

Rudolf Jaenisch

CURRICULUM VITAE

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Redaktioneller Beirat, *Developmental Dynamics*, 1992-2000
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1996 Boehringer Mannheim Molecular Bioanalytics Prize
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Werdegang:

9/68-1/70 Postdoctoral Fellow, Max-Planck-Institut für Biochemie, München, Deutschland. Forschungen zur Replikation und Transkription von *E. coli*-Phagen M13 und PhiX174.

2/70-2/72 Postdoctoral Fellow in der Forschungsgruppe von Dr. Arnold Levine, Abteilung für Biochemie, Princeton University, Princeton, New Jersey. Forschungen zu Replikation, Transkription und Transformation beim SV40-Virus.

2/72-10/72 Visiting Fellow in der Forschungsgruppe von Dr. Beatrice Mintz, Institut für Krebsforschung, Fox Chase, Philadelphia, Pennsylvania. Forschungen zu *In-vitro*-Züchtung und Reimplantation von isolierten Mausembryos; Mikromanipulationstechniken.

11/72-1/76
1/76-1/77 Assistant Research Professor, The Salk Institute, La Jolla, CA, Associate Research Professor, The Salk Institute, La Jolla, CA. Forschungen zur Interaktion von Viren mit frühen Säugetierembryos, Entwicklung der ersten transgenen Maus.

2/77-7/84 Leiter der Abteilung für Tumorstudiologie, Heinrich-Pette-Institut für Experimentelle Virologie und Immunologie, Universität Hamburg, Deutschland. Forschungen zu genetischen Erkrankungen, Krebs und der Entwicklung von Säugetieren.

7/84-heute Mitglied, Whitehead Institute for Biomedical Research, und Professor für Biologie, Massachusetts Institute of Technology, Cambridge, Massachusetts. Forschungen zu Krebs, epigenetischer Regulation, Entwicklungsbiologie und Klonen per Zellkerntransfer.

Peer-Review-Publikationen:

1. Jaenisch, R., Hofschneider, P.H., & Preuss, A. On the tertiary structure and biological properties of fX 174 replicative form. *J. Mol. Biol.* **21**, 501-516 (1966).
2. Benzinger, R., Jaenisch, R., & Hofschneider, P.H. A simple method for separating the replicative form from single-stranded fX 174 DNA. *J. Mol. Biol.* **21**, 493-499 (1966).
3. Benzinger R., Delius, H., Jaenisch, R., & Hofschneider, P.H. Preparation and properties of *E. coli* competent for infectious DNA from bacteriophage fX 174, M13, and RNA from bacteriophage M12. *Eur. J. Biochem.* **2**, 414-428 (1967).
4. Jaenisch, R. & Hofschneider, P.H., Preuss, A. Isolation of circular DNA by zonal centrifugation. Separation of normal length, double length, and catenated M13 replicative form DNA and of host specific episomal DNA. *Biochim. Biophys. Acta* **190**, 88-100 (1969).
5. Jaenisch, R., Jacob, E., & Hofschneider, P.H. Replication of the small coliphage M13: evidence for long-living M13 specific messenger RNA. *Nature* **227**, 59-60 (1970).
6. Jaenisch, R. & Levine, A.J. DNA replication in SV40 infected cells. V. Circular and catenated oligomers of SV40 DNA. *Virology* **44**, 480-493 (1971).
7. Jaenisch, R., Mayer, A., & Levine, A.J. Replicating SV40 DNA molecules containing closed circular template strands. *Nature New Biol.* **233**, 72-75 (1971).
8. Jaenisch, R. & Levine, A.J. Infection of primary African Green Monkey Cells with SV40 monomeric and dimeric DNA. *J. Mol. Biol.* **61**, 735-738 (1971).
9. Jaenisch, R. Evidence for SV40 specific RNA containing viral and host specific sequences. *Nature New Biol.* **235**, 46-47 (1972).
10. Jaenisch, R. & Levine, A.J. The effect of cycloheximide on the rate of formation of SV40 oligomeric DNA. *Virology* **48**, 373-379 (1972).
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12. Jacob, E., Jaenisch, R., & Hofschneider, P.H. Replication of the single-stranded DNA phage M13: on the *in vivo* transcription of the M13 replicative DNA. *Eur. J. Biochem.* **32**, 432-443 (1973).
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14. Jaenisch, R. & Mintz, B. Simian virus 40 DNA sequences in DNA of healthy adult mice derived from preimplantation blastocysts injected with viral DNA. *Proc. Natl. Acad. Sci. USA* **71**, 1250-1254 (1974).
15. Jaenisch, R., Fan, H., & Croker, B. Infection of preimplantation mouse embryos and of newborn mice with leukemia virus: tissue distribution of viral DNA and RNA and leukemogenesis in the adult animal. *Proc. Natl. Acad. Sci. USA* **72**, 4008-4012 (1975).
16. Jaenisch, R. Germ line integration and Mendelian transmission of the exogenous Moloney leukemia virus. *Proc. Natl. Acad. Sci. USA* **73**, 1260-1264 (1976).
17. Berns, A. & Jaenisch, R. Increase of AKR-specific sequences in tumor tissues of leukemic AKR mice. *Proc. Natl. Acad. Sci. USA* **73**, 2448-2452 (1976).
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- development of the mouse. *Virology* **76**, 886-890 (1977).
19. Jaenisch, R. Germ line integration of Moloney leukemia virus: effect of homozygosity at the M-MuLV locus. *Cell* **12**, 691-696 (1977).
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