

Stanford



Andrew Gentles

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

Medicine - Biomedical Informatics Research

Bio

BIO

BSc (Hons) Physics, University of Manchester, UK

PhD Theoretical particle physics, University of Southampton, UK

ACADEMIC APPOINTMENTS

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

LINKS

- Google scholar: https://scholar.google.com/citations?user=6JO_L6wAAAAJ&hl=en

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Computational systems biology of human disease. Particular focus on integration of high-throughput datasets with each other, and with phenotypic information and clinical outcomes.

Teaching

COURSES

2019-20

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

2018-19

- Essential Methods in Computational and Systems Immunology: IMMUNOL 207 (Spr)

2017-18

- Essential Methods in Computational and Systems Immunology: IMMUNOL 207 (Spr)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Michelle Atallah, Hunter Boyce, Bryan Xie, Alice Yu

Orals Chair

Kai Xun Joshua Tay

Postdoctoral Faculty Sponsor

Almudena Espin Perez, Bogdan Luca

Doctoral Dissertation Co-Advisor (AC)

Asiri Ediriwickrema

Postdoctoral Research Mentor

Hima Anbunathan, Almudena Espin Perez, Bogdan Luca, Barzin Nabet, Milad Rafiee Vahid

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Bioengineering (Phd Program)
- Biomedical Informatics (Phd Program)
- Biomedical Informatics (Masters Program)
- Cancer Biology (Phd Program)
- Immunology (Phd Program)
- Medicine (Masters Program)
- Microbiology and Immunology (Phd Program)
- Neurosciences (Phd Program)

