4th International Congress on Craniofacial Osteobiology & Distraction

Joint World Congress of Asia Pacific & Paris Distraction Conferences

May 5-9, 2014

Bandos Island, Republic of Maldives

www.distraction2014.com
All-on-4™
The efficient treatment concept with immediate loading.

Wide variety of prosthetic options with maximum function and fit.

Reduced need for vertical bone augmentation.

High stability with only four implants.

Maximum bone-to-implant contact and preservation of vital structures.

All-on-4 was developed to provide clinicians with an efficient and effective restoration using only four implants to support an immediately loaded full-arch prosthesis. Final solutions include both fixed and removable prostheses such as NobelProcera Implant Bridge Titanium or Implant Bar Overdenture. The tilted posterior implants help avoid relevant anatomical structures, can be anchored in better quality anterior bone and offer maximum support of the prosthesis by reducing cantilevers. They also help eliminate the need for bone grafting by increasing bone-to-implant contact. All-on-4 can be planned and performed using the NobelGuide treatment concept, ensuring accurate diagnostics, planning and implant placement.

Nobel Biocare is the world leader in innovative and evidence-based dental solutions. For more information, contact a Nobel Biocare Representative at 1-800-22-9998 or visit our website.

www.nobelbiocare.com
Welcome from the Congress President

Dear Colleagues & Friends,

Bonjour!

Cranio-Maxillo-Facial Surgery is evolving rapidly. Newer technologies in Distraction Osteogenesis and Tissue Engineering are being brought into limelight almost daily. Our Paris Distraction Conferences and those of the Asia-Pacific always provided up-to-date scientific education in this field.

This time, I am happy to announce the 4th International Congress on Craniofacial Osteobiology & Distraction as a joint forum for surgeons to exchange information and technology. Well-known experts in this highly specialized field of surgery will share their cutting-edge knowledge. All those working in the field of cranio-maxillo-facial surgery, ranging from senior specialists, experts to trainees will present their latest works.

The venue - a beautiful island - gives a unique opportunity for scientific interactions in a most relaxing atmosphere. The Organizing Committee and myself invite you to the Maldives and wish you a fruitful Congress!

See you soon in May 2014!

Prof. Patrick Diner
Welcome from the Minister of Health

I wish to extend my best wishes and all support for the “4th International Congress on Craniofacial Osteobiology & Distraction” which is going to be held on May 5-9, 2014 at Maldives. It gives me great pleasure to note that this congress will enable renowned experts in the field to exchange experiences and share advancing knowledge and technological developments in the field.

It is heartening to note that with the expertise in this field a number of people have benefited immensely and it has enabled them to lead more inclusive lives in different societies.

I take great pleasure to welcome distinguished and pioneering speakers and delegates as well the Congress organizers and their families to Maldives. I wish them a pleasant stay and successful outcomes for the Congress.

I hope that the local doctors and health professionals would find this congress equally useful and get good opportunity to learn from the esteemed speakers. I am confident that the congress will prove invaluable towards the exchange of new ideas and also be a stimulus to greater collaborative endeavors.

My congratulations go to the Congress team, Bandos island resort and all those involved in this initiative and making it a memorable success. I wish the meeting every success.

Dr. Ahmed Jamsheed Mohamed
**Congress Overview**

Pre-conference : May 5 & 6, 2014  
Main Congress : May 7 - 9, 2014

**Program Structure :**
- Pre-conference Workshops
- 3 Limited Attendance Clinics
- 2 Hands-on Workshops
- 12 Scientific/Plenary Sessions
- Round table discussions with experts/ Brainstorming Master Courses

**Dates to remember :**
- Early Bird Registration ends - 31st January, 2014
- Last Date for Abstract Submission - 10th March, 2014
- Last Date for Notification of Abstract Acceptance - 31st March, 2014

