



Hanlee P. Ji

Associate Professor of Medicine (Oncology) and, by courtesy, of Electrical Engineering

Medicine - Oncology

CLINICAL OFFICES

- **Medical Oncology**

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ACADEMIC CONTACT INFORMATION

- **Alternate Contact**

Donna Galvez - Administration Ji Research Group

Email drgalvez@stanford.edu

Bio

CLINICAL FOCUS

- Cancer > GI Oncology
- Medical Oncology
- Oncology (Cancer)
- Gastrointestinal Neoplasms
- Inherited Cancer Disorders
- Immunotherapy in gastrointestinal cancers

ACADEMIC APPOINTMENTS

- Associate Professor, Medicine - Oncology
- Member, Bio-X
- Member, Stanford Cancer Institute

ADMINISTRATIVE APPOINTMENTS

- Senior Associate Director, Stanford Genome Technology Center, (2008-2020)

HONORS AND AWARDS

- Physician-Scientist Fellowship Award, Howard Hughes Medical Institute (1998)
- American Association Cancer Research, Scholar-in-Training Award for Research Achievement (2005)
- Merit Award for Research Achievement, American Society Clinical Oncology Foundation (2006)
- Physician Scientist Early Career Award, Howard Hughes Medical Institute (2008)
- Clinical Scientist Development Award, Doris Duke Charitable Foundation (2009)
- Research Scholar Award, American Cancer Society (2013)

PROFESSIONAL EDUCATION

- Residency: University of Iowa Hospitals and Clinics (1996) IA
- Residency: University of Washington Medical Center Dept of Medicine (2001) WA
- Medical Education: Johns Hopkins University School of Medicine (1994) MD
- Fellowship: Stanford University Hospital -Clinical Excellence Research Center (2005) CA
- Board Certification: Medical Oncology, American Board of Internal Medicine (2004)
- B.A., Reed College , Biology
- M.D., Johns Hopkins University , Medicine

LINKS

- DNA Discovery - Ji Research Group: <http://dna-discovery.stanford.edu/>
- Get a Second Opinion: <https://stanfordhealthcare.org/second-opinion/overview.html>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Our research group integrates new molecular technology development, advanced computation methods and genome biology to identify targets for therapy in cancer. We are pursuing projects focused on developing new therapies for stomach, bile duct and colon cancer. We also are involved in study the basis of genomic instability by examining chromosome structure.

Ongoing projects include:

- 1) Immunogenomic approaches to study cancer's interaction with the immune system and improve our understanding of immunotherapy
- 2) Identification of kinase interactions which can improve targeted therapy strategies
- 3) Use of advanced genome sequencing technologies including nanopore sequencers to understand the role of cancer rearrangements in response to therapy
- 4) Identifying genes that increase the risk of developing cancer
- 5) Developing new approaches for monitoring cancer from circulating DNA

We are developing new technologies for data storage using DNA technologies.

CLINICAL TRIALS

- Clinical & Pathological Studies of Upper Gastrointestinal Carcinoma, Recruiting
- The Gastric Cancer Foundation: A Gastric Cancer Registry, Recruiting

Teaching

COURSES

2021-22

- Single Cell Immunogenomics: BIOS 286 (Spr)

2019-20

- Single Cell Immunogenomics: BIOS 286 (Aut)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Thomas Silvers

Postdoctoral Faculty Sponsor

Xiangqi Bai, Tianqi Chen, Jonas Hansen, Heonseok Kim, Sharmili Roy

Doctoral Dissertation Advisor (AC)

Mira Partha

Postdoctoral Research Mentor

Xiangqi Bai, Tianqi Chen, Jonas Hansen, Heonseok Kim, Sharmili Roy

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Biomedical Informatics (Phd Program)
- Cancer Biology (Phd Program)
- Medicine (Masters Program)

