

Stanford



Marc L. Melcher

Associate Professor of Surgery (Abdominal Transplantation)

Surgery - Abdominal Transplantation

CLINICAL OFFICES

- **Multi Organ Transplant**

300 Pasteur Dr Rm A160

Boswell Clinic

Palo Alto, CA 94304

Tel (650) 498-5688

Fax (650) 498-5690

ACADEMIC CONTACT INFORMATION

- **Alternate Contact**

Terri Krause - Administrative Assistant

Email tkrause@stanfordmed.org

Tel 650-498-5688

Bio

CLINICAL FOCUS

- Liver Transplantation
- Kidney Transplantation
- Hepatobiliary
- General Surgery

ACADEMIC APPOINTMENTS

- Associate Professor - University Medical Line, Surgery - Abdominal Transplantation

ADMINISTRATIVE APPOINTMENTS

- Program Director, Stanford Abdominal Transplant Surgery Fellowship, (2019- present)
- Program Director, Stanford Surgery Residency, (2011-2019)
- Associate Program Director, Stanford Multi-Organ Transplant Fellowship, (2010-2019)
- Associate Program Director, Stanford Surgery Residency, (2006-2011)
- Administrative Chief Resident, Stanford Surgery Residency, (2003-2004)

HONORS AND AWARDS

- President, San Francisco Surgical Society (2019-20)
- John Austin Collins, Award for "academic mentorship, teaching, and dedication to resident training.", Stanford Surgery (2019)
- Stanford Medicine Program Director GME Award, Stanford Graduate Medical Education (2019)
- Vice-President, San Francisco Surgical Society (2016-17)
- Member, Society of University Surgeons (2015 -)
- Surgery Chiefs Award for leadership, mentorship, and dedication., Stanford Surgery (2013)
- Member, Pacific Coast Surgical Society (2012 -)

- Program Director, San Francisco Surgical Society (2010-11)
- Poster of Distinction, American Transplant Congress (2010)
- Member, San Francisco Surgical Society (2009-)
- Fellow, American College of Surgeons (2009 -)
- Member, Transplantation Society (2009 -)
- Member, Association for Academic Surgery (2007-)
- Member, American Society of Transplant Surgeons (2004-)
- Alpha Omega Alpha, Columbia Medical School (1999)
- Harvard College Scholarship, Harvard (1988)
- Thomas J. Watson Scholarship, IBM (1985-1989)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Board Member, National Kidney Registry (2015 - 2018)
- President, San Francisco Surgical Society (2019 - 2020)
- Chair, Curriculum Committee, American Society of Transplant Surgery (2016 - 2019)

PROFESSIONAL EDUCATION

- Fellowship: University of California San Francisco (2006) CA
- Residency: Stanford University General Surgery Residency (2004) CA
- Medical Education: Columbia University College of Physicians and Surgeons (1999) NY
- Board Certification: General Surgery, American Board of Surgery (2006)
- Fellowship, UC, San Francisco , Multi-organ Transplantation (2006)
- MD, Columbia University, P&S , Medicine (1999)
- PhD, Univ. of California, Berkeley , Molecular Biology (1995)
- BA, Harvard University , Biochemistry (1989)

COMMUNITY AND INTERNATIONAL WORK

- International Medicine, Guatemala

PATENTS

- Marc Melcher. "United States Patent 17075535 Quantification of Liver Steatosis from a biopsy using a Computer Imaging Platform", The Board of Trustees of the Leland Stanford Junior University, Apr 29, 2021

LINKS

- The Melcher Lab: <https://melcherlab.stanford.edu>
- Apps for Transplant Physicians: <http://transplanttools.com>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Broadly, I enjoy applying rigorous algorithms to the complex decision making processes in organ transplantation.

For example, I have studied ways to increase the impact of paired exchange kidney transplantation and ensure as many people as possible can benefit from it.

Currently, I am studying ways artificial intelligence can facilitate decision making in organ transplantation. There is potential to improve the assessment of donor organs, mortality risk, and outcomes prediction using innovations in AI.