Publications

PUBLICATIONS

- **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., Khodadoust, M. S., Esfahani, M. S., Luca, B. A., Steiner, D., Diehn, M., 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., Brennan, K., Croonenborghs, T., Gentles, A. J., Pochet, N., Gevaert, O.
2018; 27: 156-66
- **Quantification of Macrophages in High-Grade Gliomas by Using Ferumoxytol-enhanced MRI: A Pilot Study.** *Radiology*
Iv, M., Samghabadi, P., Holdsworth, S., Gentles, A., Rezaii, P., Harsh, G., Li, G., Thomas, R., Moseley, M., Daldrup-Link, H. E., Vogel, H., Wintermark, M., 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., Leung, A., Echegaray, S., Gentles, A., Shrager, J. B., Jensen, K. C., Berry, G. J., Plevritis, S. K., Rubin, D. L., Napel, S., Gevaert, O.
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., Shin, J. H., Tay, J. K., Prunello, M., Gentles, A. J., Sunwoo, J. B., Gevaert, O.
2017; 7 (1): 17064
- **Data normalization considerations for digital tumor dissection.** *Genome biology*
Newman, A. M., Gentles, A. J., Liu, C. L., Diehn, M., Alizadeh, A. A.
2017; 18 (1): 128
- **Low BUB1 expression is an adverse prognostic marker in gastric adenocarcinoma.** *Oncotarget*
Stahl, D., Braun, M., Gentles, A. J., Lingohr, P., Walter, A., Kristiansen, G., Gütgemann, I.
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
 - **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
 - **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): 1517-32
 - **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*
Willingham, S. B., Volkmer, J., Gentles, A. J., Sahoo, D., Dalerba, P., Mitra, S. S., Wang, J., Contreras-Trujillo, H., Martin, R., Cohen, J. D., Lovelace, P., Scheeren, F. A., Chao, et al
2012; 109 (17): 6662-6667
- **Identification of LMO2 Transcriptome and Interactome in Diffuse Large B-Cell Lymphoma by Integrated Experimental and Computational Approach** *53rd Annual Meeting and Exposition of the American-Society-of-Hematology (ASH)*
Cubedo, E., Gentles, A. J., Huang, C., Natkunam, Y., Bhatt, S., Jiang, X., Lu, X., Romero-Camarero, I., Plevritis, S. K., Martinez-Climent, J. A., Sanchez-Garcia, I., Melnick, A., Lossos, et al
AMER SOC HEMATOLOGY.2011: 201-2
- **A few good genes Simple, biologically motivated signatures for cancer prognosis** *CELL CYCLE*
Gentles, A. J., Alizadeh, A. A.
2011; 10 (21): 3615-3616
- **Lymphomas that recur after MYC suppression continue to exhibit oncogene addiction** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Choi, P. S., van Riggelen, J., Gentles, A. J., Bachireddy, P., Rakhra, K., Adam, S. J., Plevritis, S. K., Felsher, D. W.
2011; 108 (42): 17432-17437
- **Systems Biology: Confronting the Complexity of Cancer** *CANCER RESEARCH*
Gentles, A. J., Gallahan, D.
2011; 71 (18): 5961-5964
- **Prediction of survival in diffuse large B-cell lymphoma based on the expression of 2 genes reflecting tumor and microenvironment** *BLOOD*
Alizadeh, A. A., Gentles, A. J., Alencar, A. J., Liu, C. L., Kohrt, H. E., Houot, R., Goldstein, M. J., Zhao, S., Natkunam, Y., Advani, R. H., Gascoyne, R. D., Briones, J., Tibshirani, et al
2011; 118 (5): 1350-1358
- **Clinical Application of Readout-Segmented-Echo-Planar Imaging for Diffusion-Weighted Imaging in Pediatric Brain** *AMERICAN JOURNAL OF NEURORADIOLOGY*
Holdsworth, S. J., Yeom, K., Skare, S., Gentles, A. J., Barnes, P. D., Bammer, R.
2011; 32 (7): 1274-1279
- **Discovering Biological Progression Underlying Microarray Samples** *PLOS COMPUTATIONAL BIOLOGY*
Qiu, P., Gentles, A. J., Plevritis, S. K.
2011; 7 (4)
- **Prospective separation of normal and leukemic stem cells based on differential expression of TIM3, a human acute myeloid leukemia stem cell marker** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Jan, M., Chao, M. P., Cha, A. C., Alizadeh, A. A., Gentles, A. J., Weissman, I. L., Majeti, R.
2011; 108 (12): 5009-5014
- **Association of a Leukemic Stem Cell Gene Expression Signature With Clinical Outcomes in Acute Myeloid Leukemia** *JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION*
Gentles, A. J., Plevritis, S. K., Majeti, R., Alizadeh, A. A.
2010; 304 (24): 2706-2715
- **Calreticulin Is the Dominant Pro-Phagocytic Signal on Multiple Human Cancers and Is Counterbalanced by CD47** *SCIENCE TRANSLATIONAL MEDICINE*
Chao, M. P., Jaiswal, S., Weissman-Tsukamoto, R., Alizadeh, A. A., Gentles, A. J., Volkmer, J., Weiskopf, K., Willingham, S. B., Raveh, T., Park, C. Y., Majeti, R., Weissman, I. L.
2010; 2 (63)
- **Recurrent Interstitial 1p36 Deletions: Evidence for Germline Mosaicism and Complex Rearrangement Breakpoints** *AMERICAN JOURNAL OF MEDICAL GENETICS PART A*
Gajecka, M., Saitta, S. C., Gentles, A. J., Campbell, L., Ciprero, K., Geiger, E., Catherwood, A., Rosenfeld, J. A., Shaikh, T., Shaffer, L. G.
2010; 152A (12): 3074-3083

