic myeloid metaplasia and polycythemia vera. A clinicopathological study of 160 patients. Modern Pathology 1989;2:2A. (Poster presented at annual meeting of International Academy of Pathology, San Francisco, March 1989 and Canadian Congress of Laboratory Medicine, Ottawa, June 1989.)
- 37. Pearson D, Chiasson D, and Wanless IR. On the pathogenesis of combined portal and pulmonary hypertension. (Platform presentation at Canadian Congress of Laboratory Medicine, Ottawa, June 1989.)
- 38. Kischuk R, Wanless IR, et al. Histopathology of cocaine hepatotoxicity. (Platform presentation at Canadian Congress of Laboratory Medicine, Ottawa, June 1989.)

- 39. Redston M, Wanless IR. The prevalence and significance of von Meyenberg complexes. (Platform presentation at Canadian Congress of Laboratory Medicine, St. John's, June 1990.)
- 40. Redston M, Wanless IR. The effect of insulin on development of fatty liver in choline deficient rats. (Platform presentation at Canadian Congress of Laboratory Medicine, St. John's, June 1990.)
- 41. Redston M, Wanless IR. The prevalence and significance of von Meyenberg complexes. Modern Pathology 1991;4:95A (Poster presented at U.S.Can. Academy of Pathology, Chicago, March 1991).
- 42. Redston M, Wanless IR. The effect of insulin on development of fatty liver in choline deficient rats.

 Modern Pathology 1991;4:95A (Poster presented at U.S.Can. Academy of Pathology, Chicago, March 1991).
- 43. Rawat B, Pham DP, Wanless IR. Focal hepatic lesions: Multimodality imaging and pathologic correlation. Am J Roentgenology, May 1991 (Poster presented at the annual meeting of the American Roentgen Society, Boston).
- 44. Donaldson B, Wanless IR, Phillips MJ, et al. The role of transjugular liver biopsy (TJLB) in the diagnosis and prognosis of patients with fulminant hepatic failure. Hepatology 1991;14:101A. (Poster presented, AASLD, Chicago, November 1991.)
- 45. Michieletti P, Wanless IR, Bassendine MF, Katz A, Palmer JM, Scheuer PJ, Yeaman SJ, Heathcote EJ. Antimitochondrial antibody negative primary biliary cirrhosis: a distinct syndrome of autoimmune cholangitis. (Platform presentation at American Association of Gastroenterology and International Association for Study of Liver, May 1992)
- 46. Heathcote EJL, Cauch K, Walker V, Bailey RJ, Blendis LM, Ghent CN, Minuk GY, Pappas SC, Scully L, Steinbrecher UP, Sutherland L, Williams CN, Worobetz L, Milner RA, Wanless IR, Witt-Sullivan H. The Canadian multi-center double blind randomized controlled trial of ursodeoxycholic acid in primary biliary cirrhosis. Hepatology 1992;16:91A (Platform presentation at American Association for the Study of Liver Diseases, Chicago, Nov. 1992).
- 47. Wong DKH, Bhushnurmath SR, Chang MK, Wanless IR, Sherman M, Heathcote EJ. Chronic hepatitis C: Clinicopathologic correlation in 80 patients. Hepatology 1992;16:225A.
- 48. Olivieri NF, Matsui D, Berkovitch M, Templeton DM, McClelland RA, Wanless I, Blendis L, Liu PP, Koren G. Superior effectiveness of the oral iron chelator L1 vs subcutaneous deferoxamine in patients with homozygous beta-thalassemia (HBT): The impact of patient compliance during two years of therapy. (Am Society of Hematology 34th Annual Meeting).
- Wanless IR, Wong F, Greig P, Blendis LM, Levy G, Heathcote EJ. Hepatic vein thrombosis occurring in the cirrhotic liver: prevalence and significance for the pathogenesis of cirrhosis. Hepatology 1993;18:112A.
 (Platform presentation, American Association for Study of Liver Diseases, Chicago, November 1993)
- 50. Wanless IR, Heathcote EJ, Cauch K, et al. Detailed histologic grading as a predictor of morbidity and mortality in primary biliary cirrhosis. Hepatology 1993;18:174A. (Poster, American Association for Study of Liver Diseases, Chicago, November 1993)
- 51. Wanless IR. An hypothesis for the pathogenesis of cirrhosis based on vascular pathology of liver in precirrhotic states. Modern Pathology 1994;7:136A. (Poster, USCAP, San Francisco, March 1994).
- 52. Wanless IR. The possible role of portal vein thrombosis in the pathogenesis of variceal bleeding in primary biliary cirrhosis. Gastroenterology 1994;106:A1005. (Poster, American Gastroenterological Association, 1994, NewOrleans)
- 53. Wanless IR. The role of thrombosis in the histogenesis of cirrhosis in patients with the syndrome of primary biliary cirrhosis. Gastroenterology 1994;106:A1005. (Poster, American Gastroenterological Association, 1994, NewOrleans)

- 54. Wanless IR. Secondary portal and hepatic vein thrombosis in cirrhosis: a quantitative study. Hepatology 1994;19:139I. (Platform presentation, International Assoc. for the Study of Liver, May 1994, Cancun, Mexico)
- 55. Wanless IR. Arterialized regenerative nodules in Budd-Chiari syndrome. Hepatology 1994;19:139I. (Poster, International Assoc. for the Study of Liver, May 1994, Cancun, Mexico)
- Wanless IR. Morphological classification of cirrhosis: a reevaluation. Hepatology 1994;19:140I. (Poster, International Assoc. for the Study of Liver, May 1994, Cancun, Mexico)
- 57. Wanless IR. The role of portal vein thrombosis in the pathogenesis of variceal bleeding in primary biliary cirrhosis. (Poster, World Congresses of Gastroenterology, 1994, Los Angeles)
- 58. Wanless IR, Liu J, Butany J. The role of thrombosis in the pathogenesis of congestive hepatic fibrosis (cardiac cirrhosis). Hepatology 1994;20:105A. (Poster, American Association for Study of Liver Diseases, Chicago, November 1994)
- 59. Woolf GM, Petrovic LM, Rojter SE, Villamil FG, Michieletti P, Wanless IR, Vierling JM. Acute hepatitis associated with the Chinese herbal product Jin Bu Huan. Hepatology 1994;20:188A. (Poster, American Association for Study of Liver Diseases, Chicago, November 1994)
- 60. Wanless IR. Portal vein thrombosis is associated with large regenerative nodules and diffuse nodular hyperplasia in cirrhotic livers. Hepatology 1994;20:412A.
- 61. Wanless IR. Large regenerative nodules, dysplastic nodules (adenomatous hyperplasia) and hepatocellular dysplasia in cirrhosis: criteria for diagnosis based on histologic analysis of 124 cirrhotic livers. Hepatology 1994;20:412A.
- 62. International Working Party of World Congresses of Gastroenterology. Terminology of chronic hepatitis, hepatic allograft rejection, and nodular lesions of the liver: Summary of recommendations developed by an international working party, supported by the World Congresses of Gastroenterology, Los Angeles, 1994. Am J Gastroenterology 1994;89:S177-S181.
- 63. Cattral MS, Krajden M, Wanless IR, Cameron R, Greig PD, Levy GA. A pilot study of Ribavirin for hepatitis C after transplantation. Hepatology 1995.
- 64. Shannon P, Wanless IR. The site of vascular obstruction in early stage primary biliary cirrhosis with portal vein (PV) thrombosis. Hepatology 1995;22:253A (Poster, American Association for Study of Liver Diseases, Chicago, November 1995)
- Wanless IR. Hepatic and portal vein phlebitis in chronic hepatitis:evidence for the two-hit vascular hypothesis for pathogenesis of post-hepatitic cirrhosis. Hepatology 1995; 22:508A.
- 66. Wanless IR, Shimamatsu K, Wong F, Blendis L. The role of portal vein thrombosis in causing portal hypertension in primary biliary cirrhosis and primary sclerosing cholangitis. (poster presented at Workshop sponsored by AASLD "Liver Microcirculation in Health and Diseases", Reston, Virginia, June 21-24, 1996).
- 67. Fekete E, Desai M, Wong DKH, Bhusnurmath, Heathcote EJ, Wanless IR. Hepatic Steatosis in Chronic Hepatitis C: Clinicopathologic Correlation. (poster presented at OAP, Toronto, June 1996).
- 68. Wanless IR, Shimamatsu K. Phlebitis in viral and autoimmune chronic hepatitis and primary biliary cirrhosis. Possible role in the histogenesis of cirrhosis. Mod Pathol 1997;10:147A (Poster presented at USCAP, Orlando, March 1997 and Boca Raton, June 1997).
- 69. Shimamatsu K, Wanless IR. Role of ischemia in causing apoptosis, atrophy, and nodular hyperplasia in human liver. Mod Pathol 1997;10:148A (Platform paper, USCAP, Orlando, March 1997).