CLINICAL TRIALS

- Combined Blood Stem Cell and Kidney Transplant of One Haplotype Match Living Donor Pairs., Recruiting
- Inducing Graft Tolerance in HLA Haplotype Matched Related and 3 Ag Matched Unrelated Living Donor Kidney Transplantation, Recruiting
- Comparative Renal Function of Young (18-45 Years) and Ageing (55 Years and Above) Kidney Donors, Not Recruiting
- Emollient Therapy for Severe Acute Malnutrition, Not Recruiting

PROJECTS

- AI facilitated assessment of donor liver histopathology - Stanford University

Publications

PUBLICATIONS

- **Availability of a Web and Smartphone Application to Stratify the Risk of Early Allograft Failure Requiring Liver Retransplantation** *HEPATOLOGY COMMUNICATIONS*
Avolio, A. W., Contegiacomo, A., Agnes, S., Marrone, G., Moschetta, G., Miele, L., Melcher, M. L.
2021
- **Predictors of Outcomes of Patients Referred to a Transplant Center for Urgent Liver Transplantation Evaluation.** *Hepatology communications*
Alshuwaykh, O. n., Kwong, A. n., Goel, A. n., Cheung, A. n., Dhanasekaran, R. n., Ahmed, A. n., Daugherty, T. n., Dronamraju, D. n., Kumari, R. n., Kim, W. R., Nguyen, M. H., Esquivel, C. O., Concepcion, et al
2021; 5 (3): 516–25
- **Artificial Intelligence for Prediction of Donor Liver Allograft Steatosis and Early Post-Transplantation Graft Failure**
Narayan, R., Abadilla, N., Yang, L., Chen, S., Higgins, J., Melcher, M.
WILEY.2021: 16–17
- **Pathologic Response to Pretransplant Locoregional Therapy is Predictive of Patient Outcome After Liver Transplantation for Hepatocellular Carcinoma Analysis From the US Multicenter HCC Transplant Consortium** *ANNALS OF SURGERY*
DiNocria, J., Florman, S. S., Haydel, B., Tabrizian, P., Ruiz, R. M., Klintmalm, G. B., Senguttuvan, S., Lee, D. D., Taner, C., Verna, E. C., Halazun, K. J., Hoteit, M., Levine, et al
2020; 271 (4): 616–24
- **Artificial Intelligence May Detect Donor Liver Steatosis and Predict Early Post-Transplantation Graft Failure**
Narayan, R. R., Yang, L., Abadilla, N., Chen, S. B., Higgins, J. P., Melcher, M. L.
WILEY.2020: 257
- **Improving Liver Transplant (LT) Waitlist Attrition**
Concepcion, W., Ahmed, A., Tulu, Z., Hogan, L., Bonham, A., Gallo, A., Melcher, M., Kwo, P., Esquivel, C.
WILEY.2020: 284–85
- **Center-level Variation in HLA-incompatible Living Donor Kidney Transplantation Outcomes.** *Transplantation*
Jackson, K. R., Long, J., Motter, J., Bowring, M. G., Chen, J., Waldram, M. M., Orandi, B. J., Montgomery, R. A., Stegall, M. D., Jordan, S. C., Benedetti, E., Dunn, T. B., Ratner, et al
2020
- **Influence of Student Loan Debt on General Surgery Resident Career and Lifestyle Decision-Making**
Gray, K., Kaji, A. H., Wolfe, M., Calhoun, K., Amersi, F., Donahue, T., Smith, B. R., Salcedo, E. S., Murayama, K., de Virgilio, C., Neville, A., Arnell, T., Jarman, et al
ELSEVIER SCIENCE INC.2020: 173–81
- **Post-Transplant Outcomes in Older Patients with Hepatocellular Carcinoma (HCC) are Driven by non-HCC Factors.** *Liver transplantation : official publication of the American Association for the Study of Liver Diseases and the International Liver Transplantation Society*
Adeniji, N. n., Arjunan, V. n., Prabhakar, V. n., Mannalithara, A. n., Ghaziani, T. n., Ahmed, A. n., Kwo, P. n., Nguyen, M. n., Melcher, M. L., Busuttill, R. W., Florman, S. S., Haydel, B. n., Ruiz, et al

