

MORE DETAILS FROM CV

Education:

- 1974-1978 A.B., Bryn Mawr College, in Chemistry and in Biology with honors from Haverford College
- 1979-1987 Ph.D., in Cell Biology, Stanford University School of Medicine, with Dr. Roger Kornberg

Post-Graduate Training:

- 1987-1988 DNAX Institute Research Fellow, DNAX Research Institute of Molecular and Cellular Biology, Palo Alto, CA.

Professional Appointments:

- 2001- Investigator, Stowers Institute for Medical Research
- 2001- Professor (Affiliate), Department of Biochemistry and Molecular Biology, University of Kansas Medical Center
- 2000 Interim Head, Program in Molecular and Cell Biology, Oklahoma Medical Research Foundation
- 1998-2006 Adjunct Professor, Department of Biochemistry and Molecular Biology, University of Oklahoma Health Sciences Center
- 1997-2001 Associate Investigator, Howard Hughes Medical Institute
- 1996-2001 Member, Program in Molecular and Cell Biology, Oklahoma Medical Research Foundation, Oklahoma City, OK.
- 1993-1996 Associate Member, Program in Molecular and Cell Biology, Oklahoma Medical Research Foundation, Oklahoma City, OK.
- 1991-1998 Adjunct Assistant Professor, Department of Biochemistry and Molecular Biology, University of Oklahoma Health Sciences Center
- 1989-1993 Assistant Member, Program in Molecular and Cell Biology, Oklahoma Medical Research Foundation, Oklahoma City, OK.
- 1988-1989 Research Associate and Lecturer, Clayton Foundation Biochemical Institute, Department of Chemistry, University of Texas, Austin, TX.

Honors:

1991 Edward L. and Thelma Gaylord Award for Scientific Excellence
1997 ASBMB-Amgen Award
2001 Burroughs-Wellcome Visiting Professorship, Saint Louis University School of Medicine
2002 Fellow, American Academy of Arts and Sciences
2005 Helen Nelson Distinguished Chair
2019 The University of Kansas Cancer Center Director's Award for Basic Research
2020 National Academy of Sciences

Advisory Boards

External Advisory Board, City of Hope Irell & Manella Graduate School of Biological Sciences, Duarte, CA, January 2020-
Chair, Scientific Advisory Board, Institute for Genetics and Molecular and Cellular Biology (IGBMC), Strasbourg, France, January 2016 – December 2019
Scientific Advisory Board, Institute for Genetics and Molecular and Cellular Biology (IGBMC), Strasbourg, France, September 2010 –
Chairperson, Board of Scientific Counselors - Basic Science, National Cancer Institute, Bethesda, MD, September 2011 - July 2015
Board of Scientific Counselors - Basic Science, National Cancer Institute, Bethesda, MD, September 2010 - July 2015

Editorial Boards and Review Committees

Editorial Committee, *Annual Review of Biochemistry*, January 2007 - present
Associate Editor, *Journal of Biological Chemistry*, September 1999 - February 2014
Member, NIH Molecular Biology Study Section, February 1994 - June 1998
Ad Hoc Member, NIH Molecular Biology Study Section, February 1993
Editorial Board Member, *Journal of Biological Chemistry*, July 1993 - July 1998

Other Professional Activities:

Treasurer, American Society of Biochemistry and Molecular Biology, 2019 – 2022.
Member, Finance Committee, American Society of Biochemistry and Molecular Biology, 2016 – present.
Co-organizer, Chromatin and Gene Regulation Theme, 2016 National Meeting of the American Society for Biochemistry and Molecular Biology.
Co-chairperson, Intramural Long-Term Planning Committee, National Cancer Institute, 2014
American Society for Biochemistry and Molecular Biology Meetings Committee, 2002-2004; 2006-2009 (*co-chair, small meetings subcommittee*); 2009-2012 (*committee chair*).
Co-chair, Program Committee for the 2009 National Meeting of the American Society for Biochemistry and Molecular Biology.
Programming Consultant, 2006 Keystone Symposia Series
Co-organizer, 2005 and 2007 Cold Spring Harbor Ubiquitin Family Meeting
Council, American Society of Biochemistry and Molecular Biology, July 2004-July 2007.
Co-organizer, 2003 and 2005 Cold Spring Harbor Meeting on Mechanisms of Eukaryotic Transcription.

Co-Chair, Program Committee for the 2002 National Meeting of the American Society for Biochemistry and Molecular Biology, New Orleans, LA.
Co-organizer, 2001 Keystone Symposium "Mechanisms of Eukaryotic Transcriptional Regulation."
Member, Program Committee for the 2001 National Meeting of the American Society for Biochemistry and Molecular Biology, Orlando, FL.
Co-organizer, 1999 ASBMB Fall Symposium "Mechanism and Regulation of Transcription by RNA Polymerase II"
Member, Nominations Committee, American Society for Biochemistry and Molecular Biology, 1999-2002
Chair, Selection Committee, FASEB Excellence in Science Award, 2001
Member, Selection Committee, FASEB Excellence in Science Award, 1998 - 2000
Session chair, 1996 Gordon Conference on Molecular Genetics
Session chair, 1993 Gordon Conference on Nucleic Acids
Co-organizer, 1992 Keystone Symposium "Fundamental Mechanisms of Transcription"
Session chair, 1992 Gordon Conference on Nuclear Proteins, Chromatin Structure, and Gene Expression

BIBLIOGRAPHY

1. Conaway, J. W., Bond, M. W., and Conaway, R. C. (1987) An RNA polymerase II transcription system from rat liver: Purification of an essential component. *J. Biol. Chem.* 262, 8293-8297.
2. Otsuka, T., Miyatake, S., Yokota, T., Conaway, J., Conaway, R., Arai, N., Lee, F. and Arai, K. (1987) Organization of the chromosomal genes for interleukin-3 and granulocyte-macrophage colony stimulating factor and their expression in activated T cells. *Lymphokines* 13, 261-273.
3. Yokota, T., Miyatake, S., Hagiwara, H., Mosmann, T., Conaway, J., Conaway, R., Miyajima, A., Takebe, Y., Arai, N., Lee, F. and Arai, K. (1988) Isolation and characterization of the mouse interleukin-3 gene and its expression in activated T cells. *Lymphokines* 15, 393-408.
4. Conaway, R.C. and Conaway, J.W. (1988) ATP activates transcription initiation from promoters by RNA polymerase II in a reversible step prior to RNA synthesis. *J. Biol. Chem.* 263, 2962-2968.
5. Conaway, J.W. and Conaway, R.C. (1989) A multisubunit transcription factor essential for accurate initiation by RNA polymerase II. *J. Biol. Chem.* 264, 2357-2362.
6. Conaway, J.W., Conaway, R.C. and Muramatsu, M. Signal transduction and transcription regulation, in *Cell Technology*. Tokyo: Shujunshu, 1989.
7. Conaway, R.C. and Conaway, J.W. (1989) An RNA polymerase II transcription factor has an associated DNA-dependent ATPase (dATPase) activity strongly stimulated by the TATA region of promoters. *Proc. Natl. Acad. Sci. USA* 86, 7356-7360.
8. Conaway, J.W., Reines, D. and Conaway, R.C. (1990) Transcription initiated by RNA polymerase II and purified transcription factors from liver: Cooperative action of transcription factors τ and ϵ in initial complex formation. *J. Biol. Chem.*, 265, 7552-7558.

9. Conaway, R.C. and Conaway, J.W. (1990) Transcription initiated by RNA polymerase II and purified transcription factors from liver: Transcription factors α , $\beta\gamma$, and δ promote formation of intermediates in assembly of the functional preinitiation complex. *J. Biol. Chem.*, 265, 7559-7563.
10. Conaway, J.W., Travis, E. and Conaway, R.C. (1990) Transcription initiated by RNA polymerase II and purified transcription factors from liver: A complex set of promoter sequences governs formation of the initial complex. *J. Biol. Chem.*, 265, 7564-7569.
11. Conaway, J.W. and Conaway, R.C. (1990) An RNA polymerase II transcription factor shares functional properties with *Escherichia coli* σ^{70} . *Science* 248, 1550-1553.
12. Conaway, J.W., Hanley, J.P., Garrett, K.P. and Conaway, R.C. (1991) Transcription initiated by RNA polymerase II and transcription factors from liver: Structure and action of transcription factors ϵ and τ . *J. Biol. Chem.*, 12, 7804-7811.
13. Conaway, R.C., Garrett, K.P., Hanley, J.P. and Conaway, J.W. (1991) Mechanism of promoter selection by RNA polymerase II. Mammalian transcription factors α and $\beta\gamma$ promote entry of polymerase into the preinitiation complex. *Proc. Natl. Acad. Sci.*, 88, 6205-6209.
14. Conaway, J.W. and Conaway, R.C. (1991) Initiation of eukaryotic messenger RNA synthesis. (mini-review) *J. Biol. Chem.*, 266, 17721-17724.
15. Tsuboi, A., Conger, K., Garrett, K.P. Conaway, R.C., Conaway, J.W., and Arai, N. (1992). RNA polymerase II initiation factor α from rat liver is almost identical to human TFIIB. *Nucl. Acids Res.*, 20, 3250.
16. Conaway, J.W., Bradsher, J.N. and Conaway, R.C. (1992). Mechanism of assembly of the RNA polymerase II preinitiation complex: Transcription factors δ and ϵ promote stable binding of the transcription apparatus to the initiator element. *J. Biol. Chem.*, 267, 10142-10148.
17. Conaway, R.C., Bradsher, J.N. and Conaway, J.W. (1992). Mechanism of assembly of the RNA polymerase II preinitiation complex: Evidence for a functional interaction of the carboxyl terminal domain of RNA polymerase II and a high molecular mass form of the TATA factor. *J. Biol. Chem.*, 267, 8464-8467.
18. Serizawa, H., Conaway, R. C. and Conaway, J.W. (1992). A carboxyl-terminal-domain kinase associated with RNA polymerase II transcription factor δ from rat liver. *Proc. Natl. Acad. Sci. USA*, 89, 7476-7480.
19. Garrett, K.P., Serizawa, H., Hanley, J.P., Bradsher, J.N., Tsuboi, A., Arai, N., Yokota, T., Arai, K., Conaway, R.C., Conaway, J.W. (1992) The C-terminus of RAP30 is similar in sequence to region 4 of bacterial sigma factors and is required for function. *J. Biol. Chem.* 267, 23942-23949.
20. Conaway, R.C. and Conaway, J.W. (1993) General initiation factors for RNA polymerase II. *Ann. Rev. Biochem.* 62, 161-190.
21. Serizawa, H., Conaway, J.W., and Conaway, R.C. (1993) Phosphorylation of C-terminal domain of RNA polymerase II is not required in basal transcription. *Nature* 363, 371-374.

