

<b>Title</b>	High (1 GHz) repetition rate compact femtosecond laser: A powerful multiphoton tool for nanomedicine and nanobiotechnology
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<b>Abstract</b>	Multiphoton tomography of human skin and nanosurgery of human chromosomes have been performed with a 1 GHz repetition rate laser by the use of the commercially available femtosecond multiphoton laser tomograph DermalInspect as well as a compact galvoscaning microscope. We performed the autofluorescence tomography up to 100 $\mu\text{m}$ in the depth of human skin. Submicron cutting lines and hole drillings have been conducted on labeled human chromosomes.
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