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Curriculum Vitae



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Malcolm Watford obtained his education in the United Kingdom, where he completed his doctorate under the direction of Sir Hans A. Krebs. He completed post-doctoral training in Montreal, Canada and Cleveland, OH, and served on the faculties of Nutrition & Biochemistry at Cornell University before joining Rutgers University where he is Professor of Nutritional Biochemistry. His research has centered on the relationship of amino acid metabolism, nitrogen excretion, and gluconeogenesis. His early work focused intestinal glutamine metabolism, and the roles of cytosolic and mitochondrial PEPCCK in gluconeogenesis. He then demonstrated differential regulation of the glutaminase isozymes and was the first to purify liver-type glutaminase (now known as GLS2), together with the isolation of cDNA and genomic DNA to this enzyme. Most recently, his work has focused on the role of adipose tissue in glutamine metabolism, first by establishing that adipose tissue is a net producer of glutamine in vivo and then demonstrating that glutamine is required for adipocyte differentiation, and the role of adipocyte produced glutamine as a fuel for macrophages. In addition, he has carried out extensive work with glutamine supplementation during lactation where glutamine has beneficial effects on both neonatal health and the maintenance of maternal lean body mass. His many editorial positions include service as Reviews Editor for the Biochemical Journal, as Reviewing Editor for the Journal of Biological Chemistry, and as an Associate Editor of the Journal of Nutrition. Since 2006 he has served on the Editorial Committee of Annual Reviews of Nutrition and in January 2017 he took up the position of co-Editor in chief for Nutrition and Metabolism. He has been teaching tissue-specific metabolism and metabolic regulation for 40 years and in 2010 he received the Outstanding Contribution to Teaching Nutrition award from the American Society for Nutrition. In 2017, in recognition of his career in nutritional sciences, he was inducted as a Fellow of the American Society for Nutrition.