

CURRICULUM VITAE

Name: Edward M. De Robertis

Date and Place of Birth: June 6, 1947, Boston, Massachusetts

Nationality: U.S. Citizen

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University of California
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Graduate Degrees:

Doctor in Medicine: School of Medicine, University of Uruguay, 1971

Ph.D. in Chemistry: Faculty of Sciences, Instituto Leloir, Buenos Aires, Argentina, 1974.

Positions Held

- Royal Society postdoctoral fellow, 1975. (Sir John Gurdon, supervisor).
- Jane Coffin Childs Memorial Fund postdoctoral fellow, 1976-1977 (Sir John Gurdon, supervisor).
- Staff Scientist, Medical Research Council, Laboratory of Molecular Biology, Cambridge, England (1978-1980).
- Professor of Cell Biology (Ordinarius), Biocenter, University of Basel, Switzerland (1980-1985).
- Howard Hughes Medical Institute Investigator, University of California, Los Angeles (1994-2019).
- Professor of Biological Chemistry and Norman Sprague Jr. Chair, University of California, Los Angeles (1985-present).

Honors

- Gold Medal to the top student in 1971, School of Medicine, Uruguay.
- Elected Member, European Molecular Biology Organization, 1982.
- Norman Sprague Endowed Chair for Biological Chemistry, UCLA School of Medicine, 1985-present.
- Konex Foundation Award. Buenos Aires, Argentina, 1993.
- Public lecture series and Medal of the Collège de France, Paris, 1997.
- MERIT Award, National Institutes of Health, 1997.
- Fellow, American Academy of Arts and Sciences, 2000.
- Corresponding Member, Latin American Academy of Sciences, ACAL, 2002.
- Membre D'Honneur, Société de Biologie, Paris, France, 2008.
- Ross Harrison Prize in Developmental Biology, 2009.

- Academician, Pontifical Academy of Sciences, the Vatican, 2009.
- Doctor *Honoris Causa*, Universités Sorbonne, Université Pierre et Marie Curie, Paris, France, 2013.
- Member, National Academy of Sciences, 2013.
- Doctor *Honoris Causa*, Universidad de la República del Uruguay, 2016.
- Honorary Associate Investigator Instituto de Investigaciones Biológicas Clemente Estable, Montevideo, Uruguay, 2017.
- Corresponding Member, Academia Nacional de Ciencias de Buenos Aires, 2019.
- Corresponding Member, Academia Nacional de Ciencias del Uruguay, 2019.
- Alexander Kowalevsky Medal in Evolutionary Developmental Biology, 2020
- Lifetime Achievement Award, Society for Developmental Biology, 2021
- Honorary Member, SDB Academy, 2023
- Latin American Society of Developmental Biology Prize, Chile, 2024
- Academia Nacional de Medicina del Uruguay, Miembro de Honor, 2026

Society Memberships

- Society for Developmental Biology (USA)
- Swiss Society of Cell and Molecular Biology
- Latin American Society of Developmental Biology

Editorial Boards

International Journal of Developmental Biology	1989 - present
Development, Growth & Differentiation	2000 - present
Developmental Dynamics	2003 - present
Natural Sciences	2021 - present
Differentiation	2000 - 2021
Open Biology, Royal Society Publishing	2011 - 2016
Mechanisms of Development	1991 - 2016
Experimental Cell Research	1984 - 1992
Genes and Development	1987 - 1994
The EMBO Journal	1991 - 1993
European Journal of Cell Biology	1991 - 1994
Oxford Surveys on Eukaryotic Genes	1988 - 1991
Journal of Developmental Neuroscience	1988 - 1991
Journal of Cellular Biochemistry	1990 - 2002
Developmental Biology	1994 - 2007

Service

- Organizer, Symposium on Molecular Analysis of Developmental Regulatory Genes. 5th International Congress on Cell Biology. Madrid, Spain, 1992.
- Organizer, Symposium on Molecular Biology of Embryonic Development, Santiago, Chile, 1995.
- Organizer, Workshop on “Molecular Nature of the Gastrula Organizer Centre: 75 years after Spemann and Mangold”. Fundación Juan March, Spain, 1999.
- Organizer, with S. Aizawa, Head Development Meeting, Osaka, Japan, 1999.

