

Stanford



Karl G. Sylvester

Professor of Surgery (Pediatric Surgery)

Surgery - Pediatric Surgery

CLINICAL OFFICES

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ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

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Bio

CLINICAL FOCUS

- Surgery, Pediatric
- Pediatric Surgery
- Neonatal and Fetal Surgery

ACADEMIC APPOINTMENTS

- Professor - University Medical Line, Surgery - Pediatric Surgery
- Member, Bio-X
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Stanford Cancer Institute

ADMINISTRATIVE APPOINTMENTS

- Director Clinical Research Support Office, Stanford Children's Health, (2018- present)
- Co-Director Stanford Metabolic Health Center, Stanford University School of Medicine, (2017- present)
- Associate Dean Maternal Child Health - Research, Stanford University School of Medicine, (2016- present)

PROFESSIONAL EDUCATION

- Medical Education: Sidney Kimmel Medical College Thomas Jefferson University (1992) PA
- Fellowship: Yale University Pediatric Surgery (2001) CT

- Residency: Hospital of the University of Pennsylvania General Surgery Residency (1999) PA
- Residency: Children's Hospital of Philadelphia Pediatric Surgery Residency (1997) PA
- Internship: Hospital of the University of Pennsylvania General Surgery Residency (1993) PA
- Board Certification: Pediatric Surgery, American Board of Surgery (2002)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Scholarly interests include investigation of molecular markers of human disease that provide diagnostic function, serve as targets for possible therapeutic manipulation, or provide insight into mechanisms of human disease. Specific diseases of interest include common conditions of pregnancy, gut microbial ecology and Necrotizing Enterocolitis (NEC).

CLINICAL TRIALS

- Laparotomy vs. Drainage for Infants With Necrotizing Enterocolitis, Not Recruiting

Publications

PUBLICATIONS

- **Newborn screen metabolic panels reflect the impact of common disorders of pregnancy.** *Pediatric research*
Reiss, J. D., Chang, A. L., Mayo, J. A., Bianco, K., Lee, H. C., Stevenson, D. K., Shaw, G. M., Aghaeepour, N., Sylvester, K. G.
2021
- **Initial Laparotomy Versus Peritoneal Drainage in Extremely Low Birthweight Infants With Surgical Necrotizing Enterocolitis or Isolated Intestinal Perforation: A Multicenter Randomized Clinical Trial.** *Annals of surgery*
Blakely, M. L., Tyson, J. E., Lally, K. P., Hintz, S. R., Eggleston, B., Stevenson, D. K., Besner, G. E., Das, A., Ohls, R. K., Truog, W. E., Nelin, L. D., Poindexter, B. B., Pedroza, et al
2021; 274 (4): e370-e380
- **Novel Approaches to Develop Critical Reference Materials for Noninvasive Prenatal Testing: A Pilot Study.** *The journal of applied laboratory medicine*
Bianco, K., Sherwin, E. B., Konigshofer, Y., Girsan, A. I., Sylvester, K. G., Garlick, R. K.
2021
- **Author Correction: Metagenomic insights of the infant microbiome community structure and function across multiple sites in the United States.** *Scientific reports*
Casaburi, G., Duar, R. M., Brown, H., Mitchell, R. D., Kazi, S., Chew, S., Cagney, O., Flannery, R. L., Sylvester, K. G., Frese, S. A., Henrick, B. M., Freeman, S. L.
2021; 11 (1): 11050
- **Integrated trajectories of the maternal metabolome, proteome, and immunome predict labor onset.** *Science translational medicine*
Stelzer, I. A., Ghaemi, M. S., Han, X., Ando, K., Hedou, J. J., Feyaerts, D., Peterson, L. S., Rumer, K. K., Tsai, E. S., Ganio, E. A., Gaudilliere, D. K., Tsai, A. S., Choisy, et al
2021; 13 (592)
- **Understanding how biologic and social determinants affect disparities in preterm birth and outcomes of preterm infants in the NICU.** *Seminars in perinatology*
Stevenson, D. K., Aghaeepour, N., Maric, I., Angst, M. S., Darmstadt, G. L., Druzin, M. L., Gaudilliere, B., Ling, X. B., Moufarrej, M. N., Peterson, L. S., Quake, S. R., Relman, D. A., Snyder, et al
2021: 151408
- **Electronic Health Record-Based Prediction of 1-Year Risk of Incident Cardiac Dysrhythmia: Prospective Case-Finding Algorithm Development and Validation Study.** *JMIR medical informatics*
Zhang, Y., Han, Y., Gao, P., Mo, Y., Hao, S., Huang, J., Ye, F., Li, Z., Zheng, L., Yao, X., Li, Z., Li, X., Wang, et al
2021; 9 (2): e23606
- **Metagenomic insights of the infant microbiome community structure and function across multiple sites in the United States.** *Scientific reports*

