

Wavelengths



Prof. Dr. Norbert Gutknecht
Editor-in-Chief

Dear readers,

As sunlight consists of different wavelengths and can only in this composition of wavelengths serve the vital biological requirements, future-oriented laser users have to learn that, although the application of a wavelength is important and good, the same wavelength cannot fulfil all biological and therapeutic demands. Based on this insight, the future of laser dentistry will be associated with the combination of specific wavelengths.

Success or failure of a laser treatment is inseparable from the selection of the correct wavelength. The better the biophysical knowledge of the laser user, the better he or she would be able to select the wavelength to target the intended tissue, triggering the desired interaction. Since there are different tissue types in the oral cavity—in areas of little space, such as in periodontal pockets—it may be necessary to involve two different wavelengths in the treatment planning. This knowledge is increasingly used by manufacturers of laser devices not only to extend the indication spectrum of their devices, but also to optimise specific treatment procedures by combining two or more wavelengths. The combination and application of different wavelengths will thus be one of the main themes at this year's international annual congress of the Deutsche Gesellschaft für Laserzahnheilkunde (German Society for Laser Dentistry) and will be reflected in lectures and workshops, as well as in the dental exhibition.

For the summer months ahead, I wish you much pleasure in enjoying the different wavelengths of sunlight.

Kind regards,

A handwritten signature in black ink, appearing to read 'Norbert Gutknecht'. The signature is fluid and cursive, with a large initial 'N' and 'G'.

Prof. Norbert Gutknecht
Editor-in-Chief