**Organizing Committee**

Prof. Patrick Diner  
Congress President

Prof. Piet Haers  
Scientific Chairman

Prof. Manlio Galie  
Int’l Liaison Officer

Prof. Lim K Cheung  
Scientific Advisor

Prof. Bodo Hoffmeister  
Scientific Advisor

Prof. S.M. Balaji  
Organizing Chairman

Prof. Eric Arnaud  
Congress Co-ordinator

Prof. Anand Kini  
Scientific Co-Chair

Prof. George Sandor  
Organizing Co-Chair
Topics to be discussed

- Bioreactor cultivation of TMJ condyle
- Scaffold free tissue engineered periosteum
- Regenerating bone from tooth follicle: Current advances
- Transport distraction vs BMP
- Custom-ordered jaw: Directions for future
- Monobloc distraction
- Fibroin scaffold for craniofacial defects
- Bio-printing craniofacial reconstruction scaffolds
- Regenerating teeth-jaw complex: challenges
- Tooth as scaffold
- Management of neonatal micrognathia
- Regeneration of jaw with bio-resorbable composites
- Customization of bio-scaffolds for jaw regeneration
- Bio-root engineering for osseointegration
- Internal curvilinear distraction
- Neobone formation along bone-dental implant interface
- Rapid neo-bone formation for jaw defects
- Clinical utilization of autologous marrow mesenchymal stem cell
- Osteogenesis enhancing bio-cryoprecipitate glue for jaw discontinuity defects
- Cranial vault distraction
- Augmenting osteogenesis in distraction
- Injectable tissue engineered bone
- Resorbable scaffolding for osteoregeneration
- Facial reconstruction by biosurgery
- Bio-engineered soft tissue for head and neck reconstruction
- Tooth from cell culture
- Lipoaspirate mediated craniofacial reconstruction
- Neural tissue engineering for craniofacial defects
- Impacted third molars - An answer to autologous stem cell source
- Bioresorbable distraction devices
- Scarless skin and mucosal regeneration for large craniofacial defects
- CAD/CAM based scaffolds in the reconstruction of mandibular condyle bone defects
- Nano-scaffolding material for stem cell delivery in craniofacial tissues
- 3D vector control in distraction
- Dental pulpal stem cell aided craniofacial reconstruction
- Human skeletal muscle mimics from protein-engineered biomaterials
- TMJ regeneration
- Reconstruction of the maxilla
## Registration

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Registration fee includes:
- Refreshments - Morning (11.30 a.m : May 7th to May 9th)
- Participation in scientific sessions
- Participation certificate
- Welcome Reception
- Entrance to the exhibition
- Opening Ceremony

Accompanying person fee includes:
- Opening Ceremony
- Welcome Reception

Social Programs:
- Opening Ceremony: 7th May 2014
- Welcome Reception: 7th May 2014
- Gala Dinner: **Kuda Bandos Grand Beach Party**
  - USD 200, 8th May 2014, 7:00 p.m.

## Abstract

**Call for Papers & Posters**

Last Date for Abstract Submission **10th March 2014**
Last Date for Notification of Abstract Acceptance **31st March 2014**

For Registration & Abstract Submission: [www.distraction2014.com](http://www.distraction2014.com)

For queries - Registration Team: Ms. Muna Latheef, Scientific Team: Ms. Nishreen Azeez

E-mail: info@distraction2014.com
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Invited Speakers

Adi Rachmiel, Israel
- External vs. Internal distraction in treatment of obstructive sleep apnea in craniofacial anomalies
- Maxillary distraction in cleft

Albert van der Westhuijzen, South Africa
- Palatal distraction - to the rescue

Amera Alkaisi, Iraq
- Dental pulp stem cells - A promising bone tissue engineering concept in distraction osteogenesis

Arash Khojasteh, Iran
- Application of the mesenchymal stem cells in treating alveolar defects

Arnaud Picard, France
- Management of rare congenital anomalies

Balaji SM, India
- Simultaneous maxillary and mandibular distraction
- Reconstruction of mandible by tissue engineering

Bodo Hoffmeister, Germany
- Established indication for distraction osteogenesis in maxillofacial surgery

Cassio Eduardo Raposo do Amaral, Brazil
- Monobloc fronto-facial advancement for syndromic craniosynostosis
Catherine Tomat, France
- Silver Russel syndrome

Cesar Guerrero, Venezuela
- Major mandibular reconstruction with intraoral bone transport
- Intraoral management of unilateral craniofacial microsomia
- Intraoral 3-D maxillary augmentation in cleft with distraction

Chang Sung Kim, Korea
- Osteogenic and adipogenic potentials of stromal cells & synthetic scaffolds for alveolar bone regeneration

Charles Davis, New Zealand
- Frontobasal suture distraction and spring expansion for cranial sagittal suture

Edouard Coeugniet, France
- Midfacial distraction without osteotomy using a transfacial pin and external devices

Eric Arnaud, France
- Monobloc Distraction

George Sandor, Finland
- Stem cells in canio-maxillofacial reconstruction: A clinical reality

Ghali GE, USA
- Midface distraction

Jong Woo Choi, Korea
- One-piece frontoorbital advancement with distraction for craniosynostosis

Jörg Wiltfang, Germany
- Pediatric sleep apnea in craniofacial malformations
Marianela Gonzalez, USA
- Osteodistraction of narrow maxilla

