

Stanford



John Higgins

Professor of Pathology

CLINICAL OFFICES

- **Department of Pathology**

300 Pasteur Dr Rm H2110

MC 5324

Stanford, CA 94305

Tel (650) 723-7211 **Fax** (650) 725-7409

- **Valley Care Dept Of Pathology**

5555 W Las Positas Blvd

Pleasanton, CA 94588

Tel (925) 416-3404 **Fax** (925) 416-6593

Bio

BIO

Dr. Higgins is a surgical pathologist with a subspecialty focus in renal pathology, hepatopathology and gastrointestinal pathology. In each of these areas he also focuses on transplant pathology.

CLINICAL FOCUS

- Liver pathology
- GI pathology
- Renal Pathology
- transplant pathology
- Pathology and Laboratory Medicine
- Anatomic Pathology

ACADEMIC APPOINTMENTS

- Professor - University Medical Line, Pathology
- Member, Bio-X

PROFESSIONAL EDUCATION

- Board Certification: Anatomic Pathology, American Board of Pathology (1998)
- Medical Education: Stanford University School of Medicine (1994) CA
- Fellowship: Stanford University Pathology Fellowships (1999) CA

- Residency: Stanford University Pathology Residency (1998) CA
- Internship: Santa Clara Valley Medical Center Internal Medicine Residency (1995) CA
- Board Certification: Pathology, American Board of Pathology (2014)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

I work as a diagnostic surgical pathologist doing translational research in renal neoplasia and medical renal disease and neoplastic and medical liver disease. Subspecialty areas of clinical interest include diagnostic immunohistochemistry, renal, hepatic and transplant pathology.

Teaching

COURSES

2021-22

- Clinical Studies in Pathology I: PATH 240 (Aut, Win, Sum)
- Clinical Studies in Pathology II: PATH 241 (Aut, Win, Sum)

2020-21

- Clinical Studies in Pathology I: PATH 240 (Win)
- Clinical Studies in Pathology II: PATH 241 (Win)

2019-20

- Clinical Studies in Pathology I: PATH 240 (Aut, Win, Spr, Sum)
- Clinical Studies in Pathology II: PATH 241 (Aut, Win, Spr, Sum)

2018-19

- Clinical Studies in Pathology I: PATH 240 (Aut, Win, Spr, Sum)
- Clinical Studies in Pathology II: PATH 241 (Aut, Win, Spr, Sum)

Publications

PUBLICATIONS

- **Abatacept in Steroid-Dependent Minimal Change Disease and CD80-uria.** *Kidney international reports*
Isom, R., Shoor, S., Higgins, J., Cara-Fuentes, G., Johnson, R. J.
2019; 4 (9): 1349–53
- **Molecular Characterization of Metanephric Adenomas Beyond BRAF: Are All Benign?**
Chan, E., Stohr, B., Croom, N., Cho, S., Garg, K., Troxell, M., Higgins, J., Bean, G.
NATURE PUBLISHING GROUP.2019
- **Molecular Characterization of Metanephric Adenomas Beyond BRAF: Are All Benign?**
Chan, E., Stohr, B., Croom, N., Cho, S., Garg, K., Troxell, M., Higgins, J., Bean, G.
NATURE PUBLISHING GROUP.2019
- **A Case Report of Pediatric Clear Cell Carcinoma of the Urinary Bladder Associated With Polyomavirus** *AJSP-REVIEWS AND REPORTS*
Saleem, A., Brown, R. A., Higgins, J. T., Troxell, M. L., Kunder, C. A., Pinsky, B. A., Zambrano, E., Kao, C.
2018; 23 (6): 291–95
- **IgA-dominant glomerulonephritis with a membranoproliferative pattern of injury.** *Human pathology*
Andeen, N. K., Jefferson, J. A., Akilesh, S., Alpers, C. E., Bissonnette, M. L., Finn, L. S., Higgins, J., Houghton, D. C., Kambham, N., Magil, A., Najafian, B., Nicosia, R. F., Troxell, et al
2018; 81: 272–80

