
CURRICULUM VITAE

JULIA ZEITLINGER

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EDUCATION

- 2000 Ph.D. in Molecular Biology
 University of London, U.K., and
 European Molecular Biology Laboratory, Germany
- 1995 B.Sc. in Human Biology, First Class Honours
 King's College London, U.K.

RESEARCH EXPERIENCE

- 2008-present Assistant Professor of Pathology and Laboratory Medicine
 Division of Cancer & Developmental Biology
 The University of Kansas Medical Center
- 2007-present Assistant Investigator
 Stowers Institute for Medical Research
 Transcriptional regulatory networks in *Drosophila*
- 2000-2007 Postdoctoral studies with Richard Young
 Whitehead Institute for Biomedical Research
 Transcriptional regulatory networks in yeast and *Drosophila*
- 1995-2000 Ph.D. thesis work with Dirk Bohmann
 European Molecular Biology Laboratory, Germany
 The role of the transcription factor Fos in *Drosophila*
- 1994-1995 Undergraduate research project with Malcolm Maden and Nigel Holder
 King's College London, U.K.
 The role of retinoic acid in zebrafish development

HONORS & AWARDS

2008-2013	2008 NIH Director's New Innovator Award, National Institutes of Health
2008-2012	2008 Pew Scholar in Biomedical Sciences, Pew Charitable Trusts
2000-2003	Human Frontiers Science Program Long-Term Fellow
1995-1999	EMBL Ph.D. Student
1992-1995	German National Academic Foundation ("Studienstiftung")

CURRENT GRANTS

2008-2013	"Investigating developmental potential based on a genome-wide chromatin status," National Institutes of Health, 2008 NIH Director's New Innovator Award, \$1,500,000 (total direct costs).
2008-2012	"The role of RNA polymerase stalling in cellular memory during <i>Drosophila</i> development," Pew Charitable Trusts, 2008 Pew Scholar in Biomedical Sciences, \$240,000 (\$222,224 total direct costs)

INVITED REVIEW ARTICLES

Zeitlinger, J. (2011)

Book review of Evolution, Development, and the Predictable Genome, by David L. Stern.
Am J Hum Biol, 23(2), 234-236.

Zeitlinger, J., Stark, A. (2010)

Developmental gene regulation in the era of genomics.
Dev Biol, 339(2), 230-239.

PEER-REVIEWED PUBLICATIONS

He, Q.*, Bardet, A.*, Patton, B., Purvis, J., Johnston, J., Paulson, A., Gogol, M., Stark, Al,
Zeitlinger, J. (2011)

High conservation of transcription factor binding and evidence for combinatorial regulation across six *Drosophila* species.
Nat Genet, 43(5), 414-421.

Hendrix, D., Hong, J.W., **Zeitlinger, J.**, Rokhsar, D.S., Levine, M. (2008)

Promoter elements associated with RNA Pol II stalling in the *Drosophila* embryo.
Proc Natl Acad Sci, 105(22), 7762-7767.

Zeitlinger, J., Stark, A., Kellis, M., Hong, J.-W., Nechaev, S., Adelman, K., Levine, M., Young, R.A. (2007)

RNA polymerase stalling at developmental control genes in the *Drosophila melanogaster* embryo.
Nat Genet., 39, 1512-16.

Muse, G.W., Gilchrist, D.A., Nechaev, S., Shah, R., Parker, J.S., Grissom, S.F., **Zeitlinger, J.**, Adelman, K. (2007)

RNA polymerase is poised for activation across the genome.
Nat Genet., 39, 1507-11.

Zeitlinger, J., Zinzen, R., Stark, A., Kellis, M., Zhang, H., Young, R.A., Levine, M. (2007)
Whole-genome ChIP-chip analysis of Dorsal, Twist and Snail suggests integration of diverse patterning processes in the *Drosophila* embryo.
Genes Dev., 21, 385-90.

Qi, Y., Rolfe, A., MacIsaac, K.D., Gerber, G.K., Pokholok, D., **Zeitlinger, J.**, Danford, T., Dowell, R.D., Fraenkel, E., Jaakkola, T.S., Young, R.A., Gifford, D.K. (2006)
High-resolution computational models of genome binding events.
Nat Biotechnol., 24, 963-70.