- **Prediction of Survival In Diffuse Large B-Cell Lymphoma Based On the Expression of Two Genes Reflecting Tumor and Microenvironment** *52nd Annual Meeting and Exposition of the American-Society-of-Hematology (ASH)*
Alizadeh, A. A., Gentles, A. J., Alencar, A. J., Kohrt, H. E., Houot, R., Goldstein, M. J., Zhao, S., Natkunam, Y., Advani, R., Gascoyne, R. D., Briones, J., Tibshirani, R. J., Myklebust, et al
AMER SOC HEMATOLOGY.2010: 836-37
- **Efficacy of bortezomib in a direct xenograft model of primary effusion lymphoma** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Sarosiek, K. A., Cavallin, L. E., Bhatt, S., Toomey, N. L., Natkunam, Y., Blasini, W., Gentles, A. J., Ramos, J. C., Mesri, E. A., Lossos, I. S.
2010; 107 (29): 13069-13074
- **Reducing the Computational Complexity of Information Theoretic Approaches for Reconstructing Gene Regulatory Networks** *JOURNAL OF COMPUTATIONAL BIOLOGY*
Qiu, P., Gentles, A. J., Plevritis, S. K.
2010; 17 (2): 169-176
- **Novel IL-21 signaling pathway up-regulates c-Myc and induces apoptosis of diffuse large B-cell lymphomas** *BLOOD*
Sarosiek, K. A., Malumbres, R., Nechushtan, H., Gentles, A. J., Avisar, E., Lossos, I. S.
2010; 115 (3): 570-580
- **Prediction of Survival in Diffuse Large B-Cell Lymphoma Based On the Expression of Two Genes: Integration of Tumor and Microenvironment Contributions** *51st Annual Meeting and Exposition of the American-Society-of-Hematology*
Alizadeh, A. A., Gentles, A. J., Alencar, A. J., Kohrt, H. E., Houot, R., Talreja, N., Shyam, R., Natkunam, Y., Gascoyne, R. D., Briones, J., Advani, R., Lossos, I. S., Levy, et al
AMER SOC HEMATOLOGY.2009: 258-58
- **Gene Expression Signature of Host Immune Response Is Predictive of Follicular Lymphoma Patient Survival in Independent Cohorts, and Correlates with Transformation to Diffuse Large B-Cell Lymphoma.** *51st Annual Meeting and Exposition of the American-Society-of-Hematology*
Alizadeh, A. A., Gentles, A. J., Plevritis, S. K., Levy, R.
AMER SOC HEMATOLOGY.2009: 1153-53
- **A pluripotency signature predicts histologic transformation and influences survival in follicular lymphoma patients** *BLOOD*
Gentles, A. J., Alizadeh, A. A., Lee, S., Myklebust, J. H., Shachaf, C. M., Shahbaba, B., Levy, R., Koller, D., Plevritis, S. K.
2009; 114 (15): 3158-3166
- **Molecular Outcome Prediction in Diffuse Large-B-Cell Lymphoma** *NEW ENGLAND JOURNAL OF MEDICINE*
Alizadeh, A. A., Gentles, A. J., Lossos, I. S., Levy, R.
2009; 360 (26): 2794-2795
- **Further delineation of nonhomologous-based recombination and evidence for subtelomeric segmental duplications in 1p36 rearrangements** *HUMAN GENETICS*
D'Angelo, C. S., Gajecka, M., Kim, C. A., Gentles, A. J., Glotzbach, C. D., Shaffer, L. G., Koiffmann, C. P.
2009; 125 (5-6): 551-563
- **Fast calculation of pairwise mutual information for gene regulatory network reconstruction** *COMPUTER METHODS AND PROGRAMS IN BIOMEDICINE*
Qiu, P., Gentles, A. J., Plevritis, S. K.
2009; 94 (2): 177-180
- **Characterization of Patient Specific Signaling via Augmentation of Bayesian Networks with Disease and Patient State Nodes** *Annual International Conference of the IEEE-Engineering-in-Medicine-and-Biology-Society*
Sachs, K., Gentles, A. J., Youland, R., Itani, S., Irish, J., Nolan, G. P., Plevritis, S. K.
IEEE.2009: 6624-6627
- **A Bayesian nonparametric method for model evaluation: application to genetic studies** *JOURNAL OF NONPARAMETRIC STATISTICS*
Shahbaba, B., Gentles, A. J., Beyene, J., Plevritis, S. K., Greenwood, C. M.
2009; 21 (3): 379-396
- **Unexpected complexity at breakpoint junctions in phenotypically normal individuals and mechanisms involved in generating balanced translocations t(1;22)(p36;q13)** *GENOME RESEARCH*
Gajecka, M., Gentles, A. J., Tsai, A., Chitayat, D., Mackay, K. L., Glotzbach, C. D., Lieber, M. R., Shaffer, L. G.
2008; 18 (11): 1733-1742

