



C. Andrew Bonham

Associate Professor of Surgery (Abdominal Transplantation) at the Stanford University Medical Center

Surgery - Abdominal Transplantation

CLINICAL OFFICES

- **Multi Organ Transplant**

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Bio

CLINICAL FOCUS

- General Surgery
- Liver Transplantation
- Live-donor Liver Transplantation
- Pediatric Transplantation
- Intestinal Transplantation
- Kidney and Pancreas Transplantation
- Portal Hypertension
- Hepatobiliary Surgery
- Cancer of Biliary Tract
- Cancer, Liver

ACADEMIC APPOINTMENTS

- Associate Professor - Med Center Line, Surgery - Abdominal Transplantation
- Member, Bio-X
- Member, Maternal & Child Health Research Institute (MCHRI)

ADMINISTRATIVE APPOINTMENTS

- Director, Intestinal Transplantation, Stanford, (2014- present)
- Director, Live-Donor Liver Transplantation, Stanford, (2015- present)

HONORS AND AWARDS

- Fellow, American College of Surgeons (2000-present)

PROFESSIONAL EDUCATION

- Internship: Weill Cornell Medical College (1992) NY
- Fellowship: University of Pittsburgh Medical Center General Surgery Residency (1997) PA
- Residency: Texas Tech University Health Sciences Center School of Medicine (1994) TX
- Residency, Weill Cornell School of Medicine (1992)
- Board Certification: General Surgery, American Board of Surgery (1995)
- Medical Education: University of Oklahoma (1989) OK

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Tolerance induction in liver transplantation.

Hepatocyte transplantation.

CLINICAL TRIALS

- Immunosuppression Impact on the Metabolic Control of Kidney Transplant With Pre-Existing Type 2 Diabetes (DM), Not Recruiting
- Phase II SBRT & Chemo for Unresectable Cholangiocarcinoma Followed by Liver Transplantation, Not Recruiting

Publications

PUBLICATIONS

- **THE ROLE OF LOCOREGIONAL THERAPY (LRT), POST LRT IMAGING, AND EXPLANT PATHOLOGY AS PREDICTORS OF HEPATOCELLULAR CARCINOMA (HCC) RECURRENCE POST ORTHOTOPIC LIVER TRANSPLANT (OLT)**
Prabhakar, V., Dhanasekaran, R., Arjunan, V., Tulu, Z., Ahmed, A., Daugherty, T., Kumari, R., Patel, B., Kim, W., Goel, A., Esquivel, C. O., Concepcion, W., Melcher, et al
WILEY.2019: 691A–692A
- **Rates of liver retransplantation in the United States are declining in the era of direct-acting antiviral agents** *JOURNAL OF VIRAL HEPATITIS*
Cholankeril, G., Yoo, E. R., Hu, M., Gadiparthi, C., Khan, M. A., Perumpail, R. B., Bonham, C. A., Ahmed, A.
2017; 24 (12): 1194–95
- **Underutilization of Living Donor Liver Transplantation in the United States: Bias against MELD 20 and Higher.** *Journal of clinical and translational hepatology*
Perumpail, R. B., Yoo, E. R., Cholankeril, G., Hogan, L., Deis, M., Concepcion, W. C., Bonham, C. A., Younossi, Z. M., Wong, R. J., Ahmed, A.
2016; 4 (3): 169-174
- **Effect of Liver Transplant on Long-term Disease-Free Survival in Children With Hepatoblastoma and Hepatocellular Cancer** *JAMA SURGERY*
Pham, T. A., Gallo, A. M., Concepcion, W., Esquivel, C. O., Bonham, C. A.
2015; 150 (12): 1150-1158
- **HCV infection is associated with lower survival in simultaneous liver kidney transplant recipients in the United States** *CLINICAL TRANSPLANTATION*
Perumpail, R. B., Wong, R. J., Scandling, J. D., Ha, L. D., Todo, T., Bonham, C. A., Saab, S., Younossi, Z. M., Ahmed, A.
2015; 29 (10): 920-926
- **Treatment of methylmalonic acidemia by liver or combined liver-kidney transplantation.** *journal of pediatrics*
Niemi, A., Kim, I. K., Krueger, C. E., Cowan, T. M., Baugh, N., Farrell, R., Bonham, C. A., Concepcion, W., Esquivel, C. O., Enns, G. M.
2015; 166 (6): 1455-61 e1
- **Treatment of Methylmalonic Acidemia by Liver or Combined Liver-Kidney Transplantation** *JOURNAL OF PEDIATRICS*
Niemi, A., Kim, I. K., Krueger, C. E., Cowan, T. M., Baugh, N., Farrell, R., Bonham, C. A., Concepcion, W., Esquivel, C. O., Enns, G. M.
2015; 166 (6): 1455-?

