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Nutraceuticals as promising agents in the prevention and treatment of atherosclerosis

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Atherosclerosis, an in ammatory disorder of medium and large arteries and the underlying cause of myocardial infarction and cerebrovascular accident, is responsible for more deaths worldwide than any other disease. Pharmaceutical intervention together with lifestyle changes have recently resulted in a slight reduction in morbidity and mortality from atherosclerosis and its complications, at least in the western world. However, this is expected to change in the future, because of global increase in risk factors such as obesity and diabetes. Current pharmaceutical therapies against atherosclerosis such statins are not fully elective and associated with several side elects together with patient-dependent election. Unfortunately, many pharmaceutical leads against established targets have proved disappointing at the clinical level (e.g. inhibitors against cholesterol ester transfer protein). It is therefore essential that further research is carried out into alternative therapies for the prevention and/or treatment of atherosclerosis. Nutraceuticals have recently received substantial interest for the prevention/treatment of atherosclerosis. However, more in-depth understanding is required on the molecular mechanisms underlying the actions of nutraceuticals together with large clinical trials testing their election. We have recently initiated studies on the elects of many nutraceuticals, including certain omega-6-fatty acids, polyphenols and avanols, on several key monocyte/macrophage processes associated with atherosclerosis in vitro (e.g. monocytic migration, macrophage polarization, foam certain of the context of current therapies and those that are being developed.

Biography

Dipak P Ramji received his BSc (Hons) degree (Biochemistry) and his PhD from University of Leeds. This was followed by Post-doctoral research at the EMBL +HLGHOEHUJ DQG ,5%0 5RPH ZLWK IHOORZVKLSV IURP WKH 5R\DO 6RFLHW\ DQG WKH (8 +H MRLQHG RI %LRVFLHQFHV +LV UHVHDUFK LV IRFXVHG RQ XQGHUVWDQGLQJ KRZ WKH LPPXQH DQG LQADPPDWRUWKH JRDO RI DWWDLQLQJ GHHSHU PHFKDQLVWLF LQVLJKW DQG LGHQWLI\LQJ SUHYHQWDWLYH WKHUDSH chapters (h-index=30; i10-index=57). He is an Editorial Board Member of 16 international journals.

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