- Organizer, with D. Duboule, Colloquium on “Evolution of Animal Body Plans”, Les Treilles, France, Sept. 2002.
- American Cancer Society, California Division, Fellowship Committee, 1987-1990.
- Quinquennial Review for ICRF Developmental Biology Unit, 1991.
- Scientific Review Committee, HFSP, Strasbourg, France, 1993.
- NIH Study Section on Cell Biology, 1993-1995.
- Review Committee, Wellcome Trust Institute of Developmental Biology, Cambridge, England, 2000.
- Review Committee, Latin American and Canadian Scholars Competition, Howard Hughes Medical Institute, 2001.
- President of ISDB, International Society for Developmental Biology (2002-2006).
- Organizer, Cell Biology and Genetics Workshop, encounter of the Pontifical Academy of Sciences and the Academia de Ciencias de América Latina, the Vatican, 2017.
- UCLA Early Career Nomination Committee, College of Letters and Sciences, 2017.
- Medical School Redesign Committee, 2018.
- Chair, Honors Committee, David Geffen School of Medicine 2017- 2021.
- Co-organizer (with Wolfgang Driever and Roberto Mayor), Self-Organization in Biology Spemann-Mangold Centennial Symposium, University of Freiburg, 2024.
- Co-organizer, Evolution and Development Workshop (with Alejandro Sanchez Alvarado), Pontifical Academy of Sciences, the Vatican, September 2026.

Advisory Boards:

- Board of Scientific Counselors, National Institute of Child Health and Human Development, 1995-2000.
- Advisory Board, Fundación Campomar, Buenos Aires, Argentina, 1987-2005.
- Advisory Board of Santiago (Chile) Southern Symposia Series, 1991-1998.
- Advisory Board, CNRS Inst. d'Embryologie, Nogent-sur-Marne, France 1995-1999.
- US Advisory Committee of the National Research Council and Academy of Sciences/Mexican Academy exchange program (1997-2001).
- Advisory Board, Millennium Institute for Advanced Studies in Cell and Biotechnology, Santiago, Chile, 1999-2003.
- Advisory Board, Schlumberger Foundation Scholars Program. Paris, 1999-2005.
- Board Member, Latin American Society of Developmental Biologists (LASDB), 2004-present.
- Scientific Advisory Board, Pew Charitable Trusts, Latin American Fellows program, 1990-present.
- Scientific Council, Academia de Ciencias de América Latina, 2014-present.
- Scientific Council, Pontifical Academy of Sciences, 2022-present.

Community Leadership

Several initiatives with the goal of promoting Developmental Biology in smaller countries that lack their own National Societies were initiated by ISDB under my presidency (2002-2006):

- Latin American Society of Developmental Biologists.
- Asian Pacific Developmental Biology Network.
- Joint scientific meetings were held between the International SDB and the American SDB (Boston, 2003) and British SDB (Warwick, 2004).

- The International Congress of ISDB organized at Darling Harbor, Sydney, Australia, in September 2005 during my watch.
- Keynote address, Society for the Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS) 2016 graduation, UCLA.