- **Recurrent Hepatocellular Carcinoma and Poorer Overall Survival in Patients Undergoing Left-sided Compared With Right-sided Partial Hepatectomy.** *Journal of clinical gastroenterology*
Valenzuela, A., Ha, N. B., Gallo, A., Bonham, C., Ahmed, A., Melcher, M., Kim, L. H., Esquivel, C., Concepcion, W., Ayoub, W. S., Lutchman, G. A., Daugherty, T., Nguyen, et al
2015; 49 (2): 158-164
- **Complications Following Liver Transplantation for Progressive Familial Intrahepatic Cholestasis** *DIGESTIVE DISEASES AND SCIENCES*
Berumen, J., Feinberg, E., Todo, T., Bonham, C. A., Concepcion, W., Esquivel, C.
2014; 59 (11): 2649-2652
- **Improved survival outcomes in patients with non-alcoholic steatohepatitis and alcoholic liver disease following liver transplantation: an analysis of 2002-2012 United Network for Organ Sharing data.** *Clinical transplantation*
Wong, R. J., Chou, C., Bonham, C. A., Concepcion, W., Esquivel, C. O., Ahmed, A.
2014; 28 (6): 713-721
- **Primary surgical resection versus liver transplantation for transplant-eligible hepatocellular carcinoma patients.** *Digestive diseases and sciences*
Wong, R. J., Wantuck, J., Valenzuela, A., Ahmed, A., Bonham, C., Gallo, A., Melcher, M. L., Lutchman, G., Concepcion, W., Esquivel, C., Garcia, G., Daugherty, T., Nguyen, et al
2014; 59 (1): 183-191
- **Liver transplantation for urea cycle disorders in pediatric patients: A single-center experience** *PEDIATRIC TRANSPLANTATION*
Kim, I. K., Niemi, A., Krueger, C., Bonham, C. A., Concepcion, W., Cowan, T. M., Enns, G. M., Esquivel, C. O.
2013; 17 (2): 158-167
- **Reoperation in Pediatric Liver Transplantation: A Five Year Review** *13th Annual State of the Art Winter Symposium of the American-Society-of-Transplant-Surgeons (ASTS) Held in Conjunction with the NATCO Symposium for Advanced Transplant Professionals*
Feinberg, E. J., Beruman, J. A., Campos, B. D., Lodhia, N., Gallo, A. E., Melcher, M., Bonham, C. A., Concepcion, W., Esquivel, C. O.
WILEY-BLACKWELL.2013: 84-84
- **Pediatric combined heart-liver transplantation performed en bloc: A single-center experience** *PEDIATRIC TRANSPLANTATION*
Hill, A. L., Maeda, K., Bonham, C. A., Concepcion, W.
2012; 16 (4): 392-397
- **Incidence and Predictors of Recurrent Hepatocellular Carcinoma (HCC) Following Partial Hepatectomy** *76th Annual Scientific Meeting of the American-College-of-Gastroenterology*
Vergara, A. M., Gallo, A., Nghiem Ha, N., Bonham, C., Esquivel, C., Concepcion, W., Melcher, M., Daugherty, T., Ayoub, W., Lutchman, G., Ahmed, A., Mindie Nguyen, M.
NATURE PUBLISHING GROUP.2011: S103-S104
- **Portal Venous Remodeling After Endovascular Reduction of Pediatric Autogenous Portosystemic Shunts** *JOURNAL OF VASCULAR AND INTERVENTIONAL RADIOLOGY*
Stewart, J. K., Kuo, W. T., Hovsepian, D. M., Hofmann, L. V., Bonham, C. A., Sze, D. Y.
2011; 22 (8): 1199-1205
- **COMBINED HEART plus LIVER TRANSPLANTS (CH+LTx) IN CHILDREN: TECHNICAL AND IMMUNOSUPPRESSIVE STRATEGY TO ENSURE A GOOD OUTCOME**
Hwang, C. S., Gallo, A., Kim, I., Chin, C., Bonham, C. A., Concepcion, W., Esquivel, C. O.
WILEY-BLACKWELL.2011: 77-77
- **Successful Cavoatrial Anastomosis in Technically Challenging Liver Transplant Recipients** *American Transplant Congress*
Hwang, C. S., Gallo, A. E., Lightner, A., Bonham, C. A., Concepcion, W., Esquivel, C. O.
WILEY-BLACKWELL.2011: 332-332
- **Hepatic Epithelioid Hemangioendothelioma** *DIGESTIVE DISEASES AND SCIENCES*
Liu, Y. I., Brown, S. S., Elihu, A., Bonham, C. A., Concepcion, W., Longacre, T. A., Kamaya, A.
2011; 56 (2): 303-306
- **Hepatic Arteriovenous Malformations from Hereditary Hemorrhagic Telangiectasia: Treatment with Liver Transplantation** *DIGESTIVE DISEASES AND SCIENCES*
Lee, M., Sze, D. Y., Bonham, C. A., Daugherty, T. J.
2010; 55 (11): 3059-3062

