Nancy Carrasco, M.D.

C.N.H. Long Chair of the Department of Molecular Physiology and Biophysics Professor, Molecular Physiology and Biophysics Joe C. Davis Chair in Biomedical Science Vanderbilt University

MD - School of Medicine, National Autonomous University MD – Biochemisty – School of Chemistry, National Autonomous University

Carrasco was born in Mexico City, Mexico. She obtained her M.D. from the School of Medicine and her M.S. in Biochemistry from the School of Chemistry at the National Autonomous University of Mexico in 1980 and 1981, respectively. She subsequently became a postdoctoral fellow at the Roche Institute of Molecular Biology in New Jersey, for which she received a Fogarty International Fellowship from the National Institutes of Health. She did her postdoctoral training in the laboratory of Ronald Kaback. In the course of her postdoctoral work, Carrasco among other things—generated monoclonal and site-directed polyclonal antibodies against the lactose permease of E. coli. She used these antibodies to determine the topology of the lactose permease in the membrane of E. coli, and identified the proton translocation pathway that provides the driving force for lactose accumulation by E. coli.

In 1987, Carrasco joined the faculty of the Albert Einstein College of Medicine, and in 2011 she moved to the Yale School of Medicine. At Yale, in 2018, Carrasco became the C.N.H. Long Professor of Physiology.

In the summer of 2019, Carrasco moved again, this time to Vanderbilt University, where she became the Chair of the Department of Molecular Physiology and Biophysics.

She is a member of the Editorial Board for PNAS.

Carrasco has conducted research in the fields of biochemistry, biophysics, molecular physiology, molecular endocrinology, and cancer. She cloned the sodium/iodide symporter (NIS), a breakthrough in thyroid pathophysiology with ramifications for many other fields, including structure/function of transport proteins, molecular endocrinology, gene transfer studies, cancer, and public health (she has served on the Environmental Protection Agency's science advisory board).