Columbia University announces break-through in tooth regeneration

Daniel Zimmermann

NEW YORK, USA/LEIPZIG, Germany: Dental implants could soon become a secondary choice for replacing natural teeth. According to the University of Columbia College of Dental Medicine at Columbia University in New York, three-dimensional scaffolds infused with bone cells could yield an anatomically correct tooth in as soon as nine weeks once implanted. The new technique, developed by Columbia University professor Jeremy Mao, has also shown potential to regenerate periodontal ligaments and has also shown potential to regenerate periodontal ligaments and hard tissues. The study, which has been tested on animal models, is moving the treatment process directly into the body where the tooth is grown under laboratory conditions and implanted once it has matured. Mao’s technique provides a break-through in tooth regeneration.

Previous research on tooth regeneration has been focusing on harvesting stem cells directly on dental implants to improve osseointegration or outside the body where the tooth is grown under laboratory conditions and implanted once it has matured. Mao’s technique is a significant advancement as it allows for the potential to regenerate teeth in a more natural and efficient manner.

Cleaning teeth twice a day can prevent heart attack

People who have poor oral hygiene have an increased risk of heart disease compared to those who brush their teeth twice a day. That’s according to research published in the British Medical Journal. There has been increased interest in links between heart problems and gum disease over the past 20 years. While it has been established that inflammation in the body (including mouth and gums) plays an important role in the build up of clogged arteries, this is the first study to investigate whether the number of times individuals brush their teeth has any bearing on the risk of developing heart disease.

The authors, led by Professor Richard Watt from University College London, analysed data from more than 11,000 adults who took part in the Scottish Healthy Survey. The research team analysed data about lifestyle behaviours such as smoking, physical activity and oral health routines. Individuals who brushed their teeth twice a day had a 70% lower risk of developing heart disease compared to individuals who brushed their teeth once a day, although the overall risk remained quite low. Professor Watt says, ‘Our results confirmed a significant association between oral hygiene and the risk of cardiovascular disease — furthermore inflammatory markers were significantly reduced in individuals who brushed their teeth twice a day’.

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3M ESPE new composite takes restorative dentistry to new heights

5M ESPE announced its newest universal restorative Filtek™ Z350 XT Universal Restorative, which was launched in Middle East and was supported by scientific events in Saudi Arabia, UAE, Lebanon and Kuwait. The scientific event was a great success and there was high attendance of dentists.

The scientific events held in the Middle East and were attended by dentists.

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Did you see the STARS Twinkle in Alexandria?

By all measures, figures and Statistics, the Stars meeting (AOA 2010) was the most successful Implantology meeting the history of the Middle East and Africa.

The AOA was honored to have the bright est stars in the field of oral implantology gathering to achieve its aim of spreading the knowledge and getting people together.

The Super Star, Dr. Henry Salama, a main member of Team Atlanta- conducted a half day course "Minimally Invasive Implant protocols and Management course "Minimally Invasive Implant protocols and Management course" which received a magnificent applaud by the attendants who reached 2000 registrations on the first day.

"A key consideration in tooth regeneration is finding a cost-effective approach that can translate into therapies for patients who can’t afford or who aren’t good candidates for dental implants,” Dr. Mao told Dental Tribune Asia Pacific. “Our findings represent the first report of regeneration of anatomically shaped tooth-like structures in vivo,”

The scientific program hosted other stars like Dr. Gerald A. Nimick, Prof. Nahil Barakat, Dr. Mohamed Hassan, Prof. Dr. Ates Par, the ICOI Executive Director coming specially to reward our fellowship recipients.

Dr. Henry Salama: “I would like to personally thank all those who made this meeting a memorable one. It was a privilege to spend time with our colleagues and friends who have contributed so much to the field of implantology.

Whether you were there or not, don’t miss the coming event. Mark your calendar for the AOA 2012 great event: Stars Beyond the Horizon. April 25-27, 2012

The AOIA was honored to have all the AOA Academy members for a great and successful meeting in Alexandria, Egypt, in March 2010.