Zeitlinger, J.*, Pokholok, D.K.*, Hannett, N.M., Reynolds, D.B., Young, R.A. (2006)
Activated signal transduction kinases frequently occupy target genes.
Science, 313, 533-6.

Boyer, L.A., Plath, K., **Zeitlinger, J.**, Brambrink, T., Medeiros, L.A., Lee, T.I., Levine, S.S., Wernig, M., Tajonar, A., Ray, M.K., Bell, G.W., Otte, A.P., Vidal, M., Gifford, D.K., Young, R.A., Jaenisch, R. (2006)
Polycomb complexes repress developmental regulators in murine embryonic stem cells.
Nature, 441, 349-53.

Pokholok, D.K., Harbison, C.T., Levine, S., Cole, M., Hannett, N.H., Lee, T.I., Walker, K., Liewitter, F., Rolfe, P.A., Herbolsheimer, E., Bell, G.W., **Zeitlinger, J.**, Gifford, D.K. and Young, R.A. (2005)
Genome-wide map of nucleosome acetylation and methylation in yeast.
Cell, 122, 517-27.

Harbison, C.T., Gordon, D.B., Lee, T.I., Rinaldi, N.J., Macisaac, K.D., Danford, T.W., Hannett, N.M., Tagne, J.-B., Reynolds, D.B., Yoo, J., Jennings, E.G., **Zeitlinger, J.**, Pokholok, D.K., Kellis, M., Rolfe, A., Takusagawa, K.T., Lander, E.S., Gifford, D.K., Fraenkel, E. and Young, R.A. (2004)
Transcriptional regulatory code of a eukaryotic genome.
Nature, 431, 99-104.

Zeitlinger, J., Simon, I., Harbison, C.T., Hannett, N.M., Volkert, T.L., Fink, G.F. and Young, R.A. (2003)
Program-specific distribution of a transcription factor dependent on partner transcription factor and MAPK signaling.
Cell, 113, 395-404.

Lee, T.I., Rinaldi, N.J., Robert, F., Odom, D.T., Bar-Joseph, Z., Gerber, G.K., Hannett, N.M., Harbison, C.T., Thompson, C.M., Simon, I., **Zeitlinger, J.**, Jennings, E.G., Murray, H.L., Gordon, D.B., Ren, B., Wyrick, J.J., Tagne, J.B., Volkert, T.L., Fraenkel, E., Gifford, D.K. and Young, R.A. (2002)

Transcriptional regulatory networks in *Saccharomyces cerevisiae*.
Science, 298, 799-804.

Simon, I., Barnett, J., Hannett, N., Harbison, C.T., Rinaldi, N.J., Volkert, T.L., Wyrick, J.J., **Zeitlinger, J.**, Gifford, D.K., Jaakkola, T.S. and Young, R.A. (2001)

Serial regulation of transcriptional regulators in the yeast cell cycle.
Cell, 106, 697-708.

Ren, B., Robert, F., Wyrick, J.J., Aparicio, O., Jennings, E.G., Simon, I., **Zeitlinger, J.**, Schreiber, J., Hannett, N., Kanin, E., Volkert, T.L., Wilson, C.J., Bell, S.P. and Young, R.A. (2000)

Genome-wide location and function of DNA binding proteins.
Science, 290, 2306-2309.

Zeitlinger, J. and Bohmann, D. (1999)

Thorax closure in *Drosophila*: involvement of Fos and the JNK pathway.
Development, 126, 3947-3956.

Zeitlinger, J., Kockel, L., Peverali, F.A., Jackson, D.B., Mlodzik, M. and Bohmann, D. (1997)
Defective dorsal closure and loss of epidermal decapentaplegic expression in *Drosophila fos* mutants.

Embo J, 16, 7393-7401.

Kockel, L., **Zeitlinger, J.**, Staszewski, L.M., Mlodzik, M. and Bohmann, D. (1997)

Jun in *Drosophila* development: redundant and nonredundant functions and regulation by two MAPK signal transduction pathways.

Genes Dev, 11, 1748-1758.

Costaridis, P., Horton, C., **Zeitlinger, J.**, Holder, N. and Maden, M. (1996)

Endogenous retinoids in the zebrafish embryo and adult.

Dev Dyn, 205, 41-51.