2020

- **What Solid Organ Transplant Healthcare Providers should know about Renin-Angiotensin-Aldosterone System Inhibitors and COVID-19.** *Clinical transplantation*
Wong, S. Y., Brubaker, A. L., Wang, A. X., Taiwo, A. A., Melcher, M. L.
2020: e13991
- **Understanding Health Care Utilization and Mortality After Emergency General Surgery in Patients With Underlying Liver Disease.** *The American surgeon*
Tennakoon, L. n., Baiu, I. n., Concepcion, W. n., Melcher, M. L., Spain, D. A., Knowlton, L. M.
2020; 86 (6): 665–74
- **NuSeT: A deep learning tool for reliably separating and analyzing crowded cells** *PLoS Computational Biology*
Yang, L., et al
2020
- **Underrepresented Minorities in General Surgery Residency: Analysis of Interviewed Applicants, Residents, and Core Teaching Faculty.** *Journal of the American College of Surgeons*
Jarman, B. T., Borgert, A. J., Kallies, K. J., Joshi, A. R., Smink, D. S., Sarosi, G. A., Chang, L. n., Green, J. M., Greenberg, J. A., Melcher, M. L., Nfonsam, V. n., Whiting, J. n.
2020
- **Liver Transplantation Outcomes in a U.S. Multicenter Cohort of 789 Patients with Hepatocellular Carcinoma Presenting Beyond Milan Criteria.** *Hepatology (Baltimore, Md.)*
Kardashian, A. n., Florman, S. S., Haydel, B. n., Ruiz, R. M., Klintmalm, G. B., Lee, D. D., Taner, C. B., Aucejo, F. n., Tevar, A. D., Humar, A. n., Verna, E. C., Halazun, K. J., Chapman, et al
2020
- **Delayed Graft Function and Acute Rejection Following HLA-Incompatible Living Donor Kidney Transplantation.** *American journal of transplantation : official journal of the American Society of Transplantation and the American Society of Transplant Surgeons*
Motter, J. D., Jackson, K. R., Long, J. J., Waldram, M. M., Orandi, B. J., Montgomery, R. A., Stegall, M. D., Jordan, S. C., Benedetti, E. n., Dunn, T. B., Ratner, L. E., Kapur, S. n., Pelletier, et al
2020
- **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
- **Quantification of Donor Liver Steatosis Using an Unsupervised Artificial Intelligence Platform**
Narayan, R., Abadilla, N., Yang, L., Hsu, C., Jensen, C., Chen, S. B., Higgins, J. P., Melcher, M. L.
ELSEVIER SCIENCE INC.2019: E151
- **Health Care Utilization and Mortality after Emergency General Surgery in Patients with Underlying Liver Disease: A National Perspective**
Tennakoon, L., Concepcion, W., Melcher, M. L., Spain, D. A., Knowlton, L. M.
ELSEVIER SCIENCE INC.2019: E139
- **Matching Kidneys with Priority in Kidney Exchange Programs.** *Medical decision making : an international journal of the Society for Medical Decision Making*
Liu, W., Melcher, M. L.
2019: 272989X19849457
- **Liver transplantation for hepatitis C virus (HCV) non-viremic recipients with HCV viremic donors** *AMERICAN JOURNAL OF TRANSPLANTATION*
Kwong, A. J., Wall, A., Melcher, M., Wang, U., Ahmed, A., Subramanian, A., Kwo, P. Y.
2019; 19 (5): 1380–87
- **Benefits of an interview match for breast fellowship positions**
Wapnir, I., Lo, I., Roth, A., Ashlagi, I., Melcher, M.
SPRINGER.2019: 279–80
- **Using Liver Transplant (LT) Data And Analytics to Improve Program Clinical and Financial Performance.**
Bonham, A., Tulu, Z., Concepcion, W., Gallo, A., Melcher, M., Kwo, P., Ahmed, A., Esquivel, C.