Publications

PUBLICATIONS

- **The Gastric Cancer Registry: A Genomic Translational Resource for Multidisciplinary Research in Gastric Cancer.** *Cancer epidemiology, biomarkers & prevention : a publication of the American Association for Cancer Research, cosponsored by the American Society of Preventive Oncology*
Almeda, A. F., Grimes, S. M., Lee, H., Greer, S., Shin, G., McNamara, M., Hooker, A. C., Arce, M. M., Kubit, M., Schauer, M. C., Van Hummelen, P., Ma, C., Mills, et al
2022
- **Germline variants of ATG7 in familial cholangiocarcinoma alter autophagy and p62.** *Scientific reports*
Greer, S. U., Chen, J., Ogmundsdottir, M. H., Ayala, C., Lau, B. T., Delacruz, R. G., Sandoval, I. T., Kristjansdottir, S., Jones, D. A., Haslem, D. S., Romero, R., Fulde, G., Bell, et al
2022; 12 (1): 10333
- **ALTEN: A High-Fidelity Primary Tissue-Engineering Platform to Assess Cellular Responses Ex Vivo.** *Advanced science (Weinheim, Baden-Wuerttemberg, Germany)*
Law, A. M., Chen, J., Colino-Sanguino, Y., Fuente, L. R., Fang, G., Grimes, S. M., Lu, H., Huang, R. J., Boyle, S. T., Venhuizen, J., Castillo, L., Tavakoli, J., Skhinas, et al
2022: e2103332
- **Mucinous Epithelial Cell Secretion Drives Mucinous Ascites Formation in Pseudomyxoma Peritonei Patients**
Ayala, C., Sathe, A., Grimes, S., Zhao, L., Bai, X., Poultsides, G., Lee, B., Ji, H.
SPRINGER.2022: 520-521
- **KmerKeys: a web resource for searching indexed genome assemblies and variants.** *Nucleic acids research*
Pavlichin, D. S., Lee, H., Greer, S. U., Grimes, S. M., Weissman, T., Ji, H. P.
2022
- **The Human Pangenome Project: a global resource to map genomic diversity.** *Nature*
Wang, T., Antonacci-Fulton, L., Howe, K., Lawson, H. A., Lucas, J. K., Phillippy, A. M., Popejoy, A. B., Asri, M., Carson, C., Chaisson, M. J., Chang, X., Cook-Deegan, R., Felsenfeld, et al
2022; 604 (7906): 437-446

