

## Basic research

### **OC-BR-001 (629VW) Association of implant migration and peri-implant micro-angiogenesis – a $\mu$ CT study in the rat-tail model**

HÜFNER Mira (Düsseldorf, GERMANY), RAUCH Nicole (Düsseldorf, GERMANY), SCHWARZ-HERZKE Beryl (Düsseldorf, GERMANY), SCHWARZ Frank (Frankfurt Am Main, GERMANY), DRESCHER Dieter (Düsseldorf, GERMANY), BECKER Kathrin (Düsseldorf, GERMANY)

### **OC-BR-002 (SNCK7) Histological and histomorphometric analysis of free gingival graft after mechanical expansion: a study in dogs**

MAGRIN Gabriel (Florianopolis, BRAZIL), BEZ Leonardo (Florianopolis, BRAZIL), MAGINI Ricardo (Florianopolis, BRAZIL), AGUIAR GREGHI Sebastião Luiz (Bauru, BRAZIL), BENFATTI Cesar (Florianopolis, BRAZIL)

### **OC-BR-003 (E0K6X) Macrophage polarization in peri-implantitis lesions**

GALARRAGA VINUEZA Maria Elisa (Quito, EQUADOR), Obreja Karina (Frankfurt, GERMANY), BEGIC Amira (Frankfurt, GERMANY), SADER Robert (Frankfurt, GERMANY), RAMANAUSKAITE Ausra (Frankfurt, GERMANY), MAGINI Ricardo (Florianopolis, BRAZIL), SCHWARZ Frank (Frankfurt, GERMANY)

### **OC-BR-004 (BLBC4) Novel osteogenic, antimicrobial biomimetic GBR solution for peri implants tissue engineering: An in vitro research**

NELOGI Santosh (Belgaum, INDIA)

### **OC-BR-005 (1REAN) Comparison of measurement consistency with various CBCT settings in the maxillary anterior teeth: Cadaver study**

TANAKA Yoshiatsu (Indianapolis, USA), FERRY Katherine (Indianapolis, USA), VINICIOUS Dutra (Indianapolis, USA), HAMADA Yusuke (Indianapolis, USA)

### **OC-BR-006 (1LHEZ) Dynamic contrast-enhanced magnetic resonance imaging for monitoring angiogenesis during bone regeneration – a randomized pilot study in rabbits**

RIGHESSE Leonardo (Mainz, GERMANY), JUNG Junho (Seoul, REPUBLIC OF KOREA), TEREKHOV Maxim (Würzburg, GERMANY), GÖTZ Herman (Mainz, GERMANY), ACKERMANN Maximilian (Mainz, GERMANY), EMRICH Tilman (Mainz, GERMANY), MÜLLER Werner (Mainz, GERMANY), ROJAS Javier patricio (Santiago, CHILI), AL-NAWAS Bilal (Mainz, GERMANY)

### **OC-BR-007 (CK8LY) TO EVALUATE AND COMPARE THE EFFICACY OF GLYCINE AND CHITOSAN POWDER TO REGAIN THE OSSEO-CONDUCTIVITY OF CONTAMINATED TITANIUM SURFACES :AN IN-VITRO STUDY**

DONGRE Divyesh (Belgaum, INDIA), RAYANNAVAR Sounyala (Belgavi, INDIA)

**OC-BR-008 (GAEFM) Mechanical stability of zirconia oral implants: A systematic review and meta-analysis.**

PIERALLI Stefano (Freiburg, GERMANY), BETHKE Annalena (Berlin, GERMANY), KOHAL Ralf-Joachim (79106 Freiburg, GERMANY), VACH Kirstin (Freiburg, GERMANY), SPIES Benedikt Christopher (Freiburg, GERMANY)

**OC-BR-009 (I1HVN) Estimation of dental implant stability using quantitative ultrasound measurements**

EMMANUEL Gouët (Paris, FRANCE), VAYRON Romain (Valenciennes, FRANCE), HAIAT Guillaume (Creteil, FRANCE)

