



TITLE: Evaluation of Trans-Resveratrol as a Treatment for Periodontitis

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ABSTRACT

Trans-resveratrol (3,5,4'-trihydroxy-trans-stilbene) (RES) is a plant polyphenol that has been well documented for its anti-oxidant, antimicrobial, anti-inflammatory, and regenerative properties. Moreover, compelling evidence presented in the abundance of pre-clinical studies using ligature-induced periodontitis models, has positioned RES as a theoretically viable candidate for the reduction of the chronic inflammation, oxidative stress, and tissue destruction seen in periodontitis (PD). However, the instability of RES under physiological conditions, as well as its rapid hepatic clearance, has presented as a challenge to its ubiquitous application as an orally administered therapeutic in clinical practice. Fortunately, with the application of nanotechnology, the pharmacological profile of Nano-RES repositions the phytochemical from an herb-based supplement, useful as an adjunct therapy, to a stable and potent nanomedicine, demonstrating efficacy for the prevention and treatment of PD and the systemic diseases with which it has been associated.

BIOGRAPHY

After completing her MSc in Plant Science at University of Western Ontario (UWO) and a Doctor of Naturopathic Medicine degree at The Canadian College of Naturopathic Medicine (CCNM), Tracey Lynn Harney downsized to part time naturopathic consultancy to pursue a fulfilling career in higher education.

Following almost 20 years of service as a full-time faculty member teaching biomedical science, she returned to school and received another MSc with distinction in Nanotechnology for Medicine and Health Care from the University of Oxford. Upon realizing the extent to which nanoscale formulated delivery systems could enhance the efficacy of nutraceuticals, Tracey has a rekindled passion and optimism for the future application of nanotechnology in natural medicine.



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