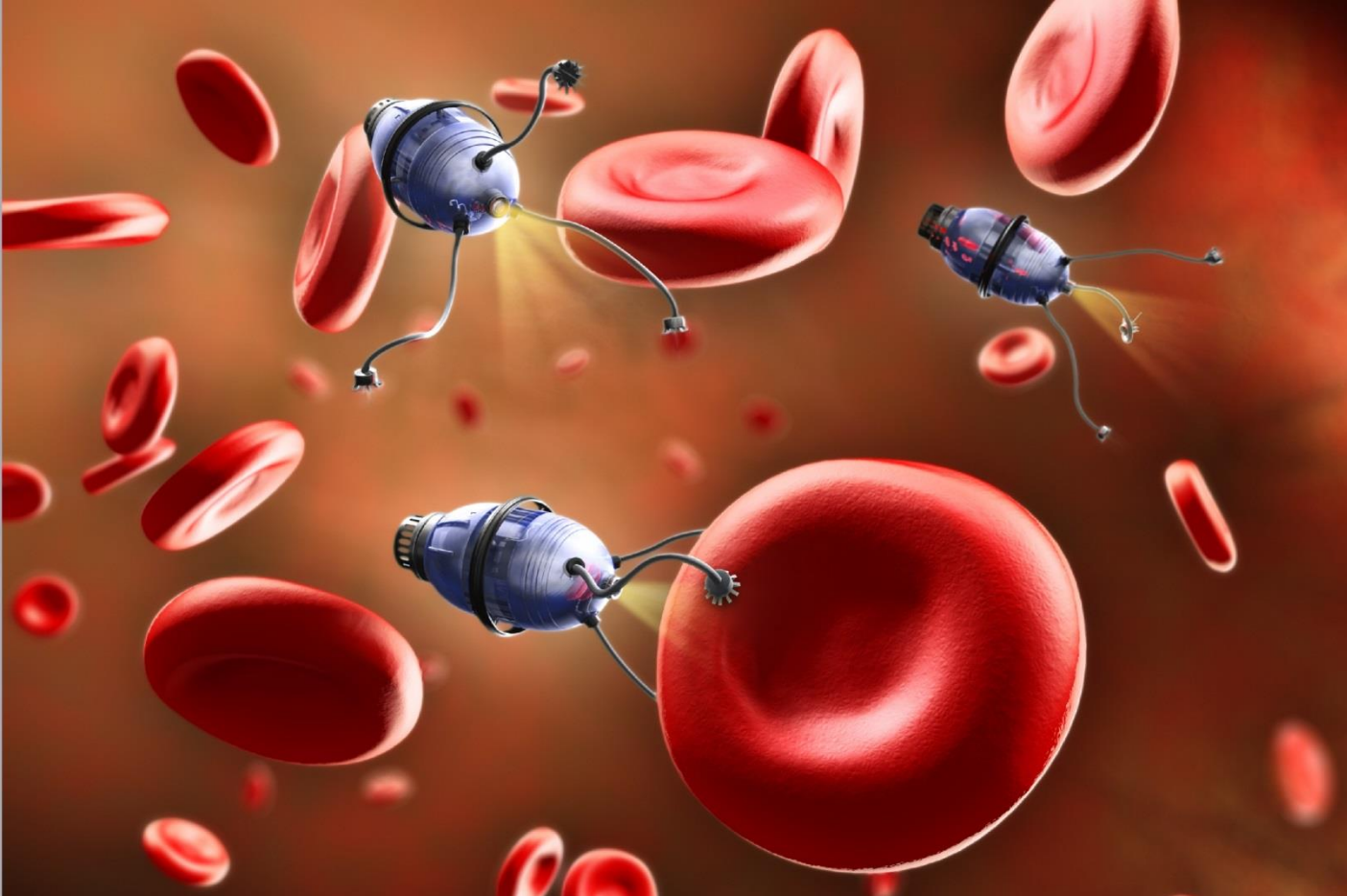


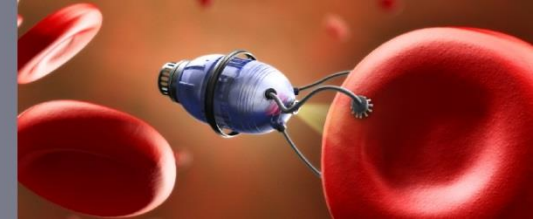
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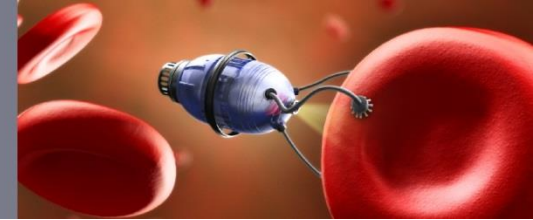
## Resorbable implants for use in dental surgery



■ *The problem*



There is considerable need for reconstruction of bone loss in dental and maxillofacial surgery, particularly before dental implantation in order to ensure support for implants

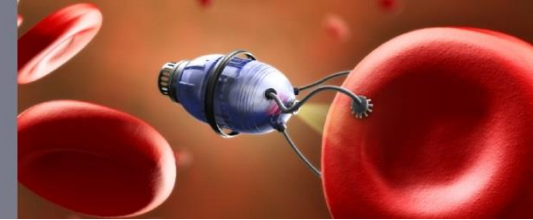


## ■ *Solution*

Currently there are two approaches to this problem:

1. A traditional one, which comprises of a two stage procedure: bone reconstruction followed by implantation
2. The recently developed „ring-graft” procedure

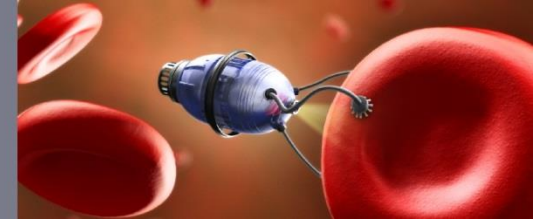
**The present solution is a hybrid combining artificial (commercial) bone implant materials with the „ring-graft” technique**



## ■ *Ring-Graft technique*

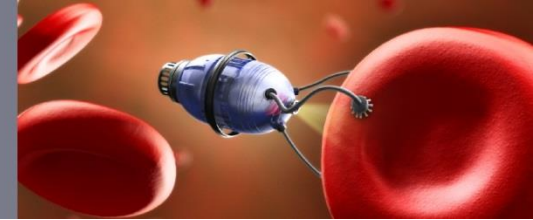
The „Ring-Graft” is a surgical technique for restoring maxillary incisors using immediate implants and autogenous bone graft in the form of “bone rings” harvested from the chin.

- **Advantages:** one stage procedure for implantation
- **Disadvantages:** invasive and painful procedure with an upper limit of 4 grafts taken in one procedure



