

Dr. Howard Cedar

Major Publications

- 1973 Cedar, H. and Felsenfeld, G. Transcription of chromatin *in vitro*. J. Mol. Biol. **77**, 237-254.
- 1973 Axel, R., Cedar, H. and Felsenfeld, G. The synthesis of globin RNA from duck reticulocyte chromatin *in vitro*. Proc. Natl. Acad. Sci. USA **70**, 2029-2032.
- 1973 Cedar, H., Axel, R. and Felsenfeld, G. Chromatin, structure and function. Fogarty International Symposium **26**, 243-256.
- 1973 Axel, R., Cedar, H. and Felsenfeld, G. Chromatin template activity and chromatin structure. Cold Spring Harbor Symp. Quant. Biol. **38**, 312-330.
- 1980 Pollack, Y., Stein, R., Razin, A. and Cedar, H. Methylation of foreign sequences in eukaryotic cells. Proc. Natl. Acad. Sci. USA **77**, 6463-6467.
- 1981 Naveh, T. and Cedar, H. Active gene sequences are undermethylated. Proc. Natl. Acad. Sci. USA. **78**, 4246-4250.
- 1981 Gruenbaum, Y., Naveh-Many, T., Cedar, H. and Razin, A. Sequence specificity of methylation in higher plant DNA. Nature **292**, 860-862.
- 1982 Gruenbaum, Y., Cedar, H. and Razin, A. Substrate and sequence specificity of a eukaryotic DNA methylase. Nature **295**, 620-622.
- 1983 Stein, R., Sciaky-Gallili, N., Razin, A. and Cedar, H. The pattern of methylation of two genes coding for housekeeping functions. Proc. Natl. Acad. Sci. USA **80**, 2422-2426.
- 1983 Kerem, B., Goitein, R., Richler, C., Marcus, M. and Cedar, H. *In situ* nick-translation distinguishes between active and inactive X chromosomes. Nature **304**, 88-90.
- 1984 Kerem, B., Goitein, R., Diamond, G., Cedar, H. and Marcus, M. Mapping of DNaseI sensitive regions on mitotic chromosomes. Cell **38**, 493-499.
- 1984 Rosenthal, A., Wright, S., Cedar, H., Flavell, R. and Grosveld, F. Regulated expression of an introduced MHC H-2K¹ gene in murine embryonal carcinoma cells. Nature **310**, 415-418.
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- 1986 Keshet, I., Lieman-Hurwitz, J. and Cedar, H. DNA methylation affects the formation of active chromatin. Cell **44**, 535-543.
- 1986 Yisraeli, J., Adelstein, R., Melloul, D., Nudel, U., Yaffe, D. and Cedar, H. Muscle-specific activation of a methylated chimeric actin gene. Cell **46**, 409-416.
- 1988 Cedar, H. DNA methylation and gene activity. Cell **53**, 3-4.
- 1989 Handeli, S., Klar, A., Meuth, M. and Cedar, H. Mapping replication units in animal cells. Cell **57**, 909-920.
- 1990 Paroush, Z., Keshet, I., Yisraeli, Y. and Cedar, H. Dynamics of demethylation and activation of the α -actin gene in myoblasts. Cell **63**, 1229-1237.
- 1991 Frank, D., Keshet, I., Shani, M., Levin, A., Razin, A. and Cedar, H. Demethylation of CpG islands in embryonic cells. Nature **351**, 239-241.
- 1992 Selig, S., Okumura, K., Ward, D.C. and Cedar, H. Delineation of DNA replication time zones by fluorescence in situ hybridization. EMBO J. **11**, 1217-1225.

- 1992 Kafri, T., Ariel, M., Brandeis, M., Shemer, R., Urven, L., McCarrey, J., Cedar, H. and Razin, A. Developmental pattern of gene specific DNA methylation in the mouse embryo and germ line. *Genes Dev.* **6**, 705-714.
- 1993 Stoger, R., Kubicka, P., Liu, C.-G., Kafri, T., Razin, A., Cedar, H. and Barlow, D.P. Maternal-specific methylation of the imprinted mouse *Igf2r* locus identifies the expressed locus as carrying the imprinting signal. *Cell* **73**, 61-71.
- 1993 Kitsberg, D., Selig, S., Brandeis, M., Simon, I., Keshet, I., Driscoll, D.J., Nicholls, R.D. and Cedar, H. Allele specific replication timing of imprinted gene regions. *Nature* **364**, 459-463.
- 1993 Kitsberg, D., Selig, S., Keshet, I. and Cedar, H. Replication structure of the human β -globin gene domain. *Nature* **366**, 588-590.
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- 1994 Brandeis, M., Frank, D., Keshet, I., Siegfried, Z., Mendelsohn, M., Nemes, A., Temper, V., Razin, A. and Cedar, H. Sp1 elements protect a CpG island from de novo methylation. *Nature* **371**, 435-438.
- 1995 Ariel, M., Robinson, E., McCarrey, J.R. and Cedar, H. Gamete-specific methylation imprints on the *Xist* gene. *Nature Genet.* **9**, 312-315.
- 1995 Eden, S. and Cedar, H., Genomic imprinting: action at a distance (News and Views). *Nature* **375**, 16-17.
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- 1998 Eden, S., Hashimshony, T., Keshet, I., Thorne, A.W. and Cedar, H. DNA methylation models histone acetylation. *Nature* **394**, 842-843.
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- 1999 Simon, I., Tenzen, T., Reubinoff, B.E., Hillman, D., McCarrey, J.R. and Cedar, H. Asynchronous replication of imprinted genes is established in the gametes and maintained during development. *Nature*, **401**, 929-932.
- 2001 Mostoslavsky, R., Singh, N., Tenzen, T., Goldmit, M., Gabay, C., Elizur, S., Qi, P., Reubinoff, B.E., Chess, A., Cedar, H., and Bergman, Y. Asynchronous replication and allelic exclusion in the immune system. *Nature* **411**, 221-225.
- 2002 Zhang, J., Feng, X., Hashimshony, T., Keshet, I. and Cedar, H. The establishment of transcriptional competence in early and late S-phase. *Nature* **420**, 198-202.
- 2003 Hashimshony, T., Zhang, J., Keshet, I., Bustin, M. and Cedar, H. The role of DNA methylation in setting up chromatin structure during development. *Nature Genet.* **34**, 187-192.