



Hanlee P. Ji

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

CLINICAL OFFICE (PRIMARY)

- **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

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

ADMINISTRATIVE APPOINTMENTS

- Department of Medicine Team Science Division Representative, Department of Medicine, Stanford University, (2022- present)
- 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

- Fellowship: Stanford University Division of Oncology (2005) CA
- Board Certification: Medical Oncology, American Board of Internal Medicine (2004)
- Residency: University of Iowa Hospitals and Clinics (1996) IA
- Medical Education: Johns Hopkins University School of Medicine (1994) MD
- 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

2024-25

- Translational Genomics Methods: MED 212C (Spr)

2023-24

- MTRAM Translational Technologies (TR): Translational genomics: MED 212C (Spr)

2022-23

- MTRAM Translational Technologies (TR): Translational genomics: MED 212C (Spr)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Youlim Kim

Postdoctoral Faculty Sponsor

Xiangqi Bai, Junha Cha, Tianqi Chen, Ji In Kang, Dongin Lee, KyungTae Lee, Jason Liu, Vikas Peddu, Huiyun Sun, Ignacio Wichmann Perez

Postdoctoral Research Mentor

Xiangqi Bai, Tianqi Chen

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Biomedical Data Science (Phd Program)
- Cancer Biology (Phd Program)
- Medicine (Masters Program)

Publications

PUBLICATIONS

- **The single-cell spatial landscape of stage III colorectal cancers.** *NPJ precision oncology*
Su, A., Lee, H., Tran, M., Dela Cruz, R. C., Sathe, A., Bai, X., Wichmann, I., Pflieger, L., Moulton, B., Barker, T., Haslem, D., Jones, D., Nadauld, et al
2025; 9 (1): 101
- **A spatial transcriptomic signature of 26 genes resolved at single-cell resolution characterizes high-risk gastric cancer precursors.** *NPJ precision oncology*
Huang, R. J., Wichmann, I. A., Su, A., Sathe, A., Shum, M. V., Grimes, S. M., Meka, R., Almeda, A., Bai, X., Shen, J., Nguyen, Q., Luo, I., Han, et al
2025; 9 (1): 52
- **Distinct gene signatures define the epithelial cell features of mucinous appendiceal neoplasms and pseudomyxoma metastases.** *Frontiers in genetics*
Ayala, C., Sathe, A., Bai, X., Grimes, S. M., Shen, J., Poultides, G. A., Lee, B., Ji, H. P.
2025; 16: 1536982
- **The Gastric Cancer Registry: A multi-omic cellular and molecular resource for cancer biomarker and therapeutic discovery.**
Ji, H. P., Meka, R., Perez, I., Grimes, S. M., Lee, H., Wang, Y., Sathe, A.
LIPPINCOTT WILLIAMS & WILKINS.2025: 491
- **A phase I clinical trial adding OX40 agonism to in situ therapeutic cancer vaccination in patients with low-grade B cell lymphoma highlights challenges in translation from mouse to human studies.** *Clinical cancer research : an official journal of the American Association for Cancer Research*
Shree, T., Czerwinski, D., Haebe, S., Sathe, A., Grimes, S., Martin, B., Ozawa, M., Hoppe, R., Ji, H., Levy, R.
2025
- **Altered chromatin landscape and 3D interactions associated with primary constitutional MLH1 epimutations.** *Clinical epigenetics*
Climent-Cantó, P., Subirana-Granés, M., Ramos-Rodríguez, M., Dámaso, E., Marín, F., Vara, C., Pérez-González, B., Raurell, H., Munté, E., Soto, J. L., Alonso, Á., Shin, G., Ji, et al
2024; 16 (1): 193

