



70° ANNIVERSARIO DELLA SCOPERTA DEL DNA

ACCADEMIA GIOENIA

10 NOVEMBRE 2023

ORE 16.00



**Celebrazione dei 70 anni della Doppia Elica del DNA
nel bicentenario della Accademia Gioenia
Palazzotto Biscari
10 Novembre ore 16.00**

Caffè scientifico

Coordina e introduce Angelo Messina:

Giorgio Montaudo: La struttura del DNA

Daniele Condorelli: F. Crick and J. Watson.

"The Complementary Structure of Deoxyribonucleic Acid." Proceedings of the Royal Society of London

Alessandra Gentile: Il DNA e le biotecnologie verdi.

Discussione



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LABORATORI CAVENDISH





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Since the founding of the Nobel Prizes by Alfred Nobel in 1895, 30 members of the Cavendish have won one of the illustrious prizes. Note that not all of the Prizes are in physics.

- Lord Rayleigh (Physics, 1904)
- Sir J.J. Thomson (Physics, 1906)
- Lord Ernest Rutherford (Chemistry, 1908)
- Sir Lawrence Bragg (Physics, 1915)
- Charles Barkla (Physics, 1917)
- Francis Aston (Chemistry, 1922)
- Charles Wilson (Physics, 1927)
- Arthur Compton (Physics, 1927)
- Sir Owen Richardson (Physics, 1928)
- Sir James Chadwick (Physics, 1935)
- Sir George Thomson (Physics, 1937)
- Sir Edward Appleton (Physics, 1947)
- Lord Patrick Blackett (Physics, 1948)
- Sir John Cockcroft (Physics, 1951)
- Ernest Walton (Physics, 1951)
- Francis Crick (Physiology or Medicine, 1962)
- James Watson (Physiology or Medicine, 1962)
- Max Perutz (Chemistry, 1962)
- Sir John Kendrew (Chemistry, 1962)
- Dorothy Hodgkin (Chemistry, 1964)
- Brian Josephson (Physics, 1973)
- Sir Martin Ryle (Physics, 1974)
- Antony Hewish (Physics, 1974)
- Sir Nevill Mott (Physics, 1977)
- Philip Anderson (Physics, 1977)
- Pjotr Kapitsa (Physics, 1978)
- Allan Cormack (Physiology or Medicine, 1979)
- Sir Aaron Klug (Chemistry, 1982)
- Norman Ramsey (Physics, 1989)
- Didier Queloz (Physics, 2019)



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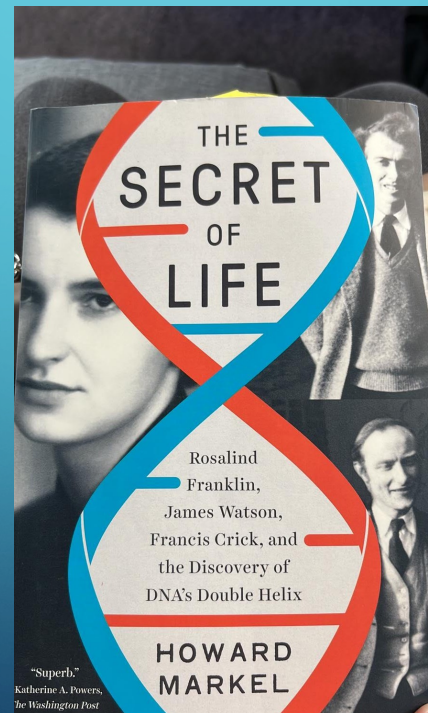


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AN AUTHORITATIVE HISTORY OF THE RACE TO UNRAVEL DNA'S STRUCTURE, BY ONE OF OUR MOST PROMINENT MEDICAL HISTORIANS.

JAMES WATSON AND FRANCIS CRICK'S 1953 DISCOVERY OF THE DOUBLE HELIX STRUCTURE OF DNA IS THE FOUNDATION OF VIRTUALLY EVERY ADVANCE IN OUR MODERN UNDERSTANDING OF GENETICS AND MOLECULAR BIOLOGY. BUT HOW DID WATSON AND CRICK DO IT—AND WHY WERE THEY THE ONES WHO SUCCEEDED?