- Casaburi, G. n., Duar, R. M., Brown, H. n., Mitchell, R. D., Kazi, S. n., Chew, S. n., Cagney, O. n., Flannery, R. L., Sylvester, K. G., Frese, S. A., Henrick, B. M., Freeman, S. L.
2021; 11 (1): 1472
- **Maternal metabolic profiling to assess fetal gestational age and predict preterm delivery: a two-centre retrospective cohort study in the US.** *BMJ open*
Sylvester, K. G., Hao, S., You, J., Zheng, L., Tian, L., Yao, X., Mo, L., Ladella, S., Wong, R. J., Shaw, G. M., Stevenson, D. K., Cohen, H. J., Whitin, et al
2020; 10 (12): e040647
 - **Towards personalized medicine in maternal and child health: integrating biologic and social determinants.** *Pediatric research*
Stevenson, D. K., Wong, R. J., Aghaeepour, N., Maric, I., Angst, M. S., Contrepois, K., Darmstadt, G. L., Druzin, M. L., Eisenberg, M. L., Gaudilliere, B., Gibbs, R. S., Gotlib, I. H., Gould, et al
2020
 - **Proteomic profiling to identify therapeutics targets in glioblastoma (GBM).**
Thyparambil, S. P., Liao, W., An, E., Bhalkikar, A., Heaton, R., Sylvester, K. G., Ling, X. B.
AMER SOC CLINICAL ONCOLOGY.2020
 - **Deviation from the precisely timed phenomic ageotypes can assist in early CRC screening and reveal underlying pathophysiology.**
Thyparambil, S. P., You, J., Liu, K., Sun, H., Peng, J., Cai, S., Li, Y., Fu, C., Bao, P., Li, Q., Hao, S., Zhang, Y., Li, et al
LIPPINCOTT WILLIAMS & WILKINS.2020
 - **Treating Center Volume and Congenital Diaphragmatic Hernia Outcomes in California.** *The Journal of pediatrics*
Apfeld, J. C., Kastenber, Z. J., Gibbons, A. T., Carmichael, S. L., Lee, H. C., Sylvester, K. G.
2020
 - **Progressive Metabolic Dysfunction and Nutritional Variability Precedes Necrotizing Enterocolitis.** *Nutrients*
Sinclair, T. J., Ye, C., Chen, Y., Zhang, D., Li, T., Ling, X. B., Cohen, H. J., Shaw, G. M., Stevenson, D. K., Chace, D., Clark, R. H., Sylvester, K. G.
2020; 12 (5)
 - **Expression of antibody-drug conjugates (ADC) biomarkers in colorectal cancer.**
Thyparambil, S. P., Liao, W., An, E., Tian, Y., Heaton, R., Sylvester, K. G., Ling, X. B.