Special Lectures

- Keynote Lecture, 1992 Symposium of the British Society for Developmental Biology.
- Public lectures at the Collège de France, Paris, January 1993.
- Lucille P. Markey Lecture. Harvard Medical School, 1993.
- Inaugural Lecture, Zoology and Comparative Anatomy Society of Italy, San Benedetto del Tronto, Italy, Sept. 1993.
- Keynote Lecture, Meeting on “Molecular Genetics of Development”, Airlie House, Virginia, 1998.
- Inaugural Lecture, Ibero-American Congress on Cell Biology, Montevideo, Uruguay, 1998.
- Distinguished Lecturer, Samuel Lunenfeld Research Institute, Toronto, Feb. 1999.
- Distinguished Visitor Lecture, EMBL, Heidelberg, June 1999.
- Director’s Lecture, N.I.H., June 1999.
- Keynote Lecture in honor of Sir John Gurdon, *Xenopus* Conference 2000.
- Keynote Lecture, Organizer Workshop, EMBL, Heidelberg, 2001.
- R. G. Williams Lecture, University of Pennsylvania, 2001.
- Distinguished Lecturer, University of Virginia, 2001.
- Keynote Lecture, Latin American Society of Developmental Biology, Valle Nevado, Chile, 2003.
- Keynote Lecture, Finnish Society of Developmental, Helsinki, 2003.
- The BSDB Lecture, British Soc. Dev. Biol., Warwick, UK, 2004.
- William J. Larsen Lecture, University of Cincinnati, 2004.
- 24th Annual Viktor Hamburger Lecture, Washington University in St. Louis, 2004.
- Science Faculty Research Colloquium Lecture Series. UCLA, 2005.
- Keynote Lecture, TGF- β in Homeostasis and Disease, Keystone Symposia, Santa Fe, New Mexico, 2008.
- “Masters” Lecture, 41st Annual Meeting for the Japanese Society of Developmental Biologists, Tokushima, Japan, 2008.
- Keynote Lecture, 12th International *Xenopus* Conference, Leiwen/Trier, Mosel, Germany, 2008.
- Research lecture at the Nobel Forum, Karolinska Institute. By invitation of the Nobel secretariat, 2009.
- Keynote lecture, International Workshop “The Evolution of Multicellularity: Insights from Hydra and other Basal Metazoans”, Tutzing, Germany, 2009.
- President’s Lecture, Rockefeller University, 2009.
- Keynote Lecture, Developmental Biology Training Grant Retreat, Deer Valley Resort, Silver Lake Lodge organized by the University of Utah, School of Medicine, 2010.
- Keynote Lecture, Vanderbilt University Program in Developmental Biology Retreat, Joe Wheeler State Park, Alabama, 2010.
- Theodor Boveri Lecture, University of Würzburg, Germany, May 2011.
- Marshall R. Urist Lecture, Lake Tahoe, 2012.

- *Honoris Causa* Lecture. Université Pierre et Marie Curie, Paris, 2013.
- *Dies Academicus* Keynote Lecture, Irapuato, Mexico, 2015
- Federico Leighton Lecture, Pontificia Universidad Católica de Chile, 2015.
- *Honoris Causa* Lecture, Universidad de la República del Uruguay, 2016.
- 121st UCLA Faculty Lecture, 2016.
- 50th Anniversary Lecture of the Japanese Society of Developmental Biology, 2017.
- Lecture celebrating the 90th anniversary of Instituto Clemente Estable, Montevideo, Uruguay, 2017.
- Inaugural Lecture, Academia de Buenos Aires, Argentina, 2019.
- Inaugural Lecture, Academia de Montevideo, Uruguay, 2019.
- Alexander Mauro Lecture, FASEB Research Conference on Muscle Stem Cells, 2022.
- Keynote Lecture, LASDB Meeting, Valparaíso, Chile, 2024.

U. S. Patents

- DNA Molecules Encoding Human Chordin. Patent #: 5,846,770. Awarded: 11/16/1999.
- DNA Molecules Encoding Mammalian Cerberus-like Proteins. Patent #: 5,935,852. Awarded: 08/10/1999.
- Chordin Compositions (with Edward R. La Salle and Lisa A. Racle). Patent #: 5,986,056. Awarded: 11/16/1999.
- Endoderm, Cardiac and Neural Inducing Factors (with Dr. Antonius Bouwmeester). Patent #: 6,133,232. Awarded: 10/17/2000.
- DNA Encoding a Tissue Differentiation Affecting Factor. (with Dr. Yoshiki Sasai). Patent #: 5,679,783. Awarded: 10/21/1997.

ADDITIONAL ONLINE INFORMATION

A Questions and Answers interview for Current Biology can be found at
<http://www.hhmi.ucla.edu/derobertis/Q&A.html>

A Profile of Edward M. De Robertis by journalist Jennifer Viegas for PNAS can be found at
<http://www.pnas.org/content/110/51/20349.full.pdf>

Pontifical Academy of Sciences website:
<http://www.casinapioiv.va/content/accademia/en/academicians/ordinary/derobertis.html>

Cuentos de Juventud, Evolución y Desarrollo. 2015. Autobiographical keynote lecture (in Spanish) at *Dies Académicus*, Langebio, Irapuato, Mexico.
<https://www.youtube.com/watch?v=mXSX8XrOGBs>

Interview by Christof Niehrs 2021
<http://www.ijdb.ehu.es/web/paper/190298cn/lessons-from-the-organizer-an-interview-with-edward-eddy-m-de-robertis>

Lifetime Achievement Award Lecture – Society for Developmental Biology 2021
<https://www.youtube.com/watch?v=qUYqls5RiLA>