22. Serizawa, H., Conaway, R.C., and Conaway, J.W. (1993) Multi-functional RNA polymerase II initiation factor δ from rat liver: Relationship between CTD kinase, ATPase, and DNA helicase activities. *J. Biol. Chem.* 268, 17300-17308.
23. Conaway, J.W., Bradsher, J.N., Tan, S., and Conaway, R.C. (1993) Transcription factor SIII: A novel component of the RNA polymerase II elongation complex. *Cell. Molec. Biol. Res.* 39, 323-329.
24. Bradsher, J.N., Jackson, K.W., Conaway, R.C., and Conaway, J.W. (1993) RNA polymerase II transcription factor SIII: I. Identification, purification, and properties. *J. Biol. Chem.* 268, 25587-25593.
25. Bradsher, J.N., Tan, S., McLaury, H.J., Conaway, J.W., and Conaway, R.C. (1993) RNA polymerase II transcription factor SIII: II. Functional properties and role in RNA chain elongation. *J. Biol. Chem.* 268, 25594-25603.
26. Transcription: Mechanisms and Regulation, R.C. Conaway and J.W. Conaway, Eds., New York: Raven Press, 1994.
27. Serizawa, H., Conaway, J.W., and Conaway, R.C., Transcription initiation by RNA polymerase II. In Transcription Mechanisms, R.C. Conaway and J.W. Conaway, Eds., New York: Raven Press, 1994, pp. 27-43.
28. Aso, T., Serizawa, H., Conaway, R.C., and Conaway, J.W. (1994) A TATA sequence-dependent transcriptional repressor activity associated with mammalian transcription factor IIA. *EMBO J.* 13, 435-445.
29. Tan, S., Conaway, R.C., and Conaway, J.W. (1994) A bacteriophage vector suitable for site-directed mutagenesis and high level expression of multisubunit proteins in *E. coli*. *BioTechniques* 16, 824-828.
30. Garrett, K.P., Tan, S., Bradsher, J.N., Lane, W.S., Conaway, J.W., and Conaway, R.C. (1994) Molecular cloning of an essential subunit of RNA polymerase II elongation factor SIII. *Proc. Natl. Acad. Sci. USA* 91, 5237-5241.
31. Serizawa, H., Conaway, J.W., and Conaway, R.C. (1994) An oligomeric form of the large subunit of TFIIE activates phosphorylation of the RNA polymerase II CTD by TFIIH. *J. Biol. Chem.* 269, 20750-20756.
32. Tan, S., Garrett, K.P., Conaway, R.C., and Conaway, J.W. (1994) A cryptic DNA binding domain in the C-terminus of RNA polymerase II general transcription factor RAP30. *Proc. Natl. Acad. Sci. USA* 91, 9808-9812.
33. Garrett, K.P., Haque, D., Conaway, R.C., and Conaway, J.W. (1994) A human cDNA encoding the small subunit of RNA polymerase II transcription factor SIII. *Gene* 150, 413-414.
34. Tan, S., Aso, T., Conaway, R.C., and Conaway, J.W. (1994) Roles for both the RAP30 and RAP74 subunits of TFIIF in transcription initiation and elongation by RNA polymerase II. *J. Biol. Chem.* 269, 25684-25691.

35. Aso, T., Conaway, J.W., and Conaway, R.C. (1994) Role of core promoter structure in assembly of the RNA polymerase II preinitiation complex: A common pathway for formation of preinitiation intermediates at many TATA and TATA-less promoters. *J. Biol. Chem.* *269*, 26575-26583.
36. Serizawa, H., Makela, T.P., Conaway, J.W., Conaway, R.C., Weinberg, R.A., and Young, R.A. (1995) Association of CDK activating kinase subunits with transcription factor TFIIF. *Nature* *374*, 280-282.
37. Garrett, K.P., Aso, T., Bradsher, J.N., Foundling, S.I., Lane, W.S., Conaway, R.C., and Conaway, J.W. (1995) Positive regulation of general transcription factor SIII by a tailed ubiquitin homolog. *Proc. Natl. Acad. Sci. USA* *92*, 7172-7176.
38. Tan, S., Conaway, R.C., and Conaway, J.W. (1995) Dissection of transcription factor TFIIF functional domains required for initiation and elongation. *Proc. Natl. Acad. Sci. USA* *92*, 6042-6046.
39. Aso, T., Conaway, R.C., and Conaway, J.W. (1995) The RNA polymerase II elongation complex. *FASEB J.* *9*, 1419-1428.
40. Takagi, Y., Conaway, J.W., and Conaway, R.C. (1995) A novel activity associated with RNA polymerase II elongation factor SIII: SIII directs promoter-independent transcription initiation by RNA polymerase II in the absence of initiation factors. *J. Biol. Chem.* *270*, 24300-24305.
41. Duan, D.R., Pause, A., Burgess, W.H., Aso, T., Chen, D.Y.T., Garrett, K.P., Conaway, R.C., Conaway, J.W., Linehan, W.M., and Klausner, R.D. (1995) Inhibition of transcription elongation by the von Hippel-Lindau tumor suppressor protein. *Science* *269*, 1402-1406.
42. Aso, T., Lane, W.S., Conaway, J.W., and Conaway, R.C. (1995) Elongin (SIII): A multisubunit regulator of elongation by RNA polymerase II. *Science*, *269*, 1439-1443.
43. Pause, A. Aso, T., Linehan, W.M., Conaway, J.W., Conaway, R.C., and Klausner, R.D. (1996) Analysis of the interaction of the VHL tumor suppressor gene product with Elongin. *Meth. Enzymol.* *274* , 436-441.
44. Conaway, R.C., Reines, D., Garrett, K.P., Powell, W., and Conaway, J.W. (1996) Purification of RNA polymerase II general transcription factors from rat liver. *Meth. Enzymol.* *273*, 194-207.
45. Conaway, R.C. and Conaway, J.W., Eukaryotic RNA polymerase II and associated factors. In Transcription Factors: Essential Data, J. Locker, Ed., Oxford: BIOS Scientific Publishers LTD, 1996.
46. Aso, T., Mokady, N., Haque, D., Conaway, R.C., and Conaway, J.W. (1995) Assignment of a human gene encoding the 110 kDa subunit of general transcription factor Elongin (SIII) to chromosome 1p36.1. *Genomics* *30*, 393-394.

47. Aso, T., Haque, D., Fukudome, K., Brower, C.S., Conaway, J.W., and Conaway, R.C. (1996) A human cDNA encoding the 110-kDa A subunit of RNA polymerase II transcription factor Elongin. *Gene* 168, 277-278.
48. Aso, T., Conaway, J.W., and Conaway, R.C. (1996) Transcription syndromes and the role of RNA polymerase II general transcription factors in human disease. *J. Clin. Invest.* 97, 1561-1569.
49. Dvir, A., Garrett, K.P., Chalut, C., Egly, J.-M., Conaway, J.W., and Conaway, R.C. (1996) A role for ATP and TFIIF in activation of the RNA polymerase II preinitiation complex prior to transcription initiation. *J. Biol. Chem.* 271, 7245-7248.
50. Shilatifard, A., Lane, W.S., Jackson, K.W., Conaway, R.C., and Conaway, J.W. (1996) An RNA polymerase II elongation factor encoded by the human ELL gene. *Science* 271, 1873-1876.
51. Aso, T., Conaway, J.W., Conaway, R.C. (1996) Regulation of Elongin (SIII) activity by the von Hippel-Lindau tumor suppressor protein. *Experimental Medicine (Japan)* 14(5), 67-69.
52. Conaway, J.W. and Conaway, R.C. (1996) General transcription factors controlling the activity of mammalian RNA polymerase II. *Prog. Nucleic Acid Res. Mol. Biol.* 56, 327-346.
53. Aso, T., Haque, D., Barstead, R.J., Conaway, R.C., and Conaway, J.W. (1996) The inducible Elongin A activation domain: Structure, function, and interaction with the Elongin BC complex. *EMBO J.* 15, 5557-5566.
54. Reines, D., Conaway, J.W., and Conaway, R.C. (1996) The RNA polymerase II general elongation factors. *Trends Biochem. Sci.* 21, 351-355
55. Dvir, A., Conaway, R.C., and Conaway, J.W. (1996) Promoter escape by RNA polymerase II: A role for an ATP cofactor in suppression of arrest by polymerase at promoter-proximal sites. *J. Biol. Chem.* 271, 23352-23356.
56. Qadri, I., Conaway, J.W., Conaway, R.C., Schaak, J., and Siddiqui, A. (1996) Hepatitis B virus transactivator protein, HBx, associates with components of TFIIF and stimulates the DNA helicase activity of TFIIF. *Proc. Natl. Acad. Sci. USA* 93, 10578-10583.
57. Takagi, Y., Conaway, R.C., and Conaway, J.W. (1996) Characterization of Elongin C functional domains required for interaction with Elongin B and activation of Elongin A. *J. Biol. Chem.* 271, 25562-25568.
58. Shilatifard, A., Conaway, J.W., and Conaway, R.C. (1997) Mechanism and regulation of transcriptional elongation and termination by RNA polymerase II elongation factors. *Curr. Opin. Dev. Genet.* 7, 199-204.
59. Shilatifard, A., Duan, D.R., Haque, D., Florence, C., Schubach, W.H., Conaway, J.W., and Conaway, R.C. (1997) ELL2, a new member of an ELL family of RNA polymerase II elongation factors. *Proc. Natl. Acad. Sci. USA* 94, 3639-3643.