- **Fulminant Clostridium difficile Colitis in a Post-Liver Transplant Patient** *DIGESTIVE DISEASES AND SCIENCES*
Lee, M., Shelton, A. A., Concepcion, W. L., Bonham, C. A., Daugherty, T. J.
2010; 55 (9): 2459-2462
- **Spontaneous Liver Rupture Associated With Hydatidiform Mole Pregnancy** *OBSTETRICS AND GYNECOLOGY*
Vanatta, J. M., Monge, H., Bonham, C. A., Concepcion, W.
2010; 115 (2): 437-439
- **Management of Biliary Strictures Following Liver Transplantation** *DIGESTIVE DISEASES AND SCIENCES*
Alexopoulos, S. P., Henningsen, J. A., Jeffrey, R. B., Bonham, C. A., Ahmed, A., Gonzalez, S. A.
2009; 54 (1): 25-27
- **Treatment of Recurrent Post-transplant Lymphoproliferative Disorder (PTLD) of the Central Nervous System (CNS) with High-dose Methotrexate (HD-MTX)** *11th International Symposium on Small Bowel Transplant*
Twist, C. J., KJELSON, L., MCKENNEY, A., Bonham, C. A., Esquivel, C., Castillo, R. O.
MEDIMOND S R L.2009: 116-121
- **Pediatric intestinal transplantation at Packard children's hospital/Stanford University medical center: Report of a four-year experience** *9th International Symposium on Small Bowel Transplantation*
Castillo, R. O., Zarge, R., Cox, K., Strichartz, D., Berquist, W., Bonham, C. A., Esquivel, C. O.
ELSEVIER SCIENCE INC.2006: 1716-17
- **Induction of tumor immunity and cytotoxic t lymphocyte responses using dendritic cells transduced by adenoviral vectors encoding HBsAg: comparison to protein immunization** *JOURNAL OF CANCER RESEARCH AND CLINICAL ONCOLOGY*
Qiu, S. J., Lu, L., Qiao, C. P., Wang, L. F., Wang, Z., Xiao, X., Qian, S. G., Fung, J. J., Ye, S. L., Bonham, C. A.
2005; 131 (7): 429-438
- **Mechanistic insights into impaired dendritic cell function by rapamycin: Inhibition of Jak2/Stat4 signaling pathway** *JOURNAL OF IMMUNOLOGY*
Chiang, P. H., Wang, L. F., Bonham, C. A., Liang, X. Y., Fung, J. J., Lu, L., Qian, S. G.
2004; 172 (3): 1355-1363
- **Marked prolongation of cardiac allograft survival by dendritic cells genetically engineered with NF-kappa B oligodeoxynucleotide decoys and adenoviral vectors encoding CTLA4-Ig** *JOURNAL OF IMMUNOLOGY*
