

Prof. Dr. Christiane Nüsslein-Volhard

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Name: Christiane Nüsslein-Volhard

Date of Birth: October 20, 1942

Place of Birth: Magdeburg

Address: Max Planck Institute for Developmental Biology, Genetics Department, Spemannstraße 35, 72076 Tübingen

Education

1962-1964 Studied Biology, Physics, and Chemistry, University of Frankfurt/Main

1964-1968 Studied Biochemistry, University of Tübingen

1968 Diploma in Biochemistry

1969-1974 Diploma and Doctoral Dissertation, Max Planck Institute for Virus Research, Department for Biochemistry (Laboratory of Dr. Schaller), Tübingen

1973 Doctorate in Biology (Genetics), University of Tübingen

Vocational Experience

1972-1974 Scientific Assistant, Max Planck Institute for Virus Research, Tübingen

1975-1976 EMBO Long-Term Fellowship (Laboratory of Prof. Dr. Walter Gehring), Biozentrum, University of Basel, Switzerland

1977 Research Scholarship of the German Research Foundation (Laboratory of Prof. Dr. Klaus Sander, Institute of Biology I, Zoology), University of Freiburg

1978-1980 Freelance Research Position, European Laboratory for Molecular Biology, Heidelberg

1981-1985 Head of a Freelance Working Group, Friedrich Miescher Laboratory of the Max Planck Society, Tübingen

since April 1985 Scientific Member of Max Planck Society, and Principal at Max Planck Institute for Developmental Biology, Tübingen

Awards and Honors

1986 Leibniz Prize of the German Research Foundation

- Franz Vogt Prize of the University of Gießen

1988 Brooks Lecturer, Harvard Medical School

1989 Carus Medal of the German Academy of Sciences Leopoldina, Halle

- Carus Prize of the City of Schweinfurt

- Honorary Professor, University of Tübingen

- Silliman Lecturer, Yale University

1990 Rosenstiel Medal, Brandeis University

- Sc. D., Yale University

- Mattia Award, Roche Institute, New Jersey

1991 Dr. h.c., Utrecht University

- Dr. h.c., Princeton University

- Dunham Lecturer, Harvard Medical School

- Harvey Lecturer, Rockefeller University

- Albert Lasker Medical Research Award, New York

1992 Prix Louis Jeantet de Médecine, Geneva

- Alfred P. Sloan Jr. Prize, General Motors Cancer Research Foundation

- Dr. Otto Bayer Prize, Leverkusen

- Otto Warburg Medal of the Foundation of Biological Chemistry, Rostock

- Louisa Gross Horwitz Prize, Columbia University

- Gregor Mendel Medal of the Genetical Society, England

1993 Dr. h.c., University of Freiburg

- Ernst Schering Prize, Ernst Schering Research Foundation, Germany

- Dr. h.c., Harvard University

- Sir Hans Krebs Medal of the FEBS

- Theodor Boveri Prize of the Physico-Medica-Foundation of the University of Würzburg

- Bertner Award, Anderson Cancer Research Center, Houston

1994 Distinguished Service Medal (1st class) of the Order of Merit of the Federal Republic of Germany

1995 Nobel Prize for Medicine and Physiology together with Edward B. Lewis (California Institute of Technology) and Eric Wieschaus (Princeton University)

- Goethe Medal of the City of Frankfurt/Main

1996 Great Distinguished Service Cross of the Order of Merit of the Federal Republic of Germany

1997 Pour le Mérite

- Dr. h.c., University of Munich (LMU)

Academy Memberships

- European Molecular Biology Organization
- German Society for Developmental Biology
- Academia Europaea
- Heidelberg Academy of Sciences
- Rhenish-Westphalian Academy of Sciences
- National Academy of Sciences, Washington, D.C.
- Royal Society, London
- German Academy of Sciences Leopoldina
- American Academy of Art and Sciences
- Berlin-Brandenburg Academy of Sciences
- American Philosophical Society

Selected Publications

- C. Nüsslein-Volhard and E. Wieschaus (1980): Mutations affecting segment number and polarity. *Nature* 287: 795-801
- H. G. Fronhöfer and C. Nüsslein-Volhard (1986): Organization of anterior pattern in the *Drosophila* embryo by the maternal gene *biocoid*. *Nature* 324: 120-125
- C. Nüsslein-Volhard, H. G. Fronhöfer and R. Lehmann (1987): Determination of antero-posterior polarity in *Drosophila*. *Science* 238: 1675-1681
- S. Roth, D. Stein and C. Nüsslein-Volhard (1989): A gradient of nuclear localization of the dorsal protein determines dorso-ventral pattern in the *Drosophila* embryo. *Cell* 59: 1189-1202
- D. Stein, S. Roth, E. Vogelsang and C. Nüsslein-Volhard (1991): The polarity of the dorso-ventral axis in the *Drosophila* embryo is defined by an extracellular signal. *Cell* 65: 725-735
- D. St. Johnston and C. Nüsslein-Volhard (1992): The origin of pattern and polarity in the *Drosophila* embryo. *Cell* 68: 201-219
- C. Nüsslein-Volhard (1996): The identification of genes controlling development in flies and fishes, *Les Prix Nobel*, Stockholm, reprinted in *Angewandte Chemie (international edition)* 35: 2176-2187
- P. Haffter, M. Granato, M. Brand, M. C. Mullins, M. Hammerschmidt, D. A. Kane, J. Odenthal, F. J. M. van Eeden, Y. J. Jinag, C.-P. Heisenberg, R. N. Kelsh, M. Furutani-Seiki, E. Vogelsang, D. Beuchle, U. Schach, C. Fabian and C. Nüsslein-Volhard (1996): The identification of genes with unique and essential functions in the development of the zebrafish, *Danio rerio*. *Development* 123: 1-36