60. Reines, D., Dvir, A., Conaway, J.W., and Conaway, R.C. (1997) Assays for investigating transcription by RNA polymerase II *in vitro*. *METHODS: A Companion to Methods in Enzymology* 12, 192-202.
61. Dvir, A., Conaway, R.C., and Conaway, J.W. (1997) A role for TFIIF in controlling the activity of early RNA polymerase II elongation complexes. *Proc. Natl. Acad. Sci. U.S.A.* 94, 9006-9010.
62. Shilatifard, A., Haque, D., Conaway, R. C., and Conaway, J. W. (1997) Structure and function of RNA polymerase II elongation factor ELL: Identification of two overlapping functional domains that govern its interaction with polymerase and the ternary elongation complex. *J. Biol. Chem.* 272, 22355-22363.
63. Takagi, Y., Pause, A., Conaway, R.C., and Conaway, J.W. (1997) Identification of Elongin C sequences required for interaction with the von Hippel-Lindau tumor suppressor protein. *J. Biol. Chem.* 272, 27444-27449.
64. Dvir, A., Tan, S., Conaway, J.W., and Conaway, R.C. (1997) Promoter escape by RNA polymerase II: Formation of an escape-competent transcriptional intermediate is a prerequisite for exit of polymerase from the promoter. *J. Biol. Chem.* 272, 28175-28178.
65. Lonergan, K. M., Iliopoulos, O., Ohh, M., Kamura, T., Conaway, R. C., Conaway, J. W., and Kaelin, W. G. (1998) Regulation of hypoxia-inducible mRNAs by the von Hippel-Lindau tumor suppressor protein requires binding to complexes containing Elongins B/C and Cul2. *Mol. Cell. Biol.* 18, 732-741.
66. Conaway, J.W., Kamura, T., and Conaway, R.C. (1998) The Elongin complex and the von Hippel-Lindau tumor suppressor protein. *Biochem. Biophys. Acta. (Reviews on Cancer)* 1337, M47-M52.
67. Conaway, J.W., Kamura, T., and Conaway, R.C. (1998) A class of transcriptional regulators with roles in diverse cellular processes and human disease. *The Immunologist*, 6, 68-71.
68. Trigon, T., Serizawa, H., Conaway, J.W., Conaway, R.C., Jackson, S.P., and Morange, M. (1998) Characterization of the residues phosphorylated *in vitro* by different C-terminal domain kinases. *J. Biol. Chem.* 273, 6769-6775.
69. Jiang, Y., Veschambre, P., Erdjument-Bromage, H., Tempst, P., Conaway, J.C., Conaway, R.C., and Kornberg, R.D. (1998) Mammalian mediator of transcriptional regulation and its possible role as an end-point of signal transduction pathways. *Proc. Natl. Acad. Sci. USA* 95, 8538-8543.
70. Moreland, R.J., Hanas, J.S., Conaway, J.W., and Conaway, R.C. (1998) Mechanism of action of RNA polymerase II elongation factor Elongin: Maximal stimulation of elongation requires conversion of the early elongation complex to an Elongin-activatable form. *J. Biol. Chem.*, 273:26110-26617.
71. Conaway, J.W., Yan, Q., Moreland, R.J., Elmendorf, J., and Conaway, R.C. (1998) Mechanism of promoter escape by RNA polymerase II. *Cold Spring Harbor Symp. Quant. Biol.* LXIII, 357-364.

72. Kamura, T., Haque, D., Liu, L., Kaelin, W.G., Conaway, R.C., and Conaway, J.W. (1998) The Elongin BC complex interacts with the SOCS-box motif present in members of the suppressors of cytokine signalling (SOCS), Ras, WD-40 repeat, and ankyrin repeat families. *Genes and Development* *12*, 3872-3881.
73. Kamura, T., Koepp, D.M., Conrad, M.N., Skowyra, D., Moreland, R.J., Iliopoulos, O., Lane, W.S., Kaelin Jr, W.G., Elledge, S., Conaway, R.C., Harper, W., Conaway, J.W. (1999) Rbx1, a Component of the VHL Tumor Suppressor Complex and SCF Ubiquitin Ligase. *Science* *284*, 657-661.
74. Skowyra, D., Koepp, D.M., Kamura, T., Conrad, M., Conaway, R.C., Conaway, J.W., Elledge, S.J., Harper, J.W. (1999) Reconstitution of G1 Cyclin Ubiquitination with Complexes Containing SCF^{Grr1} and Rbx1. *Science* *284*, 662-665.
75. Brower, C.S., Shilatifard, A., Mather, T., Kamura, T., Takagi, Y., Haque, D., Treharne, A., Foundling, S., Conaway, J.W., and Conaway, R.C. (1999) The Elongin B ubiquitin homology domain: Identification of Elongin B sequences important for interaction with Elongin C. *J. Biol. Chem.* *274*, 13269-13636.
76. Botuyan, M.V., Koth, C.M., Mer, G., Chakrabarty, A., Conaway, J.W., Conaway, R.C., Edwards, A.M., Arrowsmith, C.H., and Chazin, W. (1999) Binding of Elongin A or a VHL peptide stabilizes the structure of yeast Elongin C. *Proc. Natl. Acad. Sci. USA.* *96*, 9033-9038.
77. Reines, D., Conaway, R.C., and Conaway, J.W. (1999) Mechanism and regulation of transcription elongation by RNA polymerase II. *Curr. Opin. Cell Biol.* *11*, 342-346.
78. Conaway, R.C. and Conaway, J.W. (1999) Transcription elongation and human disease. *Ann. Rev. Biochem.* *68*, 301-319.
79. Moreland, R.J., Tirode, F., Yan, Q., Conaway, J.W., Egly, J.M., Conaway, R.C. (1999) A role for the TFIIH XPB DNA helicase in promoter escape by RNA polymerase II. *J. Biol. Chem.* *274*, 127-22130.
80. Iwai, K., Yamanaka, K., Kamura, T., Minato, N., Conaway, R.C., Conaway, J.W., Klausner, R.D., and Pause, A. (1999) Identification of the von Hippel-Lindau tumor suppressor protein as part of an active E3 ubiquitin ligase complex. *Proc. Natl. Acad. Sci. USA* *96*, 12436-12441.
81. Kroll, S.L., Paulding, W.R., Schnell, P.O., Barton, M.C., Conaway, J.W., Conaway, R.C., and Czyzyk-Krzeska, M.F. (1999) Von Hippel-Lindau protein induces hypoxia-regulated arrest of tyrosine hydroxylase transcript elongation in pheochromocytoma cells. *J. Biol. Chem.* *274*, 30109-30114.
82. Yan, Q., Moreland, R.J., Conaway, J.W., Conaway, R.C. (1999) Dual roles for TFIIIF in promoter escape. *J. Biol. Chem.*, *274*, 35668-35675.
83. Ohh, M., Takagi, Y., Aso, T., Stebbins, C.E., Pavletich, N.P., Zbar, B., Conaway, R.C., Conaway, J.W., and Kaelin, W.G. (1999) Synthetic peptides define critical contacts between Elongin C, Elongin B, and the von Hippel-Lindau tumor suppressor protein. *J. Clin. Invest.*, *104*, 1583-1591.

84. Kamura, T., Conrad, M.N., Yan, Q., Conaway, R.C., Conaway, J.W. (1999) The Rbx1 subunit of SCF and VHL E3 ubiquitin ligase activates Rub1 modifications of cullins Cdc53 and Cul2. *Genes. Dev.* *13*, 2928-2933.
85. Koth, C.M., Botuyan, M.V., Moreland, R.J., Jansma, D., Conaway, J.W., Conaway, R.C., Chazin, W.J., Friesen, J.D., Arrowsmith, C.H., and Edwards, A.M. (2000) Elongin from *Saccharomyces cerevisiae*. *J. Biol. Chem.* *275*, 11174-11180.
86. Moreland, R.J., Dresser, M.E., Rodgers, J.S., Roe, B.A., Conaway, J.W., Conaway, R.C. and Hanas, J.S. (2000) Identification of a transcription factor IIIA-interacting protein. *Nuc. Acids Res.* *28*, 1986-1993.
87. Conaway, R.C., Shilatifard, A., Dvir, A., and Conaway, J.W. (2000) Control of elongation by RNA polymerase II. *Trends Biochem. Sci.* *25*, 370-380.
88. Kamura, T., Sato, S., Iwai, K., Czyzk-Kryzeska, M., Conaway, R.C., and Conaway, J.W. (2000) Activation of HIF1 α ubiquitination by a reconstituted von Hippel-Lindau (VHL) tumor suppressor complex. *Proc. Natl. Acad. Sci. USA*, *97*, 10430-10435.
89. Conaway, J.W. and Conaway, R.C. (2000) Light at the end of the channel. *Science* *288*, 632-633.
90. Kamura, T., Burian, D., Khalili, H., Schmidt, S. L., Sato, S., Liu, W.J., Conrad, M.N., Conaway, R.C., Conaway, J.W., and Shilatifard, A. (2001) Cloning and characterization of ELL-associated proteins EAP45 and EAP20: A role for yeast EAP-like proteins in regulation of gene expression by glucose. *J. Biol. Chem.* *276*, 16528-16533
91. Dvir, A., Conaway, J.W., and Conaway, R.C. (2001) The RNA polymerase II basal transcriptional machinery. *Curr. Opin. Genet. Dev.* *11*, 209-214.
92. Lui, J., Akoulitchev, S., Weber, A., Ge, H., Chuikov, S., Libutti, D., Wang, X.W., Conaway, J.W., Harris, C.C., Conaway, R.C., Reinberg, D., and Levens, D. (2001) Defective interplay of activators and repressors with TFIIF in xeroderma pigmentosum. *Cell* *104*, 353-363.
93. Conaway, R.C. and Conaway, J.W. The Elongin BC complex. In Encyclopedia Reference of Cancer, M. Schwab, Ed., Springer, 2001
94. Conaway, J.W. and Conaway, R.C. Eukaryotic RNA polymerases. In Encyclopedia of Molecular Medicine, T.E. Creighton, Ed., John Wiley & Sons, 2001
95. Spangler, L., Wang, X., Conaway, J.W., Conaway, R.C., and Dvir, A. (2001) TFIIF action in transcription initiation and promoter escape requires distinct regions of downstream promoter DNA. *Proc. Natl. Acad. Sci. USA* *98*, 5544-5549.
96. Elmendorf, B.J., Shilatifard, A., Yan, Q., Conaway, J.W., and Conaway, R.C. (2001) Transcription factors TFIIF, ELL, and Elongin negatively regulate SII-induced nascent transcript cleavage by non-arrested RNA polymerase II elongation intermediates. *J. Biol. Chem* *276*, 23109-23114.
97. Kamura, T., Burian, D., Yan, Q., Schmidt, S.L., Lane, W.S., Querido, E., Branton, P.E., Shilatifard, A., Conaway, R.C., and Conaway, J.W. (2001) Muf1, a novel Elongin BC-interacting

leucine-rich repeat protein that can assemble with Cul5 and Rbx1 to reconstitute a ubiquitin ligase. *J. Biol. Chem.* 276, 29748-29753