- **A deep learning model for molecular label transfer that enables cancer cell identification from histopathology images.** *NPJ precision oncology*
Su, A., Lee, H., Tan, X., Suarez, C. J., Andor, N., Nguyen, Q., Ji, H. P.
2022; 6 (1): 14
- **Analysis of 16S rRNA sequencing in advanced colorectal cancer tissue samples**
An, H., Partha, M. A., Lee, H., Lau, B., Shin, G., Almeda, A., Ji, H. P.
LIPPINCOTT WILLIAMS & WILKINS.2022
- **Single-cell characterization of CRISPR-modified transcript isoforms with nanopore sequencing.** *Genome biology*
Kim, H. S., Grimes, S. M., Hooker, A. C., Lau, B. T., Ji, H. P.
2021; 22 (1): 331
- **Characterization of the consensus mucosal microbiome of colorectal cancer.** *NAR cancer*
Zhao, L., Grimes, S. M., Greer, S. U., Kubit, M., Lee, H., Nadauld, L. D., Ji, H. P.
1800; 3 (4): zcab049
- **Single-Cell Transcriptomic Analysis of a Patient with Metastatic Appendiceal Adenocarcinoma: A Stem or Crypt Cell-Like Neoplasm?**
Ayala, C., Grimes, S. M., Lee, B., Ji, H.
ELSEVIER SCIENCE INC.2021: S240-S241
- **A Predictive Model to Guide Brain MRI Surveillance in Patients With Metastatic Lung Cancer: Impact on Real World Outcomes**
Wu, J., Ding, V., Luo, S., Choi, E., Hellyer, J., Myall, N., Henry, S., Wood, D., Stehr, H., Ji, H., Nagpal, S., Gephart, M., Wakelee, et al
ELSEVIER SCIENCE INC.2021: S1177
- **Profiling diverse sequence tandem repeats in colorectal cancer reveals co-occurrence of microsatellite and chromosomal instability involving Chromosome 8.** *Genome medicine*
Shin, G., Greer, S. U., Hopmans, E., Grimes, S. M., Lee, H., Zhao, L., Miotke, L., Suarez, C., Almeda, A. F., Haraldsdottir, S., Ji, H. P.
2021; 13 (1): 145
- **Patient-derived ex vivo TME-models and single-cell sequencing reveal transcriptional responses to immunotherapy.**
Sathe, A., Chen, J., Grimes, S. M., Ayala, C. I., Poultsides, G., Ji, H. P.
AMER ASSOC CANCER RESEARCH.2021
- **New Approaches to Moderate CRISPR-Cas9 Activity: Addressing Issues of Cellular Uptake and Endosomal Escape.** *Molecular therapy : the journal of the American Society of Gene Therapy*
van Hees, M., Slott, S., Hansen, A. H., Kim, H. S., Ji, H. P., Astakhova, K.
2021
- **Integrative single-cell analysis of allele-specific copy number alterations and chromatin accessibility in cancer.** *Nature biotechnology*
Wu, C., Lau, B. T., Kim, H. S., Sathe, A., Grimes, S. M., Ji, H. P., Zhang, N. R.
2021
- **Profiling SARS-CoV-2 mutation fingerprints that range from the viral pangenome to individual infection quasispecies.** *Genome medicine*
Lau, B. T., Pavlichin, D., Hooker, A. C., Almeda, A., Shin, G., Chen, J., Sahoo, M. K., Huang, C. H., Pinsky, B. A., Lee, H. J., Ji, H. P.
2021; 13 (1): 62
- **An expanded universe of cancer targets.** *Cell*
Hahn, W. C., Bader, J. S., Braun, T. P., Califano, A., Clemons, P. A., Druker, B. J., Ewald, A. J., Fu, H., Jagu, S., Kemp, C. J., Kim, W., Kuo, C. J., McManus, et al
2021; 184 (5): 1142–55
- **Goblet Cell Origins of Human Appendiceal Mucinous Neoplasms and Pseudomyxoma Peritonei Tumors**
Ayala-Navarro, C., Grimes, S., Sathe, A., Bai, X., Poultsides, G., Lee, B., Ji, H.
SPRINGER.2021: S30–S31
- **Single Cell Analysis Can Define Distinct Evolution of Tumor Sites in Follicular Lymphoma.** *Blood*
Haebe, S. E., Shree, T. n., Sathe, A. n., Day, G. n., Czerwinski, D. K., Grimes, S. n., Lee, H. n., Binkley, M. S., Long, S. R., Martin, B. A., Ji, H. P., Levy, R. n.
2021
- **Pepsinogens and Gastrin Demonstrate Low Discrimination for Gastric Precancerous Lesions in a Multi-Ethnic United States Cohort.** *Clinical gastroenterology and hepatology : the official clinical practice journal of the American Gastroenterological Association*

