EKTA KHURANA CURRICULUM VITAE

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RESEARCH EXPERTISE

Computational Biology/Bioinformatics, Genomics, Cancer Genomics, Systems Biology

PROFESSIONAL EXPERIENCE

Weill Medical College of Cornell University, New York, NY

Associate Professor of Computational Genomics 2021 to Present Assistant Professor of Computational Genomics 2014 to 2021

Meyer Cancer Center

Englander Institute for Precision Medicine Institute for Computational Biomedicine Department of Physiology and Biophysics

Associate Director, 2019 to Present

Tri-Institutional PhD Program in Computational Biology & Medicine

New York Genome Center, New York, NY 2018 to Present

Affiliate Member

Yale University, New Haven, CT 2012 to 2014

Associate Research Scientist

Program in Computational Biology and Bioinformatics Molecular Biophysics and Biochemistry Department

Yale University, New Haven, CT 2008 to 2012

Postdoctoral Research Associate

Program in Computational Biology and Bioinformatics Molecular Biophysics and Biochemistry Department

Advisor: Prof. Mark B. Gerstein

EDUCATION

University of Pennsylvania, Philadelphia, PA 2002 to 2008

Ph. D. in Chemistry (Research area: Computational Biology)

Advisor: Prof. Michael L. Klein

Thesis title: Computational Studies of Natural and Synthetic Ion Channels

Indian Institute of Technology, Delhi, India 2000 to 2002

Masters of Science (Research area: Computational Biology)

Advisor: Prof. B. Jayaram

Thesis title: Chemical Model for Genome Analysis

St. Stephen's College, Delhi University, Delhi, India 1997 to 2000

Bachelors of Science

JOURNAL PUBLICATIONS

(* co-first authors, *corresponding author)

- 1. Carrot-Zhang J, Yao X, Devarakonda S, Deshpande A, Damrauer JS, Silva TC, Wong CK, Choi HY, Felau I, Robertson AG, Castro MAA, Bao L, Rheinbay E, Liu EM, Trieu T, Haan D, Yau C, Hinoue T, Liu Y, Shapira O, Kumar K, Mungall KL, Zhang H, Lee JJ, Berger A, Gao GF, Zhitomirsky B, Liang WW, Zhou M, Moorthi S, Berger AH, Collisson EA, Zody MC, Ding L, Cherniack AD, Getz G, Elemento O, Benz CC, Stuart J, Zenklusen JC, Beroukhim R, Chang JC, Campbell JD, Hayes DN, Yang L, Laird PW, Weinstein JN, Kwiatkowski DJ, Tsao MS, Travis WD, Khurana E, Berman BP, Hoadley KA, Robine N; TCGA Research Network, Meyerson M, Govindan R, Imielinski M. "Whole-genome characterization of lung adenocarcinomas lacking the RTK/RAS/RAF pathway." Cell Rep, 108707 (2021)
- 2. Liu EM, Martinez-Fundichely A, Bollapragada R, Spiewack M, **Khurana E***. "CNCDatabase: a database of non-coding cancer drivers", <u>Nucleic Acids Research</u>, gkaa915, (2020)
- Han T, Goswami S, Hu Y, Tang F, Zafra MP, Murphy C, Cao Z, Poirier JT, Khurana E, Elemento O, Hechtman JF, Ganesh K, Yaeger R, Dow LE.
 "Lineage reversion drives WNT independence in intestinal cancer." <u>Cancer Discov</u>, CD-19-1536 (2020)
- Xu D, Gokcumen G, Khurana E*.
 "Loss-of-function tolerance of enhancers in the human genome", <u>PLoS Genetics</u>, 16(4), e1008663 (2020)
- Trieu T, Martinez-Fundichely A, Khurana E#.
 "DeepMILO: a deep learning approach to predict the impact of non-coding sequence variants on 3D chromatin structure", Genome Biol, Mar 26;21(1):79 (2020)
- Kumar S, Warrell J, Li S, McGillivray PD, Meyerson W, Salichos L, Harmanci A, Martinez-Fundichely A, Chan CWY, Nielsen MM, Lochovsky L, Zhang Y, Li X, Lou S, Pedersen JS, Herrmann C, Getz G, Khurana E, Gerstein MB.
 "Passenger Mutations in More Than 2,500 Cancer Genomes: Overall Molecular Functional Impact and Consequences", Cell, Mar 5;180(5):915-927 (2020)
- 7. **PCAWG Transcriptome Core Group**, ... **PCAWG Transcriptome Working Group**, Brazma A, Brooks AN, G.ke J, Ratsch G, Schwarz RF, Stegle O, Zhang Z; **PCAWG Consortium**. "Genomic basis for RNA alterations in cancer", Nature, Feb;578(7793):129-136 (2020)
- 8. Rheinbay E, ... **Khurana E**, Campbell PJ, Lopez-Bigas N; PCAWG Drivers and Functional Interpretation Working Group; PCAWG Structural Variation Working Group, Weischenfeldt J, Beroukhim R, Martincorena I, Pedersen JS, Getz G; PCAWG Consortium. "Analyses of non-coding somatic drivers in 2,658 cancer whole genomes", Nature, Feb;578(7793):102-111 (2020)
- Li Y, Roberts ND, Wala JA, Shapira O, Schumacher SE, Kumar K, Khurana E, Waszak S, Korbel JO, Haber JE, Imielinski M; PCAWG Structural Variation Working Group, Weischenfeldt J, Beroukhim R, Campbell PJ; PCAWG Consortium.
 "Patterns of somatic structural variation in human cancer genomes", Nature, Feb;578(7793):112-121 (2020)