98. Querido, E., Blanchette, P., Yan, Q., Kamura, T., Morrison, M., Boivin, D., Kaelin, W.G., Conaway, R.C., Conaway, J.W., and Branton, P.E. (2001) Degradation of p53 by Adenovirus E4orf6 and E1B55K proteins occurs via a novel mechanism involving a cullin-containing complex. *Genes Dev.* 15, 3104-3117.
99. Kamura, T., Conaway, J.W., and Conaway, R.C. (2002) Roles of SCF and VHL ubiquitin ligases in regulation of cell growth. *Prog. Mol. Subcell. Biol.* 29, 1-15.
100. Zheng, N., Schulman, B.A., Song, L., Miller, J.J., Jeffrey, P.D., Wang, P., Chu, C., Koepp, D.M., Elledge, S.J., Pagano, M., Conaway, R.C., Conaway, J.W., Harper, J.W., Pavletich, N.P. (2002) Structure of the Cul1-Rbx1-Skp1-F-box^{Skp2} SCF ubiquitin ligase complex. *Nature* 416, 703-709.
101. Conaway, R.C., Brower, C.S., and Conaway, J.W. (2002) Emerging Roles of Ubiquitin in Transcription Regulation. *Science.* 296, 1254-1258.
102. Kamura, T., Brower, C.S., Conaway, R.C., and Conaway, J.W. (2002) A molecular basis for stabilization of the Von Hippel-Lindau tumor suppressor protein by components of the VHL ubiquitin ligase. *J. Biol. Chem.* 277, 30388-30393. First published on June 4, 2002; 10.1074/jbc.M203344200.
103. Conaway, J.W. and Conaway, R.C. (2002) Elongin BC and the VHL tumor suppressor complex. *Adv. Cancer Res.*, 85, 1-12.
104. Brower, C.S., Sato, S., Tomomori-Sato, C., Kamura, T., Pause, A., Stearman, R., Klausner, R.D., Malik, S., Lane, W.S., Sorokina, I., Roeder, R.G., Conaway, J.W., and Conaway, R.C. (2002) Mammalian mediator subunit mMED8 is an Elongin BC-interacting protein that can assemble with Cul2 and Rbx1 to reconstitute a ubiquitin ligase. *Proc. Natl. Acad. Sci. U.S.A.* 99, 10353-10358. First published on July 29, 2002; 10.1073/pnas.162424199.
105. Ivan, M., Gunzler, V., Kondo, K., Sorokina, I., Conaway, R.C., Conaway, J.W., and Kaelin, W.G., Jr. (2002) Biochemical purification and pharmacological inhibition of a mammalian HIF prolyl hydroxylase. *Proc. Natl. Acad. Sci. USA* 99, 13459-13464. First published on-line September 26, 2002; 10.173/pnas.192342099.
106. Shilatfard, A., Conaway, R.C., Conaway, J.W. (2003) The RNA polymerase II elongation complex. *Annu. Rev. Biochem.* 72, 693-715.
107. Maynard, M.A., Qi, H., Chung, J., Lee, E.H.L., Kondo, Y., Hara, S., Conaway, R.C., Conaway, J.W., and Ohh, M. (2003) Multiple splice variants of the human HIF-3 α locus are targets of the VHL E3 ubiquitin ligase complex. *J. Biol. Chem.* 278, 11032-11040. First published on January 21, 2003; 10.1074/jbc.M208681200.
108. Sato, S., Tomomori-Sato, C., Banks, C., Sorokina, I., Parmely, T., Kong, S., Jin, J., Cai, Y., Lane, W.S., Brower, C.S., Conaway, R.C., and Conaway, J.W. (2003) Identification of mammalian Mediator subunits with similarities to yeast Mediator subunits Srb5, Srb6, Med11, and Rox3. *J. Biol. Chem.* 278, 15123-15127. First published on February 12, 2003; 10.1074/jbc.C300054200.

109. Kuznetsova, A.V., Meller, J. Schnell, P.O., Nash, J.A., Ignacak, M.L., Sanchez, Y., Conaway, J.W., Conaway, R.C., and Czyzyk-Krzeska, M.F. (2003) VHL binds hyperphosphorylated large subunit of RNA polymerase II through a proline hydroxylation motif and targets it for ubiquitination. *Proc. Natl. Acad. Sci. USA* *100*, 2706-2711. First published on February 25, 2003; 10.1073/pnas.0436037100.
110. Conaway, R.C., Kong, S.E., and Conaway, J.W. (2003) TFIIS and GreB: two like-minded transcription elongation factors with sticky fingers. *Cell* *114*, 272-274.
111. Kong, S., Shilatifard, A., Conaway, R.C., and Conaway, J.W. (2003) Preparation and assay of RNA polymerase II elongation factors Elongin and ELL. *Meth. Enzymol.* *371*, 276-283.
112. Dvir, A., Conaway, J.W., and Conaway, R.C. (2003) Assays for investigating the mechanism of promoter escape by RNA polymerase II. *Meth. Enzymol.* *370*, 733-740.
113. Cai, Y., Tomomori-Sato, C., Sato, S., Sorokina, I., Parmely, T.J., Conaway, R.C., and Conaway, J.W. (2003) Identification of new subunits of the multiprotein mammalian TRRAP/Tip60-containing histone acetyltransferase complex. *J. Biol. Chem.* *278*, 42733-42736. First published on September 9, 2003; 10.1074/jbc.C300389200
114. Sato, S., Tomomori-Sato, C., Banks, C.A.S., Parmely, T.J., Sorokina, I., Brower, C.S., Conaway, R.C., and Conaway, J.W. (2003) A mammalian homolog of *Drosophila melanogaster* transcriptional coactivator Intersex is a subunit of the mammalian Mediator complex. *J.Biol.Chem.* *278*, 49671-49674. First published on-line Oct 2003; 10.1074/jbc.C300444200
115. Conaway, R.C. and Conaway, J.W. Von Hippel-Lindau (VHL) Protein. In Encyclopedia of Biological Chemistry, W.J. Lennarz and M.D. Lane, Eds., Elsevier, 2004.
116. Conaway, J.W. and Conaway, R.C. Gene Expression in Eukaryotes: RNA Polymerase II, Basal Transcription Factors, and mRNA Biosynthesis. In Encyclopedia of Biological Chemistry, W.J. Lennarz and M.D. Lane, Eds., Elsevier, 2004.
117. Adv. Protein Chem. vol 67, Proteins in Eukaryotic Transcription. Conaway, R.C. and Conaway, J.W., Eds., Academic Press, 2004.
118. Tomomori-Sato, C.; Sato, S.; Parmely, T.J.; Banks, C.A.S.; Sorokina, I.; Florens, L.; Zybailov, B.; Washburn, M.P.; Brower, C.S.; Conaway, R.C.; Conaway, J.W.; (2004) A mammalian mediator subunit that shares properties with *Saccharomyces cerevisiae* mediator subunit Cse2. *J. Biol. Chem.* *279*, 5846-5851. First published on-line Nov 2003.
119. Nastasi, T., Bongiovanni, A., Campos, Y., Mann, L., Toy, J.N., Bostrom, J., Rottier, R., Hahn, C., Conaway, J.W., Harris, A.J., D'Azzo, A. (2004) Ozz-E3, a muscle-specific ubiquitin ligase, regulates β -catenin degradation during myogenesis. *Dev. Cell* *6*, 269-282.
120. Sato, S., Tomomori-Sato, C., Parmely, T.J., Florens, L., Zybailov, B., Swanson, S.K., Banks, C.A.S., Jin, J., Cai, Y., Washburn, M.P., Conaway, J.W., and Conaway, R.C. (2004) A set of consensus mammalian Mediator subunits identified by multidimensional protein identification technology. *Mol. Cell* *14*, 685-691.

121. Bourbon, H.M., Aguilera, A., Ansari, A.Z., Asturias, F.J., Berk, A.J., Bjorklund, S., Blackwell, T.K., Borggreffe, T., Carey, M., Carlson, M., Conaway, J.W., Conaway, R.C., Emmons, S.W., Fondell, J.D., Freedman, L.P., Fukaswa, T., Gustafsson, C.M., Han, M., He, X., Herman, P.K., Hinnebusch, A., Holmberg, S., Holstege, F.C., Jaehning, J.A., Kim, Y.J., Kuras, L., Leutz, A., Lis, J.T., Meisterernst, M., Naar, A.M., Nasmyth, K., Parvin, J.D., Ptashne, M., Reinberg, D., Ronne, H., Sadowski, I., Sakurai, H., Sipiczki, M., Sternberg, P.W., Stillman, D.J., Strich, R., Struhl, K., Svejstrup, J.Q., Tuck, S., Winston, F., Roeder, R.G., Kornberg, R.D. (2004) A unified nomenclature for protein subunits of Mediator complexes linking transcriptional regulators to RNA polymerase II. (2004) *Mol. Cell* 14, 553-557.
122. Yan, Q., Kamura, T., Cai, Y., Jin, J., Ivan, M., Conaway, J.W., and Conaway, R.C. (2004) Identification of Elongin C and Skp1 Sequences that Determine Cullin Selection, *J. Biol. Chem.* 279, 43019-43026, First published on-line July 27, 2004.
123. Gerber, M., Eissenberg, J.C., Kong, S., Tenney, K., Conaway, J.W., Conaway, R.C., Shilatifard, A., (2004) In vivo requirement of the RNA polymerase II elongation factor Elongin A for proper gene expression and development. *Mol. Cell Biol.* 24 9911-9919.
124. Blanchette, P., Cheng, C.Y., Yan, Q., Ketner, G., Ornelles, D.A., Dobner, T., Conaway, R.C., Conaway, J.W., and Branton, P.E. (2004) Both BC-box motifs of adenovirus protein E4orf6 are required to efficiently assemble an E3 ligase complex that degrades p53. *Mol. Cell. Biol.* 24, 9619-9629.
125. Kamura T.; Maenaka, K.; Kotoshiba, S.; Matsumoto, M.; Kohda, D.; Conaway, R.C.; Conaway, J.W.; Nakayama, K.I.; (2004) VHL-box and SOCS-box domains determine binding specificity for Cul2-Rbx1 and Cul5-Rbx2 modules of ubiquitin ligases. *Genes Dev.* 18 3055-3065.
126. Heuze, M.L.; Guibal, F.C.; Banks, C.A.; Conaway, J.W.; Conaway, R.C.; Cayre, Y.E.; Benecke, A.; Lutz, P.G.; (2005) ASB2 is an Elongin BC-interacting protein that can assemble with Cullin 5 and Rbx1 to reconstitute an E3 ubiquitin ligase complex. *J.Biol.Chem.* 280 5468-5474.
127. Gerber M.; Tenney, K.; Conaway, J.W.; Conaway, R.C. Eissenberg, J.C.; Shilatifard, A.; (2005) Regulation of heat shock gene expression by RNA polymerase II elongation factor, Elongin A. *J.Biol.Chem.* 280 4017-4020.
128. Conaway, J.W., Florens, L., Sato, S., Tomomori-Sato, C., Parmely, T.J., Yao, T., Swanson, S.K., Banks, C.A.S., Washburn, M.P., and Conaway, R.C. (2005) The Mammalian Mediator Complex. *FEBS Lett.* 579, 904-908 (special issue, Proceedings of the 130th Nobel Symposium on Molecular Mechanisms in Biological Regulation).
129. Cai, Y., Jin, J., Florens, L., Swanson, S.K., Kusch, T., Li, B., Workman, J.L., Washburn, M.P., Conaway, R.C., Conaway, J.W. (2005) The mammalian YL1 protein is a shared subunit of the TRRAP/TIP60 histone acetyltransferase and SRCAP complexes. *J. Biol. Chem.*, 280 13665-13670. First published on-line Apr. 8, 2005.
130. Conaway, R.C.; Sato, S.; Tomomori-Sato, C.; Yao, T.; Conaway, J.W.; (2005) The mammalian Mediator complex and its role in transcriptional regulation. *Trends Biochem Sci.* 30, 250-255.

