



Christiane Nüsslein-Volhard

Élue Associé étranger le 8 décembre 2009 dans la section de Biologie moléculaire et cellulaire, génomique

Christiane Nüsslein-Volhard, née en 1942 en Allemagne, dirige le Département de génétique au Max Planck Institute pour la biologie du développement à Tübingen en Allemagne. Ses travaux ont révolutionné la biologie du développement. En élaborant et combinant les outils techniques et conceptuels de la génétique et de l'embryologie, Christiane Nüsslein-Volhard a découvert, par l'étude de mutants chez la drosophile et le poisson zèbre, les mécanismes génétiques qui contrôlent l'embryogenèse précoce. Elle a reçu le Prix Nobel de physiologie en 1995.

Christiane Nüsslein-Volhard, born in 1942 in Germany, is Director of the Department of Genetics at the Max-Planck Institute for Developmental Biology in Tübingen (Germany). She revolutionized developmental biology. By developing and combining the concepts and tools of genetics and embryology, through her systematic analysis of mutations affecting Drosophila and zebrafish development, she discovered the genetic mechanisms that control early embryonic development. She was awarded with the Nobel Prize in 1995.

Curriculum vitae

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| 1975-1976 | Postdoctoral fellow in Walter Gehring's laboratory, Basel (Switzerland) |
| 1976-1977 | Postdoctoral fellow in Klaus Sander's laboratory, Freiburg (Germany) |
| 1978-1981 | Group leader, European Molecular Biology laboratory (EMBL) Heidelberg |
| 1981-1984 | Group leader at the Friedrich Miescher Laboratory of the Max-Planck-Gesellschaft, Tübingen |
| 1985-present | Director, Max-Planck-Institute of Developmental Biology, Tübingen |
| 1989-present | Honorary Professorship, University of Tübingen |
| 2004-present | President-Founder of the CNV-Foundation to support Women in Science |
| 2007-present | Member of the Scientific Council of the European Research Council (ERC) |

Membership

- 1983 Member of the European Molecular Biology Organisation
- 1989 Member of the Academia Europaea
- 1989 Member of the Heidelberger Akademie der Wissenschaften
- 1990 Member of the Rheinisch-Westfälische Akademie der Wissenschaften
- 1990 Foreign Associate of the National Academy of Sciences (USA)

1990 Foreign Member of the Royal Society (England)
1991 Member of the Deutsche Akademie Leopoldina
1992 Foreign Honorary Member of the American Academy of Arts and Sciences
1995 Member of the Berlin-Brandenburgische Akademie der Wissenschaften
1995 Member of the American Philosophical Society

Main Awards

1986 Leibniz-Preis, Deutsche Forschungsgemeinschaft
1988 Carus-Medaille, Deutsche Akademie Leopoldina
1990 Rosenstiel Award, Brandeis University (USA) ; Mattia Award, Roche Institute (USA)
1991 Albert Lasker Medical Research Award (USA)
1992 Prix Louis Jeantet de Médecine (Suisse) ; Alfred P. Sloan Jr Award., General Motors Cancer Foundation (USA) ; Otto-Bayer-Preis, Bayer AG ; Otto Warburg-Medaille, Gesellschaft für Biochemie und Molekularbiologie ; Louisa Gross Horwitz Award, Columbia University (USA) ; Gregor Mendel Medal, Genetics Society (United Kingdom)
1993 Sir Hans Krebs Medal, Federation of European Biochemical Societies
1995 Nobel Prize in Physiology or Medicine (with E. Wieschaus and E. Lewis)
2005 Grande Croix du Mérite avec la plaque et le cordon (Grand Commandeur) (Allemagne)
2006 The L'oréal-UNESCO Tribute for UNESCO's 60th anniversary
2009 Österreichisches Ehrenzeichen für Wissenschaft und Kunst

Book

Coming to life: how genes drive development (Ed. Kales Press, 2006) - Von Genen und Embryonen (Ed. Reclam, 2004)

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