

CURRICULUM VITAE

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Personal:

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Nationality: U.S.A.

Education:

Columbia University B.S. (1971) Biology
State University of
New York at Stony Brook Ph.D. (1976) Molecular Biology

Professional Experience:

Julian Clarence Levi Professor of Life Sciences, Columbia University 1995-
Chairman; Department of Biological Sciences, Columbia University 1995-2001
Professor; Department of Biological Sciences, Columbia University 1987-
Associate Professor; Department of Biological Sciences, Columbia University 1985-1987.
Assistant Professor; Department of Biological Sciences, Columbia University 1980-1985.

Postdoctoral Research: Mass. Institute of Technology; Dr. M.L. Gifter, supervisor. 1977-1980.
Graduate Research: Cold Spring Harbor Laboratory; Dr. R.F. Gesteland, supervisor. 1972-1976.
Research Assistant: Columbia University, Dr. G. Zubay, supervisor. 1970-1972.

Honors and Service:

1976-1977 Anna Fuller Fellowship
1995- Julian Clarence Levi Professor of Life Sciences
1996- 2006 NIH MERIT Award (mRNA splicing)
2002- Fellow, American Academy of Microbiology
2002- Board of Directors, Cold Spring Harbor Alumni Association
2005- ISI Highly Cited Researcher
2006- Fellow, American Academy of Arts and Sciences
2006-2009 Senior Fellow, American Asthma Foundation
2007- Edina High School Hall of Fame
2008- Fellow, American Association for the Advancement of Science
2011- Member, National Academy of Sciences
2013 Einstein Professorship, Chinese Academy of Sciences
2017-2020 Chair, Biochemistry Section, National Academy of Sciences

1983-1985 Editorial Board, Nucleic Acids Research
1984-2001 Editorial Board, Molecular and Cellular Biology
1988- Editorial Board, Genes and Development

1989-1992 Editorial Board, Techniques
 1991-1995 Editorial Board, Mechanisms of Development
 1991-2017 Associate Editor, Gene Expression
 1993-1998 Editorial Board, Journal of Virology
 1994- Editorial Board, RNA
 1997-2021 Editorial Board, Molecular Cell
 2001- Editorial Board, BioMedCentral- Molecular Biology
 2003-2013 Editor, Molecular and Cellular Biology
 2003- Editorial Board, BioMedCentral-Biology
 2006-2013 Editorial Board, Recent Patents on DNA & Gene Sequences
 2010- Editorial Board, Transcription
 2012- Senior Editor, eLife
 2012- Editorial Board, Methods
 2021- Editorial Board, Proc. Natl. Acad. Sci.

1989-2022 Co-organizer, RNA 3' End Formation Meetings, Oxford, England (9)
 1990, 91 Co-organizer, RNA Processing Meeting, Cold Spring Harbor Lab
 1997, 99 Co-organizer, Eukaryotic mRNA Processing Meeting, Cold Spring Harbor Lab
 2017 Organizer, Keystone Symposium, mRNA Processing and Human Disease

1988-1991 Member, ACS Microbiology and Virology Committee
 1989-1993 Member, NIH Molecular Biology Study Section
 1999-2002 Member, NIH Molecular Cytology (CDF2) Study Section (Chair, 2000-2002)

Publications:

1. Chambers, D. and Manley, J.L. (1973). On the nature of β -galactosidase synthesized by DNA-directed cell-free system. *Mol. Gen. Genet.* **120**, 301-308.
2. Manley, J.L., Reiness, C.G., Zubay, G. and Gefter, M.L. (1973). Cell-free synthesis of Su+III tryosyl tRNA: characterization of the 4S product. *Arch. Biochem. Biophys.* **157**, 50- 54.
3. Manley, J.L. (1978). Synthesis and degradation of termination and premature-termination fragments of beta-galactosidase *in vitro* and *in vivo*. *J. Mol. Biol.* **125**, 407-432.
4. Manley, J.L. and Gesteland, R.F. (1978). Suppression of amber mutants *in vitro* induced by low temperature. *J. Mol. Biol.* **125**, 433-447.
5. Manley, J.L. (1978). Synthesis of internal re-initiation fragments of beta-galactosidase *in vitro* and *in vivo*. *J. Mol. Biol.* **125**, 449-466.
6. Roberts, R.J., Klessig, D.F., Manley, J.L. and Zain, B.S. (1979). The spliced mRNAs of adenovirus 2. *FEBS Symposium* **21**, 245-253.
7. Manley, J.L., Sharp, P.A. and Gefter, M.L. (1979). RNA synthesis in isolated nuclei: *in vitro* initiation of the adenovirus 2 major late mRNA precursor. *Proc. Natl. Acad. Sci. USA* **76**, 160-164.