**OC-BR-010 (DM341) Compared osseointegration of a novel zirconia material and titanium on blasted implants in dogs**

CHACUN Doriane (Lyon, FRANCE), LAFON Arnaud (Lyon, FRANCE), COURTOIS Nicolas (Sallanches, FRANCE), MARGOSSIAN Patrice (Marseille, FRANCE), GRITSCH Kerstin (Lyon, FRANCE), GROSGOGÉAT Brigitte (Lyon, FRANCE)

**OC-BR-011 (HY2B5) DIFFERENT TYPE OF CEMENT EXCESS REMOVAL POSSIBILITIES ON IMPLANT-SUPPORTED RESTORATIONS**

ŠINKŪNAITĖ Eglė (Kaunas, LITHUANIA), MALINAUSKAITĖ Dominyka (Vilnius, LITHUANIA), VINDAŠIŪTĖ-NARBUTĖ Eglė (Vilnius, LITHUANIA), PUIŠYS Algirdas (Vilnius, LITHUANIA), ANDRIJAUSKAS Rolandas (Vilnius, LITHUANIA)

**OC-BR-012 (MFXZE) Comparative quantification of the 3D microarchitecture of human alveolar bone and anterior iliac crest in autologous bone transplants – A synchrotron radiation  $\mu$ -CT study**

ROTHWEILER René Marcel (Freiburg, GERMANY), BORTEL Emely (Berlin, GERMANY), HESSE Bernhard (Berlin, GERMANY), FRETWURST Tobias (Freiburg, GERMANY), NAHLES Susanne (Berlin, GERMANY), STRICKER Andres (Freiburg, GERMANY), NELSON Kajta (Freiburg, GERMANY), GROSS Christian (Freiburg, GERMANY)

**OC-BR-013 (GONES) Immune-instructive scaffolds modulating inflammation to promote bone regeneration**

GURZAWSKA-COMIS Kasia (Birmingham, UK), SULIMAN Salwa (Bergen, NORWAY), MIESZKOWSKA Anna (Gliwice, POLAND), WISTRAND Anna finne (Stockholm, SWEDEN), DIRSCHEL Kai (Copenhagen, DENMARK), JØRGENSEN Bodil (Copenhagen, DENMARK), ULVSKOV Peter (Copenhagen, DENMARK), MUSTAFA Kamal (Bergen, NORWAY)

## Clinical innovations

### **OC-CI-001 (H7OCD) Two short implants versus one short implant with a cantilever - 5-year results of a randomized clinical trial**

STRAUSS Franz (Zurich, SWITZERLAND), WOLLEB Karin (Zurich, SWITZERLAND), SCHELLENBERG Roman (Zurich, SWITZERLAND), JUNG Ronald (Zurich, SWITZERLAND), HÄMMERLE Christoph (Zurich, SWITZERLAND), THOMA Daniel (Zurich, SWITZERLAND)

### **OC-CI-002 (78ZHP) Bone changes above and below the implant-abutment junction of subcrestally placed implants after 1 year post-delivery from a RCT.**

LINKEVIČIUS Rokas (Kaunas, LITHUANIA), ALKIMAVICIUS Jonas (Kaunas, LITHUANIA), PUIŠYS Algirdas (Vilnius, LITHUANIA), VALANTIEJIENĖ Valda (Kaunas, LITHUANIA), LINKEVIČIUS Tomas (Vilnius, LITHUANIA)

### **OC-CI-003 (X5VKA) Accuracy of dynamic implant navigation in partially- and fully-edentulous models: a novel NO-invasive x-ray free method**

BORUSEVICIUS Rokas (Vilnius, LITHUANIA), RUTKUNAS Vygandas (Vilnius, LITHUANIA), SIMONAITIS Tomas (Vilnius, LITHUANIA), GENDVILIENE Ieva (Vilnius, LITHUANIA), PLETKUS Justinas (Vilnius, LITHUANIA)