- 70. Wanless IR, Tanaka, M. Microcirculation of the liver in Budd-Chiari Syndrome: The importance of retrograde portal vein flow in the histogenesis of "reversed nodulation cirrhosis". Hepatology 1997;26:452A. (Poster presented at AASLD, Nov 1997.)
- 71. Cattral MS, Hemming AW, Lilly L, Greig PD, Wanless I, Krajden M, Levy GA. Outcome of longterm (>1 yr) ribavirin therapy for recurrent hepatitis C after liver transplantation. Hepatology 1997;26:362A. (Platform paper presented by Dr. Cattral at AASLD, Nov 1997.)
- 72. Wanless IR, Shimamatsu K. The histogenesis of biliary cirrhosis. Mod Pathol 1999;12:169A. (Poster, USCAP, San Francisco, March 1999)
- 73. Nakashima E, Wanless IR. The hepatic repair complex: histologic features suggesting partial reversibility of cirrhosis. Mod Pathol 1999;12:165A. (Poster, USCAP, San Francisco, March 1999)
- 74. Wanless IR, Tanaka M. Determinants of hepatic regeneration after fulminant hepatic failure. Mod Pathol 1999;12:168A. (Platform paper, USCAP, San Francisco, March 1999)
- 75. Nakashima E, Kage M, Wanless IR. Idiopathic portal hypertension: Histologic evidence that some cases may be regressed cirrhosis with portal vein thrombosis. Hepatology 1999;30:218A. (Poster presented at AASLD, Dallas, Nov 1999.)
- 76. Nakashima E, Wanless IR. Most non-cirrhotic livers with hepatocellular carcinoma (HCC) have evidence of fibrosis or regressed cirrhosis: implications for the pathogenesis of HCC. Hepatology 1999;30:257A. (Poster presented at AASLD, Dallas, Nov 1999.)
- 77. Wanless IR. Arterialization of the liver causes baro-injury in cirrhosis and focal nodular hyperplasia (FNH) Hepatology 1999;30:571A
- 78. Joshi S, Cauch-Dudek K, Wanless IR, Heathcote EJ. Response to ursodeoxycholic acid in primary biliary cirrhosis patients with additional features of autoimmune hepatitis. Hepatology 1999;30:496A.
- 79. Girgrah, N, Kutami R, Sherman M, Heathcote EJ, Lilly L, Blendis LM, Wong F, Wanless IR. A modified liver fibrosis score correlates with portal pressures and clinical markers of cirrhosis. Can J Gastroenterol 2000. (Presented at CDDW, Quebec, March 7, 2000)
- 80. Wanless, IR, Terris B, Bioulac-Sage P, Balabaud C, Fléjou JF, Degott C, Belghiti J, Hemming A, Greig P. Focal Hyperplasia (FH) of liver associated with localized hepatic vein thrombosis: a lesion with some features of "focal nodular hyperplasia". Mod Pathol 2000;13:191A. (Presented at USCAP, New Orleans, March 27, 2000)
- 81. Kutami R, Girgrah N, Wanless IR, Sniderman K, Wong F, Sherman M, et al. The Laennec grading system for assessment of hepatic fibrosis: validation by correlation with wedged hepatic vein pressure and clinical features. Hepatology 2000;32:407A. (Poster presented at AASLD, Dallas, October 2000)
- 82. Wanless IR, Sweeney G, Dhillon AP, et al. Absence of deferiprone-induced hepatic fibrosis: A multicenter study. Blood 2000;96(11):606a. (Poster presented at Annual meeting of Am. Society of Hematology, San Francisco, December 4, 2000)
- 83. Wanless IR, Shiota, K. Pathology of recurrent hepatitis C after liver transplantation: a model system to study the histogenesis of cirrhosis. Hepatology November 2001. (Poster presented at AASLD, Dallas, November 10, 2001)
- 84. Roberts EA, Yang S, Wanless IR. Hepatic features of the Jackson Laboratory toxic milk (tx-j) mouse. Poster presented at 3rd International meeting on copper homeostasis and its disorders: Molecular and cellular aspects. Ischia, Italy, Oct 2002.
- 85. Sherman M, Filmus J, Wanless I, Capurro, M. Glypican-3: A novel diagnostic marker for hepatocellular carcinoma. Hepatology 2002 36:692A.

- 86. Wanless IR, Shiota K, Heathcote EJ. Role of hepatic vein obliteration in the progression of non-alcoholic steatohepatitis (NASH) to cirrhosis. Hepatology 2002;36:730A.
- 87. Takayama A, Wanless IR. Three-dimensional angioarchitecture of focal nodular hyperplasia and hypothesis on the pathogenesis. Mod Pathol 2004, 17: 313A.(platform presentation at USCAP Vancouver)
- 88. Wanless IR. Advanced liver pathology: Current controversies/advances: Evolution of cirrhosis. Pathology International 2004; 54 (Suppl 1): S289-90. (Platform presentation, Brisbane)
- 89. Sakhuja P, Wanless IR, Rizvi MR, Gondal R, Sarin SK. Liver histology in a rabbit model of E. Coli-induced non-cirrhotic portal hypertension. Mod Pathol 2006:19 (suppl 3);136. IAP Montreal September 2006 poster presented.
- 90. Freitas J, Alves V, Freitas LA, Andrade ZA, Wanless IR. Congestive hepatopathy in schistosomiasis mansoni. Role in causing necrosis, fibrous septation, and fibrous obliteration of hepatic veins. Mod Pathol 2006:19 (suppl 3);135. IAP Montreal September 2006 poster presented.
- 91. O'Shea AM, Wanless IR. Congestive hepatopathy: Possible role in the formation of tumour capsule in the liver. Mod Pathol 2006:19 (suppl 3);124. IAP Montreal September 2006 poster presented.
- 92. O'Shea, AM, Guindi M, Sapp H, and Wanless IR. Congestive hepatopathy in hepatic adenoma. Role in causing hemorrhage, necrosis, and fibrosis, occasionally with features that mimic focal nodular hyperplasia. Mod Pathol 2006:19 (suppl 3);125. IAP Montreal September 2006 poster presented.
- 93. Wanless IR, Carr BI, Ribeiro de Freitas J. Pathology Of Radiation-Induced Liver Disease Caused By 90yttrium-Microsphere Therapy For Hepatocellular Carcinoma In Patients With Cirrhosis. AASLD meeting, Boston, October 27, 2006 poster presented.
- 94. Wanless IR, Sapp H, Guindi M, Olshansky D, and Takayama A. The Pathogenesis Of Focal Nodular Hyperplasia: An Hypothesis Based On Histologic Review Of 20 Lesions Including Three In Early Biliary Cirrhosis. Hepatology 2006;44 (S1): 491A. AASLD meeting, Boston, October 27, 2006 poster presented.
- 95. Watt KDS, Sapp H, Peltekian KM, Molinari M, Walsh M, Couban, S, Wanless IR Recurrent idiopathic granulomatous phlebitis after liver transplantation: presentation and management. Liver Transpl 2007;13 (S1) S67. International Liver Transplantion Society Meeting, Rio de Janeiro, June 2007 poster presented.
- 96. Wanless IR. EASL Monothematic Conference, Budapest, Hungary, Jan 22-24, 2009. Monothematic Conference. Lecture on "Vascular occlusion and parenchymal extinction". Presentation published on EASL website.
- 97. Naugler C, Wanless IR. The microvasculature of the liver: a dynamic mathematical model for the study of liver disease. Hepatology 2009;50 (4 suppl): 483A. (poster presented)
- 98. Wanless IR, Fleming K, Arnason T. Peritumoral hyperplasia of the liver: Role of artery-to-portal vein shunt in the pathogenesis. Mod Pathol. 2010;23 suppl:373A.(poster presented)
- 99. Fleming K, Wanless IR. Hepatic glutamine synthetase expression in cirrhosis, veno-occlusive disease, adjacent to mass lesions, and focal nodular hyperplasia (FNH). Mod Pathol 2010;23 suppl:355A. (poster presented)
- 100. Cho SJ, Wanless IR, Pai R, Paradis V, Alves V, Bioulac-Sage P, Souza T, Makhlouf H, Schirmacher P, Evason K, Ferrell L. FNH-like lesions and glutamine synthetase expression in the liver in hereditary hemorrhagic telangiectasia. Mod Pathol 2011 (platform presentation).

