

Curriculum Vitae – Harinder Singh (A7)

Surname	Singh
First name(s)	Harinder
Acad. Title	Professor, Ph.D.
Date of birth	01.02.1957



Scientific background:

from	to	Training and positions
1977		B.Sc. , Biochemistry, Punjab Agricultural University, Punjab, India
1979		M.Sc. , Biochemistry, Punjab Agricultural University, Punjab, India
1984		Ph.D. , Mol. Biol. & Biochem., Northwestern University, Evanston, IL
1988		Post-Doc , Mol. Biol., M.I.T., Cambridge, MA
1979	1984	Graduate Research Assistant , Department of Biochemistry, Molecular Biology and Cell Biology, Northwestern University
1984	1987	Jane Coffin Childs Postdoctoral Fellow , Center for Cancer Research, MIT
1987	1988	Postdoctoral Associate , Center for Cancer Research, MIT
1989	1995	Asst. Prof. , Dept. of Molecular Genetics and Cell Biology, The University of Chicago; Assistant Investigator , Howard Hughes Medical Institute
1995	2000	Assoc. Prof. , Dept. of Molecular Genetics and Cell Biology, The University of Chicago; Associate Investigator , Howard Hughes Medical Institute
2000	2002	Professor , Dept. of Molecular Genetics and Cell Biology, The University of Chicago; Associate Investigator , Howard Hughes Medical Institute
2002	2009	Professor , Dept. of Molecular Genetics and Cell Biology, The University of Chicago; Investigator , Howard Hughes Medical Institute
2009	2013	Senior Director and Staff Scientist , Discovery Immunology, Genentech; Adjunct Professor , Department of Microbiology and Immunology, UCSF
2013	present	Director , Division of Immunobiology and Center for Systems Immunology, Cincinnati Children's Hospital Medical Center

Ten most significant publications

- Olsson, A., Venkatasubramanian, M., Chaudhri, V., Aronow, B.J., Salomonis, N.*, **Singh, H.***, Grimes, H.L.* (2016) Single-cell analysis of mixed-lineage states leading to a binary cell fate choice. **Nature**, Epub ahead of print *co-senior authors
- Xu, H., Chaudhri, V. K., Wu, Z., Biliouris, K., Dienger-Stambaugh, K., Rochman, Y., and **Singh, H.** (2015) Regulation of bifurcating B cell trajectories by mutual antagonism between transcription factors IRF4 and IRF8. *Nat Immunol* **16**, 1274-1281
- Zullo, J. M., Demarco, I. A., Pique-Regi, R., Gaffney, D. J., Epstein, C. B., Spooner, C. J., Luperchio, T. R., Bernstein, B. E., Pritchard, J. K., Reddy, K. L., and **Singh, H.** (2012) DNA

sequence-dependent compartmentalization and silencing of chromatin at the nuclear lamina. *Cell* **149**, 1474-1487

4. Glasmacher, E., Agrawal, S., Chang, A. B., Murphy, T. L., Zeng, W., Vander Lugt, B., Khan, A. A., Ciofani, M., Spooner, C. J., Rutz, S., Hackney, J., Nurieva, R., Escalante, C. R., Ouyang, W., Littman, D. R., Murphy, K. M., and **Singh, H.** (2012) A genomic regulatory element that directs assembly and function of immune-specific AP-1-IRF complexes. *Science* **338**, 975-980
5. Spooner, C. J., Cheng, J. X., Pujadas, E., Laslo, P., and **Singh, H.** (2009) A recurrent network involving the transcription factors PU.1 and Gfi1 orchestrates innate and adaptive immune cell fates. *Immunity* **31**, 576-586
6. Reddy, K. L., Zullo, J. M., Bertolino, E., and **Singh, H.** (2008) Transcriptional repression mediated by repositioning of genes to the nuclear lamina. *Nature* **452**, 243-247
7. Laslo, P., Spooner, C. J., Warmflash, A., Lancki, D. W., Lee, H. J., Sciammas, R., Gantner, B. N., Dinner, A. R., and **Singh, H.** (2006) Multilineage transcriptional priming and determination of alternate hematopoietic cell fates. *Cell* **126**, 755-766
8. Kosak, S. T., Skok, J. A., Medina, K. L., Riblet, R., Le Beau, M. M., Fisher, A. G., and **Singh, H.** (2002) Subnuclear compartmentalization of immunoglobulin loci during lymphocyte development. *Science* **296**, 158-162
9. DeKoter, R. P., and **Singh, H.** (2000) Regulation of B lymphocyte and macrophage development by graded expression of PU.1. *Science* **288**, 1439-1441
10. Scott, E. W., Simon, M. C., Anastasi, J., and **Singh, H.** (1994) Requirement of transcription factor PU.1 in the development of multiple hematopoietic lineages. *Science* **265**, 1573-1577