

Special Issue on
Engineering the Bone-Implant Interface

CALL FOR PAPERS

The world of osseointegration is experiencing the effects of a technological revolution: the introduction of new implant geometries and surfaces is changing the surgical protocols, making everything easier, faster, and more predictable. New surface treatments allow us to obtain micro- and nano-rough implant surfaces, characterized by a controlled micro- and nanotopography, able to geometrically stimulate and accelerate the bone healing processes: this can effectively enhance osseointegration, reducing healing times. These are the most important applications of tissue engineering on the world dental implants. At the same time, new implant macrotopographies can allow the clinicians to obtain a better primary stability and therefore to place implants in difficult contexts (such as areas of poor bone quality), with the possibility to anticipate loading and to obtain predictable results in the short and long term. Once again, the geometry and the concepts of tissue engineering have a strong impact on the world of oral implantology.

We solicit high quality, original research articles as well as review articles focused on the topic of “engineering the bone-implant interface: the effects of nano-, micro- and macrotopography on the osseointegration of dental implants.”

Potential topics include but are not limited to the following:

- ▶ New implant nano- and microtopographies and their effects on osseointegration: *in vitro* studies on cell cultures, *in vivo* animal histologic/histomorphometric studies, and *in vivo* human histologic/histomorphometric studies and clinical studies
- ▶ New implant macrotopographies and their effects on osseointegration: *in vitro* studies, *in vivo* animal histologic/histomorphometric studies, and *in vivo* human histologic/histomorphometric studies and clinical studies
- ▶ New implant macrotopographies and their effects on implant stability: clinical studies with short- to long-term follow-up

Authors can submit their manuscripts through the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/bmri/tissue.engineering/ebii/>.

Papers are published upon acceptance, regardless of the Special Issue publication date.

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