131. Kong, S.E.; Banks, C.A.; Shilatifard, A.; Conaway J.W.; Conaway R.C.; (2005) ELL-associated factors 1 and 2 are positive regulators of RNA polymerase II elongation factor ELL. *Proc. Natl. Acad. Sci. USA* *102*, 10094-10098.
132. Jin, J.; Cai, Y.; Yao, T.; Gottschalk, A.; Florens, L.; Swanson, S.K.; Gutierrez, J.L.; Coleman, M.K.; Workman, J.L.; Mushegian, A.; Washburn, M.P.; Conaway, R.C.; Conaway, J.W. (2005) A Mammalian Chromatin Remodeling Complex with Similarities to the Yeast INO80 Complex. *J. Biol. Chem.* *280*, 41207-41212.
133. Jin, J., Cai, Y., Li, B., Conaway, R.C., Workman, J.L., Conaway, J.W., and Kusch, T. (2005) In and out: histone variant exchange in chromatin. *Trends Biochem. Sci.* *30* 680-687.
134. Ruhl, D.D., Jin, J. Cai, Y., Swanson S.K., Florens, L., Washburn, M.P., Conaway, R.C., Conaway, J.W., and Chrivia, J.C. (2006) Purification of a human SRCAP complex that remodels chromatin by incorporating the histone variant H2A.Z into nucleosomes. *Biochemistry* *45*, 5671-5677.
135. Cai, Y., Jin, J., Gottschalk, A.J., Yao, T., Conaway, J.W., and Conaway R.C. (2006) Purification and assay of the human INO80 and SRCAP chromatin remodeling complexes. *Methods* *40*, 312-317.
136. Yao, T., Song, L., Xu, W., DeMartino, G.N., Florens, L., Swanson, S.K., Washburn, M.P., Conaway, R.C., Conaway, J.W.*, and Cohen, R.E.* (2006) Proteasome recruitment and activation of the Uch37 deubiquitinating enzyme by Adrm1. *Nature Cell Biology* *8*, 994-1002 (Epub 2006 Aug13).
137. Charlet-Berguerand, N., Feuerhahn, S., Kong, S.E., Ziserman, H., Conaway, J.W., Conaway, R.C., Egly, J.M. (2006) RNA polymerase II bypass of oxidative DNA damage is regulated by transcription elongation factors. *EMBO J.* *25*, 5481-5491
138. Paoletti, A.C., Parmely, T.J., Tomomori-Sato, C., Sato, S., Zhu, D., Conaway, R.C., Conaway, J.W., Florens, L., Washburn, M.P. (2006) Quantitative proteomic analysis of distinct mammalian Mediator complexes using normalized spectral abundance factors. *Proc. Natl. Acad. Sci. U.S.A.* *103*, 18928-18933.
139. Svejstrup, J.Q., Conaway, R.C., Conway, J.W. (2006) RNA polymerase II: A "Nobel" enzyme demystified. *Mol. Cell* *24*, 637-642.
140. Banks, C.A., Kong, S.E., Spahr, H., Florens, L., Martin-Brown, S., Washburn, M.P., Conaway, J.W., Mushegian, A., Conaway, R.C. (2007) Identification and characterization of a *Schizosaccharomyces pombe* RNA polymerase II elongation factor with similarity to the metazoan transcription factor ELL. *J. Biol. Chem.* *282*, 5761-5769 (Epub ahead of print Dec 8, 2006).
141. Cai, Y., Jin, J., Yao, T., Gottschalk, A.J., Swanson, S.K., Wu, S., Shi, Y., Washburn, M.P., Florens, L., Conaway, R.C., Conaway, J.W. (2007) YY1 functions with INO80 to activate transcription, *Nat. Struct. Mol. Biol.* *14*, 872-874.
142. Koutelou, E., Sato, S., Tomomori-Sato, C., Florens, L., Swanson, S.K., Washburn, M.P., Kokkinaki, M., Conaway, R.C., Conaway, J.W.*, Moschonas, N.* (2008) Neuralized-like 1

- targeted to the plasma membrane by N-myristoylation regulates the Notch ligand Jagged1. *J. Biol. Chem.* 283, 3846-3853 (Epub ahead of print Dec 12, 2007).
143. Mahrouf, N., Redwine, W.B., Florens, L., Swanson, S.K., Martin-Brown, S., Bradford, W.D., Staehling-Hampton, K., Washburn, M.P., Conaway, R.C., and Conaway, J.W. (2008) Characterization of cullin-box sequences that direct recruitment of Cul2-Rbx1 and Cul5-Rbx2 modules to elongin BC-based ligases. *J. Biol. Chem.* 283, 8005-8013 (Epub ahead of print Jan 10, 2008).
 144. Sardu, M.E., Cai, Y., Jin, J., Swanson, S.K., Conaway, R.C., Conaway, J.W., Florens, L., and Washburn, M.P. (2008) Modularity and interaction strength in a local human protein network. *Proc. Natl. Acad. Sci., U.S.A.* 105, 1454-1459 (Epub ahead of print Feb 5, 2008).
 145. Gottschalk, A.J., Conaway, R.C., and Conaway, J.W. (2008) New clues to actin function in chromatin regulation. *Nat. Struct. Mol. Biol.* 15, 432-433. (News & Views)
 146. Yao, T., Song, L., Jin, J., Cai, Y., Takahashi, H., Swanson, S.K., Washburn, M.P., Florens, L., Conaway, R.C., Cohen, R.E, and Conaway, J.W. (2008) Distinct modes of regulation of the Uch37 deubiquitinating enzyme in the proteasome and in the INO80 chromatin remodeling complex. *Mol. Cell* 31, 909-917.
 147. Conaway, R.C. and Conaway J.W. (2009) The INO80 chromatin remodeling complex in transcription, replication and repair. *Trends Biochem. Sci.* 34, 71-77 (Epub ahead of print Dec 4, 2008).
 148. Yasukawa, T., Kamura, T., Kitajima, S., Conaway, R.C., Conaway, J.W., and Aso, T. (2008) Mammalian Elongin A complex mediates DNA-damage-induced ubiquitylation and degradation of Rpb1. *EMBO J.* 27, 3256-3266.
 149. Ding, N., Tomomori-Sato, C., Sato, S., Conaway, R.C., Conaway, J.W., and Boyer, T.G. (2009) MED19 and MED26 are synergistic functional targets of the RE1 silencing transcription factor in epigenetic silencing of neuronal gene expression. *J. Biol. Chem.* 284 2648-2656.
 150. Conaway, R.C. and Conaway, J.W. (2009) Mediator comes out from the shadows. *Structure*, 17, 485-486. (invited commentary)
 151. Aygun, O., Xu, X., Liu, Y., Takahashi, H., Kong, S.E., Conaway, R.C., Conaway, J.W., and Svejstrup, J.Q. (2009) Direct inhibition of RNA polymerase II transcription by RECQL5. *J. Biol. Chem.* 284, 23197-23203.
 152. Gottschalk, A.J., Timinszky, G., Kong, S.E., Jin, J., Cai, Y., Swanson, S.K., Washburn, M.P., Florens, L., Ladurner, A.G., Conaway, J.W., Conaway, R.C. (2009) Poly(ADP-ribosylation) directs recruitment and activation of an ATP-dependent chromatin remodeler. *Proc. Natl. Acad. Sci. U.S.A.* 106, 13770-13774.
 153. Takahashi, H., Martin-Brown, S., Washburn, M.P., Florens, L., Conaway, J.W., Conaway, R.C. (2009) Proteomics reveals a physical and functional link between hepatocyte nuclear factor 4 α and TFIID. *J. Biol. Chem.* 284, 32405-32412.

154. Liu, Y. and Conaway, J.W. (2009) When transcription meets recombination: a lesson from the human RECQ helicases. *F1000 Biology Reports* *1*,76.
155. Harreman, M., Taschner, M., Sigurdsson, S., Anindya, R., Reid, J., Somesh, B., Kong, S.E., Banks, C.A.S., Conaway, R.C., Conaway, J.W., Svejstrup, J.Q. (2009) Distinct ubiquitin ligases act sequentially for RNA polymerase II polyubiquitylation. *Proc. Natl. Acad. Sci. U.S.A.* *106*, 20705-20710.
156. Cai, Y., Jin, J., Swanson, S.K., Cole, M.D., Choi, S.H., Florens, L., Washburn, M.P., Conaway, J.W., Conaway, R.C. (2010) Subunit composition and substrate specificity of a MOF-containing histone acetyltransferase distinct from the Male-Specific Lethal (MSL) complex. *J. Biol. Chem.* *285*, 4268-4272.
157. Lin, C., Smith, E.R., Takahashi, H., Lai, K.C., Martin-Brown, S., Florens, L., Washburn, M.P., Conaway J.W., Conaway, R.C., Shilatifard, A. (2010) Aff4, a component of the ELL/P-TEFb elongation complex and a shared subunit of MLL chimeras, can link transcription elongation to leukemia. *Mol Cell* *37*, 429-437.
158. Capotosti, F., Guernier, S., Lammers, F., Wairdel, P., Cai, Y., Jin, J., Conaway, J.W., Conaway, R.C., and Herr, W. (2011) O-GlcNAc transferase catalyzes site-specific proteolysis of HCF-1. *Cell* *144*, 376-388.
159. Chen, L., Cai, Y., Jin, J., Florens, L., Swanson, S.K., Washburn, M.P., Conaway, J.W., Conaway, R.C. (2011) Subunit organization of the human INO80 chromatin remodeling complex: An evolutionarily conserved core complex catalyzes ATP-dependent nucleosome remodeling. *J. Biol. Chem.* *285*, 4268-4272.
160. Mushegian, A. and Conaway, J.W. (2011) Thematic minireview series: computational systems biology. *J. Biol. Chem.* *286*, 23621-23622.
161. Conaway, R.C. and Conaway, J.W. (2011) Function and regulation of the Mediator complex. *Curr. Opin. Genet. Dev.* *21*, 225-230.
162. Takahashi, H., Parmely, T.J., Sato, S., Tomomori-Sato, C., Banks, C.A., Kong, S.E., Szutorisz, H., Swanson, S.K., Martin-Brown, S., Washburn, M.P., Florens, L., Seidel, C., Lin, C., Smith, E.R., Shilatifard, A., Conaway, R.C., Conaway, J.W. (2011) Role for the human Mediator subunit Med26 as a docking site for transcription elongation factors. *Cell* *146*, 92-104.
163. Conaway, R.C. and Conaway, J.W. (2011) Origins and activity of the Mediator Complex (2011) *Seminars in Cell and Developmental Biology* *22*, 729-734.
164. Costessi, A., Mahrouf, N., Tijchon, E., Stunnenberg, R., Stoel, M.A., Jansen, P.W., Sela, D., Martin-Brown, S., Washburn, M.P., Florens, L., Conaway, J.W., Conaway, R.C. *, Stunnenberg, H.G.* (2011) The tumor antigen PRAME is a subunit of a Cul2 ubiquitin ligase and associates with active NFY promoters. *EMBO J.*, *30*, 3786-3798.
165. Conaway, R.C. and Conaway, J.W. Von Hippel-Lindau (VHL) Protein. In *Encyclopedia of Biological Chemistry*, 2nd Edition, W.J. Lennarz and M.D. Lane, Eds., Elsevier, 2012.