8. Manley, J.L., Sharp, P.A. and Gefter, M.L. (1979). RNA synthesis in isolated nuclei: identification and comparison of adenovirus 2 encoded transcripts synthesized *in vitro* and *vivo*. *J. Mol. Biol.* **135**, 171-197.
9. Manley, J.L., Gefter, M.L. and Sharp, P.A. (1979). Synthesis and processing of adenovirus 2 RNA *in vitro*. *ICN-UCLA Symposia on Molecular Biology-Eukaryotic Gene Expression* **14**, 595-610.
10. Manley, J.L., Fire, A., Cano, A., Sharp, P.A. and Gefter, M.L. (1980). DNA-dependent transcription of adenovirus 2 genes in soluble whole-cell extract. *Proc. Natl. Acad. Sci. USA* **77**, 3855-3859.
11. Sharp, P.A., Manley, J.L., Fire, A. and Gefter, M.L. (1980). Regulation of adenovirus gene expression. *Ann. N.Y. Acad. of Sci.* **354**, 1-15.
12. Manley, J.L., Handa, H., Huang, S.L., Sharp, P.A. and Gefter, M.L. (1980). Transcription of mammalian genes *in vitro*. *Miami Winter Symposium* **12**, 236-251.
13. Manley, J.L., Hu, S.L., Sharp, P.A. and Gefter, M.L. (1980). Synthesis of the Ad2 major late transcript *in vitro*: Properties of the transcript and its promoter. *ICN-UCLA Symposium on Animal Virus Genetics* **18**, 353-368.
14. Proudfoot, N., Shatner, M., Manley, J., Gefter, M. and Maniatis, T. (1980). Expression of human globin genes. *Science* **209**, 1329-1336.
15. Handa, H., Kaufmann, R., Manley, J.L., Gefter, M.L. and Sharp, P.A. (1981). Accurate initiation of transcription of SV40 early and late genes in whole cell extract. *J. Biol. Chem.* **256**, 478-482.
16. Manley, J.L. and Gefter, M.L. (1981). Transcription of mammalian genes *in vitro*. In *Gene Amplification and Analysis* **2**, eds. Chirkjian, J.G. and Papas, T.S. (Elsevier-North Holland, N.Y., N.Y.), pp. 369-383.
17. Spritz, R.A., Jagadeeswaran, P., Biro, P.A., Elder, J.T., Choudary, P.V., de Riel, J.K., Manley, J.L., Gefter, M.L., Weissman, S.M. and Forget, B.G. (1981). Structure and functional characterization of cloned β^+ -thalassemic globin gene fragments. In *Organization and Expression of Globin Genes*, eds. Nienhuis, A.W. and Stamatoyarnopolis, G. (A.P. Liss, N.Y., N.Y.), pp.105-112.
18. Spritz, R.A., Jagadeeswaran, P., Choudary, P.V., Biro, P.A., Elder, J.T., de Riel, J.K., Manley, J.L., Gefter, M.L., Forget, B.G. and Weissman, S.M. (1981). Intervening sequence mutation in a cloned human β^+ -thalassemic globin gene. *Proc. Natl. Acad. Sci. USA* **78**, 2455-2459.
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20. Fire, A., Baker, C., Manley, J.L., Ziff, E. and Sharp, P.A. (1981). *In vitro* transcription of adenovirus. *J. Virol.* **40**, 703-719.
21. Hu, S.-L. and Manley, J.L. (1981). DNA sequence required for initiation of transcription *in vitro* from the major late promoter of adenovirus 2. *Proc. Natl. Acad. Sci. USA* **78**, 820-824.
22. Manley, J.L., Gefter, M.L. and Sharp, P.A. (1982). RNA synthesis in isolated nuclei: Processing of adenovirus serotype 2 late messenger RNA precursors. *J. Mol. Biol.* **159**, 581- 600.
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28. Mitsialis, A., Manley, J.L. and Guntaka, R. (1983). Localization of active promoters for eucaryotic RNA polymerase II in the long terminal repeat of avian sarcoma virus DNA. *Mol. Cell. Biol.* **3**, 811-818.