- 101. Wanless IR, Stueck AE. Nodular regenerative hyperplasia: a new subclassification based on the distribution of hepatic microvascular obstruction and arterialization. Hepatology 2013;58:595A. (AASLD Washington November, 2013, poster presented)
- 102. V. Eremina, I. R. Wanless, M. Lunyova, M. M. Hiroshima, J. Rossant, J Feld, and S.E. Quaggin. Postnatal Vegfr2 ablation in mice results in hepatic microvascular changes including decreased arteries, sinusoidal endothelial degeneration, infarcts, hepatic vein remodeling, and nodular regenerative hyperplasia. Hepatology 2013;58:457A. (AASLD Washington November, 2013, poster presented)
- 103. Wanless IR, Takayama A. Focal Nodular Hyperplasia is a response to artery-to-portal vein shunt causing arterialization and congestive injury that explains the map-like pattern of glutamine synthetase. Hepatology 2013;58:457A. (AASLD Washington November, 2013, poster presented)
- 104. Stueck A, Wanless IR. Regression of cirrhosis: The maturation sequence of buds arising from hepatocyte progenitor cells. Hepatology 2013;58:235A. (AASLD Washington November, 2013, platform presentation)
- 105. Stueck A, Wanless IR. Canals of Hering are remnants of distal bile ducts after regeneration of hepatocytes: a study of early chronic liver disease in humans. J Hepatol 2014;60 suppl, S102-103.(EASL London April 2014, poster presented)
- 106. Stueck A, Nakano M, Wanless IR. Vascularization of hepatocellular adenomas and carcinoma by cooption of portal tracts. Hepatology 2014;60:871A. (AASLD Boston November, 2014, poster presented)
- 107. Rodger A, Kulai T, Wanless I, Gruchy S. A case of probable green tea extract-induced hepatotoxicity associated with H63D homozygosity for hereditary hemochromatosis. Can J Gastroenterol Hepatol 2015; 29 Suppl A: 156A (CDDW poster presented).
- 108. Wanless IR, Ravi, PY. Importance of tissue collapse and unmasking of reticulin on the assessment of fibrosis in acute and chronic liver disease. Hepatology 2016;63:214A. (AASLD, Boston, 2016, poster presented).
- 109. Wanless IR. The mechanisms leading to the formation of cirrhosis and its regression. Hepatology International, 2018, Volume 12, Supplement 2, pp 181–661 (presented as State of the Art lecture, Asia-Pacific Association for Study of Liver Disease, New Delhi, March 17, 2018).
- 110. Wanless IR. The mechanism of irreversibility of late stage cirrhosis. J Hepatology 2018;68,S692 (suppl 1)(Poster presented April 14, 2018, EASL International Liver Congress, Paris).
- 111. Sun Y, Wang B, You H, Jia J, Chen S, Wu X, Zhou J, Ou X, Ravi P, Stueck A, Wanless IR. Artery density in human liver: valuable measure for staging chronic liver disease. J Hepatol (suppl 1), 2019. (Poster presented April 11, 2019, EASL International Liver Congress, Vienna).
- 112. Wang B, Sun Y, You H, Jia J, Chen S, Wu X, Zhou J, Ou X, Stueck A, Wanless IR. Characterisation of regeneration in chronic hepatitis B before and after entecavir treatment in 20 patients. J Hepatol (suppl 1), 2019. (Poster presented April 11, 2019, EASL International Liver Congress, Vienna).

Invited lectures, national and international

- American Association for the Study of Liver Diseases, Postgraduate Course: Liver Pathology, Chicago, November 1985: Lectures on "Alpha-1-antitrypsin deficiency" and "Nodular regenerative hyperplasia."
- 2. American Association for the Study of Liver Diseases, Chicago, November 1985: Lecture on "Morphometry of the liver."

- International Conference on Advances in Morphometry and Ploidy Determination, September 1985,
 sponsored by Armed Forces Institute of Pathology, American Registry of Pathology, and National Cancer
 Institute: Lecture on "Morphometric studies of human liver".
- 4. Hepatic Pathology, CME course, sponsored by Armed Forces Institute of Pathology, Bethesda, August 1986: Lecture on "Nodular regenerative hyperplasia and related lesions."
- 5. VIIth International Congress of Liver Diseases (Basel Liver Week, Falk Symposium No. 44), Basel, October 1986: Lecture on "Pathogenesis of Non-cirrhotic Portal Hypertension."
- 6. Department of Pathology, Johns Hopkins Hospital, February 1987: Lecture on "Vascular pathology of the liver".
- 7. Royal College meeting, Winnipeg, Symposium in honour of Dr. Aron Rappaport, September 1987, sponsored by the Canadian Association for the Study of the Liver: Lecture on "Vascular pathology of the liver".
- 8. Liver Pathology Specialty Conference, International Academy of Pathology, Washington, March 1988: Case presentation.
- 9. Department of Pathology, Cornell University Medical College, April 1988: Grand Rounds on "Vascular pathology of the liver".
- 10. Scientific symposium: Recent progress in anatomic pathology, at meeting of American Society of Clinicall Pathologists, Kansas City, April 1988: Lecture on "Nodular transformation of the liver: a classification."
- 11. Current Concepts in Liver Pathology, sponsored by College of P & S of Columbia University, New York, April 1988: Lecture on "Vascular pathology and nodular transformation of the liver."
- 12. Hepatic Pathology, CME course, sponsored by Armed Forces Institute of Pathology, Bethesda, August 1988: Lecture on "Alpha-1-antitrypsin deficiency."
- 13. Hepatic Pathology, CME course, sponsored by Armed Forces Institute of Pathology, Bethesda, August 1989: Lecture on "Benign liver nodules."
- 14. XVI World Congress of Societies of Anatomic and Clinical Pathology, Vancouver, June 1991: Lecture on "Pathology of Budd-Chiari Syndrome".
- 15. Canadian Assoc of Gastroenterology annual course, Quebec City, September 19, 1991. Lecture on "Pathology of chronic liver disease".
- 16. Department of Medicine and Pathology, Loyola University, Chicago, Visiting professor, October 2, 1991.
- 17. American Association for the Study of Liver Diseases, Postgraduate Course: Liver Pathology, Chicago, November 3, 1991: Lecture on "Non-cirrhotic portal hypertension".
- 18. Liver Pathology Specialty Conference, at U.S.Can. Academy of Pathology meeting, Atlanta, March 1992: Case presentation.
- 19. Visiting professor, sponsored by Canadian Liver Foundation, Vancouver, November 1992 (lectures and case presentations)
- 20. Visiting professor, sponsored by Canadian Liver Foundation, Edmonton, November 1992 (lectures and case presentations)
- 21. Visiting professor, sponsored by Canadian Liver Foundation, Winnipeg, November 1992 (lectures and case presentations)
- 22. Visiting professor, sponsored by Canadian Liver Foundation, Saskatoon, November 1992 (lectures and case presentations)