- **The single-cell spatial landscape of stage III colorectal cancers.** *bioRxiv : the preprint server for biology*
Su, A., Lee, H., Tran, M., Cruz, R. D., Sathe, A., Bai, X., Wichmann, I., Pflieger, L., Moulton, B., Barker, T., Haslem, D., Jones, D., Nadauld, et al
2024
- **Brain metastases from esophageal cancer: A retrospective review from a single institution.** *World neurosurgery*
Touponse, G. C., Li, G., Tai, J. W., Rodrigues, A. J., Granucci, M., Burnside, G., Bhambhani, H. P., Han, S. S., Ji, H. P., Gephart, M. H.
2024
- **Resolving the 22q11.2 deletion using CTLR-Seq reveals chromosomal rearrangement mechanisms and individual variance in breakpoints.** *Proceedings of the National Academy of Sciences of the United States of America*
Zhou, B., Purmann, C., Guo, H., Shin, G., Huang, Y., Pattni, R., Meng, Q., Greer, S. U., Roychowdhury, T., Wood, R. N., Ho, M., Dohna, H. Z., Ayzov, et al
2024; 121 (31): e2322834121
- **Single cell transcriptomic analysis reveals differences between primary appendiceal tumors**
Ayala, C. I., Sathe, A., Bai, X., Grimes, S., Lee, B., Ji, H. P.
SPRINGER.2024: S230
- **Niche-DE: niche-differential gene expression analysis in spatial transcriptomics data identifies context-dependent cell-cell interactions.** *Genome biology*
Mason, K., Sathe, A., Hess, P. R., Rong, J., Wu, C. Y., Furth, E., Susztak, K., Levinsohn, J., Ji, H. P., Zhang, N.
2024; 25 (1): 14
- **Detection and analysis of complex structural variation in human genomes across populations and in brains of donors with psychiatric disorders** *Cell*
Zhou, B., Arthur, J. G., Guo, H., et al
2024; Published online September 30, 2024
- **GITR and TIGIT immunotherapy provokes divergent multicellular responses in the tumor microenvironment of gastrointestinal cancers.** *Genome medicine*
Sathe, A., Ayala, C., Bai, X., Grimes, S. M., Lee, B., Kin, C., Shelton, A., Poultsides, G., Ji, H. P.
2023; 15 (1): 100
- **A clinical trial of therapeutic vaccination in lymphoma with serial tumor sampling and single cell analysis.** *Blood advances*
Shree, T., Haebe, S. E., Czerwinski, D. K., Eckhert, E., Day, G., Sathe, A., Grimes, S. M., Frank, M. J., Maeda, L., Alizadeh, A. A., Advani, R. H., Hoppe, R. T., Long, et al
2023
- **Co-Occurrence of Clonally Related Follicular Lymphoma and Histiocytic Sarcoma**
Haebe, S., Czerwinski, D. K., Sathe, A., Grimes, S., Chen, T., Martin, B., Ji, H., Levy, R., Shree, T.
AMER SOC HEMATOLOGY.2023
- **A spatially mapped gene expression signature for intestinal stem-like cells identifies high-risk precursors of gastric cancer.** *bioRxiv : the preprint server for biology*
Huang, R. J., Wichmann, I. A., Su, A., Sathe, A., Shum, M. V., Grimes, S. M., Meka, R., Almeda, A., Bai, X., Shen, J., Nguyen, Q., Amieva, M. R., Hwang, et al
2023
- **Direct measurement of engineered cancer mutations and their transcriptional phenotypes in single cells.** *Nature biotechnology*
Kim, H. S., Grimes, S. M., Chen, T., Sathe, A., Lau, B. T., Hwang, G. H., Bae, S., Ji, H. P.
2023
- **Follicular lymphoma evolves with a surmountable dependency on acquired glycosylation motifs in the B cell receptor.** *Blood*
Haebe, S. E., Day, G., Czerwinski, D. K., Sathe, A., Grimes, S. M., Chen, T., Long, S. R., Martin, B. A., Ozawa, M. G., Ji, H. P., Shree, T., Levy, R.
2023
- **Single-cell multi-gene identification of somatic mutations and gene rearrangements in cancer.** *NAR cancer*
Grimes, S. M., Kim, H. S., Roy, S., Sathe, A., Ayala, C. I., Bai, X., Almeda-Notestine, A. F., Haebe, S., Shree, T., Levy, R., Lau, B. T., Ji, H. P.
2023; 5 (3): zcad034
- **Pan-conserved segment tags identify ultra-conserved sequences across assemblies in the human pangenome.** *Cell reports methods*