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IN TRUTH, THE DISCOVERY OF DNA'S STRUCTURE IS THE STORY OF FIVE TOWERING MINDS IN PURSUIT OF THE ADVANCEMENT OF SCIENCE, AND FOR ALMOST ALL OF THEM, THE PROSPECT OF FAME AND IMMORTALITY: WATSON, CRICK, ROSALIND FRANKLIN, MAURICE WILKINS, AND LINUS PAULING. EACH WAS FASCINATING AND BRILLIANT, WITH STRONG PERSONALITIES THAT OFTEN CLASHED. HOWARD MARKEL SKILLFULLY RE-CREATES THE INTENSE INTELLECTUAL JOURNEY, AND FRAUGHT PERSONAL RELATIONSHIPS, THAT ULTIMATELY LED TO A SPECTACULAR BREAKTHROUGH. BUT IT IS ROSALIND FRANKLIN—FIERCELY DETERMINED, RELENTLESS, AND AN OUTSIDER AT CAMBRIDGE AND THE UNIVERSITY OF LONDON IN THE 1950S, AS THE LONE JEWISH WOMAN AMONG YOUNG MALE SCIENTISTS—WHO BECOMES A FOCAL POINT FOR MARKEL.



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THE SECRET OF LIFE IS A STORY OF GENIUS AND PERSEVERANCE, BUT ALSO A SAGA OF CRONYISM, MISOGYNY, ANTI-SEMITISM, AND MISCONDUCT. DRAWING ON VOLUMINOUS ARCHIVAL RESEARCH, INCLUDING INTERVIEWS WITH JAMES WATSON AND WITH FRANKLIN'S SISTER, JENIFER GLYNN, MARKEL PROVIDES A FASCINATING LOOK AT HOW SCIENCE IS DONE, HOW REPUTATIONS ARE UNDONE, AND HOW HISTORY IS WRITTEN, AND REVISED.

A VIBRANT EVOCATION OF CAMBRIDGE IN THE 1950S, MARKEL ALSO PROVIDES COLORFUL DEPICTIONS OF WATSON AND CRICK—THEIR COMPETITIVENESS, IDIOSYNCRASIES, AND YOUTHFUL IMMATURITY—AND COMPELLING PORTRAITS OF WILKINS, PAULING, AND MOST COGENTLY, ROSALIND FRANKLIN. *THE SECRET OF LIFE* IS A LIVELY AND SWEEPING NARRATIVE OF THIS LANDMARK DISCOVERY, ONE THAT FINALLY GIVES THE WOMAN AT THE CENTER OF THIS DRAMA HER DUE.



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Cold
Spring
Harbor
Laboratory

MEETINGS & COURSES
PROGRAM

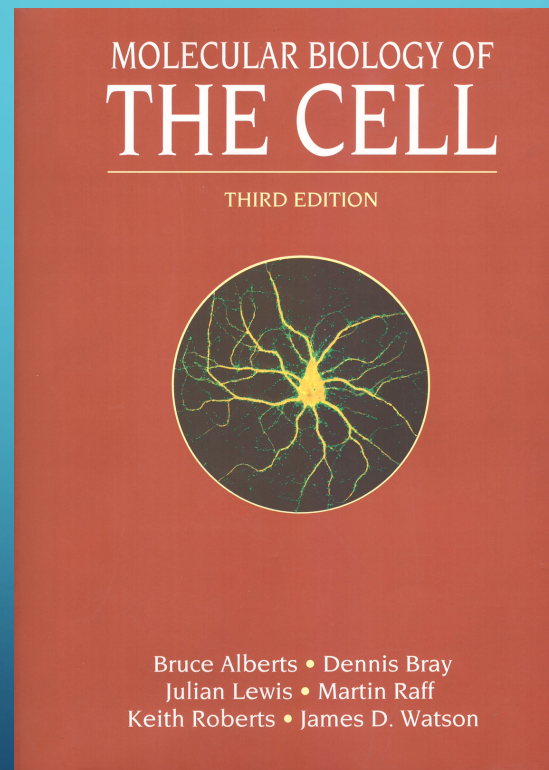


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