- 10. Reyna MA, Haan D, Paczkowska M, Verbeke LPC, Vazquez M, Kahraman A, Pulido-Tamayo S, Barenboim J, Wadi L, Dhingra P, Shrestha R, Getz G, Lawrence MS, Pedersen JS, Rubin MA, Wheeler DA, Brunak S, Izarzugaza JMG, **Khurana E**, Marchal K, von Mering C, Sahinalp SC, Valencia A; PCAWG Drivers and Functional Interpretation Working Group, Reimand J, Stuart JM, Raphael BJ; PCAWG Consortium.
 "Pathway and network analysis of more than 2500 whole cancer genomes", Nat Commun, Feb
- Zhang Y, ...Brazma A; PCAWG Transcriptome Working Group; PCAWG Structural Variation Working Group; PCAWG Consortium.
 "High-coverage whole-genome analysis of 1220 cancers reveals hundreds of genes deregulated by rearrangement-mediated cis-regulatory alterations", Nat Commun, Feb 5;11(1):736 (2020)
- 12. **ICGC/TCGA Pan-Cancer Analysis of Whole Genomes Consortium**. "Pan-cancer analysis of whole genomes", Nature, Feb;578(7793):82-93 (2020)

5;11(1):729 (2020)

- EM Liu, A Fundichely, BJ Diaz, B Aronson, T Cuykendall, M MacKay, P Dhingra, E Wong, P Chi, E Apostolou, NE Sanjana, E Khurana#,
 "Identification of cancer drivers at CTCF insulators in 1,962 whole-genomes", <u>Cell Systems</u>, 8, 446 (2019)
- 14. D Backenroth, Z He, K Kiryluk, V Boeva, L Pethukova, E Khurana, A Christiano, J Buxbaum, I Ionita-Laza, "FUN-LDA: A latent Dirichlet allocation model for predicting tissue-specific functional effects of noncoding variation", <u>American Journal of Human Genetics</u>, 102, 920 (2018)
- 15. M Bailey **E Khurana** The Cancer Genome Atlas Research Network.....L Ding, "Comprehensive Characterization of Cancer Driver Genes and Mutations", <u>Cell</u>, 173, 371 (2018)
- 16. J Kim, FC Geyer, LG Martelotto, CKY Ng, RS Lim, P Selenica, A Li, F Pareja, N Fusco, M Edelweiss, R Kumar, R Gularte-Merida, AN Forbes, E Khurana, O Mariani, S Badve, A Vincent-Salomon, L Norton, JS Reis-Filho, B Weigelt, "MYBL1 rearrangements and MYB amplification in breast adenoid cystic carcinomas lacking the MYB-NFIB fusion gene", The Journal of Pathology, 244, 143 (2018)
- 17. P Dhingra, A Fundichely, A Berger, F Huang, A Forbes, EM Liu, D Liu, A Sboner, P Tamayo, D Rickman*, M Rubin, E Khurana*, "Identification of novel prostate cancer drivers using RegNetDriver: A framework for integration of genetic and epigenetic alterations with tissue-specific regulatory network", Genome Biology, 18, 141 (2017)
 Selected for 'Top 10 Papers Reading List' in Regulatory & Systems Genomics by RECOMB/ISCB
- 18. A Romanel, S Garritano, B Stringa, M Blattner, D Dalfovo, D Chakravarty, D Soong, K Cotter, G Petris, P Dhingra, P Gasperini, A Cereseto, O Elemento, A Sboner, E Khurana, A Inga, M Rubin, F Demichelis, "Inherited determinants of early recurrent somatic mutations in prostate cancer", Nature Communications, 8, 48 (2017)
- M Feigin, T Garvin, P Bailey, N Waddell, D Chang, D Kelley, S Shuai, S Gallinger, J McPherson, S Grimmond, E Khurana, L Stein, A Biankin, M Schatz, D Tuveson,
 "Recurrent noncoding regulatory mutations in pancreatic ductal adenocarcinoma", Nature Genetics, 49, 825 (2017)