- **Thrombotic microangiopathy with intraglomerular IgM pseudothrombi in Waldenstrom macroglobulinemia and IgM monoclonal gammopathy.** *Journal of nephrology*
Tan, S. Y., Sibley, R. K., Belani, S., Iwasaki, S., Yankulin, L., Jonelis, T., Higgins, J. P., Kambham, N., Troxell, M. L.
2018
- **Adrenal Myelolipomas Involved by Plasma Cell Myeloma.** *American journal of clinical pathology*
Lin, C., Levy, D., Higgins, J. P., Kunder, C. A., Kao, C.
2018
- **Thrombotic Microangiopathy with Intraglomerular Monoclonal IgM Pseudothrombi**
Tan, S., Sibley, R., Higgins, J., Kambham, N., Troxell, M.
NATURE PUBLISHING GROUP.2018: 618
- **What's Hiding In Your Hemorrhoids? A Review of 1,015 Hemorrhoids**
Levy, D. R., Higgins, J., Louie, C. Y.
NATURE PUBLISHING GROUP.2018: 280
- **Correspondence.** *American journal of clinical pathology*
Schaberg, K. B., Higgins, J. P., Kambham, N., Sibley, R. K., Troxell, M. L.
2017; 148 (5): 460-462
- **Adenovirus Hepatitis Clinicopathologic Analysis of 12 Consecutive Cases From a Single Institution** *AMERICAN JOURNAL OF SURGICAL PATHOLOGY*
Schaberg, K. B., Kambham, N., Sibley, R. K., Higgins, J. P.
2017; 41 (6): 810-819
- **Crescentic Glomerulonephritis With Immunoglobulin G4-Related Disease.** *The American journal of the medical sciences*
Raber, I. n., Ediriwickrema, A. n., Higgins, J. n., Kambham, N. n., Pao, A. C.
2017; 354 (3): 236-39
- **Renal cell carcinoma in kidney allografts: histologic types, including biphasic papillary carcinoma.** *Human pathology*
Troxell, M. L., Higgins, J. P.
2016; 57: 28-36
- **Antineoplastic Treatment and Renal Injury: An Update on Renal Pathology Due to Cytotoxic and Targeted Therapies.** *Advances in anatomic pathology*
Troxell, M. L., Higgins, J. P., Kambham, N.
2016; 23 (5): 310-329
- **Clinicopathologic Threshold of Acute Colorectal Graft-versus-Host Disease** *ARCHIVES OF PATHOLOGY & LABORATORY MEDICINE*
Gomez, A. J., Arai, S., Higgins, J. P., Kambham, N.
2016; 140 (6): 570-577
- **Eosinophilic, Solid, and Cystic Renal Cell Carcinoma Clinicopathologic Study of 16 Unique, Sporadic Neoplasms Occurring in Women** *AMERICAN JOURNAL OF SURGICAL PATHOLOGY*
Trpkov, K., Hes, O., Bonert, M., Lopez, J. I., Bonsib, S. M., Nesi, G., Comperat, E., Sibony, M., Berney, D. M., Martinek, P., Bulimbasic, S., Suster, S., Sangoi, et al
2016; 40 (1): 60-71
- **A New Standard of Care? Standard Dose Sofosbuvir in an HCV-Infected Liver Transplant Recipient Undergoing Hemodialysis.** *Digestive diseases and sciences*
Perumpail, R. B., Wong, R. J., Pham, E. A., Higgins, J. P., Daugherty, T. J., Ahmed, A.
2016; 61 (1): 39-41
- **Tuberous sclerosis complex: Hamartin and tuberlin expression in renal cysts and its discordant expression in renal neoplasms** *PATHOLOGY RESEARCH AND PRACTICE*
Bonsib, S. M., Boils, C., Gokden, N., Grignon, D., Gu, X., Higgins, J. P., Leroy, X., McKenney, J. K., Nasr, S. H., Phillips, C., Sangoi, A. R., Wilson, J., Zhang, et al
2016; 212 (11): 972-979
- **The Inflammatory Transcription Factors NF kappa B, STAT1 and STAT3 Drive Age-Associated Transcriptional Changes in the Human Kidney** *PLOS GENETICS*
O'Brown, Z. K., Van Nostrand, E. L., Higgins, J. P., Kim, S. K.

2015; 11 (12)

- **The Inflammatory Transcription Factors NF#B, STAT1 and STAT3 Drive Age-Associated Transcriptional Changes in the Human Kidney.** *PLoS genetics*
O'Brown, Z. K., Van Nostrand, E. L., Higgins, J. P., Kim, S. K.
2015; 11 (12): e1005734
- **Primary Gastric Hodgkin's Lymphoma: An Extremely Rare Entity and A Diagnostic Challenge.** *Digestive diseases and sciences*
Sethi, S., Higgins, J. P., Arber, D. A., Visser, B., Banerjee, S.
2015; 60 (10): 2923-2926
- **Fatal Accelerated Cirrhosis after Imported HEV Genotype 4 Infection** *EMERGING INFECTIOUS DISEASES*
Perumpail, R. B., Ahmed, A., Higgins, J. P., So, S. K., Cochran, J. L., Drobeniuc, J., Mixson-Hayden, T. R., Teo, C.
2015; 21 (9): 1679-1681
- **The liver in heart failure: a biopsy and explant series of the histopathologic and laboratory findings with a particular focus on pre-cardiac transplant evaluation.** *Modern pathology*
Louie, C. Y., Pham, M. X., Daugherty, T. J., Kambham, N., Higgins, J. P.
2015; 28 (7): 932-943
- **Acute Liver Failure: A Potential Complication of Antithyroid Medication Use.** *Digestive diseases and sciences*
Chou, C., Wong, R. J., Higgins, J. P., Perumpail, R. B., Ahmed, A.
2015; 60 (7): 1924-1927
- **Androgen receptor immunohistochemistry in genitourinary neoplasms** *INTERNATIONAL UROLOGY AND NEPHROLOGY*
Williams, E. M., Higgins, J. P., Sangoi, A. R., McKenney, J. K., Troxell, M. L.
2015; 47 (1): 81-85
- **Tuberous Sclerosis-associated Renal Cell Carcinoma A Clinicopathologic Study of 57 Separate Carcinomas in 18 Patients** *AMERICAN JOURNAL OF SURGICAL PATHOLOGY*
Guo, J., Tretiakova, M. S., Troxell, M. L., Osunkoya, A. O., Fadare, O., Sangoi, A. R., Shen, S. S., Lopez-Beltran, A., Mehra, R., Heider, A., Higgins, J. P., Harik, L. R., Leroy, et al
2014; 38 (11): 1457-1467
- **Abnormal Hepatocellular Mitochondria in Methylmalonic Acidemia** *ULTRASTRUCTURAL PATHOLOGY*
Wilnai, Y., Enns, G. M., Niemi, A., Higgins, J., Vogel, H.
2014; 38 (5): 309-314
- **Abnormal hepatocellular mitochondria in methylmalonic acidemia.** *Ultrastructural pathology*
Wilnai, Y., Enns, G. M., Niemi, A., Higgins, J., Vogel, H.
2014; 38 (5): 309-314
- **Renal pathology associated with hematopoietic stem cell transplantation.** *Advances in anatomic pathology*
Troxell, M. L., Higgins, J. P., Kambham, N.
2014; 21 (5): 330-340
- **Hematopoietic stem cell transplantation: graft versus host disease and pathology of gastrointestinal tract, liver, and lung.** *Advances in anatomic pathology*
Kambham, N., Higgins, J. P., Sundram, U., Troxell, M. L.
2014; 21 (5): 301-320
- **Identification and Characterization of 2 Testicular Germ Cell Markers, Glut3 and CyclinA2** *APPLIED IMMUNOHISTOCHEMISTRY & MOLECULAR MORPHOLOGY*
Howitt, B. E., Brooks, J. D., Jones, S., Higgins, J. P.
2013; 21 (5): 401-407
- **Multiple hepatic adenomas in a child with microvillus inclusion disease.** *Digestive diseases and sciences*
Burgis, J. C., Pratt, C. A., Higgins, J. P., Kerner, J. A.
2013; 58 (10): 2784-2788
- **Evaluation of SF-1 Expression in Testicular Germ Cell Tumors: A Tissue Microarray Study of 127 Cases.** *Applied immunohistochemistry & molecular morphology*
Sangoi, A. R., McKenney, J. K., Brooks, J. D., Higgins, J. P.

