

# Stanford

---

## Hannah Long

Postdoctoral Research Fellow, Chemical and Systems Biology

### Bio

---

#### PROFESSIONAL EDUCATION

- Doctor of Philosophy, University of Oxford (2014)
- Bachelor of Arts, University of Cambridge (2009)

#### STANFORD ADVISORS

- Joanna Wysocka, Postdoctoral Faculty Sponsor

### Publications

---

#### PUBLICATIONS

- **The Spatiotemporal Pattern and Intensity of p53 Activation Dictates Phenotypic Diversity in p53-Driven Developmental Syndromes.** *Developmental cell*  
Bowen, M. E., McClendon, J., Long, H. K., Sorayya, A., Van Nostrand, J. L., Wysocka, J., Attardi, L. D.  
2019
- **Single Amino Acid Change Underlies Distinct Roles of H2A.Z Subtypes in Human Syndrome.** *Cell*  
Greenberg, R. S., Long, H. K., Swigut, T., Wysocka, J.  
2019; 178 (6): 1421–36.e24
- **Biochemical Identification of Nonmethylated DNA by BioCAP-Seq.** *Methods in molecular biology (Clifton, N.J.)*  
Long, H. K., Rose, N. R., Blackledge, N. P., Klose, R. J.  
2018; 1766: 15–29
- **The SET1 Complex Selects Actively Transcribed Target Genes via Multivalent Interaction with CpG Island Chromatin.** *Cell reports*  
Brown, D. A., Di Cerbo, V., Feldmann, A., Ahn, J., Ito, S., Blackledge, N. P., Nakayama, M., McClellan, M., Dimitrova, E., Turberfield, A. H., Long, H. K., King, H. W., Kriacounis, et al  
2017; 20 (10): 2313–27
- **Successful transmission and transcriptional deployment of a human chromosome via mouse male meiosis** *ELIFE*  
Ernst, C., Pike, J., Aitken, S. J., Long, H. K., Eling, N., Stojic, L., Ward, M. C., Connor, F., Rayner, T. F., Lukk, M., Klose, R. J., Kutter, C., Odo, et al  
2016; 5
- **Ever-Changing Landscapes: Transcriptional Enhancers in Development and Evolution** *CELL*  
Long, H. K., Prescott, S. L., Wysocka, J.  
2016; 167 (5): 1170-1187
- **Protection of CpG islands from DNA methylation is DNA-encoded and evolutionarily conserved** *NUCLEIC ACIDS RESEARCH*  
Long, H. K., King, H. W., Patient, R. K., Odom, D. T., Klose, R. J.  
2016; 44 (14): 6693-6706
- **Variant PRC1 complex-dependent H2A ubiquitylation drives PRC2 recruitment and polycomb domain formation.** *Cell*  
Blackledge, N. P., Farcas, A. M., Kondo, T., King, H. W., McGouran, J. F., Hanssen, L. L., Ito, S., Cooper, S., Kondo, K., Koseki, Y., Ishikura, T., Long, H. K., Sheahan, et al  
2014; 157 (6): 1445–59
- **Epigenetic conservation at gene regulatory elements revealed by non-methylated DNA profiling in seven vertebrates.** *eLife*

---

Long, H. K., Sims, D., Heger, A., Blackledge, N. P., Kutter, C., Wright, M. L., Grützner, F., Odom, D. T., Patient, R., Ponting, C. P., Klose, R. J.  
2013; 2: e00348

● **ZF-CxxC domain-containing proteins, CpG islands and the chromatin connection.** *Biochemical Society transactions*

Long, H. K., Blackledge, N. P., Klose, R. J.  
2013; 41 (3): 727–40

● **Bio-CAP: a versatile and highly sensitive technique to purify and characterise regions of non-methylated DNA.** *Nucleic acids research*

Blackledge, N. P., Long, H. K., Zhou, J. C., Kriaucionis, S., Patient, R., Klose, R. J.  
2012; 40 (4): e32

● **KDM2B links the Polycomb Repressive Complex 1 (PRC1) to recognition of CpG islands.** *eLife*

Farcas, A. M., Blackledge, N. P., Sudbery, I., Long, H. K., McGouran, J. F., Rose, N. R., Lee, S., Sims, D., Cerase, A., Sheahan, T. W., Koseki, H., Brockdorff, N., Ponting, et al  
2012; 1: e00205

● **DHODH modulates transcriptional elongation in the neural crest and melanoma** *NATURE*

White, R. M., Cech, J., Ratanasirintraooot, S., Lin, C. Y., Rahl, P. B., Burke, C. J., Langdon, E., Tomlinson, M. L., Mosher, J., Kaufman, C., Chen, F., Long, H. K., Kramer, et al  
2011; 471 (7339): 518-522