

Genomics Resources

Authors	Title	Journal	Volume	Page	Year	DOI	Instrument	Notes
Alba Rodriguez-Meira, Gemma Buck, Sally-Ann Clark, Benjamin J Povinelli, Veronica Alcolea, Eleni Louka, Simon McGowan, Angela Hamblin, Nikolaos Sousos, Nikolaos Barkas, Alice Giustacchini, Bethan Psaila, Sten Eirik W Jacobsen, Supat Thongjuea, Adam J Mead	Unravelling Intratumoral Heterogeneity through High-Sensitivity Single-Cell Mutational Analysis and Parallel RNA Sequencing	Mol Cell	73	1292-1305	2019	10.1016/j.molcel.2019.01.009	mosquito LV genomics	High-throughput Transcriptomics
Qingyun Li, Zuolin Cheng, Lu Zhou, Spyros Darmanis, Norma F Neff, Jennifer Okamoto, Gunsagar Gulati, Mariko L Bennett, Lu O Sun, Laura E Clarke, Julia Marschallinger, Guoqiang Yu, Stephen R Quake, Tony Wyss-Coray, Ben A Barres	Developmental heterogeneity of microglia and brain myeloid cells revealed by deep single-cell RNA sequencing.	Neuron	101	207-223	2019	10.1016/j.neuron.2018.12.006	mosquito LV genomics	
Sissel E Dyrstad, Deusdedit Tusubira, Stian Knappskog, Karl J Tronstad, Gro V Røslund	Introducing nano-scale quantitative polymerase chain reaction.	Biochem Biophys Res Commun	506	923-926	2018	10.1016/j.bbrc.2018.10.111	mosquito HV genomics	
Angela M Phillips, Michael B Doud, Luna O Gonzalez, Vincent L Butty, Yu-Shan Lin, Jesse D Bloom, Matthew D Shoulders	Enhanced ER proteostasis and temperature differentially impact the mutational tolerance of influenza hemagglutinin.	eLife	7	e38795	2018	10.7554/elife.38795	mosquito HV genomics	
Angela M Phillips, Anna I Ponomarenko, Kenny Chen, Orr Ashenberg, Jiayuan Miao, Sean M McHugh, Vincent L Butty, Charles A Whittaker, Christopher L Moore, Jesse D Bloom, Yu-Shan Lin, Matthew D Shoulders	Destabilized adaptive influenza variants critical for innate immune system escape are potentiated by host chaperones.	PLoS Biol	16	e3000008	2018	10.1371/journal.pbio.3000008	mosquito LV genomics	
Susanne Lager, Marcus C de Goffau, Ulla Sovio, Sharon J Peacock, Julian Parkhill, D Stephen Charnock-Jones, Gordon C S Smith	Detecting eukaryotic microbiota with single-cell sensitivity in human tissue.	Microbiome	6	151	2018	10.1186/s40168-018-0529-x	mosquito LV genomics	
Florian Wimmers, Nikita Subedi, Nicole van Buuringen, Daan Heister, Judith Vivie, Inge Beeren-Reinieren, Rob Woestenenk, Harry Dolstra, Aigars Piruska, Joannes F M Jacobs, Alexander van Oudenaarden, Carl G Figdor, Wilhelm T S Huck, Jolanda M de Vries, Jurjen Tel	Single-cell analysis reveals that stochasticity and paracrine signaling control interferon-alpha production by plasmacytoid dendritic cells.	Nat Commun	9	3317	2018	10.1038/s41467-018-05784-3	mosquito LV genomics	High-throughput Transcriptomics
Alexandra M de Paz, Thaddeus R Cybulski, Adam H Marblestone, Bradley M Zamft, George M Church, Edward S Boyden, Konrad P Kording, Keith E J Tyo	High-resolution mapping of DNA polymerase fidelity using nucleotide imbalances and next-generation sequencing.	Nucleic Acids Res	46	e78	2018	10.1093/nar/gky296	mosquito LV genomics	