AMER SOC CLINICAL ONCOLOGY.2020
 - **Survival of infants with congenital diaphragmatic hernia in California: impact of hospital, clinical, and sociodemographic factors.** *Journal of perinatology : official journal of the California Perinatal Association*
Carmichael, S. L., Ma, C. n., Lee, H. C., Shaw, G. M., Sylvester, K. G., Hintz, S. R.
2020
 - **Racial/ethnic disparities and human milk use in necrotizing enterocolitis.** *Pediatric research*
Goldstein, G. P., Pai, V. V., Liu, J. n., Sigurdson, K. n., Vernon, L. B., Lee, H. C., Sylvester, K. G., Shaw, G. M., Profit, J. n.
2020; 88 (Suppl 1): 3–9
 - **Changes in pregnancy-related serum biomarkers early in gestation are associated with later development of preeclampsia.** *PloS one*
Hao, S. n., You, J. n., Chen, L. n., Zhao, H. n., Huang, Y. n., Zheng, L. n., Tian, L. n., Maric, I. n., Liu, X. n., Li, T. n., Bianco, Y. K., Winn, V. D., Aghaeepour, et al
2020; 15 (3): e0230000
 - **Kinetics of SARS-CoV-2 positivity of infected and recovered patients from a single center.** *Scientific reports*
Huang, J. n., Zheng, L. n., Li, Z. n., Hao, S. n., Ye, F. n., Chen, J. n., Gans, H. A., Yao, X. n., Liao, J. n., Wang, S. n., Zeng, M. n., Qiu, L. n., Li, et al
2020; 10 (1): 18629
 - **Identification of elders at higher risk for fall with statewide electronic health records and a machine learning algorithm.** *International journal of medical informatics*
Ye, C. n., Li, J. n., Hao, S. n., Liu, M. n., Jin, H. n., Zheng, L. n., Xia, M. n., Jin, B. n., Zhu, C. n., Alfreds, S. T., Stearns, F. n., Kanov, L. n., Sylvester, et al
2020; 137: 104105
 - **High-throughput quantitation of serological ceramides/dihydroceramides by LC/MS/MS: Pregnancy baseline biomarkers and potential metabolic messengers.** *Journal of pharmaceutical and biomedical analysis*
Huang, Q. n., Hao, S. n., Yao, X. n., You, J. n., Li, X. n., Lai, D. n., Han, C. n., Schilling, J. n., Hwa, K. Y., Thyparambil, S. n., Whitin, J. n., Cohen, H. J., Chubb, et al
2020; 192: 113639

