About OMICS Group

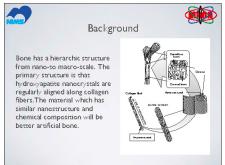
OMICS Group International is an amalgamation of Open Access publications and worldwide international science conferences and events. Established in the year 2007 with the sole aim of making the information on Sciences and technology 'Open Access', OMICS Group publishes 400 online open access scholarly journals in all aspects of Science, Engineering, Management and Technology journals. OMICS Group has been instrumental in taking the knowledge on Science & technology to the doorsteps of ordinary men and women. Research Scholars, Students, Libraries, Educational Institutions, Research centers and the industry are main stakeholders that benefitted greatly from this knowledge dissemination. OMICS Group also organizes 300 International conferences annually across the globe, where knowledge transfer takes place through debates, round table discussions, poster presentations, workshops, symposia and exhibitions.

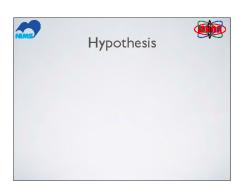
About OMICS Group Conferences

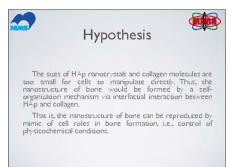
OMICS Group International is a pioneer and leading science event organizer, which publishes around 400 open access journals and conducts over 300 Medical, Clinical, Engineering, Life Sciences, Phrama scientific conferences all over the globe annually with the support of more than 1000 scientific associations and 30,000 editorial board members and 3.5 million followers to its credit.

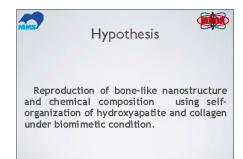
OMICS Group has organized 500 conferences, workshops and national symposiums across the major cities including San Francisco, Las Vegas, San Antonio, Omaha, Orlando, Raleigh, Santa Clara, Chicago, Philadelphia, Baltimore, United Kingdom, Valencia, Dubai, Beijing, Hyderabad, Bengaluru and Mumbai.