Celebrating Spemann Mangold at 100: an interview with Eddy De Robertis by John Williamson 2024 *Cells & Development*, 178, 203917.
<https://doi.org/10.1016/j.cdev.2023.203828>

List of Publications

1. Narbaitz, R. and De Robertis, E.M. (1968). Postnatal Evolution of Steroidogenic Cells in the Chick Ovary. *Histochemie* 15, 187-193.
2. Narbaitz, R. and De Robertis, E.M. (1970). Steroid producing Cells in Chick Intersexual Gonads. *J. General and Comparative Endocrinol.* 14, 164-169.
3. De Robertis, E.M., Ezcurra, P., Judewicz, N., Pucci, P. and Torres, H.N. (1972). Inhibition of *E. coli* RNA Polymerase by Polyadenylic Acid. *FEBS Letters* 25, 175-178.
4. Judewicz, N.D., De Robertis, E.M. and Torres, H.N. (1973). Inhibition of *Escherichia coli* Growth by Cyclic Adenosine 3', 5'-Monophosphate. *Biochem. Biophys. Res. Commun.* 52, 758-764.
5. De Robertis, E.M., Judewicz, N.D. and Torres, H.N. (1973). On the Control Mechanism of Bacterial Growth by Cyclic Adenosine 3', 5'-Monophosphate. *Biochem. Biophys. Res. Commun.* 55, 758-764.
6. Judewicz, N.D., De Robertis, E.M., and Torres, H.N. (1974). Control of Uracil Transport by Cyclic AMP in *E. coli*. *FEBS Letters* 45, 155-158.
7. De Robertis, E.M. (1974). Regulación de la Multiplicación Celular en *Escherichia coli* por el AMP cíclico. DOCTORAL THESIS. Facultad de Ciencias Exactas y Naturales, Universidad de Buenos Aires.
8. De Robertis, E.M., Judewicz, N.D. and Torres, H.N. (1976). Regulation of Uracil uptake in *Escherichia coli* by Adenosine 3', 5'-Monophosphate. *Biochem. Biophys. Acta* 426, 451-463.
9. Gurdon, J.B., De Robertis, E.M. and Partington, G. (1976). Injected nuclei in frog oocytes provide a living cell system for the study of transcriptional control. *Nature* 260, 116-120.
10. Gurdon, J.B., Partington, G. and De Robertis, E.M. (1976). Injected nuclei in frog oocytes: RNA synthesis and protein exchange. *J. Embryol. Exp. Morph.* 36, 541-553.
11. Wyllie, A.H. and De Robertis, E.M. (1976). High Tyrosinase activity in albino *Xenopus laevis* oocytes. *J. Embryol. Exp. Morph.* 36, 555-559.
12. De Robertis, E.M., Gurdon, J.B., Partington, G.A., Mertz, J.E. and Laskey, R.A. (1977). Injected Amphibian oocytes: A Living Test Tube for the study of Eukaryotic Gene Transcription? *Biochem. Soc. Symp.* (London) 42, 181-191.