- Huang, R. n., Park, S. n., Shen, J. n., Longacre, T. n., Ji, H. n., Hwang, J. H.
2021
- **Unique k-mer sequences for validating cancer-related substitution, insertion and deletion mutations.** *NAR cancer*
Lee, H., Shuaibi, A., Bell, J. M., Pavlichin, D. S., Ji, H. P.
2020; 2 (4): zcaa034
 - **SPATIAL SINGLE-CELL ANALYSIS OF COLORECTAL CANCER TUMOUR USING MULTIPLEXED IMAGING MASS CYTOMETRY**
Minh Tran, Su, A., Lee, H., Cruz, R., Pflieger, L., Dean, A., Quan Nguyen, Ji, H., Rhodes, T.
BMJ PUBLISHING GROUP.2020: A399
 - **IDENTIFY IMMUNE CELL TYPES AND BIOMARKERS ASSOCIATED WITH IMMUNE-RELATED ADVERSE EVENTS USING SINGLE CELL RNA SEQUENCING**
Chen, J., Pflieger, L., Grimes, S., Baker, T., Brems, M., Fulde, G., Snow, S., Howe, P., Sathe, A., Christensen, B., Ji, H., Rhodes, T.
BMJ PUBLISHING GROUP.2020: A39
 - **The COVID-19 XPRIZE and the need for scalable, fast, and widespread testing.** *Nature biotechnology*
MacKay, M. J., Hooker, A. C., Afshinnikoo, E., Salit, M., Kelly, J., Feldstein, J. V., Haft, N., Schenkel, D., Nambi, S., Cai, Y., Zhang, F., Church, G., Dai, et al
2020
 - **A Summary of the 2020 Gastric Cancer Summit at Stanford University.** *Gastroenterology*
Huang, R. J., Koh, H., Hwang, J. H., Summit Leaders, Abnet, C. C., Alarid-Escudero, F., Amieva, M. R., Bruce, M. G., Camargo, M. C., Chan, A. T., Choi, I. J., Corvalan, A., Davis, J. L., et al
2020
 - **CRISPRpic: fast and precise analysis for CRISPR-induced mutations via prefixed index counting.** *NAR genomics and bioinformatics*
Lee, H., Chang, H. Y., Cho, S. W., Ji, H. P.
2020; 2 (2): lqaa012
 - **Entire landscape of epitopes from all possible missense mutations in human coding sequences.**
Lee, H., Greer, S., Ji, H. P.
AMER ASSOC CANCER RESEARCH.2020: 118–19
 - **Identify biomarkers associated with immunotoxicities using single-cell RNAseq.**
Chen, J., Pflieger, L., Sathe, A., Grimes, S., Brems, M., Pattison, T., Christensen, B., Rhodes, T., Ji, H.
AMER ASSOC CANCER RESEARCH.2020: 32
 - **Comparative Genomic Analysis of High Grade Neuroendocrine Neoplasms across Diverse Organs**
Sun, T. Y., Van Hummelen, P., Martin, B., Xia, C., Zhao, L., Hornbacker, K., Lee, H., Ji, H., Kunz, P.
KARGER.2020: 51
 - **Comprehensive genomic sequencing of high-grade neuroendocrine neoplasms**
Sun, T., Van Hummelen, P., Martin, B., Xia, C., Lee, H., Zhao, L., Hornbacker, K., Ji, H., Kunz, P. L.
AMER SOC CLINICAL ONCOLOGY.2020
 - **Gastric Cancer Registry: A comprehensive patient-reported resource for multidisciplinary and translational genomic approaches to gastric cancer**
Almeda, A., Hooker, A., Lee, H., Mills, M., Van Hummelen, P., Ford, J. M., Ji, H.
AMER SOC CLINICAL ONCOLOGY.2020
 - **Strain-resolved microbiome sequencing reveals mobile elements that drive bacterial competition on a clinical timescale.** *Genome medicine*
Zlitni, S. n., Bishara, A. n., Moss, E. L., Tkachenko, E. n., Kang, J. B., Culver, R. N., Andermann, T. M., Weng, Z. n., Wood, C. n., Handy, C. n., Ji, H. P., Batzoglou, S. n., Bhatt, et al
2020; 12 (1): 50
 - **One Size Does Not Fit All: Marked Heterogeneity in Incidence of and Survival from Gastric Cancer among Asian American Subgroups.** *Cancer epidemiology, biomarkers & prevention : a publication of the American Association for Cancer Research, cosponsored by the American Society of Preventive Oncology*
Huang, R. J., Sharp, N. n., Talamoa, R. O., Ji, H. P., Hwang, J. H., Palaniappan, L. P.
2020