- 23. Visiting professor, sponsored by Canadian Liver Foundation, Calgary, November 1992 (lectures and case presentations)
- 24. Telemedicine Canada Pathology Rounds, February 1994: Diagnosis of hepatic tumours.
- 25. International Academy of Pathology, Japanese Division. Lecture on "Pathology of Focal Nodular Hyperplasia.", September 10, 1994.
- 26. Visiting professor, Kurume, Japan, September 1994. Lectures and case presentations.
- 27. Visiting professor, Kanazawa, Japan, September 1994. Lectures and case presentations.
- 28. Visiting professor, Chiba, Japan, September 1994. Lectures and case presentations.
- 29. Visiting professor, Tokyo, Japan, September 1994. Lectures and case presentations.
- 30. World Congress of Gastroenterology, Los Angeles, October, 1994: Lecture on "Pathophysiology of non-cirrhotic portal hypertension".
- 31. World Congress of Gastroenterology, Los Angeles, October, 1994: Report of Nomenclature Committee "Terminology of nodular lesions of the liver".
- 32. Congress of the International Academy of Pathology, Hong Kong, October, 1994: Lecture on "Macroregenerative nodules: a reappraisal of the pathogenesis and differential diagnosis".
- 33. Liver Pathology Specialty Conference, US-Can Academy of Pathology, Toronto, March 1995: Dysplasa and precursors of hepatocellular carcinoma.
- 34. Department of Pathology, Cornell University Medical College, November 27-8, 1995: Visiting professor, Slide seminar and Grand Rounds on "The two-hit vascular hypothesis for the pathogenesis of cirrhosis".
- 35. Liver Pathology Specialty Conference, US-Can Academy of Pathology, Washington, March 1996. Lecture on :The two-hit vascular hypothesis for the pathogenesis of cirrhosis.
- 36. Single-topic conference sponsored by American Association of the Study of the Liver "Liver Microcirculation in health and diseases", Reston, Virginia, June 21-24, 1996, Lecture: "Hepatic and portal vein microthrombosis: its significance in the pathogenesis of portal hypertension". Chair of session.
- 37. Hans Popper Hepatopathology Society, Orlando, March 1997. Lecture on "The role of vascular abnormalities in cirrhosis and liver tumors".
- 38. Science and Medicine Canada Symposium on Hepatitis C, Boca Raton, June 1997. "Classification of chronic hepatitis".
- 39. Invited lecture and case presentations, Bordeaux, France, September 1997. "The Pathogenesis of Cirrhosis"
- 40. Therapy in Liver Diseases, Barcelona, September 1997. Lecture on "Thrombosis and phlebitis in the pathogenesis of portal hypertension and cirrhosis".
- 41. American Association for the Study of Liver Diseases, Postgraduate Course: Liver Pathology, Chicago, November 1997: Lecture on "Role of ischemia in the development of cirrhosis".
- 42. Liver biopsy interpretations in assessing cell injury in liver disease. Meet the professor luncheon, American Association for the Study of Liver Diseases, Chicago, November 1997.
- 43. Invited lecture, Department of Pathology, University of Kurume, Japan: The pathogenesis of chronic liver disease. March 15, 1998.
- 44. Case presentation, Tokyo Medical and Dental College. March 17, 1998.

- 45. Invited lecture, Tokyo Women's Medical College: The pathogenesis of chronic liver disease. March 17, 1998.
- 46. Visiting professor, Brisbane (2 hospitals), June 6, 1998.
- 47. Keynote speaker, Gastroenterological Society of Queensland Annual Update, Coolum, Australia, June 6-8, 1998.
- 48. Far North Queensland Gut Club, Cairns, Australia, Lecture on Pathogenesis of chronic liver disease, June 10, 1998.
- 49. Can. Assoc Study of Liver Disease Single topic conference Hepatocellular carcinoma Niagara on the lake, June 1998. Lecture on "Pathology of early hepatocellular carcinoma and precursor lesions".
- 50. American Association for the Study of Liver Diseases, Postgraduate Course: Clinical and Pathological Correlations in Liver Disease, Chicago, November 1998: Lecture on "Hepatic Vascular Diseases".
- 51. Laennec Hepatopathology Society November 7, 1998 Chicago. Lecture: "Is cirrhosis reversible?"
- 52. NIH Single topic conference NASH Bethesda, December 11, 1998 Lecture on "Diabetes and non-alcoholic steatohepatitis".
- 53. University of Calgary, Department of Gastroenterology, Annual research symposium, Jan 1999. Lecture: "Pathology of nodular lesions of liver"
- 54. USCAP Liver Pathology Specialty Conference, March 24,1999, San Francisco, Lecture on "Pathogenesis of incomplete septal cirrhosis".
- 55. University of Ottawa, Fourth Spring Pathology Course. Lecture: "Focal lesions of liver" May 1, 1999.
- 56. University of Ottawa, Department of Pathology, Annual Research Day, April 30, 1999. Lecture: "The development and regression of cirrhosis.
- 57. International Conference on Tissue Repair, Bordeaux, August 1999. Lecture on "Repair processes in the liver the reversibility of cirrhosis"
- 58. Can. Assoc Study of Liver Disease Single topic conference Hepatic fibrosis Kananaskis, October 17, 1999. Lecture on "Pathology of cirrhosis: development and reversal".
- 59. Visiting Professor, McMaster University, February 16, 2000. Lectures on "Pathogenesis of Focal Nodular Hyperplasia" and "Reversibility of Cirrhosis".
- 60. Lecture on "Pathophysiology of Non-alcoholic steatohepatitis", Canadian Digestive Diseases Week, Quebec City, March 12, 2000
- 61. Eleanor Humphreys visiting professor in surgical pathology, University of Chicago, April 19-21, 2000
- 62. Guest speaker (workshop and lecture), Quebec Association of Pathologists, Quebec, May 2000.
- 63. Laennec Society July 2000 Jackson's Point, Ontario
- 64. Slide seminar, Congress of IAP, Nagoya, co-moderator and lecture, October 2000
- 65. Lecture, Congress of IAP, Nagoya, October 2000
- 66. Guest speaker, Kurume University, Kurume, Japan, October 2000.
- 67. Guest speaker, Tsukuba University, Tsukuba, Japan, October 2000.
- 68. Guest speaker, Tokyo Women's Medical College, Tokyo, Japan, October 2000.

- 69. American Association for the Study of Liver Diseases, Postgraduate Course: Portal Hypertension: Lecture on "Hepatic microcirculatory changes in cirrhosis: The role of vascular changes in the pathogenesis of cirrhosis" Dallas, November 10, 2001
- 70. IAP-UK division. Lecture: "Vascular disease of the liver", London, November 23, 2001.
- 71. Workshop for Hepatologists: Cirrhosis / small hepatocellular carcinoma, Lectures: "What is cirrhosis?" and "Regression of cirrhosis", Arcachon, France, February 8, 2002.
- 72. Hans Popper Society Seminar at USCAP, organized seminar on "Fat in the liver" and delivered lecture on "Pathogenesis of non-alcoholic steatohepatitis" Chicago, February 24, 2002.
- 73. Single-topic conference sponsored by American Association of the Study of the Liver "Hepatic vascular disease", Lecture: "Budd-Chiari syndrome", Atlanta, March 9, 2002.
- 74. Biennial Meeting of the International Association for the Study of the Liver, Lecture on "Hepatocellular carcinoma", Madrid, April 16, 2002.
- 75. 12th International Conference on Oral Chelation in the Treatment of Thalassaemia and Other Diseases (ICOC), Santorini, Greece, July, 2002. Lack of liver fibrosis during long-term therapy with deferiprone.
- 76. Single-topic conference sponsored by American Association of the Study of the Liver "Non-alcoholic steatohepatitis", Lecture: "Cellular changes in NASH", Atlanta, September 2002.
- 77. American College of Gastroenterology course. Lecture: "Non-cirrhotic portal hypertension", October 2002, Seattle.
- 78. Laennec Liver Pathology Society, Lecture "Pathogenesis of Steatohepatitis", Boston, November 2002
- 79. Symposium on Staging of Hepatocellular carcinoma, sponsored by AJCC and Am Society of Hepatobiliary Surgery, Lecture: "Pathology of Hepatocellular Carcinoma", Boston, November, 2002
- 80. Visiting Professor with lecture, Brigham and Women's Hospital, Boston March 27, 2003.
- 81. Trey Memorial Symposium, Chronic cholestatic liver diseases, Sponsored by American Liver Foundation, Lecture: "Pathology of Biliary Disease, March 29, 2003, Boston.
- 82. Keynote speaker, Brazilian Society of Pathology, 3 lectures, Florianópolis, Brazil, May 2003.
- 83. Visiting professor, 3 days with lecture: Pathogenesis and regression of cirrhosis, Salvador, Brazil, May 2003
- 84. Single-topic conference sponsored by American Association of the Study of the Liver "Hepatic neoplasia", Lecture: "Pathology of HCC", Atlanta, September, 2003
- 85. Annual meeting American Association of the Study of the Liver, Lecture on Evaluation of hepatic nodules: Pathologist or radiologist or both. Boston, Nov. 2003
- 86. Single topic conference, Montreal, April 3, 2004. Lecture: Structural changes leading to progression of cirrhosis and portal hypertension.
- 87. Leuven, Belgium, May 13-15, 2004 International Consensus Group for hepatic neoplasia (second meeting). Organized and chaired concensus conference on nomenclature and classification of early hepatocellular neoplasia.
- 88. Leuven, Belgium, May 15-16, 2004 Laennec Hepatic Pathology Society. Organized and chaired meeting. Lecture: Grading systems for fibrosis in the liver.
- 89. Graz, Austria, June 11-13, 2004 Gnomes meeting, lecture: Pathogenesis of cirrhosis.
- 90. Turino, Italy, June 14-15, 2004 EASL Single topic conference, chaired session.