- Lee, H., Greer, S. U., Pavlichin, D. S., Zhou, B., Urban, A. E., Weissman, T., Ji, H. P.
2023; 3 (8): 100543
- **Transitioning single-cell genomics into the clinic.** *Nature reviews. Genetics*
Lim, J., Chin, V., Fairfax, K., Moutinho, C., Suan, D., Ji, H., Powell, J. E.
2023
 - **Magnetic DNA random access memory with nanopore readouts and exponentially-scaled combinatorial addressing.** *Scientific reports*
Lau, B., Chandak, S., Roy, S., Tatwawadi, K., Wootters, M., Weissman, T., Ji, H. P.
2023; 13 (1): 8514
 - **Short Tandem Repeat DNA Profiling Using Perylene-Oligonucleotide Fluorescence Assay.** *Analytical chemistry*
Hernandez Bustos, A., Martiny, E., Bom Pedersen, N., Parvathaneni, R. P., Hansen, J., Ji, H. P., Astakhova, K.
2023
 - **Pangenome graph construction from genome alignments with Minigraph-Cactus** *NATURE BIOTECHNOLOGY*
Hickey, G., Monlong, J., Ebler, J., Novak, A. M., Eizenga, J. M., Gao, Y., Marschall, T., Li, H., Paten, B., Abel, H. J., Antonacci-Fulton, L. L., Asri, M., Baid, et al
2023
 - **Single-molecule methylation profiles of cell-free DNA in cancer with nanopore sequencing.** *Genome medicine*
Lau, B. T., Almeda, A., Schauer, M., McNamara, M., Bai, X., Meng, Q., Partha, M., Grimes, S. M., Lee, H., Heestand, G. M., Ji, H. P.
2023; 15 (1): 33
 - **A draft human pangenome reference.** *Nature*
Liao, W. W., Asri, M., Ebler, J., Doerr, D., Haukness, M., Hickey, G., Lu, S., Lucas, J. K., Monlong, J., Abel, H. J., Buonaiuto, S., Chang, X. H., Cheng, et al
2023; 617 (7960): 312-324
 - **Single cell and spatial alternative splicing analysis with long read sequencing.** *Research square*
Fu, Y., Kim, H., Adams, J. I., Grimes, S. M., Huang, S., Lau, B. T., Sathe, A., Hess, P., Ji, H. P., Zhang, N. R.
2023
 - **GITR and TIGIT immunotherapy provokes divergent multi-cellular responses in the tumor microenvironment of gastrointestinal cancers.** *bioRxiv : the preprint server for biology*
Sathe, A., Ayala, C., Bai, X., Grimes, S. M., Lee, B., Kin, C., Shelton, A., Poultides, G., Ji, H. P.
2023
 - **Single Cell Transcriptomic Analysis of Human Extra- and Intra-Hepatic Cholangiocarcinoma**
Ayala, C. I., Sathe, A., Grimes, S., Bae, X., Dua, M., Poultides, G., Visser, B., Ji, H.
SPRINGER.2023: S177-S178
 - **The Gastric Cancer Registry Genome Explorer: A tool for genomic discovery.**
Almeda, A., Grimes, S. M., Shin, G., Lee, H., Wichmann, I., Greer, S., Ji, H. P.
LIPPINCOTT WILLIAMS & WILKINS.2023: 434
 - **Tumor-associated microbiome features of metastatic colorectal cancer and clinical implications.** *Frontiers in oncology*
An, H. J., Partha, M. A., Lee, H., Lau, B. T., Pavlichin, D. S., Almeda, A., Hooker, A. C., Shin, G., Ji, H. P.
2023; 13: 1310054
 - **Large Cancer Pedigree Involving Multiple Cancer Genes including Likely Digenic MSH2 and MSH6 Lynch Syndrome (LS) and an Instance of Recombinational Rescue from LS.** *Cancers*
Vogelaar, I. P., Greer, S., Wang, F., Shin, G., Lau, B., Hu, Y., Haraldsdottir, S., Alvarez, R., Hazelett, D., Nguyen, P., Aguirre, F. P., Guindi, M., Hendifar, et al
2022; 15 (1)
 - **Activating Immune Effectors and Dampening Immune Suppressors Generates Successful Therapeutic Cancer Vaccination in Patients with Lymphoma**
Shree, T., Haebe, S., Czerwinski, D. K., Eckhert, E., Day, G., Sathe, A., Grimes, S. M., Frank, M. J., Maeda, L. S., Alizadeh, A. A., Advani, R. H., Hoppe, R., Long, et al
AMER SOC HEMATOLOGY.2022: 6450-6451