- **Single cell genomic characterization reveals the cellular reprogramming of the gastric tumor microenvironment.** *Clinical cancer research : an official journal of the American Association for Cancer Research*
Sathe, A. n., Grimes, S. M., Lau, B. T., Chen, J. n., Suarez, C. n., Huang, R. J., Poultsides, G. A., Ji, H. P.
2020
- **Joint single cell DNA-seq and RNA-seq of gastric cancer cell lines reveals rules of in vitro evolution.** *NAR genomics and bioinformatics*
Andor, N. n., Lau, B. T., Catalanotti, C. n., Sathe, A. n., Kubit, M. n., Chen, J. n., Blaj, C. n., Cherry, A. n., Bangs, C. D., Grimes, S. M., Suarez, C. J., Ji, H. P.
2020; 2 (2): lqaa016
- **OVERCOMING HIGH NANOPORE BASECALLER ERROR RATES FOR DNA STORAGE VIA BASECALLER-DECODER INTEGRATION AND CONVOLUTIONAL CODES**
Chandak, S., Neu, J., Tatwawadi, K., Mardia, J., Lau, B., Kubit, M., Hulett, R., Griffin, P., Wootters, M., Weissman, T., Ji, H., IEEE
IEEE.2020: 8822–26
- **Whole genome analysis identifies the association of TP53 genomic deletions with lower survival in Stage III colorectal cancer.** *Scientific reports*
Xia, L. C., Van Hummelen, P. n., Kubit, M. n., Lee, H. n., Bell, J. M., Grimes, S. M., Wood-Bouwens, C. n., Greer, S. U., Barker, T. n., Haslem, D. S., Ford, J. M., Fulde, G. n., Ji, et al
2020; 10 (1): 5009
- **Ultra-fast detection and quantification of nucleic acids by amplification-free fluorescence assay.** *The Analyst*
Uhd, J. n., Miotke, L. n., Ji, H. P., Dunaeva, M. n., Pruijn, G. J., Jørgensen, C. D., Kristoffersen, E. L., Birkedal, V. n., Yde, C. W., Nielsen, F. C., Hansen, J. n., Astakhova, K. n.
2020
- **Site to Site Comparison of Follicular Lymphoma Biopsies By Single Cell RNA Sequencing**
Haebe, S., Shree, T., Sathe, A., Day, G., Lee, H., Czerwinski, D. K., Grimes, S., Ji, H., Levy, R.
AMER SOC HEMATOLOGY.2019
- **Dynamic Immune Modulation Seen By Single Cell RNA-Sequencing of Serial Lymphoma Biopsies in Patients Undergoing in Situ Vaccination**
Shree, T., Haebe, S., Sathe, A., Day, G., Lee, H., Czerwinski, D. K., Grimes, S., Ji, H., Levy, R.
AMER SOC HEMATOLOGY.2019
- **Structural variant analysis for linked-read sequencing data with gemtools** *BIOINFORMATICS*
Greer, S. U., Ji, H. P.
2019; 35 (21): 4397–99
- **Single cell RNA sequencing of serial tumor and blood biopsies from lymphoma patients undergoing in situ vaccination**
Shree, T., Sathe, A., Ji, H., Levy, R.
AMER ASSOC CANCER RESEARCH.2019
- **Comprehensive characterization of gastric cancer at single-cell resolution**
Chen, J., Sathe, A., Grimes, S., Greer, S., Lau, B., Renschler, A., Poultsides, G., Suarez, C., Ji, H.
AMER ASSOC CANCER RESEARCH.2019
- **iGRAMMy: Cloud-based characterization of microbial landscape in colorectal cancers**
Xia, L. C., Ai, D., Guo, M., Ji, H.
AMER ASSOC CANCER RESEARCH.2019
- **Single cell RNA sequencing reveals multiple adaptive resistance mechanisms to regorafenib in colon cancer**
Sathe, A., Lau, B. T., Grimes, S., Greer, S., Ji, H.
AMER ASSOC CANCER RESEARCH.2019
- **A functional CRISPR/Cas9 screen identifies kinases that modulate FGFR inhibitor response in gastric cancer** *ONCOGENESIS*
Chen, J., Bell, J., Lau, B. T., Whittaker, T., Stapleton, D., Ji, H. P.
2019; 8
- **Structural variant analysis for linked-read sequencing data with gemtools.** *Bioinformatics (Oxford, England)*
Greer, S. U., Ji, H. P.
2019