- 20. T Cuykendall, M Rubin, **E Khurana***, "Non-coding genetic variation in cancer", <u>Current Opinion in Systems Biology</u>, 1, 9 (2017)
- 21. P Dhingra, Y Fu, M Gerstein*, **E Khurana***, "Using FunSeq2 for coding and noncoding variant annotation and prioritization", <u>Current Protocols in Bioinformatics</u>, 57, 15.11.1 (2017)
- 22. **E Khurana**[#],

"Cancer Genomics: Hard-to-reach repairs", Nature, 532, 181 (2016)
Invited News & Views article

- 23. **E Khurana***, Y Fu, D Chakravarty, F Demichelis, M Rubin*, M Gerstein*, "Role of non-coding sequence variants in cancer", Nature Reviews Genetics, 17, 93 (2016)
- 24. The Cancer Genome Atlas Research Network "The molecular taxonomy of primary prostate cancer", Cell, 163(4), 1011 (2015)
- 25. The **1000 Genomes Project Consortium**"A global reference for human genetic variation", <u>Nature</u>, 526, 68 (2015)
- 26. L Lochovsky, J Zhang, Y Fu, **E Khurana**, M Gerstein, "LARVA: An integrative framework for large-scale analysis of recurrent variants in noncoding annotations", <u>Nucleic Acids Research</u>, 43(17), 8123 (2015)
- 27. Y Fu, Z Liu, S Lu, J Bedford, X Mu, K Yip, **E Khurana***, Gerstein M*, "FunSeq2: A framework for prioritizing noncoding regulatory variants in cancer", <u>Genome Biology</u> 15, 480 (2014) (co-senior author).
- 28. K Talbert-Slagle, KE Atkins, KK Yan, E Khurana, M Gerstein, EH Bradley, D Berg, AP Galvani, J Townsend, "Cellular Superspreaders: An Epidemiological Perspective on HIV Infection inside the Body", PLoS Pathogens 10, e1004092 (2014)
- 29. E Khurana*, Y Fu*, V Colonna*, X Mu*, HM Kang,1000 Genomes Project Consortium..... M Rubin, C Tyler-Smith, M Gerstein, "Integrative annotation of variants from 1092 humans: application to cancer genomics", <u>Science</u>, 342, 84 (2013)
 Research Highlight in <u>Nature</u>, 502, 144 (2013) and <u>Nature Genetics</u>, 45, 1273 (2013)
- 30. **E Khurana***, Y Fu*, J Chen, M Gerstein, "Interpretation of genomic variants using a unified biological network approach", <u>PLoS Computational Biology</u>, 9, e1002886 (2013)
- 31. **E Khurana***, "Learning to swim in a sea of genomic data", <u>Genome Biology</u>, 14, 315 (2013) *Invited report on the American Society of Human Genetics meeting*, *2013*
- 32. The **1000 Genomes Project Consortium**"An integrated map of genetic variation from 1,092 human genomes", Nature, 491, 56 (2012)