- **Development of an early-warning system for high-risk patients for suicide attempt using deep learning and electronic health records.** *Translational psychiatry*
Zheng, L. n., Wang, O. n., Hao, S. n., Ye, C. n., Liu, M. n., Xia, M. n., Sabo, A. N., Markovic, L. n., Stearns, F. n., Kanov, L. n., Sylvester, K. G., Widen, E. n., McElhinney, et al
2020; 10 (1): 72
- **In fetuses with congenital lung masses, decreased ventricular and atrioventricular valve dimensions are associated with lesion size and clinical outcome.** *Prenatal diagnosis*
Mardy, C., Blumenfeld, Y. J., Arunamata, A. A., Girsen, A. I., Sylvester, K. G., Halabi, S., Rubesova, E., Hintz, S. R., Tacy, T. A., Maskatia, S. A.
2019
- **Recent Advances in Prevention and Therapies for Clinical or Experimental Necrotizing Enterocolitis** *DIGESTIVE DISEASES AND SCIENCES*
Wang, K., Tao, G., Sylvester, K. G.
2019; 64 (11): 3078–85
- **Effects of gestational age at delivery and type of labor on neonatal outcomes among infants with gastroschisis.** *The journal of maternal-fetal & neonatal medicine : the official journal of the European Association of Perinatal Medicine, the Federation of Asia and Oceania Perinatal Societies, the International Society of Perinatal Obstetricians*
Girsen, A. I., Davis, A. S., Hintz, S. R., Fluharty, E., Sherwin, K., Trepman, P., Desai, A., Mansour, T., Sylvester, K. G., Oshiro, B., Blumenfeld, Y. J.
2019: 1–191
- **A Real-Time Early Warning System for Monitoring Inpatient Mortality Risk: Prospective Study Using Electronic Medical Record Data.** *Journal of medical Internet research*
Ye, C., Wang, O., Liu, M., Zheng, L., Xia, M., Hao, S., Jin, B., Jin, H., Zhu, C., Huang, C. J., Gao, P., Ellrodt, G., Brennan, et al
2019; 21 (7): e13719
- **Prenatally diagnosed omphalocele: characteristics associated with adverse neonatal outcomes.** *Journal of perinatology : official journal of the California Perinatal Association*
Chock, V. Y., Davis, A. S., Cho, S., Bax, C., Fluharty, E., Weigel, N., Homeyer, M., Hudgins, L., Jones, R., Rubesova, E., Sylvester, K. G., Blumenfeld, Y. J., Hintz, et al
2019
- **The disproportionate cost of operation and congenital anomalies in infancy**
Apfeld, J. C., Kastenber, Z. J., Gibbons, A. T., Phibbs, C. S., Lee, H. C., Sylvester, K. G.
MOSBY-ELSEVIER.2019: 1234–42
- **Prediction of the 1-Year Risk of Incident Lung Cancer: Prospective Study Using Electronic Health Records from the State of Maine** *JOURNAL OF MEDICAL INTERNET RESEARCH*
Wang, X., Zhang, Y., Hao, S., Zheng, L., Liao, J., Ye, C., Xia, M., Wang, O., Liu, M., Weng, C., Duong, S. Q., Jin, B., Alfreds, et al
2019; 21 (5)
- **The disproportionate cost of operation and congenital anomalies in infancy.** *Surgery*
Apfeld, J. C., Kastenber, Z. J., Gibbons, A. T., Phibbs, C. S., Lee, H. C., Sylvester, K. G.
2019
- **Recent Potential Noninvasive Biomarkers in Necrotizing Enterocolitis.** *Gastroenterology research and practice*
Wang, K., Tao, G., Sun, Z., Sylvester, K. G.
2019; 2019: 8413698
- **Recent Advances in Prevention and Therapies for Clinical or Experimental Necrotizing Enterocolitis.** *Digestive diseases and sciences*
Wang, K., Tao, G., Sylvester, K. G.
2019
- **Predicting Pathology From Imaging in Children Undergoing Resection of Congenital Lung Lesions**
Narayan, R. R., Abadilla, N., Greenberg, D. R., Sylvester, K. G., Hintz, S. R., Barth, R. A., Bruzoni, M.
ACADEMIC PRESS INC ELSEVIER SCIENCE.2019: 68–73
- **Biomarker Discovery and Utility in Necrotizing Enterocolitis** *CLINICS IN PERINATOLOGY*
Goldstein, G. P., Sylvester, K. G.
2019; 46 (1): 1+