- 91. Single-topic conference sponsored by Canadian Association of the Study of the Liver "Drugs and the liver", Lecture: "Histologic patterns of drug reactions", Niagara, June, 2004.
- 92. Kurume, Japan, October 2004 Lecture: Parenchymal extinction in the pathogenesis of cirrhosis.
- 93. Brisbane, Australia, IAP congress, October 2004 Lecture: Parenchymal extinction in the pathogenesis of cirrhosis.
- 94. Brisbane, Australia, IAP congress, October 2004 Lecture: Precursor lesions of hepatocellular carcinoma
- 95. Brisbane, Australia, IAP congress, October 2004 Lecture: Evolution of cirrhosis
- 96. Chandigarh, India, Dec 2004 The pathogenesis and regression of cirrhosis
- 97. New Delhi, India, APASL, Dec 2004 State of the Art Lecture: Pathogenesis of cirrhosis
- 98. New Delhi, India, APASL, Dec 2004 Lecture: Spectrum of drug-induced liver disease
- 99. New Delhi, India, APASL, Dec 2004 State of the Art Lecture: Regression of cirrhosis
- 100. New Delhi, India, PB Pant Hospital, Dec 2004 Lecture: Pathology of noncirrhotic portal hypertension.
- 101. San Antonio, Texas, USCAP, Hans Popper Hepatic Pathology Seminar, Feb. 27, 2005 Lecture: Nomenclature of small hepatocellular nodules.
- 102. Sao Paulo, Brazil, March 7, 2005 Resident's slide seminar.
- 103. Sao Paulo, Brazil, March 8, 2005 Pathogenesis of chronic liver disease.
- 104. Salvador, Brazil, March 9-14, 2005. Visiting professor, Lecture: Pathology of chronic liver disease: comparison of cirrhosis and pipe-stem fibrosis of schistosomiasis.
- 105. Banff, Canada. Canadian Association for Study of the Liver, Annual Meeting, March 21, 2005. Gold Medalist Lecture: An integrated hypothesis for the pathogenesis of chronic liver disease.
- 106. Baveno, Italy, April 26-29, 2005 invited panelist, coauthor position paper pathologic definition of hepatocellular carcinoma and precursor lesions
- 107. Rome, May 2005 Gnomes meeting, lecture
- 108. Seoul, May 2005 Guest lecturer, Korean Association for Study of the Liver (Lecture: Fibrogenesis and the liver).
- 109. Seoul, May 2005 Guest lecturer, Korean Association for Study of the Liver (Lecture: Pathogenesis of cirrhosis)
- 110. Bordeaux, June 2005 Laennec Liver Pathology Society: Lecture: Fibrosis and the liver
- 111. Bordeaux, June 2005 Consensus conference on hepatocellular nodules: Lecture: pathology of telangiectatic focal nodular hyperplasia.
- 112. Barcelona, June 2005 Single topic conference on HCC: presentation of consensus document: "Recommendations for pathology of hepatocellular carcinoma".
- 113. Charlottesville, Virginia. October 10, 2006 Single topic conference on Coagulation and the liver, Lecture: "Thrombosis and parenchymal extinction".
- 114. Padua, Italy, November 18, 2005 –visiting professor, lecture "The pathogenesis of cirrhosis".
- 115. Padua, Italy, November 22, 2005, Conference entitled Attualita e prospettive in Epatologia, Lecture on "Diagnosis of regenerative and neoplastic nodules in the liver".
- 116. Awaji, Japan, Dec 2, 2005 Single topic conference on Hepatocellular carcinoma, Lecture: HCC, international consensus

- 117. Seoul, Dec. 5, 2005 visiting professor with lecture on "Congestive hepatopathy".
- 118. Chandigarh, India, Post-graduate Institute MER, February 21, 2006: Lecture: "Congestive Hepatopathy".
- 119. New Delhi, All India Institute of Medical Science, February 22, 2006, Lecture "The pathgenesis of cirrhosis".
- 120. Nagpur, India, Annual meeting of India Association for Study of Liver disease, February 24, 2006. Lecture "Non-cirrhotic portal hypertension".
- 121. Miraj, India, Wanless Hospital at Miraj Medical Centre, February 27, 2006, lecture "Nodular lesions of the liver".
- 122. New Delhi, G.B Pant Hospital, March 1, 2006. Lecture "The pathogenesis of cirrhosis".
- 123. New Delhi, Apollo Hospital, March 2, 2006, Lecture "Nodular lesions of the liver".
- 124. Boston, MGH, Visiting professor, April 6, 2006, Lecture on "What is cirrhosis?". Plus seminar with case presentations.
- 125. Thessaloniki, Greece, Laennec Liver Pathology Society, May 10-14, 2006. Lecture on "Diagnosis of early hepatocellular carcinoma".
- 126. Bethesda, NIH, Visiting professor, May 25, 2006, Lecture "What is cirrhosis?" Plus seminar with case presentation.
- 127. Montreal, IAP Congress, Sept 10, 2006, Vascular lesions and "congestive hepatopathy" in the pathogenesis of cirrhosis and its regression".
- 128. Boston, AASLD, October 27, 2006. Transplantation Course. Lecture on "Pathology of Budd-Chiari Syndrome".
- 129. Boston, Laennec Liver Pathology Society, October 2006. Lecture on "Gaia and the liver: What we can learn from global warming".
- 130. Calcutta, December 8, 2006, Single topic conference on Hepatic Fibrosis, Indian Association for Study of Liver. Lecture on "Progression of chronic hepatitis: Pathologic features and evolution."
- 131. Calcutta, December 8, 2006, Single topic conference on Hepatic Fibrosis, Indian Association for Study of Liver. Debate: "Chronic liver disease should be understood in terms of fibrosis only".
- 132. Calcutta, December 9, 2006, Single topic conference on Hepatic Fibrosis, Indian Association for Study of Liver. Lecture on "NCPF and cirrhosis: Two metastable states in the liver".
- 133. Moncton, NB. April 20, 2007, Visiting professor, Lecture on "Pathogenesis of cirrhosis".
- 134. Lyon, France, International Liver Pathology Study Group (Gnomes), May 11, 2007. Lecture on "Parallel Universes: Cosmology and Cirrhosis". Plus case presentations.
- 135. Philadelphia, Einstein Medical Center, June 1, 2007, Visiting professor, lecture on "Pathogenesis of cirrhosis: IOI". Plus resident seminar.
- 136. Toronto, CLMC Congress, June 12, 2007. Lecture on "Pathology and pathogenesis of fatty liver disease".
- 137. Chester, NS. Laennec Liver Pathology Society, July 26, 2007, Lecture on "Role of angiogenesis and vascular shunting in the pathogenesis of cirrhosis.
- 138. Barcelona, October 2007. Visiting professor, Lecture on "Angiogenesis, congestive hepatopathy, and cirrhosis"
- 139. Paris, October 2007, Visiting professor, Lecture on "Angiogenesis in the liver"