WILEY.2019: 583–84

- **Increasing the Number of Liver Transplants through Active Review of Offers Turned Down.**
Melcher, M. L., Bonham, C. A., Gallo, A., Concepcion, W., Jacobson, I., Esquivel, C. O.
WILEY.2019: 995–96
- **Reducing the Burden of Fellowship Interviews Reply** *JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION*
Melcher, M. L., Ashlagi, I., Wapnir, I.
2019; 321 (11): 1107
- **Living Kidney Donation: Strategies to Increase the Donor Pool.** *The Surgical clinics of North America*
Lee, L., Pham, T. A., Melcher, M. L.
2019; 99 (1): 37–47
- **Underrepresented Minorities are Underrepresented Among General Surgery Applicants Selected to Interview.** *Journal of surgical education*
Jarman, B. T., Kallies, K. J., Joshi, A. R., Smink, D. S., Sarosi, G. A., Chang, L. n., Green, J. M., Greenberg, J. A., Melcher, M. L., Nfonsam, V. n., Ramirez, L. D., Borgert, A. J., Whiting, et al
2019
- **Career Goals, Salary Expectations, and Salary Negotiation Among Male and Female General Surgery Residents.** *JAMA surgery*
Gray, K. n., Neville, A. n., Kaji, A. H., Wolfe, M. n., Calhoun, K. n., Amersi, F. n., Donahue, T. n., Arnell, T. n., Jarman, B. n., Inaba, K. n., Melcher, M. n., Morris, J. B., Smith, et al
2019
- **Factors associated with general surgery residents' decisions regarding fellowship and subspecialty stratified by burnout and quality of life.** *American journal of surgery*
McClintock, N. C., Gray, K. E., Neville, A. L., Kaji, A. H., Wolfe, M. M., Calhoun, K. E., Amersi, F. F., Donahue, T. R., Arnell, T. D., Jarman, B. T., Inaba, K. n., Melcher, M. L., Morris, et al
2019
- **Predicting skin cancer in organ transplant recipients: Development of the SUNTRAC screening tool using data from a multi-center cohort study.** *Transplant international : official journal of the European Society for Organ Transplantation*
Jambusaria-Pahlajani, A. n., Crow, L. D., Lowenstein, S. n., Garrett, G. L., Melcher, M. L., Chan, A. W., Boscardin, J. n., Arron, S. T.
2019
- **Microvascular Free Flaps as the Vascularized Foundation for Hepatic Tissue Engineering**
Than, P., Davis, C., Rustad, K., Mittermiller, P., Findlay, M., Liu, W., Whittam, A., Le, T., Khong, S., Ma, K., Melcher, M., Melcher, M., Gurtner, et al
WILEY.2019: 21
- **Pathologic Response to Pretransplant Locoregional Therapy is Predictive of Patient Outcome After Liver Transplantation for Hepatocellular Carcinoma: Analysis From the US Multicenter HCC Transplant Consortium.** *Annals of surgery*
DiNordia, J. n., Florman, S. S., Haydel, B. n., Tabrizian, P. n., Ruiz, R. M., Klintmalm, G. B., Senguttuvan, S. n., Lee, D. D., Taner, C. B., Verna, E. C., Halazun, K. J., Hoteit, M. n., Levine, et al
2019
- **Preparation for the Diversity of 21st Century Surgical Leadership Opportunities Demands Diverse Opportunities for "Professional Development"** *ANNALS OF SURGERY*
Melcher, M. L., Greco, R. S., Krummel, T. M., Morris, A. M., Hawn, M. T.
2018; 268 (6): E52–E53
- **Liver Transplantation for HCV Non-Viremic Recipients with HCV Viremic Donors.** *American journal of transplantation : official journal of the American Society of Transplantation and the American Society of Transplant Surgeons*
Kwong, A. J., Wall, A., Melcher, M., Wang, U., Ahmed, A., Subramanian, A., Kwo, P. Y.
2018
- **Matching for Fellowship Interviews** *JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION*
Melcher, M. L., Ashlagi, I., Wapnir, I.
2018; 320 (16): 1639–40
- **Pragmatic Surgical Risk Assessment Criteria in Critically Ill Patients Prior to Liver Transplantation.**
Bonham, C., Tulu, Z., Melcher, M., Kwo, P., Concepcion, W., Ahmed, A., Esquivel, C.