Genomics Resources

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Tess Tsai-Hsiu Lu, Steffen Heyne, Erez Dror, Eduard Casas, Laura Leonhardt, Thorina Boenke, Chih-Hsiang Yang, Sagar, Laura Arrigoni, Kevin Dalgaard, Raffaele Teperino, Lennart Enders, Madhan Selvaraj, Marius Ruf, Sunil J Raja, Huafeng Xie, Ulrike Boenisch, Stuart H Orkin, Francis C Lynn, Brad G Hoffman, Dominic Grün, Tanya Vavouri, Adelheid M Lempradl, J Andrew Pospisilik	The Polycomb-Dependent Epigenome Controls β Cell Dysfunction, Dedifferentiation, and Diabetes.	Cell Metab	27	1294-1308	2018	10.1016/j.cmet.2018.04.013	mosquito LV genomics	
Josip S Herman, Sagar, Dominic Grün	FateID infers cell fate bias in multipotent progenitors from single-cell RNA-seq data. Nature methods.	Nat Methods	15	379-386	2018	10.1038/nmeth.4662	mosquito LV genomics	High-throughput Transcriptomics
Fabio Zanini, Szu-Yuan Pu, Elena Bekerman, Shirin Einav, Stephen R Quake	Single-cell transcriptional dynamics of flavivirus infection	eLife	7	e32942	2018	10.7554/elife.32942	mosquito X1; mosquito LV genomics; mosquito HV genomics	
Sagar, Josip Stefan Herman, John Andrew Pospisilik, Dominic Grün	High-Throughput Single-Cell RNA Sequencing and Data Analysis.	Methods Mol Biol	1766	257-283	2018	10.1007/978-1-4939-7768-0_15	mosquito LV genomics	High-throughput Transcriptomics
Audrey P Gasch, Feiqiao Brian Yu, James Hose, Leah E Escalante, Mike Place, Rhonda Bacher, Jad Kanbar, Doina Ciobanu, Laura Sandor, Igor V Grigoriev, Christina Kendzioriski, Stephen R Quake, Megan N McClean	Single-cell RNA-seq reveals intrinsic and extrinsic regulatory heterogeneity in yeast responding to stress	PLoS Biol	15	e2004050	2017	10.1371/journal.pbio.2004050	mosquito X1; mosquito LV genomics	
Rahul Sinha, Geoff Stanley, Gunsagar S. Gulati, Camille Ezran, Kyle J. Travaglini, Eric Wei, Charles K.F. Chan, Ahmad N. Nabhan, Tianying Su, Rachel M. Morganti, Stephanie D. Conley, Hassan Chaib, Kristy Red-Horse, Michael T. Longaker, Michael P. Snyder, Mark A. Krasnow, Irving L. Weissman	Index Switching Causes "Spreading-Of-Signal" Among Multiplexed Samples In Illumina HiSeq000 DNA Sequencing	bioRxiv			2017	10.1101/125724		
Pang Wei Koh, Rahul Sinha, Amira A Barkal, Rachel M Morganti, Angela Chen, Irving L Weissman, Lay Teng Ang, Anshul Kundaje, Kyle M Loh	An atlas of transcriptional, chromatin accessibility, and surface marker changes in human mesoderm development.	Sci Data	3	160109	2016	10.1038/sdata.2016.109	mosquito X1; mosquito LV genomics; mosquito HV genomics	