### **OC-CI-004 (3YFAW) Effect of extracellular matrix on bone healing with 3D printed Polylactic acid/Bioglass scaffolds**

GENDVILIENE Ieva (Vilnius, LITHUANIA), VITOSYTE Milda (Vilnius, LITHUANIA), JONAITYTE Egle marija (Vilnius, LITHUANIA), ALKSNE Milda (Vilnius, LITHUANIA), JACOBS Reinhilde (Leuven, BELGIUM), BORUSEVICIUS Rokas (Vilnius, LITHUANIA), BUKELSKIENE Virginija (Vilnius, LITHUANIA), RUTKUNAS Vygandas (Vilnius, LITHUANIA)

### **OC-CI-005 (LT4AH) Multi-center study on post-extraction socket preservation using autologous tooth graft.**

MINETTI Elio (Milano, ITALY), BERARDINI Marco (Pescara, ITALY)

### **OC-CI-006 (2K9BK) Accuracy of dynamic navigation in placing tilted and straight dental implants: interim analysis from a cohort study**

PELLEGRINO Gerardo (Bologna, ITALY), FERRI Agnese (Bologna, ITALY), GRANDE Francesco (Bologna, ITALY), TARASCHI Valerio (Sydney, AUSTRALIA), STEFANELLI Luigi (Roma, ITALY), MARCHETTI Claudio (Bologna, ITALY)

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**OC-CI-007 (3HVBH) Soft-tissue graft design for an average single-tooth defect in the posterior region**

STRASDING Malin (Geneva, SWITZERLAND), SUN Yue (Geneva, SWITZERLAND), YU Tao (Geneva, SWITZERLAND), BURKHARDT Felix (Geneva, SWITZERLAND), SCHAEFER Birgit (Wolhusen, SWITZERLAND), SAILER Irena (Geneva, SWITZERLAND), NESIC Dobrila (Geneva, SWITZERLAND)

## Clinical research – peri-implant biology

### **OC-PIB-001 (R6LF3) Systemic antibiotics in NO-surgical treatment of peri-implantitis: a single blind RCT**

DE WAAL Yvonne (Groningen, NETHERLANDS), VANGSTED Tine (Den Haag, NETHERLANDS), VAN WINKELHOFF Arie jan (Groningen, NETHERLANDS)

### **OC-PIB-002 (QMWCY) Air-polishing versus ultrasonic debridement in NO-surgical peri-implantitis treatment; a RCT**

HENTENAAR Diederik (Amsterdam, NETHERLANDS), DE WAAL Yvonne (Groningen, NETHERLANDS), VAN WINKELHOFF Arie jan (Groningen, NETHERLANDS), MEIJER Henny (Groningen, NETHERLANDS), RAGHOEBAR Gerry (Groningen, NETHERLANDS)

### **OC-PIB-003 (KY1FH) Randomized controlled trial comparing the soft tissue morphology of zirconia and titanium implants**

BIENZ Stefan (Zurich, SWITZERLAND), HILBE Monika (Zurich, SWITZERLAND), HÜSLER Jürg (Zurich, SWITZERLAND), THOMA Daniel (Zurich, SWITZERLAND), HÄMMERLE Christoph (Zurich, SWITZERLAND), JUNG Ronald (Zurich, SWITZERLAND)

### **OC-PIB-004 (MCGBJ) Early bone loss is a predictor for peri-implantitis development: Results from a 10-year prospective cohort study.**

WINDAEL Simon (Ghent, BELGIUM), COLLAERT Bruno (Heverlee, BELGIUM), DE BUYSER Stefanie (Ghent, BELGIUM), DE BRUYN Hugo (Ghent, BELGIUM), VERVAEKE Stijn (Ghent, BELGIUM)

### **OC-PIB-005 (SAD8A) Contour changes of peri-implant tissues over 12 years: A randomized controlled clinical trial comparing a one- and a two-piece implant system**