2013; 21 (4): 318-321

- **FXR agonist INT-747 upregulates DDAH expression and enhances insulin sensitivity in high-salt fed Dahl rats.** *PloS one*
Ghebremariam, Y. T., Yamada, K., Lee, J. C., Johnson, C. L., Atzler, D., Anderssohn, M., Agrawal, R., Higgins, J. P., Patterson, A. J., Böger, R. H., Cooke, J. P.
2013; 8 (4)
- **Integrative bioinformatics links HNF1B with clear cell carcinoma and tumor-associated thrombosis.** *PloS one*
Cuff, J., Salari, K., Clarke, N., Esheba, G. E., Forster, A. D., Huang, S., West, R. B., Higgins, J. P., Longacre, T. A., Pollack, J. R.
2013; 8 (9)
- **FXR agonist INT-747 upregulates DDAH expression and enhances insulin sensitivity in high-salt fed Dahl rats.** *PloS one*
Ghebremariam, Y. T., Yamada, K., Lee, J. C., Johnson, C. L., Atzler, D., Anderssohn, M., Agrawal, R., Higgins, J. P., Patterson, A. J., Böger, R. H., Cooke, J. P.
2013; 8 (4): e60653
- **Integrative Bioinformatics Links HNF1B with Clear Cell Carcinoma and Tumor-Associated Thrombosis.** *PloS one*
Cuff, J., Salari, K., Clarke, N., Esheba, G. E., Forster, A. D., Huang, S., West, R. B., Higgins, J. P., Longacre, T. A., Pollack, J. R.
2013; 8 (9)
- **Fibronectin Glomerulopathy: An Unusual Cause of Adult-Onset Nephrotic Syndrome** *AMERICAN JOURNAL OF KIDNEY DISEASES*
Nadamuni, M., Piras, R., Mazbar, S., Higgins, J. P., Kambham, N.
2012; 60 (5): 839-842
- **Evaluation of Putative Renal Cell Carcinoma Markers PAX-2, PAX-8, and hKIM-1 in Germ Cell Tumors: A Tissue Microarray Study of 100 Cases** *APPLIED IMMUNOHISTOCHEMISTRY & MOLECULAR MORPHOLOGY*
Sangoi, A. R., McKenney, J. K., Brooks, J. D., Bonventre, J. V., Higgins, J. P.
2012; 20 (5): 451-453
- **Statistical Analysis of Surgical Pathology Data Using the R Program** *ADVANCES IN ANATOMIC PATHOLOGY*
Cuff, J., Higgins, J. P.
2012; 19 (3): 131-139
- **Deficiency in Mammalian Histone H2B Ubiquitin Ligase Bre1 (Rnf20/Rnf40) Leads to Replication Stress and Chromosomal Instability** *CANCER RESEARCH*
Chernikova, S. B., Razorenova, O. V., Higgins, J. P., Sishc, B. J., Nicolau, M., Dorth, J. A., Chernikova, D. A., Kwok, S., Brooks, J. D., Bailey, S. M., Game, J. C., Brown, J. M.
2012; 72 (8): 2111-2119
- **A Tri-Marker Proliferation Index Predicts Biochemical Recurrence after Surgery for Prostate Cancer** *PLOS ONE*
Malhotra, S., Lapointe, J., Salari, K., Higgins, J. P., Ferrari, M., Montgomery, K., van de Rijn, M., Brooks, J. D., Pollack, J. R.
2011; 6 (5)
- **Immunohistochemical Distinction of Primary Adrenal Cortical Lesions From Metastatic Clear Cell Renal Cell Carcinoma: A Study of 248 Cases** *AMERICAN JOURNAL OF SURGICAL PATHOLOGY*
Sangoi, A. R., Fujiwara, M., West, R. B., Montgomery, K. D., Bonventre, J. V., Higgins, J. P., Rouse, R. V., Gokden, N., McKenney, J. K.
2011; 35 (5): 678-686
- **Specificity of brachyury in the distinction of chordoma from clear cell renal cell carcinoma and germ cell tumors: a study of 305 cases** *MODERN PATHOLOGY*
Sangoi, A. R., Karamchandani, J., Lane, B., Higgins, J. P., Rouse, R. V., Brooks, J. D., McKenney, J. K.
2011; 24 (3): 425-429
- **Clq-Fixing Human Leukocyte Antigen Antibodies Are Specific for Predicting Transplant Glomerulopathy and Late Graft Failure After Kidney Transplantation** *TRANSPLANTATION*
Yabu, J. M., Higgins, J. P., Chen, G., Sequeira, F., Busque, S., Tyau, D. B.
2011; 91 (3): 342-347
- **Identification and Characterization of Two Novel Testicular Germ Cell Markers, Glut3 and cyclinA2.** *100th Annual Meeting United States-and-Canadian-Academy-of-Pathology*
Lane, B. E., Jones, S. B., Brooks, J. D., Higgins, J.
NATURE PUBLISHING GROUP.2011: 205A–205A

