BIOGRAPHICAL SKETCH

Provide the following information for the key personnel in the order listed for Form Page 2.

Photocopy this page or follow this format for each person.

NAME Mark Ptashne	POSITION TITLE Ludwig Chair of Molecular Biology at Sloan-Kettering Institute

B.A.	1961	Chemistry
Ph.D.	1968	Molecular Biology

RESEARCH AND PROFESSIONAL EXPERIENCE: Concluding with present position, list, in chronological order, previous employment, experience, and honors. Include present membership on any Federal Government public advisory committee. List, in chronological order, the titles, all authors, and complete references to all publications during the past three years and to representative earlier publications pertinent to this application. If the list of publications in the last three years exceeds two pages, select the most pertinent publications. **DO NOT EXCEED TWO PAGES.**

A. Positions Held:

1965-1968	Junior Fellow of Harvard Society of Fellows
1968-1971	Lecturer, Biochemistry and Molecular Biology, Harvard University
1971	Professor, Biochemistry and Molecular Biology, Harvard University
1980-1983	Chairman, Biochemistry and Molecular Biology, Harvard University
1980	Scientific Co-Founder of Genetics Institute with Tom Maniatis
1993	Appointed Herchel Smith Professor of Molecular Biology, Harvard University
1997	Ludwig Chair of Molecular Biology at Sloan-Kettering Institute

Honors:

1968	Ledlie Award of Harvard University (with W. Gilbert)
1973-1974	Guggenheim Fellow
1975	Harvey Lecturer, Columbia University, New York
1975	Eli Lilly Award in Biological Chemistry
1977	le Prix Charles-Leopold Mayer, l'Academie des Sciences, Paris, France
	(with W. Gilbert)
1979	US Steel Foundation Award in Molecular Biology
1985	Gairdner Foundation International Award (with C. Yanofsky)
1985	Louisa Gross Horwitz Prize of Columbia University (with D. Brown)
1988	Feodor Lynen Lecturer, Miami, Florida
1989	George Drummond Memorial Lecturer, Canada
1990	General Motors Cancer Research Foundation Sloan Prize
1993	Bertil Aberg Lecturer, Royal Swedish Academy, Stockholm
1997	Lasker Award for Basic Research

Honorary Societies

	Phi Beta Kappa
1977	Fellow, American Academy of Arts and Sciences
1977	Fellow, The New York Academy of Arts and Sciences
1979	Member, National Academy of Sciences

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- **B. Selected peer-reviewed publications (in chronological order).** Do not include publications submitted or in preparation
- 206) Floer, M. Bryant, G., Ptashne, M., (2008) HSP90/70 chaperones are required for rapid nucleosome removal upon induction of the GAL genes of yeast. PNAS Vol 105(8): 2975-80
- 205) Ptashne, M. (2008) Dispatches: "Transcription: A Mechanism for Short-Term Memory". Current Biology Vol. 18, No. 1 R25-R27.
- 204) Ptashne, M. (2007) My Word: "Repressors". Current Biology Vol. 17, No. 17 R740-R741
- 203) Ptashne, M. (2007) My Word: "Words". Current Biology Vol 17 No 14, R533-R535
- 202) Ptashne, M. (2007) My Word: "On Learning to Write". Current Biology Vol 17 No 11, R394-395
- 201) Ptashne, M. (2007) My Word: "On Speaking, Writing and Inspiration". Current Biology Vol 17 No 10, R348-349
- 200) Ptashne, M. (2007) Essay: "On the Use of the Word 'Epigenetic'". Current Biology Vol 17 No 7, R233-236
- 199) Ptashne, M. Forward to: From a to α Yeast as a Model for Cellular Differentiation (2007) by Hiten Madhani, Cold Spring Harbor, New York: Cold Spring Harbor Laboratory Press.
- 198) Ptashne, M. (2006) Lambda's Switch: Lessons from a Module Swap. Current Biology Vol. 16, No. 12 r459-r462
- 197) Ptashne, M. (2005) Regulation of transcription: from lambda to eukaryotes. Trends in Biochemical Sciences Vol. 30, No. 6 pgs 275-279.
- 196) Inspiring Science: Jim Watson and the Age of DNA (2003) Edited By John Inglis, Cold Spring Harbor, New York: Cold Spring Harbor Laboratory Press.
- 195) Ansari, A., Ogirala, A., and Ptashne M. (2005) Transcriptional activating regions target substrates to a cyclin-dependent kinase. PNAS USA 102, 2346-2349
- 194) Ptashne, M. (2004) A Genetic Switch (Third Edition) Phage Lambda Revisited. Cold Spring Harbor, New York: Cold Spring Harbor Laboratory Press.
- 193) Cheng, J., Gandolfi, M., and Ptashne, M. (2004) Activation of the Gal1 Gene of Yeast by Pairs of 'Non-Classical' Activators. Current Biology 14, 1675-1679.
- 192) Henri-Marc Bourbon, Andres Aguilera, Aseem Z. Ansari, Francisco J. Asturias, Arnold J. Berk, Stefan Bjorklund, T. Keith Blackwell, Tilman Borggrefe, Michael Carey, Marian Carlson, Joan W. Conaway, Ronald C. Conaway, Scott W. Emmons, Joseph D. Fondell, Leonard P. Freedman, Toshio Fukasawa, Claes M. Gustafsson, Min Han, Xi He, Paul K. Herman, Alan G. Hinnebusch, Steen Holmberg, Frank C. Holstege, Judith A. Jaehning, Young-Joon Kim, Laurent Kuras, Achim Leutz, John T. Lis, Michael Meisterernest, Anders M. Naar, Kim Nasmyth, Jeffrey D. Parvin, Mark Ptashne, Danny Reinberg, Hans Ronne, Ivan Sadowski, Hiroshi Sakurai, Matthias Sipiczki, Paul W. Sternberg, David J. Stillman, Randy Strich, Kevin Struhl, Jasper Q. Svejstrup, Simon Tuck, Fred Winston, Robert G. Roeder, and Roger D. Kornberg (2004)

