

## The study of natural anti-aging compounds using two-photon microscopy technique - Gohar Tsakanova - Institute of Molecular Biology NAS RA

**Gohar Tsakanova**

Institute of Molecular Biology NAS RA, Armenia

**Proclamation of the Issue:** The non-controlled gathering of oxidative harm is one of the vital systems of the maturing cycle. Cell reinforcement safeguard is the fundamental instrument controlling the over age of receptive oxygen species (ROS) in this way ensuring the life form against oxidative harm. These days, finding of normal mixtures ensuring distinctive cell types against oxidative pressure is of most significance. From this point of view, *Helix pomatia* snails can be considered as such ensuring compounds because of their all-around created technique of guard against oxidative injury. Technique and Hypothetical Direction: Altogether, 30 solid volunteers (25-35 years youthful age bunch, male/female, 5/5; 45-55 years moderately aged gathering, male/female: 5/5; 65> years more seasoned matured gathering, male/female: 5/5) were associated with this investigation. The egg whites organ remove was segregated from 40 grown-up examples of snails. After the age of an in vitro model of oxidative pressure the intracellular ROS were checked in human red platelets (RBCs) with and without egg whites organ separate by two photon laser examining fluorescence microscopy utilizing a ROS-touchy, layer porous fluorescent color, 5(6)-carboxy-2',7'-dichloro fluorescein diacetate (carboxy-DCFDA). As indicated by the outcomes got, *Helix pomatia* snails egg whites organ separate essentially ( $P < 0.05$ ) decreases the oxidative pressure not just in flawless RBCs from the more seasoned matured gathering, yet additionally in RBCs from this gathering presented to extra in vitro oxidative pressure.

End and all in all, the snail's egg whites organ protein separate adequately forestalls the age of intracellular ROS in this way showing incredible cancer prevention agent properties, and has a securing impact against aging generated ROS in human RBCs. Lastly, the snail's egg whites organ protein concentrate can be considered as innocuous and powerful normal antioxidant methods in anticipation of the maturing related neurotic cycles related with operating system. This survey sums up the authentic and later advancements of multi photon microscopy, as applied to dermatology. Multi photon microscopy offers a few benefits over contending microscopy strategies: there is an inborn hub separating, infiltration profundities that contend well with confocal microscopy because of the utilization of close infrared light, and numerous two-photon contrast systems, like second-consonant age, have no simple in one-photon microscopy. While the infiltration profundities of photons into tissue are normally restricted on the request for many microns, this is of less worry in dermatology,

as the skin is dainty and promptly available. Subsequently, multi photon microscopy in dermatology has produced a lot of interest, quite a bit of which is summed up here. The audit covers the cooperation of light and tissue, just as the different contemplations that should be made when planning an instrument. The condition of multi photon microscopy in imaging skin malignant growth and different sicknesses is likewise examined, alongside the examination of maturing and recovery wonders, lastly, the utilization of multi photon microscopy to dissect the transdermal vehicle of medications, makeup and different specialists is summed up. The audit finishes up with a gander at potential future exploration bearings, particularly those that are important to drive these methods into far reaching clinical acknowledgment.

A scope of changing chromosphere nitride free revolutionaries and their no radical methylamine analogy were orchestrated and their straight photo physical properties analysed. The presence of the general free extreme veils the chromophore's typical fluorescence discharge, and these species are depicted as pro-fluorescent. Two nitroxides joining anthracene and fluorescein chromophores (intensifies 7 and 19, individually) showed two-photon ingestion (2PA) cross areas of around 400 G.M. when energized at frequencies more noteworthy than 800 nm. Both of these pro-fluorescent nitrides exhibited.