- **Identification and Characterization of Two Novel Testicular Germ Cell Markers, Glut3 and cyclinA2** *100th Annual Meeting of the United-States-and-Canadian-Academy-of-Pathology*
Lane, B. E., Jones, S. B., Brooks, J. D., Higgins, J.
NATURE PUBLISHING GROUP.2011: 205A–205A
- **Toll-Like Receptor 4 Contributes to Small Intestine Allograft Rejection** *TRANSPLANTATION*
Krams, S. M., Wang, M., Castillo, R. O., Ito, T., Phillips, L., Higgins, J., Kambham, N., Esquivel, C. O., Martinez, O. M.
2010; 90 (12): 1272-1277
- **Ribonucleotide reductase subunit M1 expression in resectable, muscle-invasive urothelial cancer correlates with survival in younger patients** *BJU INTERNATIONAL*
Harshman, L. C., Bepler, G., Zheng, Z., Higgins, J. P., Allen, G. I., Srinivas, S.
2010; 106 (11): 1805-1811
- **Acute Rejection of Small Intestine Allografts Is Associated With Increased Expression of Toll-like Receptors** *TRANSPLANTATION PROCEEDINGS*
Castillo, R. O., Wang, M., Ito, T., Higgins, J., Esquivel, C. O., Krams, S. M., Martinez, O. M.
2010; 42 (7): 2676-2678
- **A 30-month-old Child With Acute Renal Failure Due to Primary Renal Cytotoxic T-cell Lymphoma** *AMERICAN JOURNAL OF SURGICAL PATHOLOGY*
Paladugu, S., Garro, R., Schrijver, I., Kambham, N., Higgins, J. P.
2010; 34 (7): 1066-1070
- **Treatment with a Toll-like receptor inhibitory GpG oligonucleotide delays and attenuates lupus nephritis in NZB/W mice** *AUTOIMMUNITY*
Graham, K. L., Lee, L. Y., Higgins, J. P., Steinman, L., Utz, P. J., Ho, P. P.
2010; 43 (2): 140-155
- **Liver Abscesses, Pylephlebitis, and Appendicitis in an Adolescent Male** *DIGESTIVE DISEASES AND SCIENCES*
Patel, A. J., Ong, P. V., Higgins, J. P., Kerner, J. A.
2009; 54 (12): 2546-2548
- **Microtubule-associated Protein-2 is a Sensitive Marker of Primary and Metastatic Neuroblastoma** *AMERICAN JOURNAL OF SURGICAL PATHOLOGY*
Krishnan, C., Higgins, J. P., West, R. B., Natkunam, Y., Heerema-McKenney, A., Arber, D. A.
2009; 33 (11): 1695-1704
- **Sequential Use of Transcriptional Profiling, Expression Quantitative Trait Mapping, and Gene Association Implicates MMP20 in Human Kidney Aging** *PLOS GENETICS*
Wheeler, H. E., Metter, E. J., Tanaka, T., Absher, D., Higgins, J., Zahn, J. M., Wilhelmy, J., Davis, R. W., Singleton, A., Myers, R. M., Ferrucci, L., Kim, S. K.
2009; 5 (10)
- **RRM1 expression in muscle invasive, locally advanced urothelial cancer is associated with survival in younger patients** *Annual Meeting of the EORTC/NCI/ASCO on Molecular Markers in Cancer*
Harshman, L., Bepler, G., Zheng, Z., Higgins, J., Allen, G., Srinivas, S.
PERGAMON-ELSEVIER SCIENCE LTD.2009: 19–19
- **Alteration of Gene Expression Signatures of Cortical Differentiation and Wound Response in Lethal Clear Cell Renal Cell Carcinomas** *PLOS ONE*
Zhao, H., Ma, Z., Tibshirani, R., Higgins, J. P., Ljungberg, B., Brooks, J. D.
2009; 4 (6)
- **Correlation of RRM1 expression in muscle invasive locally advanced urothelial cancer with age** *45th Annual Meeting of the American-Society-of-Clinical-Oncology (ASCO)*
Harshman, L. C., Bepler, G., Zheng, Z., Higgins, J. P., ALLEN, G. I., Tibshirani, R., Srinivas, S.
AMER SOC CLINICAL ONCOLOGY.2009
- **Immunohistochemical comparison of MUC1, CA125, and Her2Neu in invasive micropapillary carcinoma of the urinary tract and typical invasive urothelial carcinoma with retraction artifact** *MODERN PATHOLOGY*
Sangoi, A. R., Higgins, J. P., Rouse, R. V., Schneider, A. G., McKenney, J. K.
2009; 22 (5): 660-667
- **Recommendations for the Reporting of Surgically Resected Specimens of Renal Cell Carcinoma** *AMERICAN JOURNAL OF CLINICAL PATHOLOGY*
Higgins, J. P., McKenney, J. K., Brooks, J. D., Argani, P., Epstein, J. I.

2009; 131 (5): 623-?