■ *Advantages of the present hybrid model:*

- one-step procedure, in contrast to the two stage classical approach
- reduced invasiveness, *c.f.* Ring-Graft technique
- no limit with respect to ring utilization *c.f.* the Ring-Graft technique

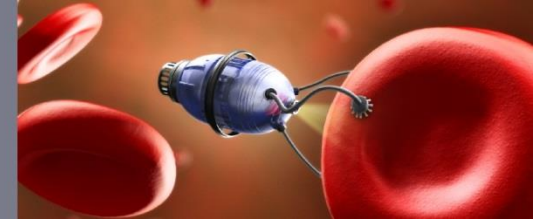


## ■ *Market data: Dental Implants*



### **Facts and Figures on Dental Implants**

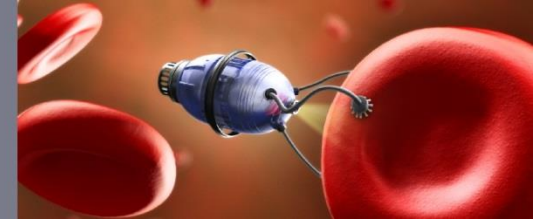
- More than 30 million Americans are missing all their teeth in one or both jaws
- 15 million people in the U.S. have crown and bridge replacements for missing teeth
- 3 million have implants and that number is growing by 500,000 a year
- 10 percent of all US dentists place implants (a figure which is increasing)
- The estimated US and European market for dental implants is expected to reach \$4.2 billion by 2022
- The success rate of dental implants has been reported in scientific literature as 98%
- The American Association of Oral and Maxillofacial Surgeons found that 69% of adults ages 35 to 44 have lost at least one permanent tooth to an accident, gum disease, a failed root canal, or tooth decay.
- By age 74, 26% of US adults will have lost all of their permanent teeth.



