

ABSTRACT

PRESENTER: Dawn M. Thiel

COMPANY: Beraca International North America

JOB TITLE: Business Director

Podium Title: *Non-hemp based Phytocannabinoid with anti-inflammatory and β -endorphin production activity*

Abstract

The search for natural ingredients that address well-being is a constant in today's world. The popularization of CBD is an example of this area of interest. However, due to the regulatory aspects associated with CBD it is interesting to look at other alternatives to achieve this same activity. The endocannabinoid system, which is composed of a lipid-signaling network that modulates neuronal and inflammatory functions, is mainly composed of CB1 and CB2 receptors. In particular, the CB2 receptor mediates immunomodulatory and inflammatory properties, being activated by endogenous (endocannabinoid) or exogenous (usually agonist) ligands. This presentation discusses an Amazonian oil complex composed mainly of beta-caryophyllene, an exogenous phytocannabinoid, that is able to activate the CB2 receptor and modulate cellular signals to cause reduction of inflammation and improvements in skin healing. Efficacy tests have proven important benefits of the Amazonian oil complex for beauty. Results have shown the complex will help to mitigate the effects of premature aging related to inflammatory stress as shown in a study on anti-inflammatory activity specifically in interleukins IL-1B and IL-6. The results also show the Amazonian oil complex has the ability to support the healing process based on beta-endorphin neuropeptide production.



Dawn has a BS degree in Chemistry and an MBA in Marketing and has split her career working in the lab and in sales. She holds 2 patents from her years in the lab at DowBrands - and still has a mini lab in her basement that gets used from time to time. Active in the local and national level of the SCC, Dawn has served as SCC National Secretary twice since 2012.

Dawn has worked with Beraca for over 13 years, both in her current position as Business Director for Beraca since 2012 and prior to that as Technical Manager for Beraca's distributor in the Midwest, Glenn Corporation. Beraca's

portfolio includes pure oils and butters from Brazilian seeds, fruits and tree resins and most recently includes extracts and surfactants derived from these natural and sustainable

ingredients. Beraca prides itself on quality, clean ingredients, solid efficacy testing and an award winning sustainable supply chain. Dawn visits the source communities in Brazil regularly to see the social and environmental impacts at the local level and is thrilled to see that sustainability and ethical sourcing are now must-haves for our industry.