PIRC Miha (Zürich, SWITZERLAND), HARBECK Oliver (Zürich, SWITZERLAND), SAPATA Vitor (Sao Paulo, BRAZIL), JUNG Ronald (Zürich, SWITZERLAND), HÄMMERLE Christoph (Zürich, SWITZERLAND), THOMA Daniel (Zürich, SWITZERLAND)

### **OC-PIB-006 (DWPJZ) Long-term evaluation of implant-supported fixed dental prostheses (FDPs) with cantilever extension in posterior areas. A retrospective cohort study**

ROCCUZZO Andrea (Bern, SWITZERLAND), SCHMID Eric (Bern, SWITZERLAND), MORANDINI Michele (Bern, SWITZERLAND), RAMSEIER Christoph a. (Bern, SWITZERLAND), SCULEAN Anton (Bern, SWITZERLAND), SALVI Giovanni (Bern, SWITZERLAND)

**OC-PIB-007 (6XZQO) Distribution and chemical speciation of exogenous micro- and nano-particles in inflamed soft tissue adjacent to titanium and ceramic dental implants**

FRETWURST Tobias (Freiburg, GERMANY), HESSE Bernhard (Berlin, GERMANY), ADDISON Owen (London, UK), MORRELL Alex (London, UK), GROSS Christian (Freiburg, GERMANY), LAGRANGE Adrien (Berlin, GERMANY), SUAREZ Vanessa (Grenoble, FRANCE), KOHAL Ralf-Joachim (Freiburg, GERMANY), NELSON Kajta (Freiburg, GERMANY)

**OC-PIB-008 (35SVT) Full versus split thickness flap to increase soft tissue thickness and keratinization of NO-keratinized mucosa. A 3-year split mouth randomized clinical trial.**

PUIŠYS Algirdas (Vilnius, LITHUANIA), AUZBIKAVICIUTE Viktorija (Vilnius, LITHUANIA), DEIKUVIENE Justina (Vilnius, LITHUANIA), VINDAŠIŪTĖ-NARBUTĖ Eglė (Vilnius, LITHUANIA), RAZUKEVICIUS Dainius (Kaunas, LITHUANIA)

**OC-PIB-009 (64IIS) Clinical and Radiographic Assessment of Buccal Bone Changes at Immediate Implants with simultaneous Vascularized Interpositional Periosteal Connective Tissue Grafting versus NO-grafted Implants: A Randomized Controlled Clinical Trial.**

NAIEM Suzy (Giza, EGYPT), HOSNY Manal (Cairo, EGYPT), ELNAHASS Hani (Cairo, EGYPT)

**OC-PIB-010 (17L5C) Reconstructive surgical therapy of peri-implantitis: 3-year results of a randomized clinical trial**

ISLER Sila (Ankara, TURKEY), SOYSAL Fatma (Ankara, TURKEY), CEYHANLI Tugce (Istanbul, TURKEY), BAKIRARAR Batuhan (Ankara, TURKEY), UNSAL Berrin (Ankara, TURKEY)

**OC-PIB-011 (G3183) Case definitions of peri-implantitis in absence of baseline data: a diagnostic accuracy study.**

ROMANDINI Mario (Madrid, SPAIN), BERGLUNDH Jessica (Gothenburg, SWEDEN), SANZ Mariano (Madrid, SPAIN), BERGLUNDH Tord (Gothenburg, SWEDEN), DERKS Jan (Gothenburg, SWEDEN)

**OC-PIB-012 (A2QJA) Prevalence and risk indicators of peri-implantitis: an university-representative cross-sectional study**

PEDRINACI Ignacio (Madrid, SPAIN), ROMANDINI Mario (Madrid, SPAIN), LIMA Cristina (Madrid, SPAIN), SOLDINI Costanza (Madrid, SPAIN), ARAOZ Ana (Madrid, SPAIN), SANZ Mariano (Madrid, SPAIN)

**OC-PIB-013 (DM7IV) Evaluation of peri-implant soft tissue status through inflammatory biomarkers on laser treated healing abutments. A human study**

