



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**

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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
- Associate Professor (By courtesy), Electrical Engineering
- Member, Bio-X
- Member, Stanford Cancer Institute

ADMINISTRATIVE APPOINTMENTS

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

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

2019-20

- Single Cell Immunogenomics: BIOS 286 (Aut)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Shubham Chandak, Thomas Silvers

Postdoctoral Faculty Sponsor

Xiangqi Bai, Heonseok Kim, Sharmili Roy, Anuja Sathe, Lan Zhao

Postdoctoral Research Mentor

Xiangqi Bai, Heonseok Kim, Sharmili Roy, Anuja Sathe, Lan Zhao

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

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

Publications

PUBLICATIONS

- **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): 1qaa012
- **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., Bishara, A., Moss, E. L., Tkachenko, E., Kang, J. B., Culver, R. N., Andermann, T. M., Weng, Z., Wood, C., Handy, C., Ji, H. P., Batzoglou, S., 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., 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., Grimes, S. M., Lau, B. T., Chen, J., Suarez, C., 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., Lau, B. T., Catalanotti, C., Sathe, A., Kubit, M., Chen, J., Blaj, C., Cherry, A., Bangs, C. D., Grimes, S. M., Suarez, C. J., Ji, H. P.
2020; 2 (2): lqaa016
 - **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., Kubit, M., Lee, H., Bell, J. M., Grimes, S. M., Wood-Bouwens, C., Greer, S. U., Barker, T., Haslem, D. S., Ford, J. M., Fulde, G., Ji, et al
2020; 10 (1): 5009
 - **Ultra-fast detection and quantification of nucleic acids by amplification-free fluorescence assay.** *The Analyst*
Uhd, J., Miotke, L., Ji, H. P., Dunaeva, M., Pruijn, G. J., Jørgensen, C. D., Kristoffersen, E. L., Birkedal, V., Yde, C. W., Nielsen, F. C., Hansen, J., Astakhova, K.
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
 - **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., Greer, S. U., Xia, L. C., Lee, H., Zhou, J., 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., Sathe, A., Ji, H. P., Nguyen, Q., 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., Moulton, B., Almeda, A. F., Lee, H., Heestand, G. M., Nadauld, L. D., Ji, H. P.
2019
 - **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., 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.