- 33. The **ENCODE Project Consortium**
 - "An integrated encyclopedia of DNA elements in the human genome", Nature, 489, 57 (2012)
- 34. L Habegger, S Balasubramanian, D Chen, **E Khurana**, A Sboner, A Harmanci, J Rozowsky, D Clarke, M Snyder, M Gerstein,
 - "VAT: A computational framework to functionally annotate variants in personal genomes within a cloud-computing environment", <u>Bioinformatics</u>, 28, 2269 (2012)
- 35. M Gerstein*, A Kundaje*, M Hariharan*, S Landt*, K Yan*, C Cheng*, X Mu*, **E Khurana***, J Rozowsky*, R Alexander*, R Min*, P Alves*, A Abyzov, N Addleman, N Bhardwaj...40 authors...M Snyder,
 - "Architecture of the human regulatory network derived from ENCODE data", Nature, 489, 91 (2012)
- 36. D MacArthur.....**E Khurana**.....M Gerstein, C Tyler-Smith,

 "A systematic survey of loss-of-function variants in human protein-coding genes", <u>Science</u>, 335, 823 (2012)
- 37. The **ENCODE Project Consortium**
 - "A User's Guide to the Encyclopedia of DNA elements", PLoS Biology, 9, e1001046 (2011)
- 38. R Mills.....**E Khurana**..... J Korbel, 1000 Genomes Project, "Mapping copy number variation by population-scale genome sequencing", <u>Nature</u>, 470, 59 (2011)
- 39. Z Lu, K Yip, G Wang, C Shou, L Hillier, **E Khurana**, A Agarwal, R Auerbach, J Rozowsky, C Cheng, M Kato, D Miller, F Slack, M Snyder, R Waterston, V Reinke, M Gerstein, "Prediction and characterization of non-coding RNAs in C. elegans by integrating conservation, secondary structure and high throughput sequencing and array data", <u>Genome Research</u>, 21, 276 (2011)
- 40. **E Khurana***, R DeVane, MD Peraro, ML Klein*, "Computational study of drug binding to the membrane-bound tetrameric M2 peptide bundle from influenza A virus", <u>Biochimica et Biophysica Acta- Biomembranes</u>, 1808, 530 (2011)
- 41. M Gerstein.... **E Khurana**.... modENCODE Consortium... R Waterston, "Integrative analysis of the Caenorhabditis elegans genome by the modENCODE project", <u>Science</u>, 330, 1775 (2010)
- 42. The **1000 Genomes Project Consortium**, "A map of human genome variation from population scale sequencing", <u>Nature</u>, 467, 1061 (2010)
- 43. **E Khurana**, H Lam, C Cheng, N Carriero, P Cayting, M Gerstein, "Segmental duplications in the human genome reveal details of pseudogene formation", <u>Nucleic Acids Research</u>, 38, 6997 (2010)
- 44. M Holford, **E Khurana**, K Cheung, M Gerstein, "Using semantic web rules to reason on an ontology of pseudogenes", <u>Bioinformatics</u>, 26, i71 (2010)
- 45. Y Arinaminpathy*, **E Khurana***,*, D Engelman, M Gerstein*, "Computational analysis of membrane proteins: the largest class of drug targets", <u>Drug Discovery Today</u>, 14, 1130 (2009)

- 46. Y Liu, D Zheng, S Balasubramanian, N Carriero, E Khurana, R Robilotto, M Gerstein, "Comprehensive analysis of the pseudogenes of glycolytic enzymes in vertebrates: the anomalously high number of GAPDH pseudogenes highlight a recent burst of retrotranspositional activity", <u>BMC Genomics</u>, 10, 480 (2009)
- 47. H Lam, **E Khurana**, G Fang, P Cayting, N Carriero, K Cheung, M Gerstein, "Pseudofam: the pseudogene families database", <u>Nucleic Acids Research</u>, 37, D738 (2009)
- 48. K Talbert-Slagle, S Marlatt, F Barrera, E Khurana, J Oates, M Gerstein, D Engelman, A Dixon, D Dimaio, "Artificial transmembrane oncoproteins smaller than the bovine papillomavirus E5 protein redefine

sequence requirements for activation of the platelet derived growth factor β receptor", <u>Journal of Virology</u>, 83, 9773 (2009)