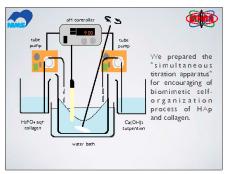


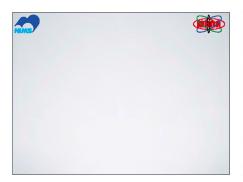


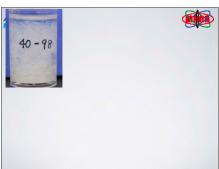


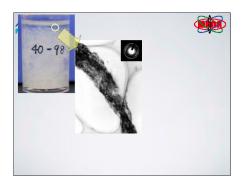




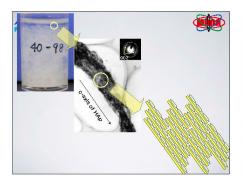


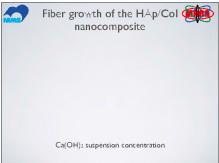




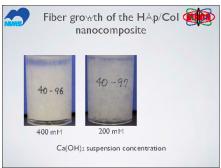


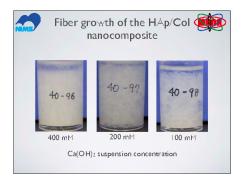








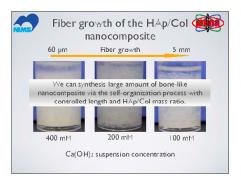


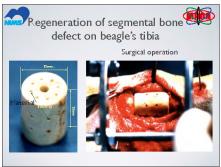














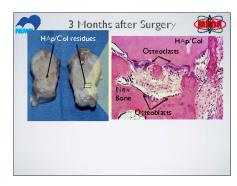


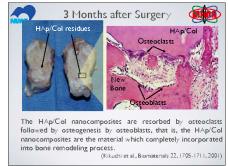












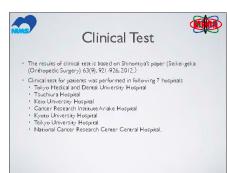


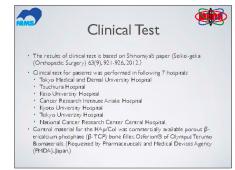




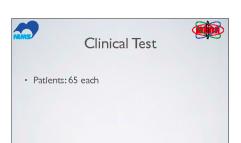


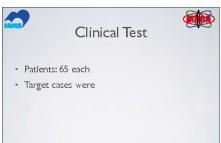


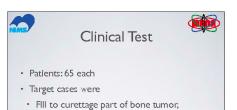


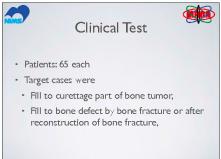


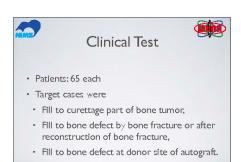




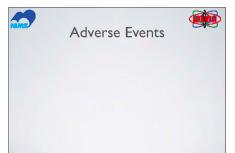


















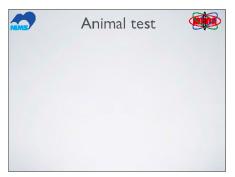


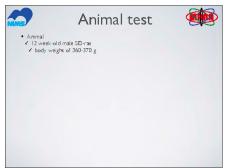
- No treatments were needed and the inflammation cured rapidly.
- · These were not allergic reactions for collagen.
- · We speculated that these inflammations were "good" biological reactions that tissues prepared to turn into regeneration process. (In fact, with antiinflammatory agents, remodeling process stops.)

