

Professor Jan Kraus, Ph. D, Professor Pediatrics / Cell and Developmental Biology, University at Colorado U.S.

Dr. Jan P. Kraus completed his masters at the Charles University in Prague and his Ph.D. at the Basel University in Switzerland and was Professor of Pediatrics at the University of Colorado School of Medicine. Since his postdoctoral years at Yale University he was involved in the study of several inherited metabolic diseases including homocystinuria (HCU) and propionicacidemia (PA). His work included biochemical and enzymological studies of the enzymes involved, CBS and PCC respectively, cloning of the corresponding cDNAs and genes, chromosomal mapping studies, X-ray crystallography, and mutation determinations in patients with HCU and PA.

His laboratory worked on expressing human CBS and PCC in bacteria, and purifying the enzymes to homogeneity. The lab also used several different mouse models to develop enzyme replacement therapies (ERTs) for HCU and PA. Dr. Kraus maintained databases of HCU and PA patient alleles.