- 140. Boston, November 2007, Annual Postgraduate Course of AASLD, faculty and course co-director. Lecture on "Vascular disease and cirrhosis".
- 141. Taipei, December 2007, Bilateral Canada-Taiwan conference of liver cancer. Lecture on "Diagnosis of early hepatic neoplasia"
- 142. Soeul, January 2008: Lecture on: "Techniques for staging of chronic liver disease"
- 143. Soeul, March 2008, Asia Pacific Assoc Study of Liver (APASL): Lecture on: "Staging of chronic hepatitis"
- 144. Soeul, March 2008, APASL: Lecture on: "Pathology of non-alcoholic fatty liver disease"
- 145. Soeul, March 2008. APASL: Lecture on: "Pathology in vascular diseases of liver"
- 146. Cologne, June 2008, International Liver Pathology Study Group (Gnomes), Lecture on "Role of hepatic vein occlusion in the pathogenesis of cirrhosis and hepatic arterialization", plus case presentations.
- 147. Padua, July 2008, Laennec Liver Pathology Society. Lecture on "The Laennec Staging System revision for 2009, project overview".
- 148. Athens, August 2008 IAP Congress. Lecture on "Going with the flow: the importance of vascular abnormalities in chronic liver disease".
- 149. San Francisco, Laennec Liver Pathology Society, November 2008. Lecture on "The Laennec Staging System, update 2008".
- 150. Fukuoka, Japan, 7th JSH Single Topic Conference "Hepatic hemodynamic disorders", November 22, 2008. Lecture on "Vascular injury and the pathogenesis of cirrhotic and non-cirrhotic portal hypertension".
- 151. Budapest, January 22-24, 2009, EASL Monothematic Conference. Lecture on "Vascular occlusion and parenchymal extinction".
- 152. Sao Paulo, Brazil, April 23, 2009, 4th Liver Pathology Meeting. Lecture on "Pathology of vascular disorders".
- 153. Sao Paulo, Brazil, April 24, 2009, 4th Liver Pathology Meeting. Lecture on "Parenchymal extinction: coagulation and hepatic fibrogenesis".
- 154. Sao Paulo, Brazil, April 24, 2009, 4th Liver Pathology Meeting. Lecture on "Vascular aspects of liver tumors".
- 155. Groningen, The Netherlands, May 7-9, 2009. Lecture and seminar: "The Laennec Staging System 2009" and Lecture on "The pathogenesis of focal nodular hyperplasia and the liver *in silico*".
- 156. Marriotts Cove, NS, June 2009, International Liver Pathology Study Group (Gnomes), Lecture on "The pathogenesis of focal nodular hyperplasia", plus case presentations.
- 157. Halifax, NS. July 15, 2009. Annual Meeting Canadian Association of Pathologists. Cam Coady Slide Seminar: "Chronic Liver Disease: Classification, Evaluation, Differential Diagnosis, and Mimics"
- 158. London, UK, Jan 28, 2010, Symposium in honour of Bernard Portmann:Lecture on "Pathogenesis of Cirrhosis".
- 159. Washington DC, March 22-26, 2010, USCAP: Specialty Conference Lecture on "Peritumoural hyperplasia"
- 160. Singapore, May 10, 2010, Visiting professor: Lecture on: "The pathogenesis of cirrhosis".
- 161. Seoul, Korea, May 12-15, 2010, Lectures: "The Laennec Staging System 2010" and Lecture on "The nomenclature of toxic microvascular injury".
- 162. Paris France, June 2-5, 2010, International Liver Pathology Study Group, Case presentations.

- 163. Bordeaux, France, June 11, 2010, Symposium in honour of Paulette Bioulac-Sage: Lecture on "Regression of cirrhosis".
- 164. Izmir, Turkey, September 2010: Lecture on: "The pathogenesis of cirrhosis".
- 165. Eskisehir, Turkey, September 2010. Congress of Pathology. Lecture and Slide seminar: Lecture on: "The pathogenesis of cirrhosis".
- 166. Eskisehir, Turkey, September 2010. Congress of Pathology. Slide seminar: "Hepatocellular mass lesions".
- 167. Sao Paulo Oct 2010 IAP Congress. Lecture: "The pathogenesis of cirrhosis".
- 168. Boston. Nov 2010, AASLD Breakfast workshop. Non-cirrhotic portal hypertension
- 169. Taipei, May 20-24, 2011 Asia Pacific IAP Congress. Lecture. Invitation declined.
- 170. Washington DC, May 2011. Laennec Liver Pathology Society, Lecture on: "The pathogenesis of Focal Nodular Hyperplasia".
- 171. St.Louis, June 2011. International Liver Pathology Study Group (Gnomes), Lecture on: "Pathology and pathogenesis of veno-occlusive disease".
- 172. Chandigarh, India. 3 lectures, including Keynote lecture, plus 3 hours seminar teaching in postgraduate course, Sept 30-Oct 2, 2011.
- 173. New Delhi, India, January 28-29, 2012. Clinicopathological conference. (2 lectures, workshop)
- 174. Vellore, India, Christian Medical College. Visiting Professor. February 3-4, 2012 (3 lectures, workshop)
- 175. Heidelberg, Germany, May 2012. Laennec Liver Pathology Society, Lecture on: "Regression of cirrhosis: Mechanisms of regeneration and value of the glutamine synthetase stain".
- 176. Mwanza, Tanzania, July 2012. International Liver Pathology Study Group (Gnomes), Lectures on: "Pathology and pathogenesis of cirrhosis" and "Pathogenesis and classification of nodular regenerative hyperplasia".
- 177. Vatican City, Rome, December 5, 2012. Department of Pathology, Bambino Jesu Hospital, Lecture on: Pathogenesis of focal nodular hyperplasia.
- 178. Brisbane, May 2, 2013. International Liver Pathology Study Group (Gnomes), Case presentations and Lecture on: Nodular liver lesions in Budd-Chiari Syndrome.
- 179. Singapore, May 16, 2013. Laennec Liver Pathology Society, Lecture on: Arterialization of the liver: Mechanisms and application to the classification of regenerative nodules (NRH, LRN, FNH) and hepatocellular adenomas.
- 180. Singapore, June 7, 2013. Asia-Pacific Assoc Study of Liver. Lectures on: "New concepts in pathogenesis and regression of cirrhosis" and "New classification of cirrhosis pathological perspective"
- 181. Busan, Korea, September 6, 2013. Asia-Pacific Congress of Int Academy of Pathology, Lecture on: Recent developments in liver fibrosis.
- 182. Kurume, Japan. Sept 2013. Invited lecture: Pathogenesis cirrhosis and focal nodular hyperplasia.
- 183. Berlin, Oct 2013: United European Gastorenterology Week 2013: Lecture: Pathogenesis of cirrhosis: Going with the flow.
- 184. New York, May 10, 2014: Laennec Liver Pathology Society. Lecture: Pathogenesis of cirrhosis
- 185. Ravello, Italy. May 29, 2014: International Liver Pathology Study Group (Gnomes), Case presentations and Lecture on: Regression of Cirrhosis: Role of the Progenitor (Ductular) Reaction.
- 186. Vellore, India, Jan. 21-23, 2015: Visiting Professor, CME: 4 lectures, one slide seminar