- **Biomarker Discovery and Utility in Necrotizing Enterocolitis.** *Clinics in perinatology*
Goldstein, G. P., Sylvester, K. G.
2019; 46 (1): 1–17
- **A proteomic clock for malignant gliomas: The role of the environment in tumorigenesis at the presymptomatic stage.** *PloS one*
Zheng, L. n., Zhang, Y. n., Hao, S. n., Chen, L. n., Sun, Z. n., Yan, C. n., Whitin, J. C., Jang, T. n., Merchant, M. n., McElhinney, D. B., Sylvester, K. G., Cohen, H. J., Recht, et al
2019; 14 (10): e0223558
- **Obstetric and neonatal outcomes in pregnancies complicated by fetal lung masses: does final histology matter?** *The journal of maternal-fetal & neonatal medicine : the official journal of the European Association of Perinatal Medicine, the Federation of Asia and Oceania Perinatal Societies, the International Society of Perinatal Obstetricians*
Anderson, J. N., Girsen, A. I., Hintz, S. R., El-Sayed, Y. Y., Davis, A. S., Barth, R. A., Halabi, S. n., Hazard, F. K., Sylvester, K. G., Bruzoni, M. n., Blumenfeld, Y. J.
2019: 1–7
- **Congenital diaphragmatic hernia-associated neonatal morbidity and mortality based on TOTAL trial severity designation**
Boissiere, J. C., Anderson, J. N., Girsen, A. I., Hintz, S. R., El-Sayed, Y. Y., Van Meurs, K. P., Sylvester, K. G., Blumenfeld, Y. J.
MOSBY-ELSEVIER.2019: S667–S668
- **Obstetric and neonatal outcomes in pregnancies complicated by fetal lung masses: does final histology matter?**
Anderson, J. N., Girsen, A. I., Hintz, S. R., El-Sayed, Y. Y., Davis, A. S., Barth, R. A., Halabi, S., Sylvester, K. G., Bruzoni, M., Blumenfeld, Y. J.
MOSBY-ELSEVIER.2019: S151
- **Recent Potential Noninvasive Biomarkers in Necrotizing Enterocolitis** *GASTROENTEROLOGY RESEARCH AND PRACTICE*
Wang, K., Tao, G., Sun, Z., Sylvester, K. G.
2019
- **Prediction of the 1-Year Risk of Incident Lung Cancer: Prospective Study Using Electronic Health Records from the State of Maine.** *Journal of medical Internet research*
Wang, X. n., Zhang, Y. n., Hao, S. n., Zheng, L. n., Liao, J. n., Ye, C. n., Xia, M. n., Wang, O. n., Liu, M. n., Weng, C. H., Duong, S. Q., Jin, B. n., Alfreds, et al
2019; 21 (5): e13260
- **Predicting Pathology From Imaging in Children Undergoing Resection of Congenital Lung Lesions.** *The Journal of surgical research*
Narayan, R. R., Abadilla, N., Greenberg, D. R., Sylvester, K. G., Hintz, S. R., Barth, R. A., Bruzoni, M.
2018; 236: 68–73
- **Donor-derived circulating cell-free DNA (ccfDNA) reference materials for concordance studies**
Konigshofer, Y., Butler, M. G., Dickens, J., Bianco, K., Sylvester, K. G., Anekella, B., Garlick, R. K.
AMER ASSOC CANCER RESEARCH.2018
- **Point-of-Care Fecal Calprotectin Monitoring in Preterm Infants at Risk for Necrotizing Enterocolitis** *JOURNAL OF PEDIATRICS*
Nakayuenyongsuk, W., Christofferson, M., Stevenson, D. K., Sylvester, K., Lee, H. C., Park, K. T.
2018; 196: 98–+
- **Development of the necrotizing enterocolitis society registry and biorepository** *SEMINARS IN PEDIATRIC SURGERY*
Ralls, M. W., Gadepalli, S. K., Sylvester, K. G., Good, M.
2018; 27 (1): 25–28
- **Changing the paradigm of defining, detecting, and diagnosing NEC: Perspectives on Bell's stages and biomarkers for NEC** *SEMINARS IN PEDIATRIC SURGERY*
Gephart, S. M., Gordon, P. V., Penn, A. H., Gregory, K. E., Swanson, J. R., Maheshwari, A., Sylvester, K.
2018; 27 (1): 3–10
- **Prediction of Incident Hypertension Within the Next Year: Prospective Study Using Statewide Electronic Health Records and Machine Learning.** *Journal of medical Internet research*
Ye, C. n., Fu, T. n., Hao, S. n., Zhang, Y. n., Wang, O. n., Jin, B. n., Xia, M. n., Liu, M. n., Zhou, X. n., Wu, Q. n., Guo, Y. n., Zhu, C. n., Li, et al
2018; 20 (1): e22
- **Assessing Statewide All-Cause Future One-Year Mortality: Prospective Study With Implications for Quality of Life, Resource Utilization, and Medical Futility.** *Journal of medical Internet research*