166. Sela, D., Chen, L., Martin-Brown, S., Washburn, M.P., Florens, L., Conaway, J.W., Conaway, R.C. (2012) Endoplasmic reticulum stress-responsive transcription factor ATF6 α directs recruitment of the Mediator of RNA polymerase II transcription and multiple histone acetyltransferases. *J. Biol. Chem.* 287, 2848-28494.
167. Yasukawa, T., Bhatt, S., Takeuchi, T., Kawauchi, J., Takahashi, H., Tsutsui, A., Muraoka, T., Inoue, M., Tsuda, M., Kitajima, S., Conaway, R.C., Conaway, J.W., Trainor, P.A., Aso, T. (2012) Transcriptional elongation factor Elongin A regulates retinoic acid-induced gene expression during neuronal differentiation. *Cell Rep.* 2, 1129-1136.
168. Conaway, R.C. and Conaway, J.W. (2012) The Mediator complex and transcription elongation. *Biochim Biophys Acta.* doi:pil: S1874-9399(12)00161-7. 10.1016/j.bbagr.2012.08.017.
169. Costessi, A., Mahrouf, N., Sharma, V., Stunnenberg, R., Stoel, M.A., Tijchon, E., Conaway, J.W., Conaway, R.C., and Stunnenberg, H.G. (2012) *PloS One* 7:e42822.
170. Gottschalk, A.J., Trivedi, R.D., Conaway, J.W., and Conaway, R.C. (2012) Activation of the SNF2 family ATPase ALC1 by poly(ADP-ribose) in a stable nucleosome•PARP1•ALC1 intermediate. *J. Biol. Chem.* 287, 43527-43532.
171. Tomomori-Sato, C., Sato, S., Conaway, R.C., and Conaway, J.W. (2013) Immunoaffinity purification of protein complexes from mammalian cells. *Methods Mol Biol.* 977, 273-287.
172. Tsai, K.L., Sato, S., Tomomori-Sato, C., Conaway, R.C., Conaway, J.W., Asturias, F.J. (2013) A conserved Mediator-CDK8 kinase module association regulates Mediator-RNA polymerase II interaction. *Nat. Struct. Mol. Biol.*, 20, 611-619.
173. Kawauchi, J., Inoue, M., Fukuda, M., Uchida, Y., Yasukawa, T., Conaway, R.C., Conaway, J.W., Aso, T., Kitajima, S. (2013) Transcriptional properties of mammalian Elongin A and its role in stress response. *J Biol. Chem.* 288, 24302-24315.
174. Sela, D., Conkright, J.J., Chen, L., Gilmore, J., Washburn, M.P., Florens, L., Conaway, R.C., Conaway, J.W. (2013) Role for human Mediator subunit MED25 in recruitment of mediator to promoters by endoplasmic reticulum stress-responsive transcription factor ATF6 α . *J. Biol. Chem.* 288, 26179-26187.
175. Zhao, X., Su, J., Wang, F., Liu, D., Ding, J., Yang, Y., Conaway, J.W., Conaway, R.C., Cao, L., Wu, D., Wu, M., Cai, Y., Jin, J. (2013) Crosstalk between NSL histone acetyltransferase and MLL/SET complexes: NSL complex functions in promoting histone H3K4 d-methylation activity MLL/SET complexes. *PLoS Genetics* 9, e1003940.
176. Chen, L., Conaway, R.C., Conaway, J.W. (2013) Multiple modes of regulation of the human Ino80 Snf2 ATPase by subunits of the INO80 chromatin remodeling complex. *Proc. Natl. Acad. Sci., USA*, 110, 20497-20502.
177. Tsai, K.L., Tomomori-Sato, C., Sato, S., Conaway, R.C., Conaway, J.W., and Asturias, F.J. (2014) Subunit architecture and functional modular rearrangements of the transcriptional mediator complex. *Cell* 157, 1430-1444.

178. Chen, L., Ooi, S.K., Conaway, R.C., Conaway, J.W. (2014) Generation and Purification of Human INO80 Chromatin Remodeling Complexes and Subcomplexes. *J. Vis. Exp.*, Oct 23.
179. Chen, L., Ooi, S.K., Conaway, J.W., Conaway, R.C. (2014) Biochemical Assays for Analyzing Activities of ATP-dependent Chromatin Remodeling Enzymes. *J. Vis. Exp.*, Oct 25.
180. Wang, L., Limbo, O., Fei, J., Chen, L., Kim, B., Luo, J., Chong, J., Conaway, R.C., Conaway, J.W., Ranish, J.A., Kadonaga, J.T., Russell, P., Wang, D. (2014) Regulation of the RHp26^{ERCC6/CSB} chromatin remodeler by a novel conserved leucine latch motif. *Proc. Natl. Acad. Sci., USA* 111, 18566-18571.
181. Sardu, M.E., Gilmore, J.M., Groppa, B.D., Herman, D., Ramisetty, S.R., Cai, Y., Jin, J., Conaway, R.C., Conaway, J.W., Florens, L., Washburn, M.P. (2015) Conserved abundance and topological features in chromatin-remodeling protein interaction networks. *EMBO Rep.* 16, 116-126.
182. Takahashi, H., Takigawa, I., Watanabe, M., Anwar, D., Shibata, M., Tomomori-Sato, C., Sato, S., Ranjan, A., Seidel, C.W., Tsukiyama, T., Mizushima, W., Hayashi, M., Ohkawa, Y., Conaway, J.W., Conaway, R.C., Hatakeyama, S. (2015) MED26 regulates the transcription of snRNA genes through the recruitment of little elongation complex. *Nat Commun.* 6, 5941.
183. Conaway, R.C., Conaway, J.W. (2015) Orchestrating transcription with the pol II CTD. *Nat Rev Mol Cell Biol.* 16, 128.
184. Weems, J., Slaughter, B.D., Unruh, J.R., Hall, S.M., McLaird, M.B., Gilmore, J.M., Washburn, M.P., Florens, L., Yasukawa, T., Aso, T., Conaway, J.W., Conaway, R.C. (2015) Assembly of the Elongin A ubiquitin ligase is regulated by genotoxic and other stresses. *J. Biol Chem.* 290, 15030-15041.
185. Masuda, Y., Takahashi, H., Sato, S., Tomomori-Sato, C., Saraf, A., Washburn, M.P., Florens, L., Conaway, R.C., Conaway, J.W., and Hatakeyama, S. (2015) TRIM29 regulates the assembly of DNA repair proteins into damaged chromatin. *Nat. Commun.* 6, 7299. doi: 10.1038/ncomms8299.
186. Boeing, S., Williamson, L., Encheva, V., Gori, I., Saunders, R.E., Instrell, R., Aygun, O., Rodriguez-Martinez, M., Weems, J.C., Kelly, G.P., Conaway, J.W., Conaway, R.C., Stewart, A., Howell, M., Snijders, A.P., Svejstrup, J.Q. (2016) Multiomic analysis of the UV-induced DNA damage response. *Cell Reports* May 11. pii: S2211-1247(16)30474-0. doi: 10.1016/j.celrep.2016.04.047.
187. Sato, S., Tomomori-Sato, C., Tsai, K.L., Yu, X., Sardu, M., Saraf, A., Washburn, M.P., Florens, L., Asturias, F.J., Conaway, R.C., Conaway, J.W. (2016) Role for the MED21-MED7 hinge in assembly of the Mediator-RNA polymerase II holoenzyme. *J. Biol. Chem.* 291: 26886-26898. doi: 10.1074/jbc.M116.756098.
188. Tsai, K.L., Yu, X., Gopalan, S., Zhang, Y., Florens, L., Washburn, M.P., Murakami, K., Conaway, R.C., Conaway, J.W., Asturias, F.J. (2017) Mediator structure and rearrangements required for preinitiation complex stabilization. *Nature* 544, 196-201. doi: 10.1038/nature21393.

189. Weems, J.C., Slaughter, B.D., Unruh, J.R., Boeing, S., Hall, S.M., McLaird, M.B., Yasukawa, T., Aso, T., Svejstrup, J.Q., Conaway, J.W., Conaway, R.C. (2017) Cockayne Syndrome B Protein Regulates Recruitment of the Elongin A Ubiquitin Ligase to Sites of DNA Damage. *J. Biol Chem.* 292, 6431-6437. doi: 10.1074/jbc.C117.777946.
190. Wu, D.L., Zhao, L.H., Feng, Z.T., Yu, C., Ding, J., Wang, L.Y., Wang, F., Liu, D., Zhu, H.H., Xing, F.Y., Conaway, J.W., Conaway, R.C., Cai, Y., Jin, J.J. (2017) O-linked N-acetylglucosamine transferase 1 regulates global histone H4 acetylation via stabilization of the non-specific lethal protein NSL3. *J Biol Chem.* 292, 10014-10025. doi: 10.1074/jbc.M117.781401.
191. Gopalan, S., Gibbon, D.M., Banks, C.A.S., Zhang, Y., Florens, L.A., Washburn, M.P., Dabas, P., Sharma, N., Seidel, C.W., Conaway, R.C., Conaway, J.W. (2018) Schizosaccharomyces pombe Pol II transcription elongation factor ELL functions as part of a rudimentary super elongation complex. *Nucleic Acids Res.* doi: 10.1093/nar/gky713. [Epub ahead of print]
192. Noe Gonzalez, M., Sato, S., Tomomori-Sato, C., Conaway, J.W., Conaway, R.C. (2018) CTD-dependent and -independent mechanisms govern co-transcriptional capping of Pol II transcripts. *Nat. Commun.* 9:3392. doi: 10.1038/s41467-018-05923-w.
193. Noe Gonzalez, M., Conaway, R.C., Conaway, J.W. (2018) Frozen in transcription: Cryo-EM structures of Pol II transcribing through a nucleosome. *Mol Cell.* 72, 802-804. doi: 10.1016/j.molcel.2018.11.027.
194. Noe Gonzalez, M., Conaway, J.W., Conaway, R.C. (2019) Artificial RNA polymerase II elongation complexes for dissecting co-transcriptional RNA processing events. *J. Vis. Exp.*, doi: 10.3791/59497.
195. Weems, J.C., Unruh, J.R., Slaughter, B.D., Conaway, R.C., and Conaway, J.W. (2019) Imaging-based assays for investigating functions of the RNA polymerase II elongation factor Elongin and the Elongin ubiquitin ligase. *Methods*, pii: S1046-2023(18)30290-1. doi: 10.1016/j.jymeth.2019.02.015. [Epub ahead of print]
196. Tettey, T.T., Gao, X., Shao, W., Li, H., Story, B.A., Chitsazan, A.D., Glaser, R.L., Goode, Z.H., Seidel, C.W., Conaway, R.C., Zeitlinger, J., Blanchette, M., Conaway, J.W. (2019) A role for FACT in RNA polymerase II promoter proximal pausing. *Cell Reports*, 27, 3770-3779.e7 doi: 10.1016/j.celrep.2019.05.099.
197. Takahashi, H.*, Ranjan, A., Chen, S., Suzuki, H., Shibata, M., Hirose, T., Hirose, H., Sasaki, K., Abe, R., Chen, K., He, Y., Zhang, Y., Takigawa, I., Tsukiyama, T., Watanabe, M., Fujii, S., Iida, M., Yamamoto, J., Yamaguchi, Y., Suzuki, Y., Matsumoto, M., Nakayama, K.I., Washburn, M.P., Saraf, A., Florens, L., Sato, S., Tomomori-Sato, C., Conaway R.C., Conaway, J.W.*, Hatakeyama, S.* (2020) The role of Mediator and Little Elongation Complex in transcription termination. *Nature Communications.* 11:1063. doi: 10.1038/s41467-020-14849-1 (*co-corresponding authors)
198. Singh, N.P., De Kumar, B., Paulson, A., Parrish, M.E., Zhang, Y., Florens, L., Conaway, J.W., Si, K., Krumlauf, R. (2020) A six-amino-acid motif is a major determinant in functional evolution of HOX1 proteins. *Genes Dev.* 34, 1680-1696. doi: 10.1101/gad.342329.120. Epub 2020 Nov 12.