13. Gurdon, J.B., De Robertis, E.M., Partington, G.A., Mertz, J.E. and Laskey, R.A. (1977). Nucleocytoplasmic interactions in amphibian oocytes. p 439-443. In: B.R. Brinkley and K.R. Porter (Eds.) International Cell Biology 1976-77. New York, The Rockefeller University Press.
14. De Robertis, E.M., Partington, G.A., Longthorne, R. and Gurdon, J.B. (1977). Somatic nuclei in amphibian oocytes: evidence for selective gene expression. *J. Embryol. Exp. Morph.* 40, 199-214.
15. De Robertis, E.M. and Gurdon, J.B. (1977). Gene Activation in somatic nuclei after injection into amphibian oocytes. *Proc. Natl. Acad. Sci. USA* 74, 2470-2474.
16. Gurdon, J.B., De Robertis, E.M., Laskey, R.A., Partington, G.A. and Wyllie, A.D. (1977). Cytoplasmic Control of Gene Expression in Oogenesis. pp. 413-418. In: "Cell Differentiation and Neoplasia", G.F. Saunders (Ed.) Raven Press.
17. De Robertis, E.M. and Mertz, J.E. (1977). Coupled Transcription - Translation of DNA injected into *Xenopus* oocytes. *Cell* 12, 175-182.
18. Laskey, R.A., Honda, B., Mills, A.D., Morris, N.R., Wyllie, A.H., Mertz, J.E., De Robertis, E.M. and Gurdon, J.B. (1977). Chromatin Assembly and Transcription in Eggs and Oocytes of *Xenopus laevis*. Cold Spring Harbor Symp. Quant. Biol. 42, 171-178.
19. De Robertis, E.M., Laskey, R.A. and Gurdon, J.B. (1977). Injected living cells as a biochemical test tube. *Trends in Biochem. Sci.* 2, 250-253.
20. De Robertis, E.M., Longthorne, R.F. and Gurdon, J.B. (1978). Intracellular migration of nuclear proteins in *Xenopus* oocytes. *Nature* 272, 254-256.
21. Gurdon, J.B., Wyllie, A.H. and De Robertis, E.M. (1978). The transcription and translation of DNA injected into oocytes. *Phil. Trans. R. Soc. Lond. B.* 283, 367-372.
22. De Robertis, E.M., Partington, G.A. and Gurdon, J.B. (1978). Selective gene expression by somatic nuclei injected into amphibian oocytes. *Phil. Trans. R. Soc. Lond. B.* 283, 375-377.
23. Gurdon, J.B., De Robertis, E.M., Laskey, R.A. and Wyllie, H., (1978). Nuclear transplantation and gene injection in the analysis of amphibian development. *Miami Winter Symposia* 15, 457-466.
24. De Robertis, E.M. (1979). Probing the program of gene expression utilized in early development. *Arch. Med. Biol. Exp.* 12, 325-330.

25. Gurdon, J.B., Melton, D.A. and De Robertis, E.M. (1979). Genetics in an oocyte. Human Genetics: possibilities and realities. Ciba-Foundation Symposium series 66, 63-80.
26. Gurdon, J.B. and De Robertis, E.M. (1979). Oocytes and the beginning of development in Amphibia. Differentiation 13, 19-20.
27. De Robertis, E.M. and Black, P. (1979). Hybrids of *Xenopus laevis* and *Xenopus borealis* express proteins from both parents. Dev. Biol. 68, 334-339.
28. Melton, D.A., Cortese, R., De Robertis, E.M., Trendelenburg, M.F. and Gurdon, J.B. (1979). Gene injections into amphibian oocytes. Results and Problems in Cell Differentiation 11, 8-14.
29. Gurdon, J.B., Laskey, R.A., De Robertis, E.M. and Partington, G.A. (1979). Reprogramming of transplanted nuclei in Amphibia. Int. Rev. of Cytol. Supplement 9, 161-178.
30. De Robertis, E.M. and Olson, M.V. (1979). Transcription and processing of cloned yeast tyrosine tRNA genes microinjected into frog oocytes. Nature 278, 137-143.
31. De Robertis, E.M. and Gurdon, J.B. (1979). Gene transplantation and the analysis of development. Scientific American 241, 74-82.
32. Mills, A.D., Laskey, R.A., Black, P. and De Robertis, E.M., (1980). An acidic protein which assembles nucleosomes *in vitro* is the most abundant protein in *Xenopus* oocyte nuclei. J. Mol. Biol. 139, 561-568.
33. Melton, D.A., De Robertis, E.M. and Cortese, R. (1980). RNA processing: order and intracellular location of the events involved in the maturation of a spliced tRNA. Nature 284, 143-148.
34. De Robertis, E.M. and Black, P. (1981). Frog oocyte nuclear proteins and the analysis of developmental determinants. In Symposium "Progress in Developmental Biology", H.W. Sauer, Ed., Gustav Fischer Verlag, Stuttgart, vol. 26, pp. 49-58.
35. Nishikura, K. and De Robertis, E.M. (1981). RNA processing in microinjected *Xenopus* oocytes: Sequential base modifications in a spliced transfer RNA. J. Mol. Biol. 145, 405-420.
36. De Robertis, E.M. and Nishikura, K. (1981). RNA processing in frog oocytes microinjected with cloned genes. In: Cell Biology 1980, H.G. Schweiger, Ed., Springer Verlag Heidelberg, pp 60-65.
37. De Robertis, E.M., Black, P. and Nishikura, K. (1981). Intranuclear location of the tRNA splicing enzymes. Cell 23, 89-94.