- 187. Madrid, Feb. 26, 2015: Spanish Association for Study of Liver diseases. Keynote speaker: Pathogenesis of cirrhosis: Relative role of parenchymal extinction and fibrogenesis.
- 188. Boston, March 21-27, 2015. USCAP and Hans Popper Hepatopathology Society. Lecture on: Noncirrhotic Portal Hypertension and Pathology of the Sinusoids.
- 189. Birmingham, UK. May 27-29, 2015, International Liver Pathology Study Group (Gnomes). Lecture: Archeology of parenchymal extinction and cirrhosis.
- 190. Paris, June 24-26, 2015, Laennec Liver Pathology Society. Lecture and discussion of consensus document: The nomenclature of microvascular disease of liver, including veno-occlusive disease (sinusoidal obstruction syndrome).
- 191. Paris, June 24-26, 2015, Laennec Liver Pathology Society. Lecture: The pathogenesis of non-cirrhotic portal hypertension
- 192. Charlottesville, Virginia, Oct. 3-4, 2015. Coagulation in liver disease symposium VI. Lecture: Parenchymal extinction: the means to progression of chronic liver disease.
- 193. Adelaide, Australia, April 2016, International Liver Pathology Study Group (Gnomes). Lecture: What does Collagen Proportionate Area (CPA) measure?
- 194. Sao Paulo, Brazil, July 2016. Laennec Liver Pathology Society. Lecture: What is cirrhosis? Fibrosis or Parenchymal Extinction.
- 195. Boston, November 1-4, 2016. AASLD, Portal hypertension Special Interest Group. Platform presentation: What is cirrhosis? Fibrosis or Parenchymal Extinction.
- 196. Merida, Mexico. May 2017, Mexican Congress of Pathology. Lecture: Nuevos conceptos en la patogénesis y regresión de la cirrosis hepatica (given in English).
- 197. Groningen, Netherlands, May 2017, International Liver Pathology Study Group (Gnomes). Lecture: Hepatic fibrosis: What, where, when, how?
- 198. Lausanne, Switzerland, May 2017. Centre Hospitalier Universitaire Vaudois. Lecture: Pathogenesis of cirrhosis: progression and regression.
- 199. Bali, Indonesia, June 2017. Laennec Liver Pathology Society. Lecture: The natural history of ductular reaction in severe cirrhosis.
- 200. Bela Horizonte, Brazil, Nov 2017. Brazilian Congress of Pathology. Lecture: Lesoes vasculares sinusoidais (given in English).
- 201. Bela Horizonte, Brazil, Nov 2017. Brazilian Congress of Pathology. Lecture: Lesoes de veias do sisterna supra hepatico (given in English).
- 202. New Delhi, March 17, 2018, Asian Pacific Assoc for study of Liver. State of the Art lecture: Hepatic fibrosis and vascular disease in the pathogenesis and regression of cirrhosis.
- 203. New Delhi, March 17, 2018, Asian Pacific Assoc for study of Liver. Lecture in Liver pathology symposium: Virtual microscopy in evaluation of liver fibrosis
- 204. Athens, May 2-5, 2018, International Liver Pathology Study Group (Gnomes). Lecture: Vascular injury in sinusoidal obstruction disease.
- 205. Halifax, Canada, June 6-9, 2018. Laennec Liver Pathology Society. Lecture: Vascular injury in sinusoidal obstruction syndrome.
- 206. Beijing and Shanghai, October 2018, Lecture (given 3 times): The mechanisms leading to the formation of cirrhosis and its regression..

- 207. Berne, December 13, 2018. Lecture: Histological assessment of liver fibrosis and cirrhosis: New prospectives and new techniques.
- 208. Zurich, December 14, 2018. Lecture: Histological assessment of liver fibrosis and cirrhosis: New prospectives and new techniques.
- 209. Vienna, April 10, 2019, International Liver Congress (EASL) Postgraduate course lecture: Information provided by liver biopsy in the diagnosis of cirrhosis.
- 210. Hong Kong, April 26, 2019. Laennec Liver Pathology Society. Lecture: Histological assessment of fibrosis and cirrhosis: From concept of parenchymal extinction to a revised Laennec staging system.
- 211. Rochester, MN, June 21, 2019. International Liver Pathology Study Group (Gnomes). Lecture: What are the sources of fibrosis in cirrhosis?
- 212. Shanghai, August 3, 2019. Lecture: Pathogenesis of cirrhosis and Regression: A Pathologist's perspective, delivered live (by Zoom). Hosted by Chenghai Liu.
- 213. Boston: November 2019: Invited lecture (Hosted by Hong You): Histology of chronic hepatitis B, a 5 year followup of a therapeutic trial in China.
- 214. Baveno, Italy, March 20, 2020, Lecture: Parenchymal extinction lesions in progression of chronic liver disease. Can they regress?

Summary of research endeavors

Dr. Ian R. Wanless, MD, FRCPC
Department of Pathology, Dalhousie University, Halifax, Canada

This section summarizes my most focused research activities with relevant publications clustered into 4 areas.

1. Pathogenesis of hepatic steatosis and steatohepatitis

These studies are the first to document the role of insulin in human fatty liver disease, providing insight into the pathogenesis of fatty liver of obesity (NASH), post-jejuno-ileal bypass, and alcoholic liver disease, focal fatty liver and focal fatty sparing.

- Wanless IR, Bargman J, Oreopoulos D, Vas S. Subcapsular steatonecrosis of the liver in response to
 peritoneal insulin delivery: A clue to the pathogenesis of steatonecrosis in obesity. Modern Pathology
 1989;2:69-74.
- Wanless IR, Lentz JS. Fatty liver hepatitis (steatohepatitis) and obesity: An autopsy study with analysis of risk factors. Hepatology 1990;12:1106-1110.
- Battaglia DM, Wanless IR, Brady AP, Mackenzie RL. Intrahepatic sequestered segment of liver presenting as focal fatty change. Am J Gastroenterology 1995;90:238-239.
- Edwards L and Wanless IR. Mechanisms of liver involvement in systemic disease. Best Pract Res Clin Gastroenterol 2013;27: 471-483.

2. Pathogenesis and classification of various forms of nodular hyperplasia

These studies propose that the many different diseases having nodules of hyperplastic hepatocytes are all caused by vascular abnormalities in the liver. The various forms can be explained by the distribution of the vascular lesions. Several new varieties of nodules were described in the course of this work (telangiectatic type of FNH, multiple FNH syndrome, and focal hyperplasia with angiogenesis secondary to localized hepatic vein thrombosis (HAT) and focal hyperplasia in Budd-Chiari syndrome).

- Wanless IR, Godwin TA, Allen F, Feder A. Nodular regenerative hyperplasia of the liver in hematologic disorders: A possible response to obliterative portal venopathy. Medicine (Baltimore) 1980;59:367-379.
- Wanless IR, Solt L, Kortan P, et al. Nodular regenerative hyperplasia of the liver associated with macroglobulinemia: A clue to the pathogenesis. Am J Med 1981;70:1203-1209.
- Wanless IR, Bernier V, Seger M. Intrahepatic portal sclerosis in patients without history of liver disease: An autopsy study. Am J Pathol 1982;106: 63-70.
- Thorne C, Urowitz M, Wanless IR, Roberts E, Blendis L. Liver disease in Felty's syndrome. Am J Med 1982;73:35-40.
- Reynolds J, Wanless IR. Nodular regenerative hyperplasia of the liver in a patient with rheumatoid arteritis. J Rheumatol 1984;11: 838-842.
- Wanless IR, Lentz JS, Roberts EA. Partial nodular transformation of the liver in an adult with persistent ductus venosus. A review with hypothesis on the pathogenesis. Arch Pathol Lab Med 1985;109:427-432.
- Wanless IR, Mawdsley C, Adams R. On the pathogenesis of focal nodular hyperplasia of the liver. Hepatology 1985;5:1194-1200.
- Wanless IR, Gryfe A. Nodular transformation of the liver in hereditary hemorrhagic telangiectasia. Arch Pathol Lab Med 1986;110: 331-335.
- Wanless IR, Albrecht S, Bilbao J, Frei JV, Heathcote EJ, Roberts EA, Chiasson D. Multiple focal nodular hyperplasia of the liver associated with vascular malformations of various organs and neoplasia of the brain: a new syndrome. Modern Pathology 1989;2:456-462.
- Wanless IR. Micronodular transformation (nodular regenerative hyperplasia) of the liver: a report of 64 cases among 2500 autopsies and a new classification of benign hepatocellular nodules. Hepatology 1990;11:787-797.
- International Working Party of World Congresses of Gastroenterology. Terminology of Nodular Lesions of the Liver. Hepatology 1995;22:983-993.