199. Yasukawa, T., Tsutsui, A., Tomomori-Sato, C., Sato, S., Saraf, A., Washburn, M.P., Florens, L., Terada, T., Shimizu, K., Conaway, R.C., Conaway, J.W., Aso, T. (2020) NRBP1-containing CRL2/CRL4A regulates amyloid β production by targeting BRI2 and BRI3 for degradation. *Cell Rep.* 30, 3478-349.e.6. doi: 10.1016/j.celrep.2020.02.059
200. Tufegdžić Vidaković, A., Mitter, R., Kelly, G.P., Neumann, M., Harreman, M., Rodríguez-Martínez, M., Herlihy, A., Weems, J.C., Boeing, S., Encheva, V., Gaul, L., Milligan, L., Tollervey, D., Conaway, R.C., Conaway, J.W., Snijders, A.P., Stewart, A., Svejstrup, J.Q. (2020) Regulation of the RNAPII pool is integral to the DNA damage response. *Cell* 180, 1245-1261.e21. doi: 10.1016/j.cell.2020.02.009.

Invited Presentations

Meetings

- 1990 Invited speaker, Gordon Conference on Nuclear Proteins, Gene Regulation, and Chromatin Structure, Tilton, New Hampshire.
- 1993 Invited speaker, Second Annual Austin Spring Meeting, "The Transcription Machine: Assembly and Function," Austin, Texas.
- 1993 Invited speaker, Gordon Conference on Nucleic Acids, New Hampton, New Hampshire.
- 1994 Invited speaker, Keystone Symposium on "Basic Aspects of Transcription," Keystone, Colorado.
- 1995 Invited speaker, Gordon Conference on Nucleic Acids, New Hampton, New Hampshire.
- 1995 Special Lecturer, 10th Asagiri Symposium, Asagiri, Japan.
- 1996 Invited speaker, Keystone Symposium on Transcription, Taos, New Mexico.
- 1996 Invited speaker, 1996 Gordon Conference on Molecular Genetics, Newport, Rhode Island
- 1996 Invited speaker, FASEB Meeting on Transcription, Snowmass, Colorado
- 1997 Invited speaker, Cold Spring Harbor Meeting on "Mechanisms of Eukaryotic Transcription," Cold Spring Harbor Laboratories, Cold Spring Harbor, New York.
- 1997 Invited speaker, Symposium on Basic Mechanisms of Transcription Initiation, Elongation, and Termination, 17th International Congress of Biochemistry and Molecular Biology and 1997 Annual Meeting of the American Society for Biochemistry and Molecular Biology, San Francisco, California.
- 1997 Invited speaker, American Association for Cancer Research Special Conference on Transcriptional Control of Proliferation, Differentiation, and Development, Bolton's Landing, New York
- 1997 Invited speaker, American Society for Nephrology Symposium on RNA Processing, San Antonio, Texas
- 1998 Invited speaker, Keystone Symposium on Transcriptional Mechanisms, Taos, New Mexico.
- 1998 Invited speaker, Ben May Cancer Biology Symposium, "Regulation of Gene Expression and Proliferation", Chicago, Illinois
- 1998 Invited speaker, 63rd Cold Spring Harbor Symposium on Quantitative Biology, "Mechanisms of Transcription", Cold Spring Harbor, New York
- 1998 Invited speaker, FASEB Summer Research Conference on "Transcriptional Regulation during Cell Growth, Differentiation and Development", Snowmass Colorado.
- 1998 Invited speaker, EMBL Transcription Meeting, Heidelberg, Germany.
- 1999 Invited speaker, Keystone Symposium on the Molecular Basis of Cancer
- 1999 Invited speaker, Sixth Cold Spring Harbor Meeting on Mechanisms of Eukaryotic Transcription, Cold Spring Harbor, New York
- 1999 Invited speaker, Jaques Monod Conference on Transcription and Development, Roscoff, France.
- 2000 Invited Speaker, FASEB Summer Research Conference on "Transcriptional Regulation during Cell Growth, Differentiation and Development", Snowmass Colorado.
- 2000 Invited Speaker, Molecular Genetics Gordon Conference, Connecticut College, New London, CT.
- 2000 Invited speaker, Keystone Symposium on the Molecular Basis of Cancer
- 2001 Invited speaker, Keystone Symposium on Transcription Mechanisms, Santa Fe, NM
- 2002 Invited speaker, Seventh Cold Spring Harbor Meeting on Mechanisms of Eukaryotic Transcription, Cold Spring Harbor, NY

- 2002 Invited speaker, FASEB Summer Research Conference on “Transcriptional Regulation during Cell Growth, Differentiation, and Development”, Saxton’s River, VT
- 2003 Invited speaker, Keystone Symposium on the Enzymology of Chromatin and Transcription, Santa Fe, NM
- 2003 Invited speaker, NIDDK workshop on “Ubiquitin and Ubiquitin-like Modifications in Health and Disease. National Institute of Diabetes and Digestive and Kidney Diseases, Bethesda, MD.
- 2004 Invited speaker, Workshop on “Ubiquitin in Cancer and in Chronic Diseases.” The Hebrew University of Jerusalem and the Institute for Advanced Studies, Giv’at Ram, Jerusalem.
- 2004 Lecturer on “Regulation of Transcription Initiation and Elongation,” 2004-2007 Cold Spring Harbor Gene Expression Course, Cold Spring Harbor Laboratory.
- 2004 Invited speaker, FASEB Summer Research Conference on “Transcriptional Regulation During Cell Growth, Differentiation, and Development,” Saxton’s River, VT.
- 2004 Invited speaker, 6th EMBL Transcription Meeting, Heidelberg, Germany.
- 2004 Invited speaker, 130th Nobel Symposium (Chemistry) on “Molecular Mechanisms in Biological Systems,” Tällberg, Dalarna, Sweden.
- 2004 Keynote speaker, ASBMB Fall Symposium on “Transcriptional Regulation by Chromatin and RNA Polymerase II,” Granlibakken, Lake Tahoe, CA.
- 2005 Invited speaker and Discussion Leader, Nucleic Acids Gordon Conference, Newport, R. I.
- 2005 Plenary speaker, 7th International Symposium on Mass Spectrometry in the Health and Life Sciences
- 2006 Invited speaker, Keystone Symposium on “Nucleic Acid Enzymes,” Taos, NM
- 2006 Invited speaker, Keystone Symposium on “Regulation of Eukaryotic Transcription: From Chromatin to mRNA,” Taos, NM
- 2006 Plenary speaker, Midwest Meeting on Chromatin, Transcription, and Nuclear Dynamics, Iowa City, IA
- 2006 Invited speaker, FASEB Summer Research Conference on “Transcriptional Regulation During Cell Growth, Differentiation, and Development,” Saxton’s River, VT.
- 2006 Invited speaker, ASBMB Special Symposium, “Transcriptional Regulation by Chromatin and RNA Polymerase II,” Kiawah Island, SC.
- 2007 Invited speaker, Salk Institute, Fondation IPSEN, and *Nature* Symposium on Biological Complexity, “Diseases of Transcription,” La Jolla, CA
- 2007 Speaker, Cold Spring Harbor Meeting on Mechanisms of Eukaryotic Transcription, Cold Spring Harbor, NY
- 2007 Invited speaker, Joint Annual Meetings of the Molecular Biology Society of Japan and Japanese Biochemical Society, Yokohama, Japan
- 2008 Invited speaker, Keystone Symposium on “Regulatory Mechanisms in Eukaryotic Transcription,” Keystone, CO.
- 2008 Invited speaker, FASEB Summer Research Conference on “Transcriptional Regulation During Cell Growth, Differentiation, and Development,” Snowmass, CO.
- 2008 Invited speaker, Benzon Symposium No. 55, “Transcription, chromatin, and disease,” Copenhagen, Denmark
- 2008 Invited speaker, 8th EMBL Transcription Meeting, Heidelberg, Germany
- 2009 Invited speaker, “Proteomic characterization of macromolecular complexes involved in DNA metabolism,” Trieste, Italy
- 2009 Invited speaker, Keystone Symposium on “Deregulation of transcription in cancer: Controlling cell fate decisions,” Killarney, Co. Kerry, Ireland.
- 2009 Invited speaker, Cold Spring Harbor Meeting on Mechanisms of Eukaryotic Transcription, Cold Spring Harbor, NY

- 2010 Invited speaker, Keystone Symposium "Dynamics of Eukaryotic Transcription During Development," Big Sky, Montana
- 2012 Invited speaker, ASBMB Annual Meeting, San Diego, CA.
- 2012 Invited speaker, ASBMB Special Symposium "Transcriptional Regulation: Chromatin and RNA Polymerase II," Snowbird, Utah.
- 2013 Invited speaker, Japanese Biochemical Society Hokkaido Division, Sapporo, Japan.
- 2013 Keynote speaker, Transcription Cycle Symposium, Hakone, Japan.
- 2014 Invited speaker, Cold Spring Harbor Meeting on Mechanisms of Eukaryotic Transcription, Cold Spring Harbor, NY
- 2014 Invited speaker, concurrent Keystone Symposia "Transcriptional Regulation" and "Cancer Epigenetics," Santa Fe, NM.
- 2014 Invited speaker, Cold Spring Harbor Meeting "The PARP Family & Friends," Cold Spring Harbor, NY
- 2016 Invited speaker, IAS Focused Program on Mechanisms of Transcription and Its Regulation, Hong Kong University of Science and Technology, Hong Kong.
- 2017 Keynote address, FASEB Scientific Research Conference "Mechanism and Regulation of Prokaryotic Transcription," Saxton's River, VT.
- 2017 Invited speaker, ASBMB Special Symposium on "Evolution and Core Processes in Gene Expression," Kansas City, MO.
- 2018 Invited speaker, IAS Focused Program on Mechanisms of Transcription and Its Regulation, Hong Kong University of Science and Technology, Hong Kong.
- 2019 Invited speaker, Penn State Summer Symposium, University Park, PA