## ■ *Project status*

- Surgical procedure developed
- Project solution successfully tested in a big-animal model
- Professionally conducted and completed pre-clinical phase



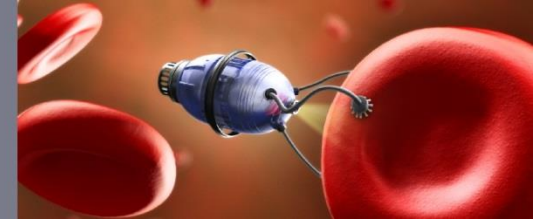


## ■ *IP position and next steps*

- A PCT application, describing the methodology, has been filed
- No apparent FTO issues
- Regulatory status and path has been determined
- A start-up company is being formed to commercialise the technology
- A development plan has been created
- The company will be seeking investment for clinical PoC and for eventual market roll-out of the technology







✉ **Contact**

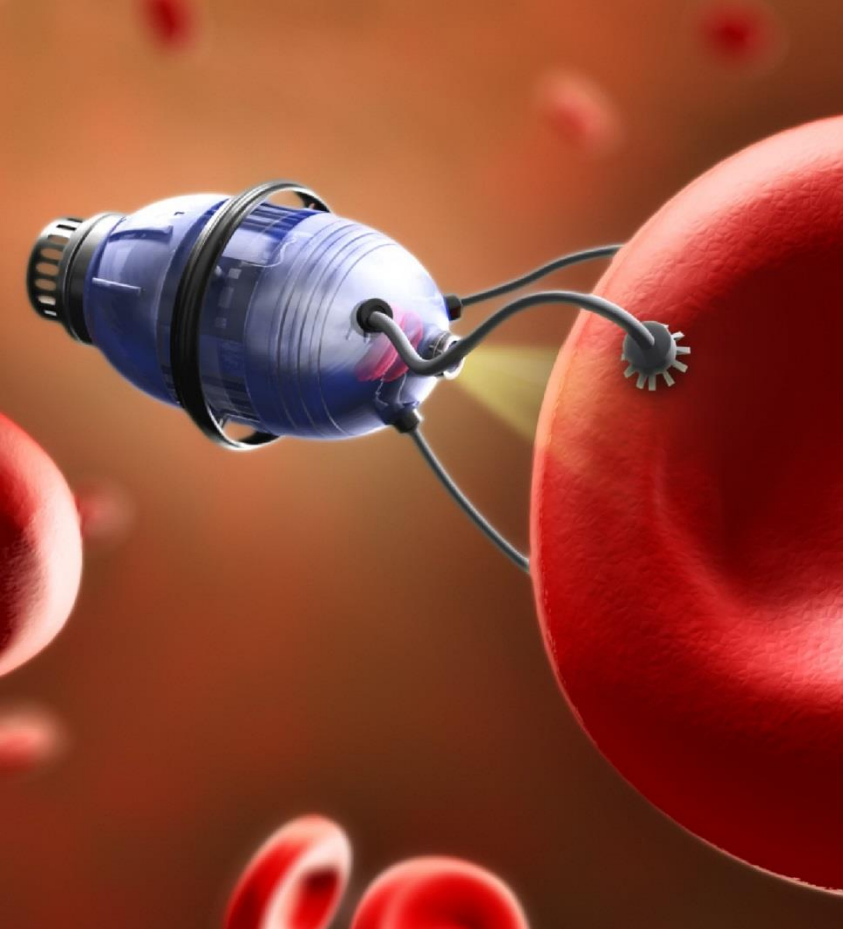


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Thank you