D'ADDAZIO Gianmaria (Chieti, ITALY), GHINASSI Barbara (Chieti, ITALY), SANTILLI Manlio (Chieti, ITALY), GAGGI Giulia (Chieti, ITALY), REXHEPI Imena (Chieti, ITALY), CAPUTI Sergio (Chieti, ITALY), SINJARI Bruna (Chieti, ITALY)



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**OC-PIB-014 (LMMFT) Impact of treatment modality after tooth extraction on soft tissue dimensional changes: RCT**

CLEMENTINI Marco (Milan, ITALY), CASTELLUZZO Walter (Milan, ITALY), CIARAVINO Vincenzo (Milan, ITALY), AGOSTINELLI Agnese (Milan, ITALY), VIGNOLETTI Fabio (Madrid, SPAIN), DE SANCTIS Massimo (Milan, ITALY)

### **Clinical research – prosthetics**

#### **OC-PR-001 (3H8EE) Cemented vs. screw-retained single implant all-ceramic crowns: 5-year results of a clinical RCT.**

KRAUS Riccardo D. (Zurich, SWITZERLAND), ESPUELAS Catharina I. (Zurich, SWITZERLAND), HÄMMERLE Christoph (Zurich, SWITZERLAND), JUNG Ronald (Zurich, SWITZERLAND), SAILER Irena (Geneva, SWITZERLAND), THOMA Daniel (Zurich, SWITZERLAND)

#### **OC-PR-002 (Z1P45) Randomized controlled trial on single versus multiple fixed dental prosthesis on short implants**

TALLARICO Marco (Sassari, ITALY), KHANARI Erta (Tirana, ALBANIE)

#### **OC-PR-003 (KCV6R) Time efficiency and quality of outcomes in a centralized digital workflow for the fabrication of implant crowns**

ZÜRCHER Anina (Zurich, SWITZERLAND), HÄMMERLE Christoph (Zurich, SWITZERLAND), THOMA Daniel (Zurich, SWITZERLAND), MÜHLEMANN Sven (Zurich, SWITZERLAND)

#### **OC-PR-004 (QBLFZ) Occurrence of cement rests on reverse margin custom abutments versus conventional custom abutments**

ANDRIJAUSKAS Paulius (Vilnius, LITHUANIA), SVOBODA Emil (Toronto, CANADA), ALKIMAVICIUS Jonas (Kaunas, LITHUANIA), LINKEVIČIUS Tomas (Vilnius, LITHUANIA)

#### **OC-PR-005 (WON6X) EFFECT OF INTRAORAL CONDITIONS ON PRECISION AND TRUENESS OF FULL-ARCH DIGITAL IMPLANT IMPRESSIONS**

RUTKUNAS Vygandas (Vilnius, LITHUANIA), GEDRIMIENE Agne (Vilnius, LITHUANIA), SIMONAITIS Tomas (Vilnius, LITHUANIA), BARAUSKIS Dainius (Kaunas, LITHUANIA), AKULAUSKAS Mykolas (Kaunas, LITHUANIA), PLETKUS Justinas (Vilnius, LITHUANIA), JEJELEVICIUS Darius (Kaunas, LITHUANIA)



### **Clinical research – surgery**

**OC-SU-001 (JA7QS) Volumetric analysis on the effect of a customized healing abutment at maxillary immediate implant sites: a prospective randomized clinical trial.**

FERNANDES Danilo (Viseu, PORTUGAL), NUNES Silvia (Viseu, PORTUGAL), MARQUES Tiago (Viseu, PORTUGAL), BORGES Tiago (Viseu, PORTUGAL)

**OC-SU-002 (CSAHL) 6 mm vs 11 mm implants supporting mandibular full-arch fixed prostheses: 4-year ad-interim report of a multicenter randomized controlled trial**

