Summit planned for pediatric dentists

NuSmile Ltd, a worldwide leader in pediatric esthetic restorative dentistry, will present the NuSmile Summit, Jan. 19-20, in Clearwater Beach, Fla. Attendees will be able to create their own schedule by choosing courses that best meet their needs. Attendees can receive up to 16 C.E. credits from courses offered by several of the world’s most respected experts in all facets of pediatric dentistry.

“The 2018 NuSmile Summit is designed to help pediatric dentists and general practitioners who treat pediatric patients keep abreast of the latest advances in pediatric dentistry,” said Diane Johnson Krueger, NuSmile founder and CEO. “Our topics and speakers have been carefully chosen to enable attendees to take their practices to the next level regarding both treatment and practice management. “We’re very excited about the line-up of distinguished experts we’ve been able to assemble to lead our seminars, including several directors from the renowned Institute for Pediatric Dentistry,” said Mike Loessberg, NuSmile director of sales, U.S. and Canada. “The theme of the NuSmile Summit is ‘Bringing You Next-Level Education’ to reflect our passion for helping pediatric dentists significantly enhance both the pediatric treatment their practices provide and the productivity and profitability their practices deliver.”

One of the Summit’s highlights will be the popular “Zirconia REINVENTED” hands-on workshop, in which Dr. David Salar and Dr. David Evans will provide comprehensive training in the art of placing zirconia crowns for every primary tooth. Other treatment courses include “Radiographic Findings of Pediatric Diseases” by Dr. Shailesh Kottil, “Sedation Protocol” by Dr. Steven Wilson and a “New Approaches to Pediatric Pulp Therapy” workshop by Dr. Jessica Lee.


The summit will be at the Grand Wyndham Resort in Clearwater Beach (recently named the “81 Beach in the U.S.” by Trip Advisor). Dentists may preregister at (800) 346-5133 or www.nu-smile.com.

(Source: NuSmile)

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‘Successful development of this selective lead inhibitor in the dental setting offers a proof of concept that selective targeting of keystone bacteria is promising for the design of new treatments.’

Ninety compounds with diverse scaffolds showing promise in the computer screening were purchased and tested for their ability to block biofilm formation by S. mutans in culture. Seven showed potent, low-micromolar inhibition, and one, #G43, was tested more extensively.

#G43 inhibited the activity of enzymes GtfB and GtfC, with micromolar affinity for GtfC gene, and it did not affect growth or viability of S. mutans and several other oral bacteria tested. Also, #G43 did not inhibit biofilm production by several other streptococcal species.

In the rat model of dental caries, animals on a low-sucrose diet were infected with S. mutans and their teeth were treated topically with #G43 twice a day for four weeks. The #G43 treatment caused very significant reductions in enamel and dentinal caries.

“In conclusion,” Wu and Velu wrote in their paper, “using structure-based design, we have developed a unique low-micromolar biofilm inhibitor that targets S. mutans Gfs through binding to key virulence factors, Gfs.”

Co-authors with Wu and Velu in the paper, “Structure-based discovery of small molecule inhibitors of cariogenic virulence,” are Qiong Zhang, Zhang Hua and Jing Zou, UAB department of pediatric dentistry; Bhavitavya Nijampatnam and Thao Nguyen, UAB department of chemistry; and Xia Cai and Suzanne M. Mischke, UAB department of microbiology. Funding came from National Institute of Dental and Craniofacial Research grants R01 DE022350 and R03 DE025058, and National Natural Science Foundation of China grant 81400502.