European Research Day of Academia International
ECNDT 2018, Gothenburg June 11th – 15th, 2018

THE GALILEO GALILEI AWARD
TO
PROF. DR. JOACHIM FRANK

Uwe EWERT
Academia NDT International

BAM Bundesanstalt für Materialforschung und -prüfung, Berlin, Germany

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The Galileo Galilei Award

Donated by the president of Academia NDT International, Giuseppe Nardoni

for Achievements in Science which Move the World

Focused to Non Destructive Techniques

13.06.2018
The Galileo Galilei Award

Awarded to Prof. Joachim Frank for Achievements in Cryo Electron Microscopy of Biological Molecules with high Resolution and Single-Particle Reconstruction

Joachim Frank
Born: 12 September 1940, Siegen, Germany
Affiliation at the time of the award: Columbia University, New York, NY, USA
The Nobel Prize in Chemistry 2017

Jacques Dubochet
Prize share: 1/3

Joachim Frank
Prize share: 1/3

Richard Henderson
Prize share: 1/3

The Nobel Prize in Chemistry 2017 was awarded to Jacques Dubochet, Joachim Frank and Richard Henderson "for developing cryo-electron microscopy for the high-resolution structure determination of biomolecules in solution".
“Mathematics is the alphabet with which God has written the universe.” - Galileo

Single-Particle Reconstruction requires Good microscopic equipment AND sophisticated algebraic reconstruction algorithms.
The Galileo Galilei Award

Achievements in Cryo Electron Microscopy of Biological Molecules with high Resolution and Single-Particle Reconstruction

http://franklab.cpmc.columbia.edu/franklab/

Welcome to Frank Lab

We investigate the mechanism of translation on the ribosome by using cryo-electron microscopy and single-particle reconstruction.
CURRICULUM VITAE

- **Born:** 9/12/40
- **Birthplace:** Weidenau/Sieg, Germany
- **Nationality:** German; US Immigration Visa 1975; since 1997 US Citizen.

- **Education:**
  - Universität Freiburg, Freiburg im Breisgau, Germany 1960-1963

- **Degrees:**
  - Diplom (equivalent to Masters), University of Munich, Germany 1967
  - Dr. rer. nat. (equ. to Ph.D.), Technical University of Munich, Germany 1970

- Several **Awards** including the famous “Franklin Medal for Life Science”, see also the video under - https://www.fi.edu/laureates/joachim-frank

Galileo Galilei Award
Employment

- **1994–present** Lab Chief, Laboratory for Computational Biology and Molecular Imaging.

- **1997–present** Research Professor, New York University, Department of Cell Biology.

- **1998–present** Howard Hughes Medical Institute Investigator.

- **2003–2008** Senior Lecturer, Department of Biochemistry and Molecular Biophysics, Columbia University.

- **2008–present** Professor, Department of Biochemistry and Molecular Biophysics, College of Physicians and Surgeons, Columbia University

- **2008–present** Professor, Department of Biological Sciences, College of Arts and Sciences, Columbia University
The Galileo Galilei Award

Awarded to Prof. Joachim Frank for
Achievements in Cryo Electron Microscopy of Biological Molecules with high Resolution and Single-Particle Reconstruction

“Galileo Galilei looked to the sky to study the macrosystem; the static sun, the rotating earth.

You, Joachim, have focused your research to the nano system. After many years of theoretical and experimental tests you have brought to light the hidden secrets of the biological molecule.

This achievements will have enormous impact on improving the health of people and will take us further along the road combatting the devastating illnesses that affect mankind today.”

G. Nardoni, President of Academia NDT International
Academia NDT International Council for Organization

www.academia-ndt.org

Giuseppe Nardoni
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