

Stanford

Andrew Gentles

Assistant Professor (Research) of Pathology, of Medicine (BMIR) and, by courtesy, of Biomedical Data Science

Bio

BIO

BSc (Hons) Physics, University of Manchester, UK

PhD Theoretical particle physics, University of Southampton, UK

ACADEMIC APPOINTMENTS

- Assistant Professor (Research), Pathology
- Assistant Professor (Research), Medicine - Biomedical Informatics Research
- Assistant Professor (Research) (By courtesy), Biomedical Data Science
- Member, Bio-X
- Member, Cardiovascular Institute
- Member, Stanford Cancer Institute
- Member, Wu Tsai Neurosciences Institute

LINKS

- Google scholar: https://scholar.google.com/citations?user=6JO_L6wAAAAJ&hl=en
- Lab website: <http://ajglab.org>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Computational systems biology

Teaching

COURSES

2023-24

- Machine Learning Approaches for Data Fusion in Biomedicine: BIODS 221, BIOMEDIN 221 (Aut)

2022-23

- Machine Learning Approaches for Data Fusion in Biomedicine: BIODS 221, BIOMEDIN 221 (Aut)

2021-22

- Essential Methods in Computational and Systems Immunology: IMMUNOL 207 (Spr)
- Machine Learning Approaches for Data Fusion in Biomedicine: BIODS 221, BIOMEDIN 221 (Aut)

2020-21

- Essential Methods in Computational and Systems Immunology: IMMUNOL 207 (Spr)
- Machine Learning Approaches for Data Fusion in Biomedicine: BIOMEDIN 221 (Aut)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Vandon Duong

Postdoctoral Faculty Sponsor

Ruohan Wang

Doctoral Dissertation Co-Advisor (AC)

Asiri Ediriwickrema, Emma Heaton, Ilayda Ilerten

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

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

Publications

PUBLICATIONS

- **Mutation order in acute myeloid leukemia identifies uncommon patterns of evolution and illuminates phenotypic heterogeneity.** *Leukemia*
Schwede, M., Jahn, K., Kuipers, J., Miles, L. A., Bowman, R. L., Robinson, T., Furudate, K., Uryu, H., Tanaka, T., Sasaki, Y., Ediriwickrema, A., Benard, B., Gentles, et al
2024
- **Single Cell Spatial Biology for Precision Cancer Medicine.** *Pacific Symposium on Biocomputing. Pacific Symposium on Biocomputing*
Gentles, A. J., Nirmal, A. J., Heiser, L. M., Lundberg, E., Newman, A. M.
2023; 28: 549-553
- **Loss of p53-DREAM-mediated repression of cell cycle genes as a driver of lymph node metastasis in head and neck cancer.** *Genome medicine*
Brennan, K., Espin-Perez, A., Chang, S., Bedi, N., Saumyaa, S., Shin, J. H., Plevritis, S. K., Gevaert, O., Sunwoo, J. B., Gentles, A. J.
2023; 15 (1): 98
- **Mutation order in acute myeloid leukemia identifies uncommon patterns of evolution and illuminates phenotypic heterogeneity.** *Research square*
Schwede, M., Jahn, K., Kuipers, J., Miles, L. A., Bowman, R. L., Robinson, T., Furudate, K., Uryu, H., Tanaka, T., Sasaki, Y., Ediriwickrema, A., Benard, B., Gentles, et al
2023
- **Translatome analysis reveals microglia and astrocytes to be distinct regulators of inflammation in the hyperacute and acute phases after stroke.** *Glia*
Hernandez, V. G., Lechtenberg, K. J., Peterson, T. C., Zhu, L., Lucas, T. A., Bradshaw, K. P., Owah, J. O., Dorsey, A. I., Gentles, A. J., Buckwalter, M. S.
2023
- **Multimodal data fusion for cancer biomarker discovery with deep learning** *NATURE MACHINE INTELLIGENCE*
Steyaert, S., Pizurica, M., Nagaraj, D., Khandelwal, P., Hernandez-Boussard, T., Gentles, A. J., Gevaert, O.
2023
- **Multimodal data fusion for cancer biomarker discovery with deep learning.** *Nature machine intelligence*
Steyaert, S., Pizurica, M., Nagaraj, D., Khandelwal, P., Hernandez-Boussard, T., Gentles, A. J., Gevaert, O.
2023; 5 (4): 351-362
- **Profiling Cellular Ecosystems at Single-Cell Resolution and at Scale with EcoTyper.** *Methods in molecular biology (Clifton, N.J.)*
Steen, C. B., Luca, B. A., Alizadeh, A. A., Gentles, A. J., Newman, A. M.