A Unified Nomenclature for Protein Subunits of Mediator Complexes Linking Transcriptional Regulators to RNA Polymerase II

Molecular Cell 14: 553-557.

191) Ptashne, M. (2004) Two "What If" Experiments. Cell 116, S171-172

- 190) Bryant, G.O., and Ptashne, M. (2003) Independent Recruitment In Vivo by Gal4 of Two Complexes Required for Transcription. Molecular Cell 11, 1301-1309
- 189) Ptashne, M. Regulated recruitment and cooperativity in the design of biological regulatory systems. Phil. Trans. R. Soc. Lond. A. (2003) 361, 1223-1234
- 188) Saha, S., Ansari, A., Jarell, K., and Ptashne, M. (2003) RNA sequences that work as transcriptional activating regions. Nucleic Acids Research 31, 1565-1570
- 187) Ptashne, M. and Gann A. (2003) Signal transduction. Imposing specificity on kinases. Science 299, 1025-1027
- 186) Ptashne, M. and Gann, A. (2002) Imposing specificity by localization: Mechanism and evolvability. Evolution as Computation (DIMACS Workshop), Landweber, L. and Winfree, W. (eds) 179-200, Springer.
- 185) Ptashne, M., Brent, R., and Gill, G. Modularity of Eukaryotic Transcription Activators Great Experiments (2002) http://www.ergito.com/main.jsp?book_abbrev=gtexpts&chap_aso=2&xect_aso=3
- 184) Cheng, J., Floer, M., Ononaji, P., Bryant, G., and Ptashne, M. (2002) Responses of four yeast genes to changes in the transcriptional machinery are determined by their promoters. Curr. Biol. 12, 1828-1832
- 183) Ansari, A., Koh, S., Zaman, Z., Bongards, C., Lehming, N., Young, R., and Ptashne, M. (2002) Transcriptional activating regions target a cyclin-dependent kinase. PNAS USA 99, 14706-14709
- 182) Arora, P., Ansari, A., Best, T., Ptashne, M. and Dervan, P. (2002) Design of artificial transcriptional activators with rigid Poly-L-proline Linkers. J. Am. Chem. Soc. 124, 13067-13071
- 181) Lu, Z., Ansari, A., Lu, X., Ogirala, A. and Ptashne, M. (2002) A target essential for the activity of a nonacidic yeast transcriptional activator. PNAS USA 99, 8591-8596
- 180) Cheng, X., Nevado, J., Lu, Z., and Ptashne, M. (2002) The TBP-inhibitory Domain of TAF145 limits the effects of nonclassical transcriptional activators. Current Biology 12, 934-937
- 179) Zaman, Z., Heid, C., and Ptashne, M. (2002) Telomere looping permits repression "at a distance" in yeast. Current Biology 12, 930-933
- 178) Ptashne, M and Gann, A. (2002) Genes and Signals. Cold Spring Harbor, New York: Cold Spring Harbor Laboratory Press.

C. Research Support:

Ongoing Research Support

5 R01 GM032308-24A1(PI) 4/01/06-3/31/10

NIH

Eukaryotic Gene Regulation As Studied In Yeast

The goal of this grant is to study Eukaryotic Gene Regulation in Yeast.

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