

Previous Heinrich Emanuel Merck Award laureates:

1988 Professor M. Hiraide, Japan; Professor O.S. Wolfbeis, Austria
1990 Dr. B. Bidlingmeyer, USA; Professor R. Niessner, Germany
1993 Professor A. Amirav, Israel
1996 Professor D.J. Harrison, Canada; Professor A. Manz, United Kingdom
1998 Professor R. Zenobi, Switzerland
2000 Professor N. Dovichi, Canada
2002 Professor J.V. Sweedler, USA
2004 Professor Y. Baba, Japan
2007 Dr. A. Makarov, Germany; Professor S. Nie, USA
2010 Professor Luisa Torsi, Italy
2012 Professor Aaron Wheeler, Canada
2015 Professor Petra Dittrich, Switzerland
2017 Prof. Francesco Ricci, Italy
2019 Prof. David Alsteens, Belgium

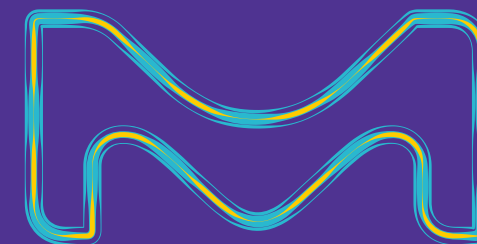
Awarding: 19 - 22 April 2022 in Nijmegen, the Netherlands.



Heinrich Emanuel Merck Award for Analatical Sciences 2022



Merck KGaA
Darmstadt, Germany
www.merckgroup.com



Heinrich Emanuel Merck

1794–1855



The founder of the chemical and pharmaceutical company E. Merck in Darmstadt, Heinrich Emanuel Merck (1794-1855), was not just a manufacturer and salesman. He was also very involved in research, having acquired the knowledge he needed while training to be a pharmacist. The advanced scientific education he received was unusual at the time. His teachers included the Erfurt pharmacist and reformer of the pharmaceutical field, Johann Bartholomaeus Trommsdorff, and the chemical analyst Martin Heinrich Klaproth, as well as the phytochemist Sigismund Friedrich Hermbstaedt. The latter two both lectured at the university in Berlin.

In 1816, Heinrich Emanuel Merck took over the Engel Apotheke pharmacy in Darmstadt, which his family had owned since 1668. Soon afterwards, Merck began working intensively on a new field of analytical chemistry at his lab in the pharmacy: alkaloids. His experiments to isolate and characterize all of the known alkaloids led to the start of bulk production in 1827, which enjoyed immediate success. In his „Cabinet of pharmaceutical and chemical innovations“, Merck presented 16 alkaloids for scientific experiments to his fellow experts and doctors. Heinrich Emanuel Merck was well known among his customers for the purity of the alkaloids he sold.

In the year 1888 Dr. Carl Krauch (1853–1934), chief analytical chemist at Merck published the first analytical standard work, a narrow book titled „Testing chemical reagents for purity“. In the same year, Merck announced that from now on, only reagents would be introduced to the market that complied with Krauch’s purity criteria described in this book. This was the birth-hour of the reagents of guaranteed purity, and at the same time it was the beginning of modern thinking in analytical chemistry.

The Heinrich Emanuel Merck Award for Analytical Science was first awarded in 1988 to commemorate the 100 year anniversary of Dr. Carl Krauch’s classic work.

With a fund of 15,000 euros, the Heinrich Emanuel Merck Award has stood for excellence in analytical chemistry for over 2 decades. The award is given to honor scientists who are developing new analytical methods in chemistry with new applications that aim to improve human life.

Merck will be awarding the scientific prize for the 15th time in 2022. The Heinrich Emanuel Merck Award is open to researchers who are developing innovative solutions to analytical problems in the life, material and environmental sciences. These areas of science are constantly gaining importance in our daily lives.

Previous award laureates include top researchers whose work has provided the foundation for groundbreaking discoveries.