2023; 2629: 43-71

- **High-resolution alignment of single-cell and spatial transcriptomes with CytoSPACE.** *Nature biotechnology*
Vahid, M. R., Brown, E. L., Steen, C. B., Zhang, W., Jeon, H. S., Kang, M., Gentles, A. J., Newman, A. M.
2023
- **Single cell genomics in AML: extending the frontiers of AML research.** *Blood*
Ediriwickrema, A., Gentles, A. J., Majeti, R.
2022
- **Peripheral blood DNA methylation profiles predict future development of B-cell Non-Hodgkin Lymphoma.** *NPJ precision oncology*
Espin-Perez, A., Brennan, K., Ediriwickrema, A. S., Gevaert, O., Lossos, I. S., Gentles, A. J.
2022; 6 (1): 53
- **Identification of cell types in multiplexed in situ images by combining protein expression and spatial information using CELESTA.** *Nature methods*
Zhang, W., Li, I., Reticker-Flynn, N. E., Good, Z., Chang, S., Samusik, N., Saumyaa, S., Li, Y., Zhou, X., Liang, R., Kong, C. S., Le, Q., Gentles, et al
2022
- **Lymph node colonization induces tumor-immune tolerance to promote distant metastasis.** *Cell*
Reticker-Flynn, N. E., Zhang, W., Belk, J. A., Basto, P. A., Escalante, N. K., Pilarowski, G. O., Bejnood, A., Martins, M. M., Kenkel, J. A., Linde, I. L., Bagchi, S., Yuan, R., Chang, et al
2022
- **NSD1 mutations deregulate transcription and DNA methylation of bivalent developmental genes in Sotos syndrome.** *Human molecular genetics*
Brennan, K., Zheng, H., Fahrner, J. A., Shin, J. H., Gentles, A. J., Schaefer, B., Sunwoo, J. B., Bernstein, J. A., Gevaert, O.
2022
- **Clonal architecture predicts clinical outcomes and drug sensitivity in acute myeloid leukemia.** *Nature communications*
Benard, B. A., Leak, L. B., Azizi, A., Thomas, D., Gentles, A. J., Majeti, R.
1800; 12 (1): 7244
- **High-grade serous ovarian tumor cells modulate NK cell function to create an immune-tolerant microenvironment.** *Cell reports*
Gonzalez, V. D., Huang, Y., Delgado-Gonzalez, A., Chen, S., Donoso, K., Sachs, K., Gentles, A. J., Allard, G. M., Kolahi, K. S., Howitt, B. E., Porpiglia, E., Fantl, W. J.
2021; 36 (9): 109632
- **Landscape of innate lymphoid cells in human head and neck cancer reveals divergent NK cell states in the tumor microenvironment.** *Proceedings of the National Academy of Sciences of the United States of America*
Moreno-Nieves, U. Y., Tay, J. K., Saumyaa, S., Horowitz, N. B., Shin, J. H., Mohammad, I. A., Luca, B., Mundy, D. C., Gulati, G. S., Bedi, N., Chang, S., Chen, C., Kaplan, et al
2021; 118 (28)
- **Transient rest restores functionality in exhausted CAR-T cells through epigenetic remodeling.** *Science (New York, N.Y.)*
Weber, E. W., Parker, K. R., Sotillo, E., Lynn, R. C., Anbunathan, H., Lattin, J., Good, Z., Belk, J. A., Daniel, B., Klysz, D., Malipatlolla, M., Xu, P., Bashti, et al
2021; 372 (6537)
- **Prognostic Gene Expression, Stemness and Immune Microenvironment in Pediatric Tumors.** *Cancers*
Stahl, D., Knoll, R., Gentles, A. J., Vokuhl, C., Bunes, A., Gutgemann, I.
2021; 13 (4)
- **HGAL inhibits lymphoma dissemination by interacting with multiple Cytoskeletal proteins.** *Blood advances*
Jiang, X., Lu, X., Gentles, A. J., Zhao, D., Wander, S. A., Zhang, Y., Natkunam, Y., Slingerland, J., Reis, I. M., Rabinovich, B., Abdulreda, M. H., Moy, V. T., Lossos, et al
2021
- **The landscape of tumor cell states and ecosystems in diffuse large B cell lymphoma.** *Cancer cell*
Steen, C. B., Luca, B. A., Esfahani, M. S., Azizi, A., Sworder, B. J., Nabet, B. Y., Kurtz, D. M., Liu, C. L., Khameneh, F., Advani, R. H., Natkunam, Y., Myklebust, J. H., Diehn, et al
2021
- **Atlas of clinically distinct cell states and ecosystems across human solid tumors.** *Cell*

