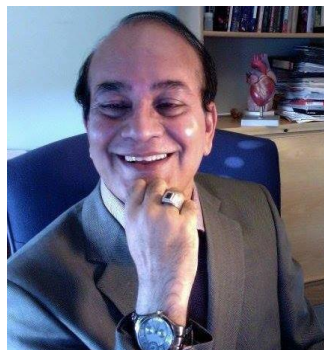




Public lecture*

by **Prof. Asim K. Duttaroy**
Faculty of Medicine,
University of Oslo, Norway



Title: Development of functional ingredients from tomato (Fruitflow®) that improve bloodflow and blood pressure

Date & Time: At 5:00 pm on 14th Dec 2022 (Wednesday)

Venue: DLT9 (New Academic Building) BITS Pilani, K K Birla Goa Campus

ABSTRACT

Normal platelet activity is the key to maintaining haemostasis and normal blood flow. Hyperactive platelets interact with vessel walls by shedding macro-particles, secreting several adhesive growth factors, and inflammatory agents interrupt the blood flow and produce a prothrombotic state in people with obesity, diabetes, a sedentary lifestyle or hypertension, and in people who smoke. In general, the molecular events underpinning these processes are broadly similar. Disturbed blood flow and platelet hyperactivity facilitate pathological thrombus formation, leading to cardiovascular disease (CVD) events. Therefore, maintaining normal platelet activity is critical to overall haemostasis. However, antiplatelet drugs (aspirin etc.) cannot be used as primary prevention due to several side effects. Therefore, alternative safe antiplatelet inhibitors for the population with hyperactive platelets are sought to reduce the risk of developing CVD. The potent antiplatelet factors were identified in water-soluble tomato extract, which significantly inhibited platelet aggregation and lowered blood pressure. Human volunteer studies demonstrated the potency and bioavailability of active compounds in water-soluble tomato extract. As a result, the water-soluble tomato extract became the first product in Europe to obtain an approved, proprietary health claim under Article 13(5) of the European Health Claims Regulation 1924/2006 on nutrition and health claims made on foods. In addition to its reduced platelet reactivity, this tomato contains anti-angiotensin-converting enzymes and anti-inflammatory factors, making it an effective and natural cardio-protective functional food.

*: Registration:

Please fill the Registration form(click the link below)

<https://docs.google.com/forms/d/19jHNwLSigK0GIQyv0bShU54Ok9SS8McdHqPmpAeFr7U/edit> on or before **12 Noon of 13th December 2022 (Tuesday)**.

For any query, you may send an email at fad.office@goa.bits-pilani.ac.in

