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Training professionals in the use of new radiations for the clinic

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Bacterial resistance to antimicrobials is an alarming situation and of current concern in the medical field. As a result, it's necessary to employ alternative methods to fight resistant microorganisms this is due to a variety of reasons, including self-medication, antibiotic abuse in livestock and even mutations of microorganisms. There for new technologies have emerged that allow us to combat them in an efficient, non-invasive and easy-to-apply ways, such as the application of light as harmless radiation to humans and highly effective for prevention of cross-infection. It has been found, for example, that the use of blue light applied to certain types of microorganisms causes cellular changes that result in their destruction through the release of free radicals which are highly detrimental to their survival but do not cause damage to the tissues of the organism carrying the pathogen. The objective of this work is to highlight these new technologies and to emphasize the importance of incorporating them into the current therapeutics through the training of professionals for their correct use and greater performance.

Biography

Dr. Luis Martin Cantarini holds a Doctorate in Dentistry, Professor at the JFK University and Adjunct Professor at the National University of La Plata in the biophysical subject. He leads several research groups and works as a Scientific Adviser for national and international companies, as well as lecturer of courses on Laser in Argentina and abroad. He is an authorized and hierarchical Laser Operator and President of the Argentine Laser Association. Recognized researcher in the field of lasers and also member of the Scientific Committee of Publications Abroad.

Ms. Carina Beatriz Zanelli is a student of dentistry at the Universidad Nacional de La Plata. She is in her third year of training and actively participates in research groups with special focus on therapeutics with Laser technology. She has attended discussions several national congresses where she has presented posters and research related to the use of the Laser technology.

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