- Luca, B. A., Steen, C. B., Matusiak, M., Azizi, A., Varma, S., Zhu, C., Przybyl, J., Espín-Pérez, A., Diehn, M., Alizadeh, A. A., van de Rijn, M., Gentles, A. J., Newman, et al
2021
- **Conditional expression of HGAL leads to the development of diffuse large B-cell lymphoma in mice.** *Blood*
Raboso-Gallego, J., Casado-Garcia, A., Jiang, X., Isidro-Hernandez, M., Gentles, A. J., Zhao, S., Natkunam, Y., Blanco, O., Dominguez, V., Pintado, B., De Las Rivas, J., Alonso-Lopez, D., Vicente-Duenas, et al
2020
 - **Maternal Anti-Dengue IgG Fucosylation Predicts Susceptibility to Dengue Disease in Infants.** *Cell reports*
Thulin, N. K., Brewer, R. C., Sherwood, R., Bournazos, S., Edwards, K. G., Ramadoss, N. S., Taubenberger, J. K., Memoli, M., Gentles, A. J., Jagannathan, P., Zhang, S., Libraty, D. H., Wang, et al
2020; 31 (6): 107642
 - **CRISPR screens in cancer spheroids identify 3D growth-specific vulnerabilities.** *Nature*
Han, K., Pierce, S. E., Li, A., Spees, K., Anderson, G. R., Seoane, J. A., Lo, Y. H., Dubreuil, M., Olivas, M., Kamber, R. A., Wainberg, M., Kostyrko, K., Kelly, et al
2020; 580 (7801): 136-141
 - **MYC and Twist1 cooperate to drive metastasis by eliciting crosstalk between cancer and innate immunity.** *eLife*
Dhanasekaran, R., Baylot, V., Kim, M., Kuruvilla, S., Bellovin, D. I., Adeniji, N., Rajan Kd, A., Lai, I., Gabay, M., Tong, L., Krishnan, M., Park, J., Hu, et al
2020; 9
 - **Multomic single cell analysis of normal human bone marrow identifies a unique stem and progenitor population that expands in AML** *Proceedings of the Annual Meeting of the American Association for Cancer Research 2020*
Ediriwickrema, A., Ramakrishnan, S., Nakamoto, M., Ghanekar, S., Luca, B., Newman, A., Gentles, A., Majeti, R.
2020
 - **A human lung tumor microenvironment interactome identifies clinically relevant cell-type cross-talk.** *Genome biology*
