Contribution ID: **151** Type: **Poster**

Skin Anti-Aging Efficacy of Enzyme-Treated Supercritical Caviar Extract

Skin aging is a gradual and multifactorial process influenced by intrinsic changes and external stressors such as sun exposure and pollution. These factors contribute to dryness, wrinkles, reduced firmness, and uneven skin tone. The present work explores the potential role of enzyme-treated caviar extract, obtained through a clean and advanced extraction method designed to preserve active nutrients, as a natural approach to managing skin aging. Evidence from existing literature indicates that bioactive components in caviar extracts may enhance skin hydration, improve elasticity, and reduce visible signs of aging. Preclinical reports suggest mechanisms such as boosting antioxidant activity, supporting collagen and hyaluronic acid production, and reducing enzyme-mediated structural damage following UV exposure. This review highlights enzyme-treated caviar extract as a promising nutraceutical candidate for promoting youthful, healthy skin. While preliminary findings are encouraging, further well-designed clinical trials are required to establish its efficacy and safety as a dietary supplement for anti-aging skincare.
Keywords: Aging, Caviar extract, oxidative stress, nutraceuticals

Authors: VINOD NAYAK, KSHITIJ (Department of chemistry and biochemistry School of sciences Jain Deemed to be university bengaluru Karnataka); N, SATHVIKA (Department of chemistry and biochemistry School of sciences Jain Deemed to be university bengaluru Karnataka)

Co-author: VARGHESE, Dr.Ruby (Jain Deemed to be University)

Presenter: N, SATHVIKA (Department of chemistry and biochemistry School of sciences Jain Deemed to be university bengaluru Karnataka)

Track Classification: Health Sciences