- **Recommendations for the reporting of surgically resected specimens of renal cell carcinoma** *The Association of Directors of Anatomic and Surgical Pathology HUMAN PATHOLOGY*
Higgins, J. P., McKenney, J. K., Brooksd, J. D., Argani, P., Epstein, J. I.
2009; 40 (4): 456-463
- **Expression of the Urothelial Differentiation Markers GATA3 and Placental S100 (S100P) in Female Genital Tract Transitional Cell Proliferations** *AMERICAN JOURNAL OF SURGICAL PATHOLOGY*
Esheha, G. E., Longacre, T. A., Atkins, K. A., Higgins, J. P.
2009; 33 (3): 347-353
- **CD 9 and vimentin distinguish clear cell from chromophobe renal cell carcinoma.** *BMC clinical pathology*
Williams, A. A., Higgins, J. P., Zhao, H., Ljunberg, B., Brooks, J. D.
2009; 9: 9-?
- **Identification of candidate prostate cancer genes through comparative expression-profiling of seminal vesicle** *PROSTATE*
Thompson, M., Lapointe, J., Choi, Y., Ong, D. E., Higgins, J. P., Brooks, J. D., Pollack, J. R.
2008; 68 (11): 1248-1256
- **Failure of oral atorvastatin to modulate a murine model of systemic lupus erythematosus** *ARTHRITIS AND RHEUMATISM*
Graham, K. L., Lee, L. Y., Higgins, J. P., Steinman, L., Utz, P. J., Ho, P. P.
2008; 58 (7): 2098-2104
- **IRF9 and STAT1 are required for IgG autoantibody production and B cell expression of TLR7 in mice** *JOURNAL OF CLINICAL INVESTIGATION*
Thibault, D. L., Chu, A. D., Graham, K. L., Balboni, I., Lee, L. Y., Kohlmoos, C., Landrigan, A., Higgins, J. P., Tibshirani, R., Utz, P. J.
2008; 118 (4): 1417-1426
- **Renal pathology in hematopoietic cell transplantation recipients** *96th Annual Meeting of the United-States-and-Canadian-Academy-of-Pathology*
Troxell, M. L., Pilapil, M., Miklos, D. B., Higgins, J. P., Kambham, N.
NATURE PUBLISHING GROUP.2008: 396-406
- **hCAP-D3 expression marks a prostate cancer subtype with favorable clinical behavior and androgen signaling signature** *AMERICAN JOURNAL OF SURGICAL PATHOLOGY*
Lapointe, J., Malhotra, S., Higgins, J. P., Bair, E., Thompson, M., Salari, K., Giacomini, C. P., Ferrari, M., Montgomery, K., Tibshirani, R., van de Rijn, M., Brooks, J. D., Pollack, et al
2008; 32 (2): 205-209
- **Bilateral mixed epithelial stromal tumor in an end-stage renal disease patient: the first case report** *HUMAN PATHOLOGY*
Sangoi, A. R., Higgins, J. P.
2008; 39 (1): 142-146
- **The utility of PAX5 immunohistochemistry in the diagnosis of undifferentiated malignant neoplasms** *MODERN PATHOLOGY*
Jensen, K. C., Higgins, J. P., Montgomery, K., Kaygusuz, G., van de Rijn, M., Natkunam, Y.
2007; 20 (8): 871-877
- **Placental S100 (S100P) and GATA3: Markers for transitional epithelium and urothelial carcinoma discovered by complementary DNA microarray** *AMERICAN JOURNAL OF SURGICAL PATHOLOGY*
Higgins, J. P., Kaygusuz, G., Wang, L., Montgomery, K., Mason, V., Zhu, S. X., Marinelli, R. J., Presti, J. C., van de Rijn, M., Brooks, J. D.
2007; 31 (5): 673-680
- **Overexpression of NDRG1 is an indicator of poor prognosis in hepatocellular carcinoma** *MODERN PATHOLOGY*
Chua, M., Sun, H., Cheung, S. T., Mason, V., Higgins, J., Ross, D. T., Fan, S. T., So, S.
2007; 20 (1): 76-83
- **Tolerizing DNA vaccines for autoimmune arthritis** *AUTOIMMUNITY*
Ho, P. P., Higgins, J. P., Kidd, B. A., Tomooka, B., Digennaro, C., Lee, L. Y., De Vegvar, H. E., Steinman, L., Robinson, W. H.
2006; 39 (8): 675-682
- **Intravenous Tamm-Horsfall protein polyps: report of a case in association with a hematoma that mimicked a renal neoplasm.** *American journal of kidney diseases*