29. Manley, J.L., Fire, A., Samuels, M. and Sharp, P. (1983). *In vitro* transcription: whole-cell extract. *Methods in Enzymology, Recombinant DNA* **101**, 568-582.
30. Manley, J.L. (1983). Analysis of the expression of genes encoding animal mRNA by *in vitro* techniques. *Prog. in Nuc. Acid Res. and Mol. Biol.* **30**, 195-244.
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32. Chen, S., Grass, D., Blanck, G., Manley, J.L. and Pollack, R.E. (1983). A functional simian virus 40 origin of replication is required for the generation of a super T antigen with a molecular weight of 100,000 in transformed mouse cells. *J. Virol.* **48**, 492-605.
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- results in a replication- and transformation-defective virus. *Proc. Natl. Acad. Sci. USA* **80**, 7065-7069.
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 39. Lewis, E.D., Fu, X.-Y. and Manley, J.L. (1984). Activation of the adenovirus late promoter by cis- and trans-acting elements. *UCLA Symposia on Molecular and Cellular Biology* **19**, 351-360.
 40. Yu, Y.-T. and Manley, J.L. (1984). The effects of point mutations in the adenovirus 2 late promoter on transcription initiation *in vitro*. *Nucleic Acids Res.* **12**, 9309-9321.
 41. Manley, J.L., Yu, H. and Ryner, L. (1985). An RNA sequence containing the hexanucleotide AAUAAA directs efficient mRNA polyadenylation *in vitro*. *Mol. Cell. Biol.* **5**, 373-379.
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58. Grass, D. and Manley, J.L. (1987). Selective translation initiation on bicistronic SV40 late mRNA. *J. Virol.* **61**, 2331-2335.
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63. Connelly, S. and Manley, J.L. (1988). A functional mRNA polyadenylation signal is required for transcription termination by RNA polymerase II. *Genes Dev.* **2**, 440-452.
64. Manley, J.L. (1988). Polyadenylation of mRNA precursors. *BBA Reviews on Gene Expression* **950**, 1-12.
65. Fu, X.-Y., Colgan, J. and Manley, J.L. (1988). Multiple cis-acting sequence elements are required for efficient splicing of small-t antigen mRNA. *Mol. Cell. Biol.* **8**, 3582-3590.
66. Ryner, L.C., Takagaki, Y., Voulgaris, J. and Manley, J.L. (1988). Two separable activities are required for pre-mRNA cleavage and polyadenylation: a poly(A) polymerase and a cleavage/specificity factor. *UCLA Symposia on Molecular Biology of RNA* **94**, 335-349.
67. Noble, J.C.S., Prives, C. and Manley, J.L. (1988). Alternative splicing of SV40 early pre- mRNA is determined by branch site selection. *Genes Dev.* **2**, 1460-1475.
68. Noble, J.C.S. and Manley, J.L. (1989). The mechanism and control of pre-mRNA splicing. In *Molecular Biology of Chromosome Function*, ed. Adolph, K. (Springer-Verlag, N.Y.), pp. 243-261.
69. Ryner, L.C., Takagaki, Y. and Manley, J.L. (1989). Sequences downstream of AAUAAA affect pre-mRNA cleavage and polyadenylation *in vitro* both directly and indirectly. *Mol. Cell. Biol.* **9**, 1759-1771.
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71. Noble, J.C.S., Ge, H. and Manley, J.L. (1989). Alternative splicing of SV40 early pre- mRNA: the role of the lariat branch site region. In *Common Mechanisms of Transformation by Small DNA Tumor Viruses*, ed. Villareal, L. (ASM Publications, Washington, D.C.), pp. 221-226.
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