

# Stanford

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## Bruce Ling

Assistant Professor (Research) of Surgery (Pediatric Surgery)

Surgery - Pediatric Surgery

 Curriculum Vitae available Online

### CONTACT INFORMATION

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### Bio

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#### BIO

##### Clinical Focus

- Big data analytics for quality improvement and clinical effectiveness
- Disease biomarker discovery through multi-omics based analyses

##### Academic Appointments

- Assistant Professor Surgery

##### Professional Education

- B.S., Biochemistry, Fudan University, China (1990)
- M.A., Molecular and Developmental Biology, UCLA, US (1994)
- Ph.D., Biological Chemistry, UCLA, US (1996)
- Postdoctoral training, medicine/oncology/Computer science, Stanford University, US (1996-1998)
- Business administration, Leavey School of Business, Santa Clara University, US (2000-2001)

#### ACADEMIC APPOINTMENTS

- Assistant Professor (Research), Surgery - Pediatric Surgery
- Member, Bio-X
- Member, Cardiovascular Institute
- Member, Maternal & Child Health Research Institute (MCHRI)

#### LINKS

- My lab site: <http://translationalmedicine.stanford.edu>

## Publications

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### PUBLICATIONS

- **Multi-omics longitudinal analyses in stages I to III CRC patients: Surveillance liquid biopsy test to predict early recurrence and enable risk-stratified postoperative CRC management.**  
Liu, X., Zhang, Y., Zhu, X., Thyparambil, S. P., Liao, W., Zheng, X., You, J., Masood, A., Li, Z., Yang, G., Yao, X., Hao, S., Heaton, et al  
LIPPINCOTT WILLIAMS & WILKINS.2021
- **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
- **Targeted multiplex proteomics (TMP) and genomics of early-onset colorectal cancer (EO-CRC)**  
Kam, A. E., Khaliq, A. M., Alam, N., Hayden, D., Bhama, A. R., Govekar, H., Pappas, S., Ritz, E. M., Singh, A., Thyparambil, S. P., Liao, W., Bhalkikar, A., Ling, et al  
LIPPINCOTT WILLIAMS & WILKINS.2021
- **Proteomic signatures predict preeclampsia in individual cohorts but not across cohorts - implications for clinical biomarker studies.** *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*  
Ghaemi, M. S., Tarca, A. L., Romero, R. n., Stanley, N. n., Fallahzadeh, R. n., Tanada, A. n., Culos, A. n., Ando, K. n., Han, X. n., Blumenfeld, Y. J., Druzin, M. L., El-Sayed, Y. Y., Gibbs, et al  
2021: 1-8
- **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., Contrepolis, K., Darmstadt, G. L., Druzin, M. L., Eisenberg, M. L., Gaudilliere, B., Gibbs, R. S., Gotlib, I. H., Gould, et al  
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
- **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
- **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

- **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
- **Multicentre validation of a computer-based tool for differentiation of acute Kawasaki disease from clinically similar febrile illnesses.** *Archives of disease in childhood*  
Hao, S. n., Ling, X. B., Kanegaye, J. T., Bainto, E. n., Dominguez, S. R., Heizer, H. n., Jone, P. N., Anderson, M. S., Jaggi, P. n., Baker, A. n., Son, M. B., Newberger, J. W., Ashouri, et al  
2020
- **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
- **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
- **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
- **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
- **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
- **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)
- **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
- **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
- **Validation of a novel automated signal analysis tool for ablation of Wolff-Parkinson-White Syndrome.** *PloS one*  
Ceresnak, S. R., Pass, R. H., Dubin, A. M., Yang, L., Motonaga, K. S., Hedlin, H., Avasarala, K., Trela, A., McElhinney, D. B., Janson, C., Nappo, L., Ling, X. B., Gates, et al  
2019; 14 (6): e0217282
- **Improved detection of prostate cancer using a magneto-nanosensor assay for serum circulating autoantibodies.** *PloS one*  
Xu, L., Lee, J., Hao, S., Ling, X. B., Brooks, J. D., Wang, S. X., Gambhir, S. S.  
2019; 14 (8): e0221051

- **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
- **Shorten Bipolarity Checklist for the Differentiation of Subtypes of Bipolar Disorder Using Machine Learning**  
Feng, C., Gao, H., Ling, X. B., Ji, J., Ma, Y., ACM  
ASSOC COMPUTING MACHINERY.2018: 162–66
- **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
- **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
- **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
- **Disturbance Propagation in Power System Based on an Epidemic Model**  
Wu, Q., Zhang, D., Liu, D., Liu, F., Ling, X., Li, Z., IEEE  
IEEE.2017
- **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
- **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)
- **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)
- **A Classification Tool for Differentiation of Kawasaki Disease from Other Febrile Illnesses.** *journal of pediatrics*  
Hao, S., Jin, B., Tan, Z., Li, Z., Ji, J., Hu, G., Wang, Y., Deng, X., Kanegaye, J. T., Tremoulet, A. H., Burns, J. C., Cohen, H. J., Ling, et al  
2016; 176: 114-120 e8
- **Prehypertension During Normotensive Pregnancy and Postpartum Clustering of Cardiometabolic Risk Factors: A Prospective Cohort Study.** *Hypertension*  
Lei, Q., Zhou, X., Zhou, Y., Mai, C., Hou, M., Lv, L., Duan, D., Wen, J., Lin, X., Wang, P. P., Ling, X. B., Li, Y., Niu, et al  
2016; 68 (2): 455-463
- **A Novel Truncated Form of Serum Amyloid A in Kawasaki Disease** *PLOS ONE*  
Whitin, J. C., Yu, T. T., Ling, X. B., Kanegaye, J. T., Burns, J. C., Cohen, H. J.  
2016; 11 (6)
- **Exploring the Role of Polycythemia in Patients With Cyanosis After Palliative Congenital Heart Surgery.** *Pediatric critical care medicine*  
Siehr, S. L., Shi, S., Hao, S., Hu, Z., Jin, B., Hanley, F., Reddy, V. M., McElhinney, D. B., Ling, X. B., Shin, A. Y.  
2016; 17 (3): 216-222
- **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

- **Urinary Colorimetric Sensor Array and Algorithm to Distinguish Kawasaki Disease from Other Febrile Illnesses** *PLOS ONE*  
Li, Z., Tan, Z., Hao, S., Jin, B., Deng, X., Hu, G., Liu, X., Zhang, J., Jin, H., Huang, M., Kanegaye, J. T., Tremoulet, A. H., Burns, et al  
2016; 11 (2)
- **Precision test for precision medicine: opportunities, challenges and perspectives regarding pre-eclampsia as an intervention window for future cardiovascular disease.** *American journal of translational research*  
Zhou, X. n., Niu, J. M., Ji, W. J., Zhang, Z. n., Wang, P. P., Ling, X. B., Li, Y. M.  
2016; 8 (5): 1920–34
- **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
- **Exploring Value in Congenital Heart Disease: An Evaluation of Inpatient Admissions.** *Congenital heart disease*  
Shin, A. Y., Hu, Z., Jin, B., Lal, S., Rosenthal, D. N., Efron, B., Sharek, P. J., Sutherland, S. M., Cohen, H. J., McElhinney, D. B., Roth, S. J., Ling, X. B.  
2015; 10 (6): E278-87
- **Novel data-mining approach identifies biomarkers for diagnosis of Kawasaki disease** *PEDIATRIC RESEARCH*  
Tremoulet, A. H., Dutkowski, J., Sato, Y., Kanegaye, J. T., Ling, X. B., Burns, J. C.  
2015; 78 (5): 547-553
- **Exploring Value in Congenital Heart Disease: An Evaluation of Inpatient Admissions** *CONGENITAL HEART DISEASE*  
Shin, A. Y., Hu, Z., Jin, B., Lal, S., Rosenthal, D. N., Efron, B., Sharek, P. J., Sutherland, S. M., Cohen, H. J., McElhinney, D. B., Roth, S. J., Ling, X. B.  
2015; 10 (6): E278-E287
- **Development, Validation and Deployment of a Real Time 30 Day Hospital Readmission Risk Assessment Tool in the Maine Healthcare Information Exchange** *PLOS ONE*  
Hao, S., Wang, Y., Jin, B., Shin, A. Y., Zhu, C., Huang, M., Zheng, L., Luo, J., Hu, Z., Fu, C., Dai, D., Wang, Y., Culver, et al  
2015; 10 (10)
- **Serological Targeted Analysis of an ITIH4 Peptide Isoform: A Preterm Birth Biomarker and Its Associated SNP Implications** *JOURNAL OF GENETICS AND GENOMICS*  
Tan, Z., Hu, Z., Cai, E. Y., Alev, C., Yang, T., Li, Z., Sung, J., El-Sayed, Y. Y., Shaw, G. M., Stevenson, D. K., Butte, A. J., Sheng, G., Sylvester, et al  
2015; 42 (9): 507-510
- **Online Prediction of Health Care Utilization in the Next Six Months Based on Electronic Health Record Information: A Cohort and Validation Study** *JOURNAL OF MEDICAL INTERNET RESEARCH*  
Hu, Z., Hao, S., Jin, B., Shin, A. Y., Zhu, C., Huang, M., Wang, Y., Zheng, L., Dai, D., Culver, D. S., Alfreds, S. T., Rogow, T., Stearns, et al  
2015; 17 (9)
- **Cerebrospinal fluid protein dynamic driver network: At the crossroads of brain tumorigenesis** *METHODS*  
Tan, Z., Liu, R., Zheng, L., Hao, S., Fu, C., Li, Z., Deng, X., Jang, T., Merchant, M., Whitin, J. C., Guo, M., Cohen, H. J., Recht, et al  
2015; 83: 36-43
- **Utility of Clinical Biomarkers to Predict Central Line-associated Bloodstream Infections After Congenital Heart Surgery.** *Pediatric infectious disease journal*  
Shin, A. Y., Jin, B., Hao, S., Hu, Z., Sutherland, S., McCammond, A., Axelrod, D., Sharek, P., Roth, S. J., Ling, X. B.  
2015; 34 (3): 251-254
- **Real-time web-based assessment of total population risk of future emergency department utilization: statewide prospective active case finding study.** *Interactive journal of medical research*  
Hu, Z., Jin, B., Shin, A. Y., Zhu, C., Zhao, Y., Hao, S., Zheng, L., Fu, C., Wen, Q., Ji, J., Li, Z., Wang, Y., Zheng, et al  
2015; 4 (1)

- **Risk prediction for future 6-month healthcare resource utilization in Maine**  
Hao, S., Sylvester, K. G., Ling, X. B., Ru, Z., Jin, B., Zhu, C., Dai, D., Stearns, F., Widen, E., Shin, A., Culver, D. S., Alfreds, S. T., Rogow, et al  
IEEE.2015: 863–66
- **Risk Prediction of Stroke: A Prospective Statewide Study on Patients in Maine**  
Zheng, L., Wang, V., Hao, S., Sylvester, K. G., Ling, X. B., Jin, B., Zhu, C., Jin, H., Dai, D., Xu, H., Stearns, F., Widen, E., Shin, et al  
IEEE.2015: 853–55
- **Pilot Application of Magnetic Nanoparticle-Based Biosensor for Necrotizing Enterocolitis.** *Journal of proteomics & bioinformatics*  
Kim, D., Fu, C., Ling, X. B., Hu, Z., Tao, G., Zhao, Y., Kastenber, Z. J., Sylvester, K. G., Wang, S. X.  
2015
- **Virtual Pharmacist: A Platform for Pharmacogenomics.** *PloS one*  
Cheng, R., Leung, R. K., Chen, Y., Pan, Y., Tong, Y., Li, Z., Ning, L., Ling, X. B., He, J.  
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- **Development, Validation and Deployment of a Real Time 30 Day Hospital Readmission Risk Assessment Tool in the Maine Healthcare Information Exchange.** *PloS one*  
Hao, S., Wang, Y., Jin, B., Shin, A. Y., Zhu, C., Huang, M., Zheng, L., Luo, J., Hu, Z., Fu, C., Dai, D., Wang, Y., Culver, et al  
2015; 10 (10)
- **A novel urine peptide biomarker-based algorithm for the prognosis of necrotising enterocolitis in human infants.** *Gut*  
Sylvester, K. G., Ling, X. B., Liu, G. Y., Kastenber, Z. J., Ji, J., Hu, Z., Peng, S., Lau, K., Abdullah, F., Brandt, M. L., Ehrenkranz, R. A., Harris, M. C., Lee, et al  
2014; 63 (8): 1284-1292
- **Investigation of maternal environmental exposures in association with self-reported preterm birth.** *Reproductive toxicology*  
Patel, C. J., Yang, T., Hu, Z., Wen, Q., Sung, J., El-Sayed, Y. Y., Cohen, H., Gould, J., Stevenson, D. K., Shaw, G. M., Ling, X. B., Butte, A. J.  
2014; 45: 1-7
- **Urine protein biomarkers for the diagnosis and prognosis of necrotizing enterocolitis in infants.** *journal of pediatrics*  
Sylvester, K. G., Ling, X. B., Liu, G. Y., Kastenber, Z. J., Ji, J., Hu, Z., Wu, S., Peng, S., Abdullah, F., Brandt, M. L., Ehrenkranz, R. A., Harris, M. C., Lee, et al  
2014; 164 (3): 607-12 e1 7
- **Urine protein biomarkers for the diagnosis and prognosis of necrotizing enterocolitis in infants.** *journal of pediatrics*  
Sylvester, K. G., Ling, X. B., Liu, G. Y., Kastenber, Z. J., Ji, J., Hu, Z., Wu, S., Peng, S., Abdullah, F., Brandt, M. L., Ehrenkranz, R. A., Harris, M. C., Lee, et al  
2014; 164 (3): 607-612 e7
- **Risk prediction of emergency department revisit 30 days post discharge: a prospective study.** *PloS one*  
Hao, S., Jin, B., Shin, A. Y., Zhao, Y., Zhu, C., Li, Z., Hu, Z., Fu, C., Ji, J., Wang, Y., Zhao, Y., Dai, D., Culver, et al  
2014; 9 (11)
- **Pilot Application of Magnetic Nanoparticle-Based Biosensor for Necrotizing Enterocolitis** *Journal of Proteomics and Bioinformatics*  
Kim, D., Fu, C., Ling, X. B., Hu, Z., Tao, G., Zhao, Y., Kastenber, Z. J., Sylvester, K. G., Wang, S. X.  
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- **Risk prediction of emergency department revisit 30 days post discharge: a prospective study.** *PloS one*  
Hao, S., Jin, B., Shin, A. Y., Zhao, Y., Zhu, C., Li, Z., Hu, Z., Fu, C., Ji, J., Wang, Y., Zhao, Y., Dai, D., Culver, et al  
2014; 9 (11): e112944
- **CSF protein dynamic driver network: at the crossroads of brain tumorigenesis**  
Fu, C., Tan, Z., Liu, R., Hao, S., Li, Z., Chen, P., Jang, T., Merchant, M., Whitin, J. C., Wang, O., Guo, M., Cohen, H. J., Recht, et al  
IEEE.2014
- **A data-driven algorithm integrating clinical and laboratory features for the diagnosis and prognosis of necrotizing enterocolitis.** *PloS one*  
Ji, J., Ling, X. B., Zhao, Y., Hu, Z., Zheng, X., Xu, Z., Wen, Q., Kastenber, Z. J., Li, P., Abdullah, F., Brandt, M. L., Ehrenkranz, R. A., Harris, et al  
2014; 9 (2)
- **Integrating multiple 'omics' analyses identifies serological protein biomarkers for preeclampsia** *BMC MEDICINE*  
Liu, L. Y., Yang, T., Ji, J., Wen, Q., Morgan, A. A., Jin, B., Chen, G., Lyell, D. J., Stevenson, D. K., Ling, X. B., Butte, A. J.  
2013; 11

- **AKI in Hospitalized Children: Epidemiology and Clinical Associations in a National Cohort.** *Clinical journal of the American Society of Nephrology*  
Sutherland, S. M., Ji, J., Sheikhi, F. H., Widen, E., Tian, L., Alexander, S. R., Ling, X. B.  
2013; 8 (10): 1661-1669
- **Identification of novel biomarkers for early detection of ovarian cancer**  
Szabo, L. A., Khatri, P., Liu, X., Hu, Z., Ling, B., Butte, A. J.  
AMER ASSOC CANCER RESEARCH.2013
- **Peptidomic Identification of Serum Peptides Diagnosing Preeclampsia** *PLOS ONE*  
Wen, Q., Liu, L. Y., Yang, T., Alev, C., Wu, S., Stevenson, D. K., Sheng, G., Butte, A. J., Ling, X. B.  
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- **Integrating multiple 'omics' analyses identifies serological protein biomarkers for preeclampsia.** *BMC medicine*  
Liu, L. Y., Yang, T., Ji, J., Wen, Q., Morgan, A. A., Jin, B., Chen, G., Lyell, D. J., Stevenson, D. K., Ling, X. B., Butte, A. J.  
2013; 11: 236-?
- **Transcriptomics and proteomics ensemble analyses reveal serological protein panel for preeclampsia diagnosis** *33rd Annual Pregnancy Meeting of the Society-for-Maternal-Fetal-Medicine (SMFM)*  
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