- Higgins, J. P., Huie, P., Rigaud, G., Sibley, R. K.
2006; 48 (5): e67-71
- **Selective tyrosine kinase inhibition by imatinib mesylate for the treatment of autoimmune arthritis** *JOURNAL OF CLINICAL INVESTIGATION*
Paniagua, R. T., Sharpe, O., Ho, P. P., Chan, S. M., Chang, A., Higgins, J. P., Tomooka, B. H., Thomas, F. M., Song, J. J., Goodman, S. B., Lee, D. M., Genovese, M. C., Utz, et al
2006; 116 (10): 2633-2642
 - **Evaluation of C4d staining in liver and small intestine allografts** *93rd Annual Meeting of the United-States-and-Canadian-Academy-of-Pathology*
Troxell, M. L., Higgins, J. P., Kambham, N.
COLLEGE AMER PATHOLOGISTS.2006: 1489-96
 - **Upregulation of histidine decarboxylase expression in superficial cortical nephrons during pregnancy in mice and women** *KIDNEY INTERNATIONAL*
Morgan, T. K., Montgomery, K., Mason, V., West, R. B., Wang, L., van de Rijn, M., Higgins, J. P.
2006; 70 (2): 306-314
 - **Comparison of C4d immunostaining methods in renal allograft biopsies** *8th Banff Conference on Allograft Pathology*
Troxell, M. L., Weintraub, L. A., Higgins, J. P., Kambham, N.
AMER SOC NEPHROLOGY.2006: 583-91
 - **Gene array studies in renal neoplasia** *THE SCIENTIFIC WORLD JOURNAL*
Higgins, J. P.
2006; 6: 502-511
 - **CD10 expression in peripheral T-cell lymphomas complicated by a proliferation of large B-cells** *MODERN PATHOLOGY*
Reichard, K. K., Schwartz, E. J., Higgins, J. P., Narasimhan, B., Warnke, R. A., Natkunam, Y.
2006; 19 (3): 337-343
 - **Glomerular and tubular basement membrane calcinosis: Case report and literature review** *AMERICAN JOURNAL OF KIDNEY DISEASES*
Troxell, M. L., Higgins, J. P., Sibley, R. K.
2006; 47 (2)
 - **S100p: A marker for transitional epithelium and urothelial carcinoma** *95th Annual Meeting of the United-States-and-Canadian-Academy-of-Pathology*
Higgins, J. P., Kaygusuz, G., Wang, L., Montgomery, K., Mason, V., Brooks, J. D., van de Rijn, M.
NATURE PUBLISHING GROUP.2006: 142A-142A
 - **Selective tyrosine kinase inhibition by imatinib as a novel treatment strategy for rheumatoid arthritis.** *6th Annual Meeting of the Federation-of-Clinical-Immunology-Societies*
Paniagua, R., Sharpe, O., Chang, A., Ho, P., Chang, S., Higgins, J., Tamooka, B., Robinson, W.
ACADEMIC PRESS INC ELSEVIER SCIENCE.2006: S49-S49
 - **Combined use of the JAK3 inhibitor CP-690,550 with mycophenolate mofetil to prevent kidney allograft rejection in nonhuman primates** *TRANSPLANTATION*
Borie, D. C., Larson, M. J., Flores, M. G., Campbell, A., Rousvoal, G., Zhang, S., Higgins, J. P., Ball, D. J., Kudlacz, E. M., Brissette, W. H., Elliott, E. A., Reitz, B. A., Changelian, et al
2005; 80 (12): 1756-1764
 - **Follicular dendritic cell immunohistochemical markers in angioimmunoblastic T-cell lymphoma** *APPLIED IMMUNOHISTOCHEMISTRY & MOLECULAR MORPHOLOGY*
Troxell, M. L., Schwartz, E. J., van de Ruin, M., Ross, D. T., Warnke, R. A., Higgins, J. P., Natkunam, Y.
2005; 13 (4): 297-303
 - **TMA-combiner, a simple software tool to permit analysis of replicate cores on tissue microarrays** *MODERN PATHOLOGY*
Liu, C. L., Montgomery, K. D., Natkunam, Y., West, R. B., Nielsen, T. O., Cheang, M. C., Turbin, D. A., Marinelli, R. J., van de Rijn, M., Higgins, J. P.
2005; 18 (12): 1641-1648
 - **Immunosuppression by the JAK3 inhibitor CP-690,550 delays rejection and significantly prolongs kidney allograft survival in nonhuman primates** *TRANSPLANTATION*
Borie, D. C., Changelian, P. S., Larson, M. J., Si, M. S., Paniagua, R., Higgins, J. P., Holm, B., Campbell, A., Lau, M., Zhang, S., Flores, M. G., Rousvoal, G., Hawkins, et al
2005; 79 (7): 791-801

- **Only the CD62L(+) subpopulation of CD4(+)CD25(+) regulatory T cells protects from lethal acute GVHD** *BLOOD*
Ermann, J., Hoffmann, P., Edinger, M., Dutt, S., Blankenberg, F. G., Higgins, J. P., Negrin, R. S., Fathman, C. G., Strober, S.
2005; 105 (5): 2220-2226
- **A DNA microarray survey of gene expression in normal human tissues** *GENOME BIOLOGY*
Shyamsundar, R., Kim, Y. H., Higgins, J. P., Montgomery, K., Jorden, M., Sethuraman, A., van de Rijn, M., Botstein, D., Brown, P. O., Pollack, J. R.
2005; 6 (3)
- **Fibrinogen-induced arthritis in mice as a novel model for rheumatoid arthritis.** *5th Annual Meeting of the Federation-of-Clinical-Immunology-Societies*
Ho, P. P., Tomooka, B. H., Higgins, J. P., Lee, L. Y., Genovese, M., Robinson, W. H.
ACADEMIC PRESS INC ELSEVIER SCIENCE.2005: S32-S32
- **PAX5 protein expression in bladder tumors by tissue microarray immunohistochemistry** *94th Annual Meeting of the United-States-and-Canadian-Academy-of-Pathology*
Jensen, K. C., Kaygusuz, G., Montgomery, K., van de Rijn, M., Higgins, J.
NATURE PUBLISHING GROUP.2005: 148A-148A
- **The effect of soluble complement receptor type 1 on acute humoral xenograft rejection in hDAF-transgenic pig-to-primate life-supporting kidney xenografts** *XENOTRANSPLANTATION*
Lam, T. T., Hausen, B., Hook, L., Lau, M., Higgins, J., Christians, U., Jacobsen, W., Baluom, M., Duthaler, R., Katopodis, A., Chavez, G., Cozzi, E., Harrison, et al
2005; 12 (1): 20-29
- **A transcriptional profile of aging in the human kidney** *PLOS BIOLOGY*
Rodwell, G. E., Sonu, R., Zahn, J. M., Lund, J., Wilhelmy, J., Wang, L. L., Xiao, W. Z., Mindrinos, M., Crane, E., Segal, E., Myers, B. D., Brooks, J. D., Davis, et al
2004; 2 (12): 2191-2201
- **Hyperacute rejection of hDAF-transgenic pig organ xenografts in cynomolgus monkeys: influence of pre-existing anti-pig antibodies and prevention by the alpha GAL glycoconjugate GAS914** *XENOTRANSPLANTATION*
Lam, T. T., Hausen, B., Boeke-Purkis, K., Paniagua, R., Lau, M., Hook, L., Berry, G., Higgins, J., Duthaler, R. O., Katopodis, A. G., Robbins, R., Reitz, B., Borie, et al
2004; 11 (6): 517-524
- **Novel endothelial cell markers in hepatocellular carcinoma** *MODERN PATHOLOGY*
Chen, X., Higgins, J., Cheung, S. T., Li, R., Mason, V., Montgomery, K., Fan, S. T., van de Rijn, M., So, S.
2004; 17 (10): 1198-1210
- **Biochemical remission after resection of prostate cancer lung metastasis** *UROLOGY*
Chao, D. H., Higgins, J. P., Brooks, J. D.
2004; 63 (3)
- **Gene expression in the normal adult human kidney assessed by complementary DNA microarray** *MOLECULAR BIOLOGY OF THE CELL*
Higgins, J. P., Wang, L. L., Kambham, N., Montgomery, K., Mason, V., Vogelmann, S. U., Lemley, K. V., Brown, P. O., Brooks, J. D., van de Rijn, M.
2004; 15 (2): 649-656
- **Gene expression profiling identifies clinically relevant subtypes of prostate cancer** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Lapointe, J., Li, C., Higgins, J. P., van de Rijn, M., Bair, E., Montgomery, K., Ferrari, M., Egevad, L., Rayford, W., Bergerheim, U., Ekman, P., DeMarzo, A. M., Tibshirani, et al
2004; 101 (3): 811-816
- **Prevention of organ allograft rejection by a specific Janus kinase 3 inhibitor** *SCIENCE*
Changelian, P. S., Flanagan, M. E., Ball, D. J., Kent, C. R., Magnuson, K. S., Martin, W. H., Rizzuti, B. J., Sawyer, P. S., Perry, B. D., Brissette, W. H., McCurdy, S. P., Kudlacz, E. M., Conklyn, et al
2003; 302 (5646): 875-878
- **Common lymphoid progenitors rapidly engraft and protect against lethal murine cytomegalovirus infection after hematopoietic stem cell transplantation** *BLOOD*
Arber, C., Bitmansour, A., Sparer, T. E., Higgins, J. P., Mocarski, E. S., Weissman, I. L., Shizuru, J. A., Brown, J. M.
2003; 102 (2): 421-428