2017; 18: 745

- **Genomic Instability in Cancer: Teetering on the Limit of Tolerance** *CANCER RESEARCH*
Andor, N., Maley, C. C., Ji, H. P.
2017; 77 (9): 2179-2185
- **Tandem Oligonucleotide Probe Annealing and Elongation To Discriminate Viral Sequence** *ANALYTICAL CHEMISTRY*
Taskova, M., Uhd, J., Miotke, L., Kubit, M., Bell, J., Ji, H. P., Astakhova, K.
2017; 89 (8): 4363-4366
- **CRISPR-Cas9-targeted fragmentation and selective sequencing enable massively parallel microsatellite analysis** *NATURE COMMUNICATIONS*
Shin, G., Grimes, S. M., Lee, H., Lau, B. T., Xia, L. C., Ji, H. P.
2017; 8
- **Linked read sequencing resolves complex genomic rearrangements in gastric cancer metastases.** *Genome medicine*
Greer, S. U., Nadauld, L. D., Lau, B. T., Chen, J., Wood-Bouwens, C., Ford, J. M., Kuo, C. J., Ji, H. P.
2017; 9 (1): 57
- **Precision Oncology Strategy in Trastuzumab-Resistant Human Epidermal Growth Factor Receptor 2-Positive Colon Cancer: Case Report of Durable Response to Ado-Trastuzumab Emtansine.** *JCO precision oncology*
Haslem, D. S., Ji, H. P., Ford, J. M., Nadauld, L. D.
2017; 1
- **Precision Oncology Strategy in Trastuzumab-Resistant Human Epidermal Growth Factor Receptor 2-Positive Colon Cancer: Case Report of Durable Response to Ado-Trastuzumab Emtansine** *JCO PRECISION ONCOLOGY*
Haslem, D. S., Ji, H. P., Ford, J. M., Nadauld, L. D.
2017; 1
- **Single-Color Digital PCR Provides High-Performance Detection of Cancer Mutations from Circulating DNA.** *The Journal of molecular diagnostics : JMD*
Wood-Bouwens, C., Lau, B. T., Handy, C. M., Lee, H., Ji, H. P.
2017; 19 (5): 697-710
- **Intestinal Enteroendocrine Lineage Cells Possess Homeostatic and Injury-Inducible Stem Cell Activity** *Cell Stem Cell*
Yan, K., Gevaert, O., Zheng, G., Anchang, B., Probert, C., et al
2017; 21 (1): 78 - 90.e6
- **Intestinal Enteroendocrine Lineage Cells Possess Homeostatic and Injury-Inducible Stem Cell Activity.** *Cell stem cell*
Yan, K. S., Gevaert, O., Zheng, G. X., Anchang, B., Probert, C. S., Larkin, K. A., Davies, P. S., Cheng, Z. F., Kaddis, J. S., Han, A., Roelf, K., Calderon, R. I., Cynn, et al
2017; 21 (1): 78-90.e6
- **Massively Parallel Single Cell RNA-Seq of Primary Lymphomas Reveals Distinct Cellular Lineages and Diverse, Intratumoral Transcriptional States**
Andor, N., Simonds, E., Chen, J., Grimes, S., Wood, C., Czerwinski, D. K., Handy, C., Levy, R., Ji, H. P.
AMER SOC HEMATOLOGY.2016
- **A genome-wide approach for detecting novel insertion-deletion variants of mid-range size.** *Nucleic acids research*
Xia, L. C., Sakshuwong, S., Hopmans, E. S., Bell, J. M., Grimes, S. M., Siegmund, D. O., Ji, H. P., Zhang, N. R.
2016; 44 (15)
- **Haplotyping germline and cancer genomes with high-throughput linked-read sequencing.** *Nature biotechnology*
Zheng, G. X., Lau, B. T., Schnall-Levin, M., Jarosz, M., Bell, J. M., Hindson, C. M., Kyriazopoulou-Panagiotopoulou, S., Masquelier, D. A., Merrill, L., Terry, J. M., Mudivarti, P. A., Wyatt, P. W., Bharadwaj, et al
2016; 34 (3): 303-311
- **Pan-cancer analysis of the extent and consequences of intratumor heterogeneity.** *Nature medicine*
Andor, N., Graham, T. A., Jansen, M., Xia, L. C., Aktipis, C. A., Petritsch, C., Ji, H. P., Maley, C. C.
2016; 22 (1): 105-113
- **Pan-cancer analysis of the etiology and consequences of intra-tumor heterogeneity**
Andor, N., Graham, T. A., Petritsch, C., Ji, H. P., Maley, C. C.
AMER ASSOC CANCER RESEARCH.2015