- McEntee M, Wright K, Wanless IR, DeNovo R, Shull R. Non-cirrhotic portal hypertension and nodular regenerative hyperplasia of the liver in dogs with mucopolysaccharidosis I (MPS-I). Hepatology 1998, 28:385-90.
- Wanless, IR, Terris B, Bioulac-Sage P, Balabaud C, Fléjou JF, Degott C, Belghiti J, Hemming A, Greig P. Focal Hyperplasia (FH) of liver associated with localized hepatic vein thrombosis: a lesion with some features of "focal nodular hyperplasia". (Presented at USCAP, New Orleans, March 2000).
- Arnason T, Fleming K, Wanless IR. Peritumoural hyperplasia of the liver: a response to portal vein invasion by hypervascular neoplasms. Histopathology 2013; 62, 458–464.
- Wanless IR, Takayama A. Focal Nodular Hyperplasia is a response to artery-to-portal vein shunt causing arterialization and congestive injury that explains the map-like pattern of glutamine synthetase. Hepatology 2013;58:457A. (AASLD Washington November, 2013, poster presented)
- Wanless IR. Benign Liver Tumours, in Sherlock's Diseases of the Liver and Biliary System, 13th edition, edited by Dooley JS, Lok A, Burroughs A, Heathcote J., Wiley-Blackwell, Oxford, 2018, pp 693-704.
 (Discussion on pathogenesis of Focal Nodular Hyperplasia)

3. The role of vascular disease and angiogenesis in the pathogenesis of cirrhosis

- These studies describe the "The 2-hit vascular model for the pathogenesis of cirrhosis". This model describes how 1) obliteration of the portal vein supply and the hepatic vein drainage causes obligate extinction of the supplied acinar parenchyma and 2) cirrhosis is the accumulation of many separate extinction lesions arising from discrete obliterative vascular events.
- Wanless IR, Liu J, Butany J. Role of thrombosis in the pathogenesis of congestive hepatic fibrosis (cardiac cirrhosis). Hepatology 1995;21:1232-1237.
- Wanless IR, Wong F, Blendis LM, Greig P, Heathcote EJ, Levy G. Hepatic and portal vein thrombosis in cirrhosis: possible role in development of parenchymal extinction and portal hypertension. Hepatology 1995;21:1238-1247.
- Wanless IR. Thrombosis and phlebitis in the pathogenesis of portal hypertension and cirrhosis: the 2-hit hypothesis for the pathogenesis of chronic liver disease. In Arroyo V, Bosch J, Bruguera M, Rodes J (eds). Therapy in Liver Diseases, Barcelona, Masson, 1997, pp 47-50.
- Shimamatsu K, Wanless IR. Role of ischemia in causing apoptosis, atrophy, and nodular hyperplasia in human liver. Hepatology 1997;26:343-350.
- Moreno-Merlo F, Wanless IR, Shimamatsu K, Sherman M, Greig P, Chiasson D. The role of granulomatous phlebitis and thrombosis in the pathogenesis of cirrhosis and portal hypertension in sarcoidosis. Hepatology 1997;26:554-560.
- Tanaka M, Wanless IR. Pathology of the liver in Budd-Chiari syndrome: portal vein thrombosis and the histogenesis of veno-centric cirrhosis, veno-portal cirrhosis, and large regenerative nodules. Hepatology 1998;27:488-496.
- Wanless IR, Shimamatsu K. The histogenesis of biliary cirrhosis. Mod Pathol 1999;12:169A. (Poster, USCAP, San Francisco, March 1999)
- Wanless IR. Arterialization of the liver causes baro-injury in cirrhosis and focal nodular hyperplasia (FNH) Hepatology 1999;30:571A
- Ward NL, Haninec AL, Van Slyke P, Sled JG, Sturk C, Henkelman RM, et al. Angiopoietin-1 causes reversible degradation of the portal microcirculation in mice: implications for treatment of liver disease. Am J Pathol 2004;165(3):889-99.
- Wanless IR and Huang W. Vascular disorders. In Burt AD, Portmann BC, Ferrell LD (eds). MacSween's Pathology of the Liver, 6th edition, Churchill Livingston, Edinburgh, 2012, pp 601-643.
- Fleming K, Wanless IR. Glutamine synthetase expression in activated hepatocyte progenitor cells and loss of hepatocellular expression in congestion and cirrhosis. Liver International, 2013: 33: 525–534
- Stueck, AE and Wanless IR. Hepatocyte buds derived from progenitor cells repopulate regions of parenchymal extinction in human cirrhosis. Hepatology 2015;61(5):1696-1707.
- Wanless, IR. The role of vascular injury and congestion in the pathogenesis of cirrhosis: the congestive escalator and the parenchymal extinction sequence. Current Hepatology Reports. 2020;19(1):40-53.
 Open Access, (For supplementary electronic content (video), see journal website at: https://link.springer.com/article/10.1007/s11901-020-00508-y) or www.ianwanless.ca.

4. The reversibility of cirrhosis

These studies demonstrate the histologic appearance of repair processes in the cirrhotic liver. Recognition of these features allows a reinterpretation of the natural history of cirrhosis, incomplete septal cirrhosis, and various types of noncirrhotic portal hypertension such as idiopathic portal hypertension. The major conclusion is that cirrhosis is in a constant state of regression towards normal. In most chronic diseases, this process of regression is interrupted by periods of activity that worsen the state of fibrosis. Currently, work is in progress to define the factors that prevent regression of some fibrous septa and thus prevent regression in many patients.

- Nakashima E, Kage M, Wanless IR. Idiopathic portal hypertension: Histologic evidence that some cases may be regressed cirrhosis with portal vein thrombosis. Hepatology 1999;30:218A. (Poster presented at AASLD, Dallas, Nov 1999.)
- Wanless IR, Nakashima E, Sherman M. Regression of human cirrhosis: morphologic features and the genesis of incomplete septal cirrhosis. Arch Pathol Lab Med 2000 124:1599-607.
- Wanless IR. Regression of human cirrhosis: In Reply. Arch Pathol Lab Med 2000;124:1592-3.
- Ward NL, Haninec AL, Van Slyke P, Sled JG, Sturk C, Henkelman RM, et al. Angiopoietin-1 causes reversible degradation of the portal microcirculation in mice: implications for treatment of liver disease. Am J Pathol 2004;165(3):889-99.
- Nakashima E, Wanless IR. Most non-cirrhotic livers with hepatocellular carcinoma (HCC) have evidence
 of fibrosis or regressed cirrhosis: implications for the pathogenesis of HCC. Hepatology 1999;30:257A.
 (Poster presented at AASLD, Dallas, Nov 1999.)
- Wanless IR and Huang W. Vascular disorders. In Burt AD, Portmann BC, Ferrell LD (eds). MacSween's Pathology of the Liver, 6th edition, Churchill Livingston, Edinburgh, 2012, 601-643.
- Stueck, AE and Wanless IR. Hepatocyte buds derived from progenitor cells repopulate regions of parenchymal extinction in human cirrhosis. Hepatology 2015;61(5):1696-707.
- Wanless IR. The mechanism of irreversibility of late stage cirrhosis. J Hepatology 2018;68,S692 (suppl 1)(Poster presented April 14, 2018, EASL International Liver Congress, Paris). (Full paper version in preparation, 2020)

Brief Biography

Dr. Ian R. Wanless, MD, FRCPC

Department of Pathology, Dalhousie University, Halifax, Canada

Dr. Wanless is a graduate of McGill University, with post-graduate training at the University of Alberta and Cornell University Medical College, New York. After spending 28 years at the University of Toronto, he is now a Professor of Pathology at Dalhousie University and Queen Elizabeth II Health Sciences Centre in Halifax.

Dr.Wanless' research has concentrated on 3 areas of liver pathology, including steatohepatitis, nodular hyperplasia (including NRH and FNH), and the role of vascular events in the pathogenesis and regression of cirrhosis.

His studies were the first to document the role of insulin and hyperinsulinemia in human fatty liver disease, providing insight into the pathogenesis of fatty liver occurring in obesity (NASH), alcoholism, and post-jejuno-ileal bypass. He demonstrated how heterogeneity of insulin delivery to the tissues explains focal fatty change and focal fatty sparing.

His studies of the hepatic vasculature provide insights for the pathogenesis of focal nodular hyperplasia, nodular regenerative hyperplasia, non-cirrhotic portal hypertension, cirrhosis, and toxic sinusoidal injury (sinusoidal obstruction syndrome). Current interest documents the regression of cirrhosis, including the discovery of regenerative hepatocellular buds and details of their maturation sequence, including the genesis of canals of Hering, and the vascular factors that limit the ability of the cirrhotic liver to undergo complete regression. Current work in progress documents the importance of collapse in causing a significant proportion of the increased concentration of collagen in cirrhosis.