38. Nishikura, K. and De Robertis, E.M. (1981). Processing of yeast tRNA tyr genes in *Xenopus* oocytes microinjected with cloned genes. ICN-UCLA Symposia series, D.D. Brown, Ed., Dev. Biol. Using purified genes, 483-492.
39. Nishikura, K., Kurjan, J., Hall, B.D. and De Robertis, E.M. (1982). Genetic analysis of the processing of a spliced tRNA. EMBO J. 1, 263-268.
40. De Robertis, E.M., Lienhard, S. and Parisot, R.F. (1982). Intracellular transport of microinjected 5S and small nuclear RNAs. Nature 295, 572-577.
41. Matter, L., Schopfer, K., Wilhelm, J.A., Nyffenegger, T., Parisot, R.F. and De Robertis, E.M. (1982). Molecular characterization of ribonucleoprotein antigens bound by antinuclear antibodies; a diagnostic evaluation. Arthritis and Rheumatism 25, 1278-1283.
42. Zeller, R., Nyffenegger, T. and De Robertis, E.M. (1983). Nucleocytoplasmic distribution of snRNPs and stockpiled snRNA-binding proteins during oogenesis and early development in *Xenopus laevis*. Cell 32, 425-434.
43. De Robertis, E.M., Zeller, R., Carrasco, A. and Mattaj, I. (1983). Nucleocytoplasmic transport of macromolecules in frog oocytes and embryos. Symp. of BSDB, Current problems of germ cells, A. McLaren and C. Wylie, Eds. Cambridge University Press 377-390.
44. De Robertis, E.M. (1983). Nucleocytoplasmic segregation of proteins and RNAs. Cell 32, 1022-1026.
45. Gafner, J., De Robertis, E.M. and Philippsen, P. (1983). Delta sequences in the 5' non-coding region of yeast tRNA genes. EMBO J. 2, 583-591.
46. Bartnik, E. and De Robertis, E.M. (1983). Mitochondrial tRNA genes from fungi (*Aspergillus nidulans*) and plants (*Lipinus luteus*) are transcribed in *Xenopus laevis* oocyte nuclei. J. Mol. Biol. 168, 439-444.
47. Mattaj, I., Lienhard, S., Zeller, R. and De Robertis, E.M. (1983). Nuclear exclusion of TFIIIA and the 42S particle tRNA binding protein in *Xenopus* oocytes: a possible mechanism for gene control? J. Cell Biol. 97, 1261-1265.
48. Zeller, R., Carri, M.T., Mattaj, I.W. and De Robertis, E.M. (1984). *Xenopus laevis* U1 snRNA genes: characterization of transcriptionally active genes reveals major and minor repeated gene families. EMBO J. 3, 1075-1081.
49. Fritz, A., Parisot, R., Newmeyer, D. and De Robertis, E.M. (1984). Small nuclear U-RNPs in *Xenopus laevis* development: uncoupled accumulation of the protein and RNA components. J. Mol. Biol. 178, 273-285.

50. Carrasco, A.E., McGinnis, W., Gehring, W.J. and De Robertis, E.M. (1984). Cloning of a *Xenopus laevis* gene expressed during early embryogenesis that codes for a peptide region homologous to *Drosophila* homeotic genes: implications for vertebrate development. *Cell* 37, 409-414.
51. Shepherd, J.C.W., McGinnis, W., Carrasco, A.E., De Robertis, E.M. and Gehring, W.J. (1984). Fly and frog homeo domains show homologies with yeast mating type regulatory proteins. *Nature* 310, 70-71.
52. Muller, M., Carrasco, A.E. and De Robertis, E.M., (1984). Isolation of a maternally expressed *Xenopus* homeotic-like gene. *Cell* 39, 157-162.
53. Mattaj, I.W. and De Robertis, E.M. (1985). Nuclear segregation of U2 snRNA requires binding of specific snRNP proteins. *Cell* 40, 111-118.
54. Mattaj, I.W., Zeller, R., Carrasco, A.E., Jamrich, M., Lienhard, S. and De Robertis, E.M. (1985). U snRNA Gene Families in *Xenopus laevis*. *Oxford Surveys on Eukaryotic Genes*, Vol. 2, 121-140.
55. Mattaj, I.W., Lienhard, S., Jiricny, J. and De Robertis, E.M. (1985). An enhancer-like sequence within the *Xenopus* U2 gene promoter facilitates the formation of stable transcription complexes. *Nature* 316, 163-167.
56. De Robertis, E.M., Fritz, A., Goetz, J., Martin, G., Mattaj, I.W., Salo, E., Smith, G.D., Wright, C. and Zeller, R. (1985). The *Xenopus* homeoboxes. *Cold Spring Harbor Symp. of Quant. Biol.* 50, 271-275.