Bonham, C. A., Peng, L. S., Liang, X. Y., Chen, Z. Y., Wang, L. F., Ma, L. L., Hackstein, H., Robbins, P. D., Thomson, A. W., Fung, J. J., Qian, S. G., Lu, L.
2002; 169 (6): 3382-3391
- **The interaction between antiretroviral agents and tacrolimus in liver and kidney transplant patients** *2nd International Congress on Immunosuppression*
Jain, A. K., Venkataraman, R., Shapiro, R., Scantlebury, V. P., Potdar, S., Bonham, C. A., Ragni, M., Fung, J. J.
JOHN WILEY & SONS INC.2002: 841-45
- **Inhibition of IL-12 signaling Stat4/IFN-gamma pathway by rapamycin is associated with impaired dendritic cell function** *2nd International Congress on Immunosuppression*
Chiang, P. H., Wang, L., Liang, Y., Liang, X., Qian, S., Fung, J. J., Bonham, C. A., Lu, L.
ELSEVIER SCIENCE INC.2002: 1394-95
- **Reduction in the circulating pDC1/pDC2 ratio and impaired function of ex vivo-generated DC1 in chronic hepatitis B infection** *CLINICAL IMMUNOLOGY*
Beckebaum, S., Cicinnati, V. R., Dworacki, G., Muller-Berghaus, J., Stolz, D., Harnaha, J., Whiteside, T. L., Thomson, A. W., Lu, L., Fung, J. J., Bonham, C. A.
2002; 104 (2): 138-150
- **Interaction between tacrolimus and antiretroviral agents in human immunodeficiency virus-positive liver and kidney transplantation patients** *2nd International Congress on Immunosuppression*
Jain, A. K., Venkataraman, R., Shapiro, R., Scantlebury, V. P., Potdar, S., Bonham, C. A., Pokharna, R., Rohal, S., Ragni, M., Fung, J. J.
ELSEVIER SCIENCE INC.2002: 1540-41
- **Liver-derived DEC205(+)B220(+)CD19(-) dendritic cells regulate T cell responses** *JOURNAL OF IMMUNOLOGY*
Lu, L. N., Bonham, C. A., Liang, X. Y., Chen, Z. Y., Li, W., Wang, L. F., Watkins, S. C., Nalesnik, M. A., Schlissel, M. S., Demestris, A. J., Fung, J. J., Qian, S. G.
2001; 166 (12): 7042-7052
- **Hepatocyte-induced apoptosis of activated T cells, a mechanism of liver transplant tolerance, is related to the expression of ICAM-1 and hepatic lectin** *18th World Congress of the Transplantation-Society*
Qian, S., Wang, Z., Lee, Y., Chiang, Y., Bonham, C., Fung, J., Lu, L.