WILEY.2018: 849–50

- **Antiviral Therapy for Donor-Derived Hepatitis C Virus Infection after Solid Organ Transplantation.**
Kwong, A., Wall, A., Melcher, M., Wang, U., Ahmed, A., Khush, K., Subramanian, A., Tan, J., Kwo, P.
WILEY.2018: 464
- **Structured Reporting of Multiphase CT for Hepatocellular Carcinoma: Effect on Staging and Suitability for Transplant.** *AJR. American journal of roentgenology*
Poullou, P. D., Tseng, J. J., Melcher, M. L., Concepcion, W. n., Loening, A. M., Rosenberg, J. n., Willmann, J. K.
2018: 1–9
- **Socioeconomic Status in Non-directed and Voucher-based Living Kidney Donation.** *European urology focus*
Nassiri, N., Baskin, A. S., Herbert, L. K., Connor, S., Pham, T., Melcher, M. L., Sinacore, J., Veale, J. L.
2018; 4 (2): 185–89
- **Matching for Fellowship Interviews.** *JAMA*
Melcher, M. L., Ashlagi, I. n., Wapnir, I. n.
2018; 320 (16): 1639–40
- **A Multicenter Prospective Comparison of the Accreditation Council for Graduate Medical Education Milestones: Clinical Competency Committee vs. Resident Self-Assessment.** *Journal of surgical education*
Watson, R. S., Borgert, A. J., O Heron, C. T., Kallies, K. J., Sidwell, R. A., Mellinger, J. D., Joshi, A. R., Galante, J. M., Chambers, L. W., Morris, J. B., Josloff, R. K., Melcher, M. L., Fuhrman, et al
2017; 74 (6): e8–e14
- **Preparation for the Diversity of 21st Century Surgical Leadership Opportunities Demands Diverse Opportunities for "Professional Development".** *Annals of surgery*
Melcher, M. L., Greco, R. S., Krummel, T. M., Morris, A. M., Hawn, M. T.
2017
- **Recurrence-Free Survival in Liver Transplant Recipients with Non-Alcoholic Fatty Liver Disease-Related Hepatocellular Carcinoma: Results from the US Multicenter HCC Transplant Consortium**
Verna, E. C., Abdelmessih, R. M., Florman, S. S., Haydel, B. M., Ruiz, R., Klintmalm, G., Lee, D. D., Taner, B., Hoteit, M. A., Halazun, K. J., Tevar, A. D., Humar, A., Chapman, et al
WILEY.2017: 900A–901A
- **Evaluating the Impact of Blinded vs Non-Blinded Interviews on the General Surgery Resident Selection Process**
Shipper, E. S., Forrester, J., Lau, J. N., Melcher, M. L.
ELSEVIER SCIENCE INC.2017: S174–S175
- **Advanced Donation Programs and Deceased Donor Initiated Chains - 2 Innovations in Kidney Paired Donation.** *Transplantation*
Wall, A. E., Veale, J. L., Melcher, M. L.
2017
- **A multi-institution analysis of general surgery resident peer-reviewed publication trends** *JOURNAL OF SURGICAL RESEARCH*
Forrester, J. D., Ansari, P., Are, C., Auyang, E., Galante, J. M., Jarman, B. T., Smith, B. R., Watkins, A. C., Melcher, M. L.
2017; 210: 92-98
- **The incremental cost of Incompatible Living Donor Kidney Transplant: A National Cohort Analysis.** *American journal of transplantation : official journal of the American Society of Transplantation and the American Society of Transplant Surgeons*
Axelrod, D. n., Lentine, K. L., Schnitzler, M. A., Luo, X. n., Xiao, H. n., Orandi, B. J., Massie, A. n., Garonzik-Wang, J. n., Stegall, M. D., Jordan, S. C., Oberholzer, J. n., Dunn, T. B., Ratner, et al
2017
- **Pilot evaluation of the Computer-Based Assessment for Sampling Personal Characteristics test.** *The Journal of surgical research*
Shipper, E. S., Mazer, L. M., Merrell, S. B., Lin, D. T., Lau, J. N., Melcher, M. L.
2017; 215: 211–18
- **Association of General Surgery Resident Remediation and Program Director Attitudes With Resident Attrition.** *JAMA surgery*
Schwed, A. C., Lee, S. L., Salcedo, E. S., Reeves, M. E., Inaba, K. n., Sidwell, R. A., Amersi, F. n., Are, C. n., Arnell, T. D., Damewood, R. B., Dent, D. L., Donahue, T. n., Gauvin, et al