Gentles, A. J., Hui, A. B., Feng, W. n., Azizi, A. n., Nair, R. V., Bouchard, G. n., Knowles, D. A., Yu, A. n., Jeong, Y. n., Bejnood, A. n., Forgó, E. n., Varma, S. n., Xu, et al
2020; 21 (1): 107
 - **The Immune Landscape of Cancer.** *Immunity*
Thorsson, V., Gibbs, D. L., Brown, S. D., Wolf, D., Bortone, D. S., Ou Yang, T., Porta-Pardo, E., Gao, G. F., Plaisier, C. L., Eddy, J. A., Ziv, E., Culhane, A. C., Paull, et al
2019; 51 (2): 411–12
 - **LMO2 Confers Synthetic Lethality to PARP Inhibition in DLBCL.** *Cancer cell*
Parvin, S., Ramirez-Labrada, A., Aumann, S., Lu, X., Weich, N., Santiago, G., Cortizas, E. M., Sharabi, E., Zhang, Y., Sanchez-Garcia, I., Gentles, A. J., Roberts, E., Bilbao-Cortes, et al
2019
 - **Determining cell type abundance and expression from bulk tissues with digital cytometry** *NATURE BIOTECHNOLOGY*
Newman, A. M., Steen, C. B., Liu, C., Gentles, A. J., Chaudhuri, A. A., Scherer, F., Khodadoust, M. S., Esfahani, M. S., Luca, B. A., Steiner, D., Diehn, M., Alizadeh, A. A.
2019; 37 (7): 773+
 - **Targetable genetic alterations of TCF4 (E2-2) drive immunoglobulin expression in diffuse large B cell lymphoma.** *Science translational medicine*
Jain, N., Hartert, K., Tadros, S., Fiskus, W., Havranek, O., Ma, M. C., Bouska, A., Heavican, T., Kumar, D., Deng, Q., Moore, D., Pak, C., Liu, et al
2019; 11 (497)
 - **Data mining for mutation-specific targets in acute myeloid leukemia** *LEUKEMIA*
Benard, B., Gentles, A. J., Kohnke, T., Majeti, R., Thomas, D.
2019; 33 (4): 826–43
 - **Determining cell type abundance and expression from bulk tissues with digital cytometry.** *Nature biotechnology*
Newman, A. M., Steen, C. B., Liu, C. L., Gentles, A. J., Chaudhuri, A. A., Scherer, F. n., Khodadoust, M. S., Esfahani, M. S., Luca, B. A., Steiner, D. n., Diehn, M. n., Alizadeh, A. A.
2019