- 49. **E Khurana***, MD Peraro*, R DeVane, S Vemparala, WF DeGrado*, ML Klein, "Molecular dynamics calculations suggest a conduction mechanism for the M2 proton channel from influenza A virus", <u>Proceedings of the National Academy of Sciences USA</u>, 106, 1069 (2009)
- 50. **E Khurana***, R DeVane, A Kohlmeyer, ML Klein, "Probing peptide nanotube self-assembly at a liquid-liquid interface with coarse-grained molecular dynamics", Nano Letters, 8, 3626 (2008)
- 51. **E Khurana***, S Nielsen, B Ensing, ML Klein, "Self-assembling cyclic peptides: molecular dynamics studies of dimers in polar and nonpolar solvents", <u>Journal of Physical Chemistry B</u>, 110, 18965 (2006)
- 52. **E Khurana***, S Nielsen, ML Klein, "Gemini surfactants at the air/water interface: a fully atomistic molecular dynamics study", <u>Journal of Physical Chemistry B</u>, 110, 22136 (2006)
- 53. S Dutta, P Singhal, P Agrawal, R Tomer, Kritee, **E Khurana**, B Jayaram, "A physicochemical model for analyzing DNA sequences", <u>Journal of Chemical Information and Modeling</u>, 46, 78 (2006)

INVITED CONFERENCE/SYMPOSIA/WORKSHOP LECTURES

- 1. STEM Panel on Faculty Job Search, University of Pennsylvania, Philadelphia, PA, USA (2021)
- 2. Cancer Genomics Research Network Meetings, New York Genome Center, New York, NY, USA (2021)
- 3. Probabilistic Modeling in Genomics, Cold Spring Harbor Laboratory, NY (2021)
- 4. American Association for Cancer Research Annual Meeting: Invited talk in the session '3D Cancer Genome' (2020)
- 5. Genomic Basis of Cancer Symposium, University of Helsinki, Finland (2020)
- 6. The Role of Genomics and Metagenomics in Human Health: Recent Developments in Statistical and Computational Methods, Banff International Research Station, Banff, Canada (2019)
- 7. Keynote Speaker at HiTSeq18 (High Throughput Sequencing Algorithms track of the ISMB meeting), Chicago, Illinois, USA (2018)
- 8. Advanced Sequencing Technologies & Applications, Cold Spring Harbor Laboratory, NY (2018)
- Gordon Research Conference on Human Genetic Variation and Disease, Maine, USA (2018)
- 10. Systems Genetics of Cancer, The Francis Crick Institute, London, UK (2017)
- 11. Cancer Genomics Research Network Meetings, New York Genome Center, New York, NY, USA (2017).
- 12. NGS Tech & Applications Congress, Philadelphia, PA, USA (2017)
- 13. Systems Genetics of Cancer, Cambridge, UK (2016)

- 14. Workshop on Models for Oncogenesis, Clonality and Tumor Progression, Mathematical Biosciences Institute, Ohio State University, Columbus, OH (2016)
- 15. ENCODE User's Meeting, Stanford University, Palo Alto, CA (2016)
- 16. Early Career Investigators Meeting on Quantitative Problems in Human Health and Genetics, Banff International Research Station, Banff, Canada (2016)
- 17. Talk: "Integrating large-scale genomics data to understand the role of non-protein-coding regions in cancer" & Panel discussion on "Unleashing the potential of next generation sequencing data for therapeutic development", <u>Festival of Genomics</u>, San Francisco, CA (2015)
- 18. Next Generation Sequencing Congress, Harvard Medical School, Boston, MA (2015)
- 19. Pint of Science festival, New York, NY (2015)
- 20. American Association for Cancer Research Annual Meeting, San Diego, CA (2014)
- 21. Emerging Leaders in Systems-Level Biology Symposium, Cincinnati Children's Hospital Medical Center, Ohio (2014)

INVITED INSTITUTE/UNIVERSITY TALKS

- 1. University of California, San Diego, CA, USA (2021)
- 2. Duke University (2021)
- 3. New York Genome Center (2019)
- 4. Cornell University, Ithaca (2018)
- 5. MD Anderson Cancer Center, Houston, Texas, USA (2018)
- 6. IBM Thomas J. Watson Research Center, Yorktown Heights, NY, USA (2018)
- 7. Aarhus University, Aarhus, Denmark (2017)
- 8. Columbia University, New York, NY, USA (2017)
- 9. Rutgers University, Camden, NJ, USA (2017)
- 10. Icahn School of Medicine at Mount Sinai, New York, NY, USA (2016)
- 11. Five Points Lecture, New York Genome Center, New York, NY, USA (2015)
- 12. University of Massachusetts Medical School, Worcester, MA, USA (2015)
- 13. Wellcome Trust Sanger Institute, Cambridge, UK (2014)
- 14. London Research Institute, London, UK (2014)
- 15. Memorial Sloan Kettering Cancer Center, New York, USA (2014)
- 16. Institute for Systems Genetics, New York University, New York, USA (2014)
- 17. Cornell University, Ithaca, USA (2014)
- 18. University of Toronto, Toronto, Canada (2014)
- 19. University of Montreal, Montreal, Canada (2014)
- 20. Cincinnati Children's Hospital Medical Center, Cincinnati, USA (2014)
- 21. Weill Cornell Medical College, New York, USA (2013)
- 22. University of Calgary, Calgary, Canada (2013)
- 23. Jackson Laboratory for Genomic Medicine, Farmington, CT, USA (2013)
- 24. McGill University and Genome Quebec Innovation Center, Montreal, Canada, (2012)
- 25. Ste Justine University Hospital Research Center, University of Montreal, Montreal, Canada (2011)
- 26. National Center for Biological Sciences, Bangalore, India (2009)
- 27. Yale Center for Genomics and Proteomics, New Haven, CT, USA (2009)
- 28. Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, India (2007)