Arrival to UCLA

57. Newmeyer, D.D., Lucocq, J.M., Bürglin T.R. and De Robertis, E.M. (1986). Assembly *in vitro* of nuclei active in nuclear protein transport ATP: is required for nucleoplasmin accumulation. *EMBO J.* 5, 501-510.
58. Bürglin, T.R., Mattaj, I.W., Newmeyer, D., Zeller, R. and De Robertis, E.M. (1987). Cloning of nucleoplasmin from *Xenopus laevis* oocytes and analysis of its developmental expression. *Genes Dev.* 1, 97-107.
59. Bürglin, T. and De Robertis, E.M. (1987). The nuclear migration signal of nucleoplasmin. *EMBO J.* 6, 2617-2625.
60. Sharpe, C.R., Fritz, A., De Robertis, E.M. and Gurdon, J.B. (1987). A homeobox-containing marker of posterior neural differentiation shows the importance of predetermination in neural induction. *Cell* 50, 749-758.

61. Mattaj, I., Coppard, N., Brown, R.S., Clark, B.F.C. and De Robertis, E.M. (1987). 42S p48 - the most abundant protein in previtellogenic *Xenopus* oocytes - resembles elongation factor 1 α structurally and functionally. *EMBO J.* 6, 2409-2413.
62. Wright, C.V.E., Cho, K.Y., Fritz, A., Bürglin, T.R. and De Robertis, E.M. (1987). A *Xenopus laevis* gene encodes both homeobox-containing and homeobox-less transcripts. *EMBO J.* 6, 4083-4094.
63. Bürglin, T., Wright, C.V.E. and De Robertis, E.M. (1987). Translational control in homeobox mRNAs? *Nature* 330, 701-702.
64. Fritz, A. and De Robertis, E.M. (1988). *Xenopus laevis* homeobox-containing cDNAs expressed during early development. *Nucleic Acids Res.* 16, 1453-1469.
65. Cho, K.W.Y., Goetz, J., Wright, C.V.E., Fritz, A., Hardwicke, J. and De Robertis, E.M. (1988). Differential utilization of the same reading frame in a *Xenopus* homeobox gene encodes two related proteins sharing the same DNA-binding specificity. *EMBO J.* 7, 2139-2149.
66. Oliver, G., Wright, C.V.E., Hardwicke, J. and De Robertis, E.M. (1988). Differential antero-posterior expression of two proteins encoded by a homeobox gene in *Xenopus* and mouse embryos. *EMBO J.* 7, 3199-3209.
67. De Robertis, E.M., Bürglin, T.R., Fritz, A., Wright, C.V.E., Jegalian, B., Schnegelsberg, P., Bittner, D., Morita, E., Oliver, G. and Cho, K.W.Y. (1988). Families of vertebrate homeodomain proteins. In: *DNA Protein interactions in Transcription*. J. Gralla, Ed. *UCLA Symposia* 95, 107-115.
68. Fritz, A.F., Martin, G., Wright, C.V.E. and De Robertis, E.M. (1988). Site-specific inversions in repeated *Xenopus laevis* homeobox gene 2 sequences. *Nucleic Acids Res.* 16, 9058.
69. De Robertis, E.M., Bürglin, T.R., Fritz, A., Oliver, G., Cho, K. and Wright, C.V.E. (1988). Sequence conservations in vertebrate homeobox mRNAs. *Arch Biol. Med. Exp.* 21, 443-447.
70. Oliver, G., Wright, C.V.E., Hardwicke, J. and De Robertis, E.M. (1988). A gradient of homeodomain protein in developing forelimbs of *Xenopus* and mouse embryos. *Cell* 55, 1017-1024.
71. Fritz, A.F., Cho, K.W.Y., Wright, C.V.E., Jegalian, B.G., and De Robertis, E.M. (1989). Duplicated Homeobox Genes in *Xenopus*. *Dev. Biol.* 131, 584-588.
72. Wright, C.V.E., Schnegelsberg, P., and De Robertis, E.M. (1988). XHbox 8: A novel *Xenopus* homeo protein restricted to a narrow band of endoderm. *Development* 104, 787-794.

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