- **Prognostic profiling of the immune cell microenvironment in Ewings Sarcoma Family of Tumors.** *Oncoimmunology*
Stahl, D., Gentles, A. J., Thiele, R., Gutgemann, I.
2019; 8 (12): e1674113
- **Comprehensive analysis of cancer stemness**
Malta, T. M., Sokolov, A., Gentles, A. J., Burzykowski, T., Poisson, L., Weinstein, J., Kaminska, B., Huelsken, J., Omberg, L., Gevaert, O., Colaprico, A., Czerwinska, P., Mazurek, et al
AMER ASSOC CANCER RESEARCH.2018
- **GFPT2-expressing cancer-associated fibroblasts mediate metabolic reprogramming in human lung adenocarcinoma.** *Cancer research*
Zhang, W., Bouchard, G., Yu, A., Shafiq, M., Jamali, M., Shrager, J. B., Ayers, K., Bakr, S., Gentles, A. J., Diehn, M., Quon, A., West, R. B., Nair, et al
2018
- **The Immune Landscape of Cancer** *IMMUNITY*
Thorsson, V., Gibbs, D. L., Brown, S. D., Wolf, D., Bortone, D. S., Yang, T., Porta-Pardo, E., Gao, G. F., Plaisier, C. L., Eddy, J. A., Ziv, E., Culhane, A. C., Paull, et al
2018; 48 (4): 812-+
- **Machine Learning Identifies Stemness Features Associated with Oncogenic Dedifferentiation** *CELL*
Malta, T. M., Sokolov, A., Gentles, A. J., Burzykowski, T., Poisson, L., Weinstein, J. N., Kaminska, B., Huelsken, J., Omberg, L., Gevaert, O., Colaprico, A., Czerwinska, P., Mazurek, et al
2018; 173 (2): 338-+
- **Subtype assignment of CLL based on B-cell subset associated gene signatures from normal bone marrow - A proof of concept study** *PLOS ONE*
Norgaard, C., Jakobsen, L., Gentles, A. J., Dybkaer, K., El-Galaly, T., Bodker, J., Schmitz, A., Johansen, P., Herold, T., Spiekermann, K., Brown, J. R., Klitgaard, J. L., Johnsen, et al
2018; 13 (3): e0193249
- **Brd4 regulates the expression of essential autophagy genes and Keap1 in AML cells.** *Oncotarget*
Huang, M., Zhu, L., Garcia, J. S., Li, M. X., Gentles, A. J., Mitchell, B. S.
2018; 9 (14): 11665-76
- **Module Analysis Captures Pancancer Genetically and Epigenetically Deregulated Cancer Driver Genes for Smoking and Antiviral Response.** *EBioMedicine*
Champion, M. n., Brennan, K. n., Croonenborghs, T. n., Gentles, A. J., Pochet, N. n., Gevaert, O. n.
2018; 27: 156-66
- **Quantification of Macrophages in High-Grade Gliomas by Using Ferumoxytol-enhanced MRI: A Pilot Study.** *Radiology*
Iv, M. n., Samghabadi, P. n., Holdsworth, S. n., Gentles, A. n., Rezaii, P. n., Harsh, G. n., Li, G. n., Thomas, R. n., Moseley, M. n., Daldrup-Link, H. E., Vogel, H. n., Wintermark, M. n., Cheshier, et al
2018: 181204
- **Non-Small Cell Lung Cancer Radiogenomics Map Identifies Relationships between Molecular and Imaging Phenotypes with Prognostic Implications.** *Radiology*
Zhou, M. n., Leung, A. n., Echeagaray, S. n., Gentles, A. n., Shrager, J. B., Jensen, K. C., Berry, G. J., Plevritis, S. K., Rubin, D. L., Napel, S. n., Gevaert, O. n.
2018; 286 (1): 307-15
- **Human AML-iPSCs Reacquire Leukemic Properties after Differentiation and Model Clonal Variation of Disease.** *Cell stem cell*
Chao, M. P., Gentles, A. J., Chatterjee, S., Lan, F., Reinisch, A., Corces, M. R., Xavy, S., Shen, J., Haag, D., Chanda, S., Sinha, R., Morganti, R. M., Nishimura, et al
2017; 20 (3): 329-344 e7
- **Identification of an atypical etiological head and neck squamous carcinoma subtype featuring the CpG island methylator phenotype.** *EBioMedicine*
Brennan, K., Koenig, J. L., Gentles, A. J., Sunwoo, J. B., Gevaert, O.
2017; 17: 223-236
- **NSD1 inactivation defines an immune cold, DNA hypomethylated subtype in squamous cell carcinoma.** *Scientific reports*
Brennan, K. n., Shin, J. H., Tay, J. K., Prunello, M. n., Gentles, A. J., Sunwoo, J. B., Gevaert, O. n.
2017; 7 (1): 17064
- **Data normalization considerations for digital tumor dissection.** *Genome biology*

