



## Kevin Van Bortle

Postdoctoral Research Fellow, Genetics

### Bio

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#### PROFESSIONAL EDUCATION

- Bachelor of Science, University of Rochester (2009)
- Doctor of Philosophy, Emory University (2014)

#### STANFORD ADVISORS

- Michael Snyder, Postdoctoral Faculty Sponsor

### Publications

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#### PUBLICATIONS

- **Static and Dynamic DNA Loops form AP-1-Bound Activation Hubs during Macrophage Development.** *Molecular cell*  
Phanstiel, D. H., Van Bortle, K., Spacek, D., Hess, G. T., Shamim, M. S., Machol, I., Love, M. I., Aiden, E. L., Bassik, M. C., Snyder, M. P.  
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- **Topological organization and dynamic regulation of human tRNA genes during macrophage differentiation.** *Genome biology*  
Van Bortle, K., Phanstiel, D. H., Snyder, M. P.  
2017; 18 (1): 180
- **Integrated tRNA, transcript, and protein profiles in response to steroid hormone signaling** *RNA*  
Van Bortle, K., Nichols, M. H., Ramos, E., Corces, V. G.  
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- **CTCF-dependent co-localization of canonical Smad signaling factors at architectural protein binding sites in *D. melanogaster*** *CELL CYCLE*  
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- **Insulator function and topological domain border strength scale with architectural protein occupancy** *GENOME BIOLOGY*  
Van Bortle, K., Nichols, M. H., Li, L., Ong, C., Takenaka, N., Qin, Z. S., Corces, V. G.  
2014; 15 (6)
- **Poly(ADP-ribosylation) Regulates Insulator Function and Intrachromosomal Interactions in *Drosophila*** *CELL*  
Ong, C., Van Bortle, K., Ramos, E., Corces, V. G.  
2013; 155 (1): 148-159
- ***Drosophila* CTCF tandemly aligns with other insulator proteins at the borders of H3K27me3 domains** *GENOME RESEARCH*  
Van Bortle, K., Ramos, E., Takenaka, N., Yang, J., Wahi, J. E., Corces, V. G.  
2012; 22 (11): 2176-2187
- **Regulation of Chromatin Organization and Inducible Gene Expression by a *Drosophila* Insulator** *MOLECULAR CELL*  
Wood, A. M., Van Bortle, K., Ramos, E., Takenaka, N., Rohrbaugh, M., Jones, B. C., Jones, K. C., Corces, V. G.

2011; 44 (1): 29-38

- **Disruption of mesoderm formation during cardiac differentiation due to developmental exposure to 13-cis-retinoic acid.** *Scientific reports*  
Liu, Q., Van Bortle, K., Zhang, Y., Zhao, M., Zhang, J. Z., Geller, B. S., Gruber, J. J., Jiang, C., Wu, J. C., Snyder, M. P.  
2018; 8 (1): 12960
- **Genome-Wide Temporal Profiling of Transcriptome and Open Chromatin of Early Cardiomyocyte Differentiation Derived From hiPSCs and hESCs.** *Circulation research*  
Liu, Q., Jiang, C., Xu, J., Zhao, M. T., Van Bortle, K., Cheng, X., Wang, G., Chang, H. Y., Wu, J. C., Snyder, M. P.  
2017; 121 (4): 376-91
- **Intranuclear dynamics of the Nup107-160 complex** *MOLECULAR BIOLOGY OF THE CELL*  
Morchoisne-Bolhy, S., Geoffroy, M., Bouhrel, I. B., Alves, A., Auduge, N., Baudin, X., Van Bortle, K., Powers, M. A., Doye, V.  
2015; 26 (12): 2343-2356
- **Lost in Transition: Dynamic Enhancer Organization across Naive and Primed Stem Cell States** *CELL STEM CELL*  
Van Bortle, K., Corces, V. G.  
2014; 14 (6): 693-694
- **Distinct isoforms of the Drosophila Brd4 homologue are present at enhancers, promoters and insulator sites** *NUCLEIC ACIDS RESEARCH*  
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2013; 41 (20): 9274-9283
- **Dynamic changes in the genomic localization of DNA replication-related element binding factor during the cell cycle** *CELL CYCLE*  
Gurudatta, B. V., Yang, J., Van Bortle, K., Donlin-Asp, P. G., Corces, V. G.  
2013; 12 (10): 1605-1615
- **The role of chromatin insulators in nuclear architecture and genome function** *CURRENT OPINION IN GENETICS & DEVELOPMENT*  
Van Bortle, K., Corces, V. G.  
2013; 23 (2): 212-218
- **Spinning the Web of Cell Fate** *CELL*  
Van Bortle, K., Corces, V. G.  
2013; 152 (6): 1213-1217
- **tDNA insulators and the emerging role of TFIIC in genome organization.** *Transcription*  
Van Bortle, K., Corces, V. G.  
2012; 3 (6): 277-284
- **Genome-wide phosphoacetylation of histone H3 at Drosophila enhancers and promoters** *GENOME RESEARCH*  
Kellner, W. A., Ramos, E., Van Bortle, K., Takenaka, N., Corces, V. G.  
2012; 22 (6): 1081-1088
- **Nuclear Organization and Genome Function** *ANNUAL REVIEW OF CELL AND DEVELOPMENTAL BIOLOGY, VOL 28*  
Van Bortle, K., Corces, V. G.  
2012; 28: 163-187