- **Prevalence of Acquired N-Glycosylation Sites at the Single Cell Level in Follicular Lymphoma**
Haebe, S., Shree, T., Day, G., Czerwinski, D. K., Sathe, A., Grimes, S. M., Long, S. R., Martin, B., Ozawa, M. G., Ji, H. P., Levy, R.
AMER SOC HEMATOLOGY.2022: 9211-9212
- **Colorectal cancer metastases in the liver establish immunosuppressive spatial networking between tumor associated SPP1+ macrophages and fibroblasts.** *Clinical cancer research : an official journal of the American Association for Cancer Research*
Sathe, A., Mason, K., Grimes, S. M., Zhou, Z., Lau, B. T., Bai, X., Su, A., Tan, X., Lee, H., Suarez, C. J., Nguyen, Q., Poultides, G., Zhang, et al
2022
- **RESOLVING THE EXACT BREAKPOINTS AND SEQUENCE REARRANGEMENTS OF LARGE NEUROPSYCHIATRIC COPY NUMBER VARIATIONS (CNVS) AT SINGLE BASE-PAIR RESOLUTION USING CRISPR-TARGETED ULTRALONG READ SEQUENCING (CTRL-SEQ)**
Zhou, B., Shin, G., Vervoort, L., Greer, S., Huang, Y., Roychowdhury, T., Pattni, R., Abyzov, A., Vermeesch, J., Ji, H., Urban, A.
ELSEVIER.2022: E88-E89
- **Predictive Model to Guide Brain Magnetic Resonance Imaging Surveillance in Patients With Metastatic Lung Cancer: Impact on Real-World Outcomes.** *JCO precision oncology*
Wu, J., Ding, V., Luo, S., Choi, E., Hellyer, J., Myall, N., Henry, S., Wood, D., Stehr, H., Ji, H., Nagpal, S., Hayden Gephart, M., Wakelee, et al
2022; 6: e2200220
- **Exploratory genomic analysis of high grade neuroendocrine neoplasms across diverse primary sites.** *Endocrine-related cancer*
Sun, T. Y., Zhao, L., Van Hummelen, P., Martin, B., Hornbacker, K., Lee, H., Xia, L. C., Padda, S. K., Ji, H. P., Kunz, P.
2022
- **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
- **Reconstructing the spatial evolution of cancer through subclone detection on copy number profiles in tumor sequencing data.**
Wu, C., Hess, P. R., Sathe, A., Rong, J., Lau, B. T., Grimes, S. M., Ji, H. P., Zhang, N. R.
AMER ASSOC CANCER RESEARCH.2022
- **A single-cell solution for solid tumors to detect mutations and quantify copy number variations.**
Wu, C., Hess, P. R., Sathe, A., Rong, J., Lau, B. T., Grimes, S. M., Ji, H. P., Zhang, N. R.
AMER ASSOC CANCER RESEARCH.2022
- **Reconstructing the spatial evolution of cancer through subclone detection on copy number profiles in tumor sequencing data**
Wu, C., Hess, P. R., Sathe, A., Rong, J., Lau, B. T., Grimes, S. M., Ji, H. P., Zhang, N. R.
AMER ASSOC CANCER RESEARCH.2022
- **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., Poultides, 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
- **In Situ Vaccination Induces Changes in Follicular Lymphoma Tumor Cells That Correlate with Abscopal Clinical Regressions**
Haebe, S., Shree, T., Day, G., Sathe, A., Czerwinski, D. K., Grimes, S. M., Long, S. R., Martin, B., Hoppe, R., Ji, H. P., Levy, R.
AMER SOC HEMATOLOGY.2021
- **Therapeutic and Immunologic Responses Elicited By in Situ Vaccination with CpG, Ibrutinib, and Low-Dose Radiation**
Shree, T., Haebe, S., Czerwinski, D. K., Day, G., Sathe, A., Khodadoust, M. S., Frank, M. J., Beygi, S., Hoppe, R., Long, S. R., Martin, B., Ji, H. P., Levy, et al
AMER SOC HEMATOLOGY.2021
- **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., Afshinnkoo, 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**
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