Seminars

- 1989 DNAX Research Institute of Molecular and Cellular Biology, Palo Alto, California.
- 1989 Department of Biology, Haverford College, Haverford, Pennsylvania.
- 1991 Department of Microbiology and Immunology, University of Oklahoma Health Sciences Center, Oklahoma City, Oklahoma.
- 1992 Department of Molecular Biology and Microbiology, Case Western Reserve University, Cleveland, Ohio.
- 1992 Department of Chemistry and Biochemistry, Southern Illinois University, Carbondale, Illinois.
- 1992 Department of Botany and Microbiology, University of Oklahoma, Norman, Oklahoma.
- 1992 University of Colorado Health Science Center, Denver, Colorado.
- 1993 Department of Biochemistry, University of Texas Southwestern Medical School, Dallas, Texas.
- 1993 Department of Biochemistry, Emory University School of Medicine, Atlanta, Georgia.
- 1993 Department of Molecular and Medical Genetics, University of Toronto, Toronto, Ontario, Canada.
- 1994 Department of Biochemistry and Molecular Biology, Texas Tech Health Sciences Center, Lubbock, Texas
- 1994 Fred Hutchinson Center for Cancer Research, Seattle, Washington.
- 1994 DNAX Research Institute for Molecular and Cell Biology, Palo Alto, CA.
- 1994 Tumor Biology Seminar Series, Stanford University School of Medicine, Stanford, CA.
- 1995 Department of Molecular and Cell Biology, University of California, Berkeley, CA.
- 1995 Sealy Center for Molecular Science, University of Texas Medical Branch, Galveston, TX.
- 1995 Department of Medicine, Louisiana State University Medical Center, Shreveport, LA.
- 1995 National Institute of Genetics, Mishima, Japan.
- 1995 Institute of Medical Sciences, University of Tokyo, Japan.

1995 Dana-Farber Cancer Institute, Boston, MA.
 1995 Division of Immunology, Department of Medicine, Cornell Medical Center, New York, NY.
 1996 Cancer Therapy and Research Center, San Antonio, Texas.
 1996 Department of Chemistry and Biochemistry, University of Texas, Austin, Texas.
 1996 Department of Biochemistry, School of Public Health, Johns Hopkins University, Baltimore, MD.
 1996 Laboratory of Molecular Embryology, NICHD, NIH, Bethesda, MD.
 1996 Department of Molecular Genetics, Biochemistry, and Microbiology, University of Cincinnati College of Medicine, Cincinnati, OH.
 1996 Department of Biochemistry, University of Pittsburgh School of Medicine, Pittsburgh, PA.
 1996 Eukaryotic Gene Expression Course, Cold Spring Harbor Laboratories, Cold Spring Harbor, NY.
 1996 Tumor Biology Seminar Series, Stanford University School of Medicine
 1997 ACCESS Seminar Series, University of California, Los Angeles
 1997 Department of Molecular Genetics, M. D. Anderson Center for Cancer Research, Houston, TX
 1997 Huntsman Cancer Institute, University of Utah, Salt Lake City, UT
 1997 Department of Pathology, University of Oklahoma Health Science Center, Oklahoma City, OK
 1997 Cleveland Clinic, Cleveland OH.
 1997 Banting and Best Institute, University of Toronto, Ontario, Canada
 1997 ASBMB-Amgen Award Lecture, San Francisco, CA.
 1997 Department of Medicine, Medical College of Georgia, Augusta, GA.
 1997 Department of Microbiology, University of Texas-Southwestern Medical Center, Dallas, TX.
 1997 Department of Biochemistry, Texas Tech University, Lubbock, TX.
 1997 Department of Biochemistry, University of Kansas Medical Center, Kansas City, Kansas.
 1998 Department of Biochemistry, Albert Einstein College of Medicine of Yeshiva University, Bronx, NY.
 1998 Department of Biochemistry and Molecular Biology, University of Oklahoma Health Science Center, Oklahoma City, OK.
 1998 Dana-Farber Cancer Institute, Boston, MA.
 1998 Department of Biochemistry, Duke University School of Medicine, Durham, NC.
 1999 Noble Foundation, Ardmore, OK.
 1999 Department of Biochemistry, Louisiana State University Medical Center, New Orleans, LA.
 1999 Department of Biochemistry, Michigan State University, East Lansing, MI.
 1999 Department of Biochemistry, Tufts University School of Medicine, Boston, MA
 1999 Department of Biological Sciences, Stanford University, Stanford, CA
 1999 Department of Biochemistry, Saint Louis University School of Medicine, Saint Louis, MO
 1999 Department of Tumor Cell Biology, St. Jude Children's Research Hospital, Memphis, TN
 2000 Department of Biochemistry, Oklahoma State University, Stillwater, OK
 2000 Dean's Distinguished Lecture and Department of Molecular and Cellular Physiology Seminar Series, University of Cincinnati School of Medicine, Cincinnati, OH
 2000 The Salk Institute for Biological Studies, San Diego, CA
 2000 Medical Scientist Lecture Series and Department of Biological Chemistry, University of California, Irvine, CA.
 2000 National Cancer Institute, Bethesda, MD
 2000 Stowers Institute for Medical Research, Kansas City, MO
 2001 Huntsman Cancer Institute, University of Utah, Salt Lake City, UT
 2001 Department of Biochemistry, Emory University School of Medicine, Atlanta, GA
 2001 Department of Biochemistry, New Jersey Medical School, Newark, NJ
 2001 Dean's Distinguished Lecturer, Medical College of Ohio, Toledo, OH

2001 Burroughs-Wellcome Visting Professorship Lecture, Department of Biochemistry, Saint Louis University School of Medicine, St. Louis, MO
 2001 Distinguished Lecturer, University of Buffalo, Buffalo, NY
 2001 Department of Biochemistry and Molecular Biology, University of Kansas Medical Center, Kansas City, KS
 2002 Ontario Cancer Institute, Toronto, Ontario, Canada
 2002 Institut de Recherches Cliniques de Montreal, Montreal, Quebec, Canada
 2002 Tumor Biology Seminar Series, Stanford University School of Medicine
 2002 Department of Biological Sciences, University of Missouri, Columbia, MO
 2003 Milton S. Hershey Medical Center College of Medicine, Hershey, PA
 2003 Cold Spring Harbor Laboratories, Cold Spring Harbor, NY
 2003 University of California, San Francisco, CA
 2003 Department of Molecular Biology, Princeton University, Princeton, NJ
 2003 Department of Biochemistry, Case Western Reserve University School of Medicine, Cleveland, OH
 2003 Graduate Program in Molecular, Cellular, and Developmental Biology, Ohio State University, Columbus, OH
 2004 Department of Biochemistry and Molecular Genetics, University of Illinois at Chicago, Chicago, IL
 2004 Department of Molecular Biosciences, University of Kansas, KS
 2004 Cancer Center, St. Louis University, St. Louis, MO.
 2005 Eppley Cancer Institute, Universty of Nebraska Medical Center, Omaha, NE
 2005 Biochemistry and Molecular Biology Seminar Series, Mayo Clinic College of Medicine, Rochester, MN
 2005 Pennington Biomedical Research Center, Baton Rouge, LA
 2005 University of North Carolina Lineberger Comprehensive Cancer Center, Chapel Hill, NC
 2005 Department of Biochemistry and Molecular Biology, University of Missouri, Columbia, MO
 2005 Department of Pharmacology, University of Michigan, Ann Arbor, MI
 2006 Department of Biochemistry, Dartmouth Medical School, Hanover, NH
 2006 Laboratory of Gene Regulation and Development, NICHD, NIH, Bethesda, MD
 2006 Department of Molecular Genetics and Cell Biology, University of Chicago, Chicago, IL
 2006 Department of Chemistry and Biochemistry, University of Colorado, Boulder, CO
 2006 Department of Biochemistry, Vanderbilt University, Nashville, TN
 2006 Frontiers in Biology Seminar Series, Biochemistry Department, Stanford University, Stanford, CA
 2006 Institute of Molecular Biology and Biotechnology, Foundation for Research and Technology, Iraklion, Crete.
 2007 Department of Biochemistry and Molecular Biology, University of Kentucky, Lexington, KY
 2007 Osaka University, Osaka, Japan
 2007 Tokyo Metropolitan Institute of Medical Science, Tokyo, Japan
 2008 Department of Biochemistry and Molecular Genetics, University of Virginia
 2008 Department of Chemistry and Biotechnology/Life Sciences Seminar, Beadle Center, University of Nebraska.
 2008 Department of Biochemistry and Molecular Biology, University of Oklahoma Health Sciences Center, Oklahoma City, OK.
 2009 Cancer Research UK, Clare Hall Laboratories, South Mimms, United Kingdom
 2009 NIH Transcription Factor Interest Group, National Insitutes of Health, Bethesda, MD.
 2010 Department of Structural Biology, University of Pittsburgh, Pittsburgh, PA

- 2010 Department of Biochemistry and Molecular Biology, Colorado State University, Fort Collins, CO.
- 2011 "Science at the Edge Seminar Series," Michigan State University, East Lansing, MI
- 2011 School of Biological Sciences, University of Missouri Kansas City, Kansas City, MO
- 2011 Department of Pharmacology, New York University, New York, NY
- 2011 Cancer Center, Massachusetts General Hospital, Charlestown, MA
- 2011 Department of Biochemistry & Molecular Biology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD
- 2012 Department of Biochemistry & Molecular Biology, Oklahoma State University, Stillwater, OK.
- 2013 Department of Biochemistry, Duke University School of Medicine, Durham, NC
- 2013 Tokyo Medical and Dental University, Tokyo, Japan
- 2013 Department of Developmental and Molecular Biology, Albert Einstein College of Medicine, Bronx, NY
- 2013 Department of Biochemistry, Emory University School of Medicine, Atlanta, GA
- 2015 Center for Cancer Research Eminent Lecture, National Cancer Institute, NIH, Bethesda, MD
- 2016 Celebration of Science, Texas Woman's University
- 2017 Danny Thomas Distinguished Lecture Series, St. Jude Children's Research Hospital
- 2018 IAS Distinguished Lecture, HKUST Jockey Club Institute for Advanced Study
- 2018 Department of Biochemistry and Molecular Genetics, University of Colorado School of Medicine – Anschutz Medical Center
- 2019 Lecturer, PhD Genetics Seminar Series, The University of Iowa Graduate College, Iowa City, Iowa
- 2019 Pathology Grand Rounds, Yale School of Medicine, New Haven, CT