- **Single-cell transcriptome analysis identifies distinct cell types and niche signaling in a primary gastric organoid model.** *Scientific reports*
Chen, J., Lau, B. T., Andor, N., Grimes, S. M., Handy, C., Wood-Bouwens, C., Ji, H. P.
2019; 9 (1): 4536
- **Single-cell transcriptome analysis identifies distinct cell types and niche signaling in a primary gastric organoid model** *SCIENTIFIC REPORTS*
Chen, J., Lau, B. T., Andor, N., Grimes, S. M., Handy, C., Wood-Bouwens, C., Ji, H. P.
2019; 9
- **Haplotype-resolved and integrated genome analysis of the cancer cell line HepG2.** *Nucleic acids research*
Zhou, B., Ho, S. S., Greer, S. U., Spies, N., Bell, J. M., Zhang, X., Zhu, X., Arthur, J. G., Byeon, S., Pattni, R., Saha, I., Huang, Y., Song, et al
2019
- **Single-cell RNA-Seq of follicular lymphoma reveals malignant B-cell types and coexpression of T-cell immune checkpoints** *BLOOD*
Andor, N., Simonds, E. F., Czerwinski, D. K., Chen, J., Grimes, S. M., Wood-Bouwens, C., Zheng, G. Y., Kubit, M. A., Greer, S., Weiss, W. A., Levy, R., Ji, H. P.
2019; 133 (10): 1119–29
- **Comprehensive, integrated, and phased whole-genome analysis of the primary ENCODE cell line K562** *GENOME RESEARCH*
Zhou, B., Ho, S. S., Greer, S. U., Zhu, X., Bell, J. M., Arthur, J. G., Spies, N., Zhang, X., Byeon, S., Pattni, R., Ben-Efraim, N., Haney, M. S., Haraksingh, et al
2019; 29 (3): 472–84
- **Comprehensive, integrated, and phased whole-genome analysis of the primary ENCODE cell line K562.** *Genome research*
Zhou, B., Ho, S. S., Greer, S. U., Zhu, X., Bell, J. M., Arthur, J. G., Spies, N., Zhang, X., Byeon, S., Pattni, R., Ben-Efraim, N., Haney, M. S., Haraksingh, et al
2019
- **Targeted short read sequencing and assembly of re-arrangements and candidate gene loci provide megabase diplotypes.** *Nucleic acids research*
Shin, G. n., Greer, S. U., Xia, L. C., Lee, H. n., Zhou, J. n., Boles, T. C., Ji, H. P.
2019
- **Improved read/write cost tradeoff in DNA-based data storage using LDPC codes**
Chandak, S., Tatwawadi, K., Lau, B., Mardia, J., Kubit, M., Neu, J., Griffin, P., Wootters, M., Weissman, T., Ji, H., IEEE
IEEE.2019: 147–56
- **scPred: accurate supervised method for cell-type classification from single-cell RNA-seq data.** *Genome biology*
Alquicira-Hernandez, J. n., Sathe, A. n., Ji, H. P., Nguyen, Q. n., Powell, J. E.
2019; 20 (1): 264
- **Therapeutic Monitoring of Circulating DNA Mutations in Metastatic Cancer with Personalized Digital PCR.** *The Journal of molecular diagnostics : JMD*
Wood-Bouwens, C. M., Haslem, D. n., Moulton, B. n., Almeda, A. F., Lee, H. n., Heestand, G. M., Nadauld, L. D., Ji, H. P.
2019
- **Modeling the Evolution of Ploidy in a Resource Restricted Environment**
Kimmel, G., Barnholtz-Sloan, J., Ji, H., Altrock, P., Andor, N., Bebis, G., Benos, T., Chen, K., Jahn, K., Lima, E.
SPRINGER INTERNATIONAL PUBLISHING AG.2019: 29–34
- **Covalent 'click chemistry'-based attachment of DNA onto solid phase enables iterative molecular analysis.** *Analytical chemistry*
Lau, B. T., Ji, H. P.
2019
- **Single-cell RNA-Seq of lymphoma cancers reveals malignant B cell types and co-expression of T cell immune checkpoints.** *Blood*
Andor, N., Simonds, E. F., Czerwinski, D. K., Chen, J., Grimes, S. M., Wood-Bouwens, C., Zheng, G. X., Kubit, M. A., Greer, S., Weiss, W. A., Levy, R., Ji, H. P.
2018
- **Single Cell RNA Sequencing of Serial Tumor and Blood Biopsies from Lymphoma Patients on an in Situ Vaccination Clinical Trial**
Shree, T., Sathe, A., Czerwinski, D. K., Long, S. R., Ji, H., Levy, R.
AMER SOC HEMATOLOGY.2018
- **Multi-patient Longitudinal Monitoring of Cancer Mutations from Circulating DNA of using Personalized Single Color Digital PCR Assays**
Wood-Bouwens, C. M., Haslem, D., Lau, B. T., Almeda, A., Moulton, B., Romero, R., Nadauld, L., Ji, H. P.
ELSEVIER SCIENCE INC.2018: 1039