- **Pan-cancer analysis of the etiology and consequences of intratumor heterogeneity**
Andor, N., Graham, T. A., Petritsch, C., Ji, H. P., Maley, C. C.
AMER ASSOC CANCER RESEARCH.2015
- **The Cancer Genome Atlas Clinical Explorer: a web and mobile interface for identifying clinical-genomic driver associations** *GENOME MEDICINE*
Lee, H., Palm, J., Grimes, S. M., Ji, H. P.
2015; 7
- **Enzyme-Free Detection of Mutations in Cancer DNA Using Synthetic Oligonucleotide Probes and Fluorescence Microscopy** *PLOS ONE*
Miotke, L., Maity, A., Ji, H., Brewer, J., Astakhova, K.
2015; 10 (8)
- **A new multiple feature approach for rapid and highly accurate somatic structural variation discovery from whole cancer genome sequencing**
Xia, L. C., Bell, J., Chen, J., Zhang, N. R., Ji, H. P.
AMER ASSOC CANCER RESEARCH.2015
- **Identification of novel tumor suppressor candidates and characterizing their potential driver role in familial cholangiocarcinoma**
Greer, S., Nadauld, L. D., Lau, B., Miotke, L., Hopmans, E., Wood, C. M., Bell, J. M., Ji, H. P.
AMER ASSOC CANCER RESEARCH.2015
- **Megabase-scale phased haplotypes of genetic aberrations from whole cancer genome sequencing of primary colorectal tumors**
Lau, B., Bell, J. M., Schnall-Levin, M., Jarosz, M., Hopmans, E., Wood, C. M., Zheng, G. X., Giorda, K., Ji, H. P.
AMER ASSOC CANCER RESEARCH.2015
- **Clonal structure analysis of cancer genomes at single molecule resolution**
Lau, B., Ji, H.
AMER ASSOC CANCER RESEARCH.2015
- **Pan-cancer analysis of the causes and consequences of Intra-tumor heterogeneity**
Andor, N., Graham, T. A., Aktipis, A. C., Petritsch, C., Ji, H. P., Maley, C. C.
AMER ASSOC CANCER RESEARCH.2015
- **Allele-specific copy number profiling by next-generation DNA sequencing.** *Nucleic acids research*
Chen, H., Bell, J. M., Zavala, N. A., Ji, H. P., Zhang, N. R.
2015; 43 (4)
- **Enzyme-Free Detection of Mutations in Cancer DNA Using Synthetic Oligonucleotide Probes and Fluorescence Microscopy.** *PLoS one*
Miotke, L., Maity, A., Ji, H., Brewer, J., Astakhova, K.
2015; 10 (8)
- **Emergence of Hemagglutinin Mutations During the Course of Influenza Infection.** *Scientific reports*
Cushing, A., Kamali, A., Winters, M., Hopmans, E. S., Bell, J. M., Grimes, S. M., Xia, L. C., Zhang, N. R., Moss, R. B., Holodniy, M., Ji, H. P.
2015; 5: 16178-?
- **The Cancer Genome Atlas Clinical Explorer: a web and mobile interface for identifying clinical-genomic driver associations.** *Genome medicine*
Lee, H., Palm, J., Grimes, S. M., Ji, H. P.
2015; 7 (1): 112-?
- **Single-Color, Multiplexed, Droplet Digital PCR Analysis of the Clinical Significance of Hemizygous Loss of WRN Gene in Colorectal Cancer**
Lee, H., Lau, B., Zavala, N. A., Ji, H. P.
ELSEVIER SCIENCE INC.2014: 768
- **A robust and rapid targeted sequencing technology for iterative multiple genomic features in cancer**
Lau, B., Cushing, A., Ji, H.
AMER ASSOC CANCER RESEARCH.2014
- **Highly sensitive and specific digital quantification of cancer genetic aberrations**
Miotke, L. K., Lau, B., Rumma, R., Ji, H.
AMER ASSOC CANCER RESEARCH.2014

- **Oncogenic transformation of diverse gastrointestinal tissues in primary organoid culture** *NATURE MEDICINE*
Li, X., Nadauld, L., Ootani, A., Corney, D. C., Pai, R. K., Gevaert, O., Cantrell, M. A., Rack, P. G., Neal, J. T., Chan, C. W., Yeung, T., Gong, X., Yuan, et al
2014; 20 (7): 769-777
- **A programmable method for massively parallel targeted sequencing.** *Nucleic acids research*
Hopmans, E. S., Natsoulis, G., Bell, J. M., Grimes, S. M., Sieh, W., Ji, H. P.
2014; 42 (10)
- **High sensitivity detection and quantitation of DNA copy number and single nucleotide variants with single color droplet digital PCR.** *Analytical chemistry*
Miotke, L., Lau, B. T., Rumma, R. T., Ji, H. P.
2014; 86 (5): 2618-2624
- **A phase II study of capecitabine, carboplatin, and bevacizumab for metastatic or unresectable gastroesophageal junction and gastric adenocarcinoma.**
Kunz, P. L., Nandoskar, P., Koontz, M., Ji, H., Ford, J. M., Balise, R. R., Kamaya, A., Rubin, D., Fisher, G. A.
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