GUIDA Luigi (Naples, ITALY), ANNUNZIATA Marco (Naples, ITALY), ESPOSITO Umberto (Naples, ITALY), SIRIGNANO Massimiliano (Naples, ITALY), TORRISI Paolo (Catania, ITALY), CECCHINATO Denis (Padua, ITALY)

**OC-SU-003 (IE4BO) Sex steroids and the rate of new bone formation in iliac grafts: a prospective clinical pilot study**

HALF Julia (Berlin, GERMANY), SACHSE Claudia (Berlin, GERMANY), NELSON Kajta (Freiburg, GERMANY), HEILAND Max (Berlin, GERMANY), NAHLES Susanne (Berlin, GERMANY)

**OC-SU-004 (Y1Z3O) Long-Term prognosis of Mandibular Functional Reconstruction with Fibula Free Flap and Dental Implants**

FANG Wei (Xi'An, CHINA), DEHUA Li (Xian, CHINA), YAN-PU Liu (Xian, CHINA)

**OC-SU-005 (S9UNM) Crestal or subcrestal implant positioning with cemented or screw-retained crowns: 4-month RCT**

BENTIVOGLI Francesco (Bologna, ITALY), DEL PRINCIPE Carlotta (Bologna, ITALY), BARAUSSE Carlo (Bologna, ITALY), ESPOSITO Marco (Göteborg, SWEDEN), FELICE Pietro (Bologna, ITALY)

**OC-SU-006 (WFM9T) Fully-guided versus conventional implant placement by dental students. A randomized controlled trial**

SØNDERGAARD Kasper (København Nv, DENMARK), SPIN-NETO Rubens (Aarhus, DENMARK), HOSSEINI Mandana (Copenhagen, DENMARK), JENSEN Simon storgaard (Copenhagen, DENMARK), GOTFREDSEN Klaus (Copenhagen, DENMARK)

**OC-SU-007 (S0CCJ) Soft tissue contour and radiographic evaluation of ridge preservation in early implant placement: A randomized controlled clinical trial.**

GIL Alfonso (Zurich, SWITZERLAND), JONKER Brend (Rotterdam, NETHERLANDS), NAENNI Nadja (Zurich, SWITZERLAND), STRAUSS Franz (Zurich, SWITZERLAND), JUNG Ronald (Zurich, SWITZERLAND), WOLVIUS Eppo (Rotterdam, The Netherlands, NETHERLANDS), PIJPE Justin (Rotterdam, NETHERLANDS)

**OC-SU-008 (F882F) Dynamic navigation and immediate loading of single anterior implants in one visit: A 1-year proof of concept study**

POZZI Alessandro (Augusta, USA), CAROSI Paolo (Rome, ITALY), LORENZI Claudia (Rome, ITALY), PINTO Alessandro (Rome, ITALY), BIANCHI Nicol (Rome, ITALY), ARCURI Lorenzo (Rome, ITALY)

**OC-SU-009 (SCWC8) A comparison of iliac crest and lateral border of scapula grafts in cases of severe ridge atrophy**

SADILINA Sofya (Saint Petersburg, RUSSIA), KALAKUTSKIY Nikolay (Saint Petersburg, RUSSIA), PETROPAVLOVSKAYA Olga (Saint Petersburg, RUSSIA)

**OC-SU-010 (N9MUI) Vitality of Retromolar Bone Grafts - A Critical Appraisal of the Current Histomorphometric Approach**

STRICKER Andres (Freiburg, GERMANY), NELSON Kajta (Freiburg, GERMANY), BOSSHART Dieter D (BERN, SWITZERLAND), DUTTENHÖFER Fabian (Freiburg, GERMANY), ABDULLAYEVA Arzu (Freiburg, GERMANY), FRETWURST Tobias (Freiburg, GERMANY)

**OC-SU-011 (MF3NN) Volumetric assessment of tissue changes following combined surgical therapy of peri-implantitis: a pilot study.**

GALARRAGA VINUEZA Maria Elisa (Quito, EQUADOR), Obreja Karina (Frankfurt, GERMANY), MAGINI Ricardo