



2023 NATIONAL INVENTORS
HALL OF FAME INDUCTEE

Born: Dec. 11, 1968

Primary Connections:

- Max Planck Unit for the Science of Pathogens: Scientific and Managing Director, 2018-21
- Max Planck Institute for Infection Biology: Scientific Director, 2015-18
- Umeå University: Laboratory Head, Associate and Visiting Professor, 2009-17
- University of Vienna, Max Perutz Labs: Laboratory Head, Guest Assistant and Associate Professor, 2002-09

Education:

- The University Pierre and Marie Curie (now Sorbonne University): Bachelor's and Master's Degrees in Life Sciences, Biochemistry, Microbiology and Genetics, 1992; Ph.D., Microbiology, 1995

Key Memberships/Awards:

- Nobel Prize in Chemistry, 2020
- Wolf Prize Laureate in Medicine, 2020
- Harvey Prize, 2018
- Kavli Prize in Nanoscience, 2018

10 Things You Need to Know About

Emmanuelle Charpentier

CRISPR-Cas9 Gene Editing

U.S. PATENT NO. 10,266,850

1. Charpentier was born in 1968 in Juvisy-sur-Orge, France.
2. She says she was interested in sciences from a young age — interested not only in pure sciences and mathematics, but also in the human sciences such as psychology, sociology and philosophy.
3. In 2020, Charpentier and biochemist Jennifer Doudna were awarded the Nobel Prize in Chemistry.
4. She did postdoctoral research at the Pasteur Institute and the Rockefeller University.
5. Charpentier was a research associate at New York University's Langone Health, Skirball Institute of Biomolecular Medicine; St. Jude Children's Research Hospital; and NYU Medical Center.
6. She is the co-founder of CRISPR Therapeutics and ERS Genomics.
7. Charpentier also is on the scientific advisory boards of Horizon Discovery and CeMM.
8. She is a fellow of the American Association for Cancer Research Academy.
9. Among Charpentier's many honors are the Albany Medical Center Prize, Japan Prize in Life Science, Gairdner Foundation International Award, Tang Prize in Biopharmaceutical Science, Warren Alpert Foundation Prize, Massry Prize and Gabbay Award.
10. She has 50 U.S. patents.