- **Genomic and proteomic analysis reveals a threshold level of MYC required for tumor maintenance** *CANCER RESEARCH*
Shachaf, C. M., Gentles, A. J., Elchuri, S., Sahoo, D., Soen, Y., Sharpe, O., Perez, O. D., Chang, M., Mitchel, D., Robinson, W. H., Dill, D., Nolan, G. P., Plevritis, et al
2008; 68 (13): 5132-5142
- **Boolean implication networks derived from large scale, whole genome microarray datasets** *GENOME BIOLOGY*
Sahoo, D., Dill, D. L., Gentles, A. J., Tibshirani, R., Plevritis, S. K.
2008; 9 (10)
- **SINEs, evolution and genome structure in the opossum** *GENE*
Gu, W., Ray, D. A., Walker, J. A., Barnes, E. W., Gentles, A. J., Samollow, P. B., Jurka, J., Batzer, M. A., Pollock, D. D.
2007; 396 (1): 46-58
- **Evolutionary dynamics of transposable elements in the short-tailed opossum *Monodelphis domestica*** *GENOME RESEARCH*
Gentles, A. J., Wakefield, M. J., Kohany, O., Gu, W., Batzer, M. A., Pollock, D. D., Jurka, J.
2007; 17 (7): 992-1004
- **Genome of the marsupial *Monodelphis domestica* reveals innovation in non-coding sequences** *NATURE*
Mikkelsen, T. S., Wakefield, M. J., Aken, B., Amemiya, C. T., Chang, J. L., Duke, S., Garber, M., Gentles, A. J., Goodstadt, L., Heger, A., Jurka, J., Kamal, M., Mauceli, et al
2007; 447 (7141): 167-U1
- **Annotation, submission and screening of repetitive elements in Repbase: RepbaseSubmitter and Censor** *BMC BIOINFORMATICS*
Kohany, O., Gentles, A. J., Hankus, L., Jurka, J.
2006; 7
- **Retroposition of processed pseudogenes: the impact of RNA stability and translational control** *TRENDS IN GENETICS*
Pavlicek, A., Gentles, A. J., Paces, J., Paces, V., Jurka, J.
2006; 22 (2): 69-73
- **Origin and diversification of minisatellites derived from human Alu sequences** *GENE*
Jurka, J., Gentles, A. J.
2006; 365: 21-26
- **Traffic of genetic information between segmental duplications flanking the typical 22q-11.2 deletion in velo-cardio-facial syndrome/DiGeorge syndrome** *GENOME RESEARCH*
Pavlicek, A., House, R., Gentles, A. J., Jurka, J., Morrow, B. E.
2005; 15 (11): 1487-1495
- **Evolutionary diversity and potential recombinogenic role of integration targets of non-LTR retrotransposons** *MOLECULAR BIOLOGY AND EVOLUTION*
Gentles, A. J., Kohany, O., Jurka, J.
2005; 22 (10): 1983-1991
- **Genome comparisons and analysis** *CURRENT OPINION IN STRUCTURAL BIOLOGY*
Karlin, S., Mrazek, J., Gentles, A. J.
2003; 13 (3): 344-352
- **Associations between human disease genes and overlapping gene groups and multiple amino acid runs** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Karlin, S., CHEN, C. F., Gentles, A. J., Cleary, M.
2002; 99 (26): 17008-17013
- **Genes, pseudogenes, and Alu sequence organization across human chromosomes 21 and 22** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
CHEN, C. F., Gentles, A. J., Jurka, J., Karlin, S.
2002; 99 (5): 2930-2935
- **Amino acid runs in eukaryotic proteomes and disease associations** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Karlin, S., Brocchieri, L., Bergman, A., Mrazek, J., Gentles, A. J.

2002; 99 (1): 333-338

- **Genomics - Annotation of the *Drosophila* genome** *NATURE*

Karlin, S., Bergman, A., Gentles, A. J.

2001; 411 (6835): 259-260

- **Genome-scale compositional comparisons in eukaryotes** *GENOME RESEARCH*

Gentles, A. J., Karlin, S.

2001; 11 (4): 540-546

- **Why are human G-protein-coupled receptors predominantly intronless?** *TRENDS IN GENETICS*

Gentles, A. J., Karlin, S.

1999; 15 (2): 47-49