ELSEVIER SCIENCE INC.2001: 226–26

- **Causes of death after liver transplantation in 4000 consecutive patients: 2 to 19 year follow-up** *18th World Congress of the Transplantation-Society*
Kashyap, R., Jain, A., Reyes, J., Demetris, A. J., Elmagd, K. A., Dodson, S. F., Marsh, W., Madariaga, V., Mazariegos, G., Geller, D., Bonham, C. A., Cacciarelli, T., Fontes, et al
ELSEVIER SCIENCE INC.2001: 1482–83
- **Causes of retransplantation after primary liver transplantation in 4000 consecutive patients: 2 to 19 years follow-up** *18th World Congress of the Transplantation-Society*
Kashyap, R., Jain, A., Reyes, J., Demetris, A. J., Elmagd, K. A., Dodson, S. F., Marsh, W., Madariaga, V., Mazariegos, G., Geller, D., Bonham, C. A., Cacciarelli, T., Fontes, et al
ELSEVIER SCIENCE INC.2001: 1486–87
- **A novel subset of dendritic cells propagated from the liver promotes differentiation of T regulatory cells and enhances allograft survival** *18th World Congress of the Transplantation-Society*
Lu, L., Liang, X., Li, W., Chen, Z., Nalesnick, M., Bonham, C., Fung, J., Qian, S.
ELSEVIER SCIENCE INC.2001: 229–29
- **Long-term survival after liver transplantation in 4,000 consecutive patients at a single center** *120th Annual Meeting of the American-Surgical-Association*
Jain, A., Reyes, J., Kashyap, R., Dodson, F., Demetris, A. J., Ruppert, K., Abu-Elmagd, K., Marsh, W., Madariaga, J., Mazariegos, G., Geller, D., Bonham, C. A., Gayowski, et al
LIPPINCOTT WILLIAMS & WILKINS.2000: 490–98
- **Lamivudine after hepatitis B immune globulin is effective in preventing hepatitis B recurrence after liver transplantation** *LIVER TRANSPLANTATION*
Dodson, S. F., de Vera, M. E., Bonham, C. A., Geller, D. A., Rakela, J., Fung, J. J.
2000; 6 (4): 434-439
- **Prolongation of cardiac allograft survival using dendritic cells treated with NF-kappa B decoy oligodeoxyribonucleotides** *MOLECULAR THERAPY*
Giannoukakis, N., Bonham, C. A., Qian, S. G., Zhou, Z. Y., Peng, L., Harnaha, J., Li, W., Thomson, A. W., Fung, J. J., Robbins, P. D., Lu, L.
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- **Is the pathologic TNM staging system for patients with hepatoma predictive of outcome?** *CANCER*
Marsh, J. W., Dvorchik, I., Bonham, C. A., Iwatsuki, S.
2000; 88 (3): 538-543
- **Prevention of de novo hepatitis B infection in recipients of hepatic allografts from anti-HBc positive donors** *TRANSPLANTATION*
Dodson, S. F., Bonham, C. A., Geller, D. A., Cacciarelli, T. V., Rakela, J., Fung, J. J.
1999; 68 (7): 1058-1061
- **Adenoviral delivery of CTLA4Ig into myeloid dendritic cells promotes their in vitro tolerogenicity and survival in allogeneic recipients** *GENE THERAPY*
Lu, L., Gambotto, A., Lee, W. C., Qian, S., Bonham, C. A., Robbins, P. D., Thomson, A. W.
1999; 6 (4): 554-563
- **Potential use of marginal donors for pancreas transplantation** *XVIIth World Congress of the Transplantation-Society*
Bonham, C. A., Kapur, S., Dodson, S. F., Dvorchik, I., Corry, R. J.
ELSEVIER SCIENCE INC.1999: 612–13
- **Excision and immediate revascularization for hepatic artery pseudoaneurysm following liver transplantation** *XVIIth World Congress of the Transplantation-Society*
Bonham, C. A., Kapur, S., Geller, D., Fung, J. J., Pinna, A.
ELSEVIER SCIENCE INC.1999: 443–43
- **Strategies to expand the donor pool for pancreas transplantation** *24th Annual Meeting of the American-Society-of-Transplant-Surgeons*
Kapur, S., Bonham, C. A., Dodson, S. F., Dvorchik, I., Corry, R. J.
LIPPINCOTT WILLIAMS & WILKINS.1999: 284–90
- **Central nervous system lesions in liver transplant recipients - Prospective assessment of indications for biopsy and implications for management** *17th Annual Meeting of the American-Society-of-Transplant-Physicians*
Bonham, C. A., Dominguez, E. A., Fukui, M. B., Paterson, D. L., Pankey, G. A., Wagener, M. M., Fung, J. J., Singh, N.
LIPPINCOTT WILLIAMS & WILKINS.1998: 1596–1604