HONORS AND AWARDS

- 1. WorldQuant Foundation Research Scholar (2021 to Present)
- 2. Irma T. Hirschl Career Scientist Award (2019)
- 3. Chosen for 'Emerging Leaders in Systems-Level Biology symposium' at Cincinnati Children's Hospital Medical Center (2014)
- 4. Featured as 'Promising Young Investigator in Genomics' by GenomeWeb (2013)
- 5. <u>EMBL Corporate Partnership Fellowship</u> for Cancer Genomics conference at EMBL, Germany (2013)

- 6. <u>Travel Grant</u> for CECAM Workshop 'lonic Transport: from Nanopores to Biological Channels' at Lyon, France (2007)
- 7. Chair's fund for Gordon Conference on Computer Aided Drug Design (2007)
- 8. <u>Marie Curie fellowship</u> awarded by International School of Solid State Physics to attend the course 'Computer Simulations in Condensed Matter' at Erice, Italy (2005)
- 9. <u>Science Meritorious Award</u> awarded by Delhi University for academic excellence (1997-1998)

OTHER PROFESSIONAL CONTRIBUTIONS/LEADERSHIP

Leader of 'Genomic Annotations' sub-group for a collaborative effort between TCGA (The Cancer Genome Atlas) and ICGC (International Cancer Genome Consortium) for pan-cancer analysis of whole genomes (2014 to Present)

Steering Committee Member of New York Genome Center Computational Cancer Genomics (2018 to Present)

Invited Faculty Member of F1000 'Bioinformatics, Biomedical Informatics & Computational Biology: Systems & Network Biology' section (2019 to Present)

Invited referee

Nature, Science, Cell, Nature Genetics, Nature Methods, Nature Communications, Cancer Cell, Cell Systems, Cancer Research, Genome Biology, PLoS Genetics, PLoS Computational Biology, eLife, Bioinformatics, Nucleic Acids Research, Scientific Reports, Modern Pathology, Genome Medicine, Molecular Cancer Research, BMC Systems Biology, BMC Genomics, BMC Cancer, Oncotarget, Biophysical Journal, Journal of Physical Chemistry, Soft Matter, Proteins, PLoS One and BMC Research Notes

Editorial Board

Current Protocols in Bioinformatics (2016 to 2018)

Grant Reviewer

NIH GCAT study section (2019)

NSF BIO Advisory Panel (2016, 2017, 2021)

Prostate Cancer UK (2019)

The Royal Society and Wellcome Trust UK (2018)

European Research Council, Medical Research Council UK, Worldwide Cancer Research (2016)

Invited workshops

NHGRI workshop on Computational Genomics & Data Science (2016)

Program Committee Member

GLBIO/CCBC-2016 (Canadian Computational Biology Conference)

RECOMB-Seq/CCB-2015, 2017, 2018, 2019 (Workshops on Massively Parallel Sequencing and Computational Cancer Biology)

AACR-2021 (Bioinformatics, Convergence Science, and System Biology Subcommittee)

Conference Abstract Reviewer/Session Moderator

American Society of Human Genetics Meeting (2016, 2017, 2018)

Participation in outreach activities of 1000 Genomes and ENCODE consortia

ENCODE Data Tutorial at American Society of Human Genetics meeting, Boston, MA (2013) 1000 Genomes Data Tutorial at American Society of Human Genetics meeting, San Francisco, CA (2012)

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