

SDM Shout Out

Weekly News Updates for SDM Faculty, Staff and Students

SDM's Dr. Praveen Arany Leads Development of a Burn Healing Protocol for Light Therapy



Praveen Arany, assistant professor of oral biology in the UB School of Dental Medicine, led the development of a burn healing protocol for light therapy. Photographer: Douglas Levere

Light therapy may accelerate the healing of burns, according to a University at Buffalo-led study. The research, published in [Scientific Reports](#), found that photobiomodulation therapy – a form of low-dose light therapy capable of relieving pain and promoting healing and tissue regeneration – sped up recovery from burns and reduced inflammation in mice by activating endogenous TGF-beta 1, a protein that controls cell growth and division.

The findings may impact therapeutic treatments for burn injuries, which affect more than 6 million people worldwide each year, says lead investigator Praveen Arany, DDS, PhD, assistant professor of oral biology in the UB School of Dental Medicine.

“Photobiomodulation therapy has been effectively used in supportive cancer care, age-related macular degeneration and Alzheimer’s disease,” says Arany. “A common feature among these ailments is the central role of inflammation. This work provides evidence for the ability of photobiomodulation-activated TGF-beta 1 in mitigating the inflammation, while promoting tissue regeneration utilizing an elegant, transgenic burn wound model.”

The study measured the effect of photobiomodulation on the closure of third-degree burns over a period of nine days.

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Dr. Mary Bush Wins Gold Medal



Dr. Mary Bush, Associate Dean for Student, Community & Professional Initiatives

SDM's Dr. Mary Bush won the gold medal for the best mystery/thriller in the 2021 Independent Publishers Book Awards for her debut novel, *"A Simple Lie"*.

She recently published a sequel *"The Secrets We Bury"*. Both books are in paperback and are available on [Amazon](#) and [Barnes & Noble](#).

The Independent Publisher Book Awards were conceived in 1996 as a broad-based, unaffiliated awards program open to all members of the independent publishing industry, and are open to independent authors and publishers worldwide who produce books intended for an English speaking audience.

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