- Newman, A. M., Gentles, A. J., Liu, C. L., Diehn, M. n., Alizadeh, A. A.
2017; 18 (1): 128
- **Low BUB1 expression is an adverse prognostic marker in gastric adenocarcinoma.** *Oncotarget*
Stahl, D. n., Braun, M. n., Gentles, A. J., Lingohr, P. n., Walter, A. n., Kristiansen, G. n., Gütgemann, I. n.
2017; 8 (44): 76329–39
 - **Role of KEAP1/NRF2 and TP53 Mutations in Lung Squamous Cell Carcinoma Development and Radiation Resistance.** *Cancer discovery*
Jeong, Y., Hoang, N. T., Lovejoy, A., Stehr, H., Newman, A. M., Gentles, A. J., Kong, W., Truong, D., Martin, S., Chaudhuri, A., Heiser, D., Zhou, L., Say, et al
2016
 - **Pathophysiological significance and therapeutic targeting of germinal center kinase in diffuse large B-cell lymphoma.** *Blood*
Matthews, J. M., Bhatt, S., Patricelli, M. P., Nomanbhoy, T. K., Jiang, X., Natkunam, Y., Gentles, A. J., Martinez, E., Zhu, D., Chapman, J. R., Cortizas, E., Shyam, R., Chinichian, et al
2016; 128 (2): 239-248
 - **Identifying Network Perturbation in Cancer** *PLOS COMPUTATIONAL BIOLOGY*
Grechkin, M., Logsdon, B. A., Gentles, A. J., Lee, S.
2016; 12 (5)
 - **Gene expression analysis of plasmablastic lymphoma identifies downregulation of B-cell receptor signaling and additional unique transcriptional programs** *LEUKEMIA*
Chapman, J., Gentles, A. J., Sujoy, V., Vega, F., Dumur, C. I., BLEVINS, T. L., Bernal-Mizrachi, L., Mosunjac, M., Pimentel, A., Zhu, D., Lossos, I. S.
2015; 29 (11): 2270-2273
 - **Integrating Tumor and Stromal Gene Expression Signatures With Clinical Indices for Survival Stratification of Early-Stage Non-Small Cell Lung Cancer.** *Journal of the National Cancer Institute*
Gentles, A. J., Bratman, S. V., Lee, L. J., Harris, J. P., Feng, W., Nair, R. V., Shultz, D. B., Nair, V. S., Hoang, C. D., West, R. B., Plevritis, S. K., Alizadeh, A. A., Diehn, et al
2015; 107 (10)
 - **CD93 Marks a Non-Quiescent Human Leukemia Stem Cell Population and Is Required for Development of MLL-Rearranged Acute Myeloid Leukemia.** *Cell stem cell*
Iwasaki, M., Liedtke, M., Gentles, A. J., Cleary, M. L.
2015; 17 (4): 412-421
 - **An LSC epigenetic signature is largely mutation independent and implicates the HOXA cluster in AML pathogenesis** *NATURE COMMUNICATIONS*
Jung, N., Dai, B., Gentles, A. J., Majeti, R., Feinberg, A. P.
2015; 6
 - **The prognostic landscape of genes and infiltrating immune cells across human cancers** *NATURE MEDICINE*
Gentles, A. J., Newman, A. M., Liu, C. L., Bratman, S. V., Feng, W., Kim, D., Nair, V. S., Xu, Y., Khuong, A., Hoang, C. D., Diehn, M., West, R. B., Plevritis, et al
2015; 21 (8): 938-945
 - **Robust enumeration of cell subsets from tissue expression profiles.** *Nature methods*
Newman, A. M., Liu, C. L., Green, M. R., Gentles, A. J., Feng, W., Xu, Y., Hoang, C. D., Diehn, M., Alizadeh, A. A.
2015; 12 (5): 453-457
 - **Reprogramming of primary human Philadelphia chromosome-positive B cell acute lymphoblastic leukemia cells into nonleukemic macrophages** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
McClellan, J. S., Dove, C., Gentles, A. J., Ryan, C. E., Majeti, R.
2015; 112 (13): 4074-4079
 - **Mutations in early follicular lymphoma progenitors are associated with suppressed antigen presentation.** *Proceedings of the National Academy of Sciences of the United States of America*
Green, M. R., Kihira, S., Liu, C. L., Nair, R. V., Salari, R., Gentles, A. J., Irish, J., Stehr, H., Vicente-Dueñas, C., Romero-Camarero, I., Sanchez-Garcia, I., Plevritis, S. K., Arber, et al
2015; 112 (10): E1116-25
 - **Sparse expression bases in cancer reveal tumor drivers.** *Nucleic acids research*