- Guo, Y. n., Zheng, G. n., Fu, T. n., Hao, S. n., Ye, C. n., Zheng, L. n., Liu, M. n., Xia, M. n., Jin, B. n., Zhu, C. n., Wang, O. n., Wu, Q. n., Culver, et al
2018; 20 (6): e10311
- **Gene expression network analysis in aneuploid human trophoblast progenitor cells (TBPC) reveals modular structures**
Leon-Martinez, D., Ling, X., Hao, S., Sylvester, K., Bianco, K.
MOSBY-ELSEVIER.2018: S163–S164
 - **Point-of-Care Fecal Calprotectin Monitoring in Preterm Infants at Risk for Necrotizing Enterocolitis.** *The Journal of pediatrics*
Nakayuenyongsuk, W. n., Christofferson, M. n., Stevenson, D. K., Sylvester, K. n., Lee, H. C., Park, K. T.
2018
 - **FAM83H is involved in the progression of hepatocellular carcinoma and is regulated by MYC** *SCIENTIFIC REPORTS*
Kim, K., Park, S., Bae, J., Noh, S., Tao, G., Kim, J., Kwon, K., Park, H., Park, B., Lee, H., Chung, M., Moon, W., Sylvester, et al
2017; 7
 - **FAM83H is involved in the progression of hepatocellular carcinoma and is regulated by MYC.** *Scientific reports*
Kim, K. M., Park, S. H., Bae, J. S., Noh, S. J., Tao, G. Z., Kim, J. R., Kwon, K. S., Park, H. S., Park, B. H., Lee, H., Chung, M. J., Moon, W. S., Sylvester, et al
2017; 7 (1): 3274
 - **Advanced minimal access surgery in infants weighing less than 3kg: A single center experience.** *Journal of pediatric surgery*
Wall, J. K., Sinclair, T. J., Kethman, W., Williams, C., Albanese, C., Sylvester, K. G., Bruzoni, M.
2017
 - **Advanced minimal access surgery in infants weighing less than 3kg: A single center experience.** *Journal of pediatric surgery*
Wall, J. K., Sinclair, T. J., Kethman, W., Williams, C., Albanese, C., Sylvester, K. G., Bruzoni, M.
2017
 - **Acylcarnitine Profiles Reflect Metabolic Vulnerability for Necrotizing Enterocolitis in Newborns Born Premature.** *journal of pediatrics*
Sylvester, K. G., Kastenber, Z. J., Moss, R. L., Enns, G. M., Cowan, T. M., Shaw, G. M., Stevenson, D. K., Sinclair, T. J., Scharfe, C., Ryckman, K. K., Jelliffe-Pawlowski, L. L.
2017; 181: 80-85 e1
 - **Prediction of neonatal respiratory distress in pregnancies complicated by fetal lung masses.** *Prenatal diagnosis*
Girsen, A. I., Hintz, S. R., Sammour, R., Naqvi, A., El-Sayed, Y. Y., Sherwin, K., Davis, A. S., Chock, V. Y., Barth, R. A., Rubesova, E., Sylvester, K. G., Chitkara, R., Blumenfeld, et al
2017
 - **Involvement of prolyl isomerase PIN1 in the cell cycle progression and proliferation of hepatic oval cells** *PATHOLOGY RESEARCH AND PRACTICE*
Risal, P., Shrestha, N., Chand, L., Sylvester, K. G., Jeong, Y. J.
2017; 213 (4): 373-380
 - **Defining and characterizing the critical transition state prior to the type 2 diabetes disease.** *PloS one*
Jin, B. n., Liu, R. n., Hao, S. n., Li, Z. n., Zhu, C. n., Zhou, X. n., Chen, P. n., Fu, T. n., Hu, Z. n., Wu, Q. n., Liu, W. n., Liu, D. n., Yu, et al
2017; 12 (7): e0180937
 - **Estimating One-Year Risk of Incident Chronic Kidney Disease: Retrospective Development and Validation Study Using Electronic Medical Record Data From the State of Maine.** *JMIR medical informatics*
Hao, S. n., Fu, T. n., Wu, Q. n., Jin, B. n., Zhu, C. n., Hu, Z. n., Guo, Y. n., Zhang, Y. n., Yu, Y. n., Fouts, T. n., Ng, P. n., Culver, D. S., Alfreds, et al
2017; 5 (3): e21
 - **Role of the Wnt/beta-Catenin Pathway in the Pathogenesis of Alcoholic Liver Disease** *CURRENT MOLECULAR PHARMACOLOGY*
Behari, J., Sylvester, K. G.
2017; 10 (3): 186–94
 - **Identification of independent metabolic risk groups for necrotizing enterocolitis through machine learning**
Oltman, S. P., Rogers, E. E., Pantell, M., Baer, R. J., Rand, L., Ryckman, K. K., Kastenber, Z., Sylvester, K., Jelliffe-Pawlowski, L.
MOSBY-ELSEVIER.2017: S372
 - **The Effect of Level of Care on Gastroschisis Outcomes.** *The Journal of pediatrics*
Apfeld, J. C., Kastenber, Z. J., Sylvester, K. G., Lee, H. C.
2017; 190: 79–84.e1