2017

- **Impact of Pretransplant Bridging Locoregional Therapy for Patients With Hepatocellular Carcinoma Within Milan Criteria Undergoing Liver Transplantation: Analysis of 3601 Patients from the US Multicenter HCC Transplant Consortium.** *Annals of surgery*
Agopian, V. G., Harlander-Locke, M. P., Ruiz, R. M., Klintmalm, G. B., Senguttuvan, S. n., Florman, S. S., Haydel, B. n., Hoteit, M. n., Levine, M. H., Lee, D. D., Taner, C. B., Verna, E. C., Halazun, et al
2017
- **Hospital readmissions following HLA-incompatible live donor kidney transplantation: A multi-center study.** *American journal of transplantation : official journal of the American Society of Transplantation and the American Society of Transplant Surgeons*
Orandi, B. J., Luo, X. n., King, E. A., Garonzik-Wang, J. M., Bae, S. n., Montgomery, R. A., Stegall, M. D., Jordan, S. C., Oberholzer, J. n., Dunn, T. B., Ratner, L. E., Kapur, S. n., Pelletier, et al
2017
- **Effect of match-run frequencies on the number of transplants and waiting times in kidney exchange.** *American journal of transplantation : official journal of the American Society of Transplantation and the American Society of Transplant Surgeons*
Ashlagi, I. n., Bingaman, A. n., Burq, M. n., Manshadi, V. n., Gamarnik, D. n., Murphey, C. n., Roth, A. E., Melcher, M. L., Rees, M. A.
2017
- **Shipping Living Donor Kidneys and Transplant Recipient Outcomes.** *American journal of transplantation : official journal of the American Society of Transplantation and the American Society of Transplant Surgeons*
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Pham, T. A., Lee, J. I., Melcher, M. L.
2017; 31 (1): 29-34
- **HLA Matching Trumps Donor Age: Donor-Recipient Pairing Characteristics That Impact Long-Term Success in Living Donor Kidney Transplantation in the Era of Paired Kidney Exchange.** *Transplantation direct*
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- **NEAD Chains Do Not Disadvantage Blood Type O, Black, or Highly Sensitized Patients**
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- **Prehabilitation in our most frail surgical patients: are wearable fitness devices the next frontier?** *Current opinion in organ transplantation*
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- **Survival Benefit with Kidney Transplants from HLA-Incompatible Live Donors** *NEW ENGLAND JOURNAL OF MEDICINE*
Orandi, B. J., Luo, X., Massie, A. B., Garonzik-Wang, J. M., Lonze, B. E., Ahmed, R., Van Arendonk, K. J., Stegall, M. D., Jordan, S. C., Oberholzer, J., Dunn, T. B., Ratner, L. E., Kapur, et al
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2016
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Melcher, M. L.
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2015; 72 (6): e236-42
- **Reading Habits of General Surgery Residents and Association With American Board of Surgery In-Training Examination Performance** *JAMA SURGERY*
Kim, J. J., Kim, D. Y., Kaji, A. H., Gifford, E. D., Reid, C., Sidwell, R. A., Reeves, M. E., Hartranft, T. H., Inaba, K., Jarman, B. T., Are, C., Galante, J. M., Amersi, et al
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2015; 99 (7): 1410-1415
- **Inside Out Autologous Neo-Liver Fabrication**
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- **Paired Match Power and Challenges for O-Patients in Kidney Paired Donation**
Liu, W., Melcher, M.
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- **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
- **Is Informed Consent Enough?** *American journal of transplantation : official journal of the American Society of Transplantation and the American Society of Transplant Surgeons*
Liu, W. n., Krawiec, K. D., Melcher, M. L.
2015
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Kim, J. J., Kim, D. Y., Kaji, A. H., Gifford, E. D., Reid, C. n., Sidwell, R. A., Reeves, M. E., Hartranft, T. H., Inaba, K. n., Jarman, B. T., Are, C. n., Galante, J. M., Amersi, et al
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