Professor Carol Shoulders
Professor of Lipidology

Carol Shoulders graduated from the Open University in 1980 whilst working at the Medical Research Council's Laboratory of Molecular Biology in Cambridge and was awarded a DPhil by Oxford University in 1983 for cloning the human apolipoprotein A1 gene. Her subsequent activities within the lipid biology field include identifying that mutations of the microsomal triglyceride transfer protein gene cause the devastating condition, abetalipoproteinemia; and that the abetalipoproteinemia gene-product belongs to the gene family which encodes the egg yolk protein, vitellogenin, and apolipoprotein B, the obligatory protein component of the major lipid carrying particles in the circulation. She also led the group which discovered the cause of the rare disorder Chylomicron Retention Disorder, and established that newly assembled chylomicrons, despite their very large size, utilise the COPII vesicular transport system to navigate their journey through the complex intracellular transport system of enterocytes.

Carol Shoulders joined the William Harvey Research Institute in 2009 to continue studies into the highly atherogenic, disorder Familial Combined Hyperlipidemia (FCHL) and to diversify into other areas of lipid biology, work begun at the MRC Clinical Sciences Centre, Imperial College London. Carol Shoulders is a committee member of the Heart-UK Research Board, a scientific advisor for the American Society of Biochemistry and Molecular Biology Today Journal and an Associate Editor for the Journal of Lipid Research.