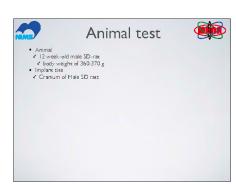


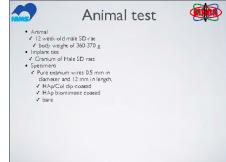


HAp/Col Coating on Titanium for Subperiosteum Anchorage Device for Orthodontics

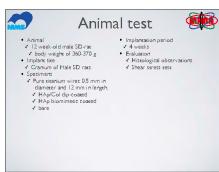


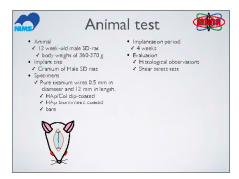


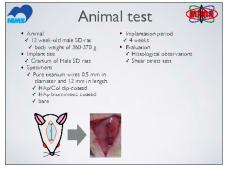


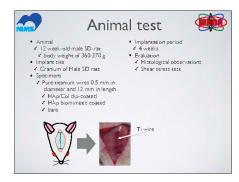






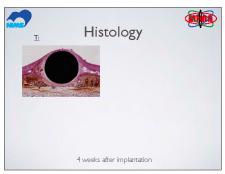


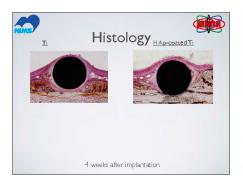




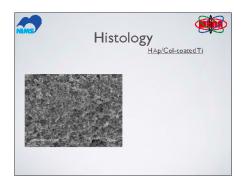


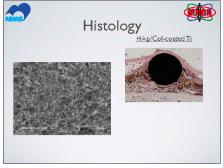


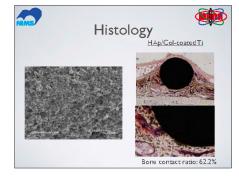




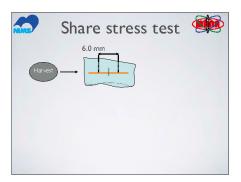


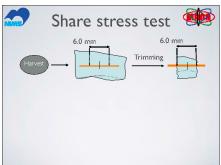


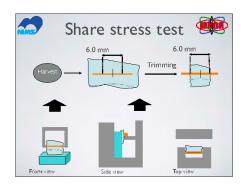


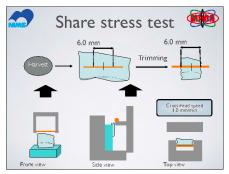


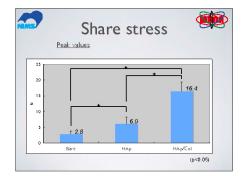




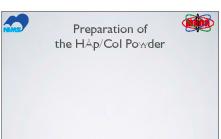


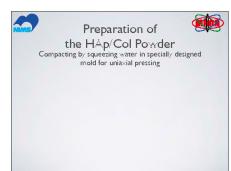




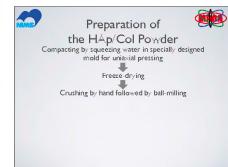


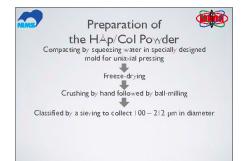


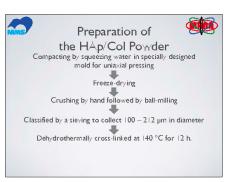


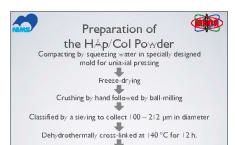






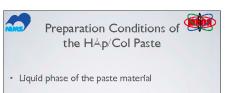




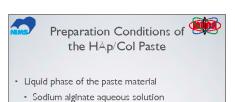


Treated by 20 mmol/dm 3 CaCl $_2$ solution at Powder/liquid ratio \mid g/dm 3 to adsorb Ca on powder.

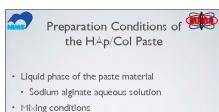




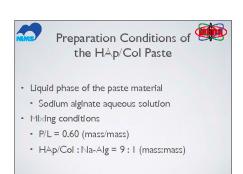




Mixing conditions

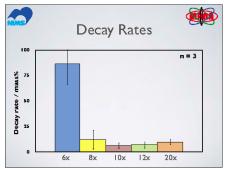


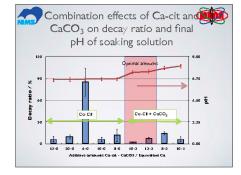
P/L = 0.60 (mass/mass)







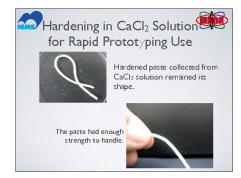


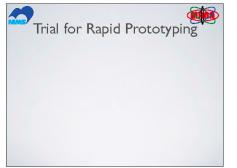








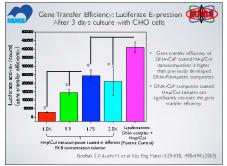


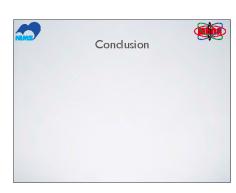


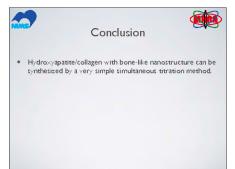


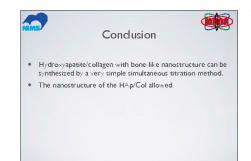


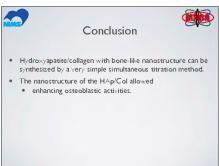






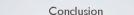














- The nanostructure of the HAp/Col allowed
- · enhancing osteoblastic activities.
- supporting osteoclastic differentiation through osteoblasts

synthesized by a very simple simultaneous titration method.

· substituting it with new bone by bone remodeling process.







Conclusion



 Hydroxyapatite/collagen with bone-like nanostructure can be synthesized by a very simple simultaneous titration method.

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- The nanostructure of the HAp/Col allowed
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- · substituting it with new bone by bone remodeling
- Biomimetic nanostructure with controlled multi-scale structure can allow cell-free regeneration of large bone defect, even better than to β-TCP in the human clinical trial.



Conclusion

 HAp/Col coating showed rapid osteoconduction followed by osseointegration to substrate titanium. It realized quick bonding for subperiosteum anchorage device for orthodontics and implant

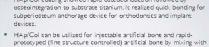


Conclusion



- . HAp/Col coating showed rapid osteoconduction followed by osseointegration to substrate titanium. It realized quick bonding for subperiosteum anchorage device for orthodontics and implant
- . HAp/Col can be utilized for injectable artificial bone and rapidprototyped (fine structure controlled) artificial bone by mixing with sodium alginate or other hydrogel formable organic substances, such as collagen.

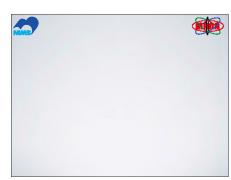


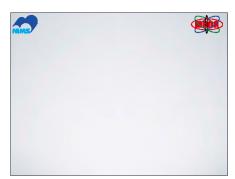


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