- **Immunosuppressive agents: Recent developments in molecular action and clinical application** *International Congress on Immunosuppression*
Gerber, D. A., Bonham, C. A., Thomson, A. W.
ELSEVIER SCIENCE INC.1998: 1573–79
- **Surgical complications in 123 consecutive pancreas transplant recipients: Comparison of bladder and enteric drainage** *6th Congress of the International-Pancreas-and-Islet-Transplant-Association*
Sugitani, A., Gritsch, H. A., Shapiro, R., Bonham, C. A., Egidi, M. F., Corry, R. J.
ELSEVIER SCIENCE INC.1998: 293–94
- **Striking augmentation of hematopoietic cell chimerism in noncytoablated allogeneic bone marrow recipients by FLT3 ligand and tacrolimus** *TRANSPLANTATION*
Iyengar, A. R., Bonham, C. A., Antonysamy, M. A., Subbotin, V. M., Khanna, A., Murase, N., Rao, A. S., Starzl, T. E., Thomson, A. W.
1997; 63 (9): 1193-1199
- **Nitric oxide production by dendritic cells is associated with impairment of T cell responses** *XVI International Congress of the Transplantation-Society*
Bonham, C. A., Lu, L., Hoffman, R. A., SIMMONS, R. L., Thomson, A. W.
ELSEVIER SCIENCE INC.1997: 1116–17
- **Generation of nitric oxide by mouse dendritic cells and its implications for immune response regulation** *4th International Conference on Dendritic Cells in Fundamental and Clinical Immunology*
Bonham, C. A., Lu, L., Hoffman, R. A., SIMMONS, R. L., Thomson, A. W.
PLENUM PRESS DIV PLENUM PUBLISHING CORP.1997: 283–290
- **Nitric oxide production by mouse bone marrow-derived dendritic cells - Implications for the regulation of allogeneic T cell responses** *15th Annual Meeting of the American-Society-of-Transplant-Physicians*
Bonham, C. A., Lu, L., Li, Y. P., Hoffman, R. A., SIMMONS, R. L., Thomson, A. W.
WILLIAMS & WILKINS.1996: 1871–77
- **Induction of nitric oxide synthase in mouse dendritic cells by IFN-gamma, endotoxin, and interaction with allogeneic T cells - Nitric oxide production is associated with dendritic cell apoptosis** *JOURNAL OF IMMUNOLOGY*
Lu, L. N., Bonham, C. A., Chambers, F. G., Watkins, S. C., Hoffman, R. A., SIMMONS, R. L., Thomson, A. W.
1996; 157 (8): 3577-3586
- **TGF-beta 1 pretreatment impairs the allostimulatory function of human bone marrow-derived antigen-presenting cells for both naive and primed T cells.** *Transplant immunology*
Bonham, C. A., Lu, L., Banas, R. A., Fontes, P., Rao, A. S., Starzl, T. E., Zeevi, A., Thomson, A. W.
1996; 4 (3): 186-191
- **MODE OF ACTION OF TACROLIMUS (FK506) - MOLECULAR AND CELLULAR MECHANISMS** *International Consensus Conference on Immunosuppressive Drugs*
Thomson, A. W., Bonham, C. A., Zeevi, A.
LIPPINCOTT-RAVEN PUBL.1995: 584–91
- **ANTIINFLAMMATORY AGENTS IN ALLERGIC DISEASES** *CLINICAL AND EXPERIMENTAL IMMUNOLOGY*
Bonham, C. A., Thomson, A. W.
1995; 102 (1): 1-5
- **Inhibition of T lymphocyte activation and apoptotic cell death by cyclosporin A and tacrolimus (FK506) - Its relevance to therapy of HIV infection** *1st International Symposium on Cellular Approaches to the Control of HIV Disease*
Thomson, A. W., Bonham, C. A.
PLENUM PRESS DIV PLENUM PUBLISHING CORP.1995: 211–216