- Logsdon, B. A., Gentles, A. J., Miller, C. P., Blau, C. A., Becker, P. S., Lee, S.
2015; 43 (3): 1332-1344
- **Mutant WT1 is associated with DNA hypermethylation of PRC2 targets in AML and responds to EZH2 inhibition.** *Blood*
Sinha, S., Thomas, D., Yu, L., Gentles, A. J., Jung, N., Corces-Zimmerman, M. R., Chan, S. M., Reinisch, A., Feinberg, A. P., Dill, D. L., Majeti, R.
2015; 125 (2): 316-326
 - **A Simple Method for Estimating Interactions Between a Treatment and a Large Number of Covariates** *JOURNAL OF THE AMERICAN STATISTICAL ASSOCIATION*
Tian, L., Alizadeh, A. A., Gentles, A. J., Tibshirani, R.
2014; 109 (508): 1517-1532
 - **A Simple Method for Estimating Interactions between a Treatment and a Large Number of Covariates.** *Journal of the American Statistical Association*
Tian, L., Alizadeh, A. A., Gentles, A. J., Tibshirani, R.
2014; 109 (508): 1517-1532
 - **Targeting Unique Metabolic Properties of Breast Tumor Initiating Cells** *STEM CELLS*
Feng, W., Gentles, A., Nair, R. V., Huang, M., Lin, Y., Lee, C. Y., Cai, S., Scheeren, F. A., Kuo, A. H., Diehn, M.
2014; 32 (7): 1734-1745
 - **Active idiotypic vaccination versus control immunotherapy for follicular lymphoma.** *Journal of clinical oncology*
Levy, R., Ganjoo, K. N., Leonard, J. P., Vose, J. M., Flinn, I. W., Ambinder, R. F., Connors, J. M., Berinstein, N. L., Belch, A. R., Bartlett, N. L., Nichols, C., Emmanouilides, C. E., Timmerman, et al
2014; 32 (17): 1797-1803
 - **Utility in prognostic value added by molecular profiles for diffuse large B-cell lymphoma.** *Blood*
Gentles, A. J., Alizadeh, A. A.
2013; 121 (15): 3052-3054
 - **Hierarchy in somatic mutations arising during genomic evolution and progression of follicular lymphoma.** *Blood*
Green, M. R., Gentles, A. J., Nair, R. V., Irish, J. M., Kihira, S., Liu, C. L., Kela, I., Hopmans, E. S., Myklebust, J. H., Ji, H., Plevritis, S. K., Levy, R., Alizadeh, et al
2013; 121 (9): 1604-1611
 - **Systematic Deconvolution of Hematolymphoid Tumor Transcriptomes Reveals Infiltrating Immune Cell Signatures Related to Survival** *54th Annual Meeting and Exposition of the American-Society-of-Hematology (ASH)*
Newman, A. M., Gentles, A. J., Plevritis, S. K., Alizadeh, A. A.
AMER SOC HEMATOLOGY.2012
 - **Hierarchy in Somatic Mutations Arising During Genomic Evolution and Progression of Follicular Lymphoma** *54th Annual Meeting and Exposition of the American-Society-of-Hematology (ASH)*
Green, M. R., Gentles, A. J., Nair, R. V., Irish, J. M., Levy, R., Alizadeh, A. A.
AMER SOC HEMATOLOGY.2012
 - **The chemoattractant chemerin suppresses melanoma by recruiting natural killer cell antitumor defenses** *JOURNAL OF EXPERIMENTAL MEDICINE*
Pachynski, R. K., Zabel, B. A., Kohrt, H. E., Tejada, N. M., Monnier, J., Swanson, C. D., Holzer, A. K., Gentles, A. J., Sperinde, G. V., Edalati, A., Hadeiba, H. A., Alizadeh, A. A., Butcher, et al
2012; 209 (8): 1427-1435
 - **Identification of LMO2 transcriptome and interactome in diffuse large B-cell lymphoma** *BLOOD*
Cubedo, E., Gentles, A. J., Huang, C., Natkunam, Y., Bhatt, S., Lu, X., Jiang, X., Romero-Camarero, I., Freud, A., Zhao, S., Bacchi, C. E., Martinez-Climent, J. A., Sanchez-Garcia, et al
2012; 119 (23): 5478-5491
 - **The chemoattractant chemerin as a natural tumor suppressive cytokine.** *48th Annual Meeting of the American-Society-of-Clinical-Oncology (ASCO)*
Pachynski, R. K., Zabel, B., Tejada, N., Monnier, J., Holzer, A. K., Gentles, A., Kohrt, H. E., Hadeiba, H., Alizadeh, A. A., Butcher, E.
AMER SOC CLINICAL ONCOLOGY.2012
 - **The CD47-signal regulatory protein alpha (SIRPa) interaction is a therapeutic target for human solid tumors** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*

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