Marie Tolarova, USA
- Etiology of congenital craniofacial anomalies

Marcelo Melo Soares, Brazil
- Stem cells bone regeneration
- Pediatric craniofacial distraction

Manlio Galie, Italy
- Adipose derived stem cells
- Management of neonatal micrognathia

Kurt Butow, South Africa
- Distraction of cleft maxilla

Leena Ylikontiola, Finland
- Distractor guide to improve posterior cranial vault distraction osteogenesis

Lian Ma, China
- Bone grafting

Lim K Cheung, Hong Kong
- Distraction osteogenesis in correction of obstructive sleep apnea
- Bone marrow stem cells for sinus augmentation in atrophic maxilla

Luiz H. Marinho Moreira, Brazil
- Alveolar distraction - Are we there yet?

Majeed Rana, Germany
- Use of computer-assisted surgery in distraction osteogenesis

Marianela Gonzalez, USA
- Osteodistraction of narrow maxilla
Mirek Tolar, USA
- Early effects of distraction and oxygen supply on gene expression of human periodontal ligament mesenchymal stem cells

Masaharu Mitsugi, Japan
- Auto-tooth bone graft

Michael Carstens, USA
- Reconstruction of facial bone with recombinant technology

Romulo Guerrero, Ecuador
- Customizing craniofacial distractors

Nicolai Adolphs, Germany
- Long term research - craniofacial distraction

Patrick Diner, France
- Current concepts of distraction

Rei Ogawa, Japan
- Mechanotherapy / mechanobiology for a new era in medicine – biological mechanisms of distraction osteogenesis

Peter Kessler, The Netherlands
- Periosteal elevation - from the lab to clinical application

Rolf Ewers, Austria
- Osseodistraction of atrophic maxilla and mandible

Russell Reid, USA
- Biomimetic approach for segmental reconstruction
Thomas Engstrand, Sweden
- Biomaterial & biologics in craniofacial reconstruction

Thomas Lambrecht, Switzerland
- How to distract doctors at the opera

Yi Zhang, China
- Distraction osteogenesis for traumatic defects

Wolfgang Schaden, Austria
- Blending stem cell therapy and mechanotherapy for craniofacial deformities

Victor Leung, Hong Kong
- IVD Joint regeneration: lessons for TMJ Regeneration

Zheng Li-Wu, Hong Kong
- Biochemical and biomechanical modulation of distraction osteogenesis

Shinji Kobayashi, Japan
- Device to control distraction distance and vector in craniofacial distraction

Songling Wang, China
- Bio-root based functional tooth regeneration

Yoshitaka Eguchi, Japan
- An injectable composite material containing BMP-2 shortens the period of distraction osteogenesis in vivo

Songling Wang, China
- Bio-root based functional tooth regeneration

Many more to join...
Accommodation

Bandos Island Resort

**Standard Rooms:**

**USD 220 - BB***

Standard Rooms with their simplistic elegance and modern amenities offers highest quality luxury and tranquility for your comfort and satisfaction.

**Deluxe Rooms:**

**USD 290 - BB***

Deluxe Rooms at Bandos are spacious & inviting, close to the beach, promising to make your stay pleasantly memorable.

**Garden Villas:**

**USD 320 - BB***

Garden Villas are elegantly furnished wooden chalets with their own private patio, neatly trimmed hedges and flower gardens.

**Jacuzzi Beach Villas:**

**USD 400 - BB***

Jacuzzi Beach Villas fashioned as duplex, provides a pleasant view of the beach front with an open-air Jacuzzi & its thatched roof shade.

**BB*** - Bed and breakfast

**For accommodation booking:**

[www.distraction2014.com](http://www.distraction2014.com)

For queries - Accommodation Team: Ms. Arifa Ahmed, info@distraction2014.com

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**Activities @ Bandos Island Resort**

- Diving & Snorkeling
- Big game fishing
- Night fishing and barbeque
- Island Hopping
- Windsurfing
- Water skiing
- Banana boat riding
- Kneeboard
- Jet skiing
- Glass-bottom boat sailing
- Catamaran sailing
- Parasailing
- Wakeboard
- Fun tubes
- Sunset Dolphin cruise
- Canoeing….excitements are endless!
Reconstruction Envisioned

What fascinates you about the body is also what drives us. That’s why we’re always pushing the boundaries of engineering to make products that help you keep the human form as glorious as it was intended.

To learn more about our products, please visit us at biometmicrofixation.com or contact your local distributor.

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