

CURRICULUM VITAE

Name: John Kenneth Rose

Date of Birth: July 21, 1947

Place of Birth: Northampton, Massachusetts

Citizenship: U.S.

Education:

1965-1969 Brandeis University, Waltham, Massachusetts.
B.A. in Biology

1969-1973 Stanford University, Stanford, California
Ph.D. Biology and Biochemical Genetics

Positions held:

1969-1973 Predoctoral trainee of the U.S. Public Health Service
with Dr. Charles Yanofsky, Stanford University

1974-1975 Postdoctoral Fellow, Massachusetts Institute of Technology in
the laboratories of Drs. Harvey Lodish and David Baltimore

1976-1978 Research Associate, Massachusetts Institute of Technology, with
Dr. David Baltimore

1979-1982 Assistant Professor, The Salk Institute

1982-1986 Associate Professor, The Salk Institute

1986-2019 Professor of Pathology and Cell Biology
Yale University School of Medicine

2019-present Emeritus Professor of Pathology, Senior Research Scientist
Yale University School of Medicine

Professional Activities:

1980-2011 Editorial Board Member, *Journal of Virology*

1988-1994 Editor of *Virology* for negative-strand RNA viruses

1994-2014 Editorial Board Member, *Virology*

1987-1992 Director of Graduate Studies in Experimental Pathology

1991 Co-chairman, Gordon Conference on Animal Cells and Viruses

1992-2000 Director, Yale Medical School HIV research facility

1994-1998 Member, NIH ARR-1 AIDS Study Section

1994-1999 Co-director, Yale Graduate Program in Microbiology

2005-2015 Director, Program in Virology and Vaccine Development, Yale
University

Honors: Two National Institutes of Health MERIT awards

Research Interests: Structure and function of viral glycoproteins. Vaccine development employing vectors based on recombinant RNA viruses. Specific targeting of viral vectors. Assembly of enveloped viruses.

Publications

1. Rose, J.K., Mosteller, R.D. & Yanofsky, C. 1970. Tryptophan messenger RNA elongation rates and steady state levels of tryptophan operon enzymes under various growth conditions. *J. Mol. Biol.* **51**:541-550.
2. Mosteller, R.D., Rose, J.K. & Yanofsky, C. 1970. Transcription initiation and degradation of trp mRNA. *Cold Spring Harbor Symp. Quant. Biol.* **35**:461-466.
3. Rose, J.K. & Yanofsky, C. 1971. Transcription of the operator proximal and distal ends of the tryptophan operon: evidence that trp E and trp A and the delimiting structural genes. *J. Bacteriol.* **108**:615-618.
4. Rose, J.K. & Yanofsky, C. 1972. Metabolic regulation of the tryptophan operon of *Escherichia coli*: Repressor-independent regulation of transcription initiation frequency. *J. Mol. Biol.* **69**:103-118.
5. Rose, J.K., Squires, C.L., Yanofsky, C., Yang, H.-L. & Zubay, G. 1973. Regulation of in vitro transcription of the tryptophan operon by purified RNA polymerase in the presence of partially purified repressor and tryptophan. *Nature New Biol.* **245**:133-137.
6. Squires, C.L., Rose, J.K., Yanofsky, C., Yang, H.-L. & Zubay, G. 1973. Tryptophanyl-tRNA and tryptophanyl-tRNA synthetase are not required for in vitro repression of the tryptophan operon. *Nature New Biol.* **245**:131-133.
7. Rose, J.K. & Yanofsky, C. 1974. Interaction of the operator of the tryptophan operon with repressor. *Proc. Natl. Acad. Sci. USA* **71**: 3134-3138.
8. Rose, J.K. & Knipe, D. 1975. Nucleotide sequence complexities, molecular weights and poly(A) content of the vesicular stomatitis virus mRNA species. *J. Virol.* **15**:994-1003.
9. Knipe, D., Rose, J.K. & Lodish, H.F. 1975. Translation of individual species of vesicular stomatitis viral mRNA. *J. Virol.* **15**:1004-1011.
10. Rose, J.K. 1975. Heterogeneous 5'-terminal structures occur on vesicular stomatitis virus mRNAs. *J. Biol. Chem.* **250**:8098-8104.
11. Hewlett, M.J., Rose, J.K. & Baltimore, D. 1976. 5'-terminal structure of poliovirus polyribosomal RNA is pUp. *Proc. Natl. Acad. Sci. USA* **73**:327-330.
12. Rose, J.K. & Lodish, H.F. 1976. Translation in vitro of vesicular stomatitis virus mRNA lacking 5'-terminal 7-methylguanosine. *Nature* **262**:32-37.
13. Rose, J.K., Hasletine, W.A. & Baltimore, D. 1976. The 5' terminus of Moloney murine leukemia virus 35S RNA is m⁷G5'ppp5'GmpCp. *J. Virol.* **20**:324-329.

14. Lodish, H.F. & Rose, J.K. 1977. Relative importance of 7-methylguanosine in ribosome binding and translation of vesicular stomatitis virus mRNA in wheat germ and reticulocyte cell-free systems. *J. Biol. Chem.* **252**:1181-1188.
15. Rose, J.K., Lodish, H.F. & Brock, M.L. 1977. Giant heterogeneous poly(A) on vesicular stomatitis virus mRNA synthesized *in vitro* in the presence of S-adenosylhomocysteine. *J. Virol.* **21**:683-693.
16. Freeman, G.J., Rose, J.K., Clinton, G.M. & Huang, A.S. 1977. RNA synthesis of vesicular stomatitis virus VII. Complete separation of the messenger RNAs of vesicular stomatitis virus by duplex formation. *J. Virol.* **21**:1094-1104.
17. Rose, J.K. 1977. Nucleotide sequences of ribosome recognition sites in messenger RNAs of vesicular stomatitis virus. *Proc. Natl. Acad. Sci. USA* **74**:3672-3676.
18. Pettersson, R.F., Flanagan, J.B., Rose, J.K. & Baltimore, D. 1977. 5'-terminal nucleotide sequences of polio virus polyribosomal RNA and virion RNA are identical. *Nature (London)* **268**:270-272.
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20. Baltimore, D., Pettersson, R.F., Flanagan, J.B., Hewlett, M.J., Rose, J.K. & Ambros, V. 1978. New structures in viral RNA: Non-covalent circles and covalently-linked protein. *In*, *Perspectives in Virology* (M. Pollard, ed.), pp. 110-115.
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23. Rose, J.K. & Iverson, L. 1979. Nucleotide sequences from the 3'-ends of vesicular stomatitis virus mRNAs as determined from cloned DNA. *J. Virol.* **32**:404-411.
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