- **Treatment with humanized monoclonal antibodies against CD80 and CD86 combined with sirolimus prolongs renal allograft survival in cynomolgus monkeys** *TRANSPLANTATION*
Birsan, T., Hausen, B., Higgins, J. P., Hubble, R. W., Klupp, J., Stalder, M., Celniker, A., Friedrich, S., O'Hara, R. M., Morris, R. E.
2003; 75 (12): 2106-2113
- **Host conditioning with total lymphoid irradiation and antithymocyte globulin prevents graft-versus-host disease: The role of CD1-reactive natural killer T cells** *BIOLOGY OF BLOOD AND MARROW TRANSPLANTATION*
Lan, F. S., Zeng, D. F., Higuchi, M., Higgins, J. P., Strober, S.
2003; 9 (6): 355-363
- **Distribution of monoclonal antiferritin antibody in Kaposi's sarcoma, Hodgkin's disease, and hepatocellular carcinoma** *HUMAN PATHOLOGY*
Yuen, A. R., Higgins, J. P., Baker, R., Kamel, O. W., Warnke, R. A., Knox, S. J.
2003; 34 (4): 381-384
- **Gene expression patterns in renal cell carcinoma assessed by complementary DNA microarray** *AMERICAN JOURNAL OF PATHOLOGY*
Higgins, J. P., Shinghal, R., Gill, H., Reese, J. H., Terris, M., Cohen, R. J., Fero, M., Pollack, J. R., van de Rijn, M., Brooks, J. D.
2003; 162 (3): 925-932
- **Expression of FKBP12 in benign and malignant vascular endothelium - An immunohistochemical study on conventional sections and tissue microarrays** *AMERICAN JOURNAL OF SURGICAL PATHOLOGY*
Higgins, J. P., Montgomery, K., Wang, L. L., Domanay, E., Warnke, R. A., Brooks, J. D., van de Rijn, M.
2003; 27 (1): 58-64
- **Gene expression in the normal adult human kidney assessed by complementary DNA microarray** *92nd Annual Meeting of the United-States-and-Canadian-Academy-of-Pathology*
Higgins, J. P., Wang, L., Kambham, N., Montgomery, K., Vogelmann, S., Lemley, K., Pollack, J. R., van de Rijn, M., Brooks, J. D.
NATURE PUBLISHING GROUP.2003: 266A-266A
- **Gene expression patterns in human liver cancers** *MOLECULAR BIOLOGY OF THE CELL*
Chen, X., Cheung, S. T., So, S., Fan, S. T., Barry, C., Higgins, J., Lai, K. M., Ji, J. F., Dudoit, S., Ng, I. O., van de Rijn, M., Botstein, D., Brown, et al
2002; 13 (6): 1929-1939
- **Unique patterns of surface receptors, cytokine secretion, and immune functions distinguish T cells in the bone marrow from those in the periphery: impact on allogeneic bone marrow transplantation** *BLOOD*
Zeng, D. F., Hoffmann, P., Lan, F. S., Huie, P., Higgins, J., Strober, S.
2002; 99 (4): 1449-1457
- **Maintenance and recovery stages of postischemic acute renal failure in humans** *AMERICAN JOURNAL OF PHYSIOLOGY-RENAL PHYSIOLOGY*
Ramaswamy, D., Corrigan, G., Polhemus, C., Boothroyd, D., Scandling, J., Sommer, F. G., Alfrey, E., Higgins, J., Deen, W. M., Olshen, R., Myers, B. D.
2002; 282 (2): F271-F280
- **Expression of FKBP12 in benign and malignant vascular endothelium: An immunohistochemical study using conventional sections and tissue microarrays**
Higgins, J. P., Montgomery, K., Wang, L., Brooks, J. D., van de Rijn, M.
NATURE PUBLISHING GROUP.2002: 16A-16A
- **Long-term plasmapheresis and protein A column treatment of recurrent FSGS** *PEDIATRIC NEPHROLOGY*
Belson, A., Yorgin, P. D., Al-Uzri, A. Y., Salvatierra, O., Higgins, J., Alexander, S. R.
2001; 16 (12): 985-989
- **Ovarian non-Hodgkin's lymphoma: A clinicopathologic study of eight primary cases** *MODERN PATHOLOGY*
Vang, R., Medeiros, L. J., Warnke, R. A., Higgins, J. P., Deavers, M. T.
2001; 14 (11): 1093-1099
- **Coadministration of either cyclosporine or steroids with humanized monoclonal antibodies against CD80 and CD86 successfully prolong allograft survival after life supporting renal transplantation in cynomolgus monkeys** *TRANSPLANTATION*
Hausen, B., Klupp, J., Christians, U., Higgins, J. P., Baumgartner, R. E., Hook, L. E., Friedrich, S., Celnicker, A., Morris, R. E.
2001; 72 (6): 1128-1137
- **Predominance of NK1.1(+)/TCR alpha beta(+) or DX5(+)/TCR alpha beta(+) T cells in mice conditioned with fractionated lymphoid irradiation protects against graft-versus-host disease: "Natural suppressor" cells** *JOURNAL OF IMMUNOLOGY*
Lan, F. S., Zeng, D. F., Higuchi, M., Huie, P., Higgins, J. P., Strober, S.