- **Heme Oxygenase Activity and Heme Binding in a Neonatal Mouse Model** *NEONATOLOGY*
Kourula, S., Ang, J., Zhao, H., Kalish, F., Vandenabeele, P., Sylvester, K. G., Wong, R. J., Stevenson, D. K.
2017; 112 (4): 376–83
- **Unique Molecular Patterns Uncovered in Kawasaki Disease Patients with Elevated Serum Gamma Glutamyl Transferase Levels: Implications for Intravenous Immunoglobulin Responsiveness** *PLOS ONE*
Wang, Y., Li, Z., Hu, G., Hao, S., Deng, X., Huang, M., Ren, M., Jiang, X., Kanegaye, J. T., Ha, K., Lee, J., Li, X., Jiang, et al
2016; 11 (12)
- **CK2 alpha/CSNK2A1 Phosphorylates SIRT6 and Is Involved in the Progression of Breast Carcinoma and Predicts Shorter Survival of Diagnosed Patients** *AMERICAN JOURNAL OF PATHOLOGY*
Bae, J. S., Park, S., Jamiyandorj, U., Kim, K. M., Noh, S. J., Kim, J. R., Park, H. J., Kwon, K. S., Jung, S. H., Park, H. S., Park, B., Lee, H., Moon, et al
2016; 186 (12): 3297-3315
- **Web-based Real-Time Case Finding for the Population Health Management of Patients With Diabetes Mellitus: A Prospective Validation of the Natural Language Processing-Based Algorithm With Statewide Electronic Medical Records.** *JMIR medical informatics*
Zheng, L., Wang, Y., Hao, S., Shin, A. Y., Jin, B., Ngo, A. D., Jackson-Browne, M. S., Feller, D. J., Fu, T., Zhang, K., Zhou, X., Zhu, C., Dai, et al
2016; 4 (4)
- **Mapping the Fetomaternal Peripheral Immune System at Term Pregnancy.** *Journal of immunology*
Fragiadakis, G. K., Baca, Q. J., Gherardini, P. F., Ganio, E. A., Gaudilliere, D. K., Tingle, M., Lancero, H. L., McNeil, L. S., Spitzer, M. H., Wong, R. J., Shaw, G. M., Darmstadt, G. L., Sylvester, et al
2016
- **Necroptosis is Associated with Development Dependent Enterocyte Death in a Mouse Model of Intestinal Injury and Human Necrotizing Enterocolitis**
Sinclair, T., Tao, G., Liu, B., Zhang, R., Lu, C., Sylvester, K. G.
ELSEVIER SCIENCE INC.2016: E157–E158
- **Advanced Minimal Access Surgery in Infants Weighing Less Than 3 Kilograms: A Single Center Experience**
Sinclair, T., Wall, J. K., Albanese, C., Sylvester, K. G., Bruzoni, M.
ELSEVIER SCIENCE INC.2016: E153
- **A Multi-Omics Analysis of Human Nucleus-Coded Mitochondrial Genes with Mouse Extraembryonic Tissue/Placenta Phenotypes: Implications in Mitochondria-Mediated Maternal and Fetal Complications.**
Hu, G., Chen, R., Deng, X., Li, Z., Mo, L., Hao, S., Shaw, G. M., Stevenson, D. K., Cohen, H. J., Jiang, X., Sylvester, K. G., Ling, X. B.
SAGE PUBLICATIONS INC.2016: 320A
- **Prospective stratification of patients at risk for emergency department revisit: resource utilization and population management strategy implications.** *BMC emergency medicine*
Jin, B., Zhao, Y., Hao, S., Shin, A. Y., Wang, Y., Zhu, C., Hu, Z., Fu, C., Ji, J., Wang, Y., Zhao, Y., Jiang, Y., Dai, et al
2016; 16 (1): 10-?
- **NLP based congestive heart failure case finding: A prospective analysis on statewide electronic medical records.** *International journal of medical informatics*
Wang, Y., Luo, J., Hao, S., Xu, H., Shin, A. Y., Jin, B., Liu, R., Deng, X., Wang, L., Zheng, L., Zhao, Y., Zhu, C., Hu, et al
2015; 84 (12): 1039-1047
- **Augmented Wnt signaling as a therapeutic tool to prevent ischemia/reperfusion injury in liver: Preclinical studies in a mouse model.** *Liver transplantation*
Liu, B., Zhang, R., Tao, G., Lehwald, N. C., Liu, B., Koh, Y., Sylvester, K. G.
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