Genomics Resources

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Laura Herrtwich, Indrajit Nanda, Konstantinos Evangelou, Teodora Nikolova, Veronika Horn, Sagar, Daniel Erny, Jonathan Stefanowski, Leif Rogell, Claudius Klein, Kourosh Gharun, Marie Follo, Maximilian Seidl, Bernhard Kremer, Nikolas Minke, Julia Senges, Manfred Fliegau, Tom Aschman, Dietmar Pfeifer, Sandrine Sarrazin, Michael H Sieweke, Dirk Wagner, Christine Dierks, Thomas Haaf, Thomas Ness, Mario M Zaiss, Reinhard E Voll, Sachin D Deshmukh, Marco Prinz, Torsten Goldmann, Christoph Hölischer, Anja E Hauser, Andres J Lopez-Contreras, Dominic Grün, Vassilis Gorgoulis, Andreas Diefenbach, Philipp Henneke, Antigoni Triantafyllopoulou	DNA Damage Signaling Instructs Polyploid Macrophage Fate in Granulomas	Cell	167	1264-1280	2016	10.1016/j.cell.2016.09.054	mosquito LV genomics	High-throughput Transcriptomics
Laura Herrtwich, Indrajit Nanda, Konstantinos Evangelou, Teodora Nikolova, Veronika Horn, Sagar, Daniel Erny, Jonathan Stefanowski, Leif Rogell, Claudius Klein, Kourosh Gharun, Marie Follo, Maximilian Seidl, Bernhard Kremer, Nikolas Minke, Julia Senges, Manfred Fliegau, Tom Aschman, Dietmar Pfeifer, Sandrine Sarrazin, Michael H Sieweke, Dirk Wagner, Christine Dierks, Thomas Haaf, Thomas Ness, Mario M Zaiss, Reinhard E Voll, Sachin D Deshmukh, Marco Prinz, Torsten Goldmann, Christoph Hölischer, Anja E Hauser, Andres J Lopez-Contreras, Dominic Grün, Vassilis Gorgoulis, Andreas Diefenbach, Philipp Henneke, Antigoni Triantafyllopoulou	DNA Damage Signaling Instructs Polyploid Macrophage Fate in Granulomas	Cell	167	1264-1280	2016	10.1016/j.cell.2016.09.054	mosquito HV genomics; mosquito LV genomics	
Qing Mao, Serban Ciotlos, Rebecca Yu Zhang, Madeleine P Ball, Robert Chin, Paolo Carnevali, Nina Barua, Staci Nguyen, Misha R Agarwal, Tom Clegg, Abram Connelly, Ward Vandewege, Alexander Wait Zaranek, Preston W Estep, George M Church, Radoje Drmanac, Brock A Peters	The whole genome sequences and experimentally phased haplotypes of over 100 personal genomes.	Gigascience	5	42	2016	10.1186/s13742-016-0148-z	mosquito X1; mosquito LV genomics; mosquito HV genomics	
Sergio Mora-Castilla, Cuong To, Soheila Vaezslami, Robert Morey, Srimeenakshi Srinivasan, Jennifer N Dumdie, Heidi Cook-Andersen, Joby Jenkins, Louise C Laurent	Miniaturization Technologies for Efficient Single-Cell Library Preparation for Next-Generation Sequencing	J Lab Autom	21	557-567	2016	10.1177/2211068216630741	mosquito HV genomics; mosquito LV genomics	
Kyle M Loh, Angela Chen, Pang Wei Koh, Tianda Z Deng, Rahul Sinha, Jonathan M Tsai, Amira A Barkal, Kimberle Y Shen, Rajan Jain, Rachel M Morganti, Ng Shyh-Chang, Nathaniel B Fernhoff, Benson M George, Gerlinde Wernig, Rachel E A Salomon, Zhenghao Chen, Hannes Vogel, Jonathan A Epstein, Anshul Kundaje, William S Talbot, Philip A Beachy, Lay Teng Ang, Irving L Weissman	Mapping the Pairwise Choices Leading from Pluripotency to Human Bone, Heart, and Other Mesoderm Cell Types.	Cell	166	451-467	2016	10.1016/j.cell.2016.06.011	mosquito LV; mosquito X1; mosquito LV Genomics	

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Wendy Gaisford	Robotic liquid handling and automation in epigenetics.	J Lab Autom	17	327-329	2012	10.1177/2211068212457160	mosquito HV genomics; mosquito LV genomics	