2001; 167 (4): 2087-2096

- **Apoptosis and allograft rejection in the absence of CD8(+) T cells** *TRANSPLANTATION*
Ogura, Y., Martinez, O. M., Villanueva, J. C., Tait, J. F., Strauss, H. W., Higgins, J. P., Tanaka, K., Esquivel, C. O., Blankenberg, F. G., Krams, S. M.
2001; 71 (12): 1827-1834
- **Pulse methylprednisolone, cyclosporine, and ACE inhibitor therapy decreases proteinuria in two siblings with familial focal segmental glomerulosclerosis** *AMERICAN JOURNAL OF KIDNEY DISEASES*
Yorgin, P. D., Belson, A., Higgins, J., Alexander, S. R.
2001; 37 (6)
- **Allogeneic bone marrow cells that facilitate complete chimerism and eliminate tumor cells express both CD8 and T-cell antigen receptor-alpha beta** *BLOOD*
Lan, F. S., Zeng, D. F., Huie, P., Higgins, J. P., Strober, S.
2001; 97 (11): 3458-3465
- **Genetic analysis of a papillary thyroid carcinoma in a patient with MEN1** *ANNALS OF SURGICAL ONCOLOGY*
Desai, D., McPherson, L. A., Higgins, J. P., Weigel, R. J.
2001; 8 (4): 342-346
- **Peripheral T-cell lymphoma complicated by a proliferation of large B cells** *88th Annual Meeting of the United-States-and-Canadian-Academy-of-Pathology*
Higgins, J. P., van de Rijn, M., Jones, C. D., Zehnder, J. L., Warnke, R. A.
AMER SOC CLINICAL PATHOLOGY.2000: 236-47
- **Large B-cell lymphoma of thyroid - Two cases with a marginal zone distribution of the neoplastic cells** *AMERICAN JOURNAL OF CLINICAL PATHOLOGY*
Higgins, J. P., Warnke, R. A.
2000; 114 (2): 264-270
- **Radiolabeled annexin V imaging: Diagnosis of allograft rejection in an experimental rodent model of liver transplantation** *RADIOLOGY*
Ogura, Y., Krams, S. M., Martinez, O. M., Kopiwoda, S., Higgins, J. P., Esquivel, C. O., Strauss, H. W., Tait, J. F., Blankenberg, F. G.
2000; 214 (3): 795-800
- **IQGAP1 and calmodulin modulate E-cadherin function** *JOURNAL OF BIOLOGICAL CHEMISTRY*
Li, Z. G., Kim, S. H., Higgins, J. M., Brenner, M. B., Sacks, D. B.
1999; 274 (53): 37885-37892
- **Herpes lymphadenitis in association with chronic lymphocytic leukemia** *CANCER*
Higgins, J. P., Warnke, R. A.
1999; 86 (7): 1210-1215
- **CD81 gene expression is lost in hepatocellular carcinoma.**
Drazan, K. E., Higgins, J., Fisher, G. A., Keefe, E., Barry, C. T., So, S. S., Wiczorek, A., Keefe, E., Levy, S., Esquivel, C. O.
WILEY-BLACKWELL.1999: 248A-248A
- **CD30 expression is common in mediastinal large B-cell lymphoma** *AMERICAN JOURNAL OF CLINICAL PATHOLOGY*
Higgins, J. P., Warnke, R. A.
1999; 112 (2): 241-247
- **Testicular Sertoli cell tumors NOS, the final word?** *ADVANCES IN ANATOMIC PATHOLOGY*
Higgins, J. P., Rouse, R. V.
1999; 6 (2): 103-113
- **Management of the clinically positive neck in organ preservation for advanced head and neck cancer** *44th Annual Meeting of the Society-of-Head-and-Neck-Surgeons*
Dagum, P., Pinto, H. A., Newman, J. P., Higgins, J. P., Terris, D. J., Goffinet, D. R., Fee, W. E.
EXCERPTA MEDICA INC-ELSEVIER SCIENCE INC.1998: 448-52