- **SVEngine: an efficient and versatile simulator of genome structural variations with features of cancer clonal evolution.** *GigaScience*
Xia, L. C., Ai, D., Lee, H., Andor, N., Li, C., Zhang, N. R., Ji, H. P.
2018
- **SVEngine: an efficient and versatile simulator of genome structural variations with features of cancer clonal evolution** *GIGASCIENCE*
Xia, L., Ai, D., Lee, H., Andor, N., Li, C., Zhang, N. R., Ji, H. P.
2018; 7 (7)
- **Integrated single-cell DNA and RNA analysis of intratumoral heterogeneity and immune lineages in colorectal and gastric tumor biopsies**
Lau, B., Andor, N., Sathe, A., Wood-Bouwens, C., Poultides, G., Ji, H.
AMER ASSOC CANCER RESEARCH.2018
- **Characterization of colorectal liver metastasis at single-cell resolution reveals dynamic interplay in the tumor microenvironment**
Sathe, A., Chen, J., Wood-Bouwens, C., Almeda, A., Lau, B., Grimes, S. M., Poultides, G. A., Ji, H.
AMER ASSOC CANCER RESEARCH.2018
- **Chromosome-scale haplotyping enables comprehensive discovery of cancer rearrangements and germline-related susceptibility mutations**
Greer, S. U., Lau, B. T., Nadauld, L. D., Ji, H. P.
AMER ASSOC CANCER RESEARCH.2018
- **Highly sensitive digital detection of circulating DNA cancer mutations using synthetic genome standards**
Wood-Bouwens, C. M., St Onge, R. P., Ji, H. P.
AMER ASSOC CANCER RESEARCH.2018
- **Linked read whole genome sequencing reveals pervasive chromosomal level instability and novel rearrangements in brain metastases from colorectal cancer**
Xia, L. C., Bell, J. M., Wood-Bouwens, C., King, D. A., Shin, G., Greer, S., Connolly, I. D., Gephart, M. H., Ji, H. P.
AMER ASSOC CANCER RESEARCH.2018
- **Improved detection and identification of microsatellite instability features in colorectal cancer: Implications for immunotherapy**
Shin, G., Lee, H., Grimes, S. M., Kubit, M. A., Ji, H. P.
AMER ASSOC CANCER RESEARCH.2018
- **High-quality CNV segments from low-coverage whole genome sequencing from FFPE cancer biopsies based on an evaluation of multiple CNV tools**
Lee, H., Xia, L., Greer, S., Bell, J., Grimes, S. M., Bouwens, C., Shin, G., Lau, B. C., Johnson, L., Andor, N., Day, K., Miller, M., Escobar, et al
AMER ASSOC CANCER RESEARCH.2018
- **Mapping the comprehensive landscape of missense-mutation neoantigens across the human genome**
Lee, H., Greer, S. U., Ji, H. P.
AMER ASSOC CANCER RESEARCH.2018
- **Loss of TP53 as a prognostic biomarker of poor survival in stage III colorectal cancer patients.**
Nadauld, L., Van Hummelen, P., Xia, L., Day, K., Lee, H., Bell, J., Grimes, S. M., Kubit, M., Miller, M., Shin, G., Wood, C., Greer, S., Escobar, et al
AMER SOC CLINICAL ONCOLOGY.2018
- **Identification of large rearrangements in cancer genomes with barcode linked reads.** *Nucleic acids research*
Xia, L. C., Bell, J. M., Wood-Bouwens, C. n., Chen, J. J., Zhang, N. R., Ji, H. P.
2018; 46 (4): e19
- **Single Color Multiplexed ddPCR Copy Number Measurements and Single Nucleotide Variant Genotyping** *DIGITAL PCR: METHODS AND PROTOCOLS*
Wood-Bouwens, C. M., Ji, H. P., KarlinNeumann, G., Bizouarn, F.
2018; 1768: 323–33
- **Robust Multiplexed Clustering and Denoising of Digital PCR Assays by Data Gridding** *ANALYTICAL CHEMISTRY*
Lau, B. T., Wood-Bouwens, C., Ji, H. P.
2017; 89 (22): 11913–17
- **Chromosome-scale mega-haplotypes enable digital karyotyping of cancer aneuploidy** *NUCLEIC ACIDS RESEARCH*
Bell, J. M., Lau, B. T., Greer, S. U., Wood-Bouwens, C., Xia, L. C., Connolly, I. D., Gephart, M. H., Ji, H. P.
2017; 45 (19): e162

- **High Performance Detection of Cancer Mutations from Circulating DNA Using Single Color Digital PCR**
Lau, B. T., Handy, C. M., Lee, H., Wood-Bouwens, C. M., Ji, H. P.
ELSEVIER SCIENCE INC.2017: 1064
- **Single molecule counting and assessment of random molecular tagging errors with transposable giga-scale error-correcting barcodes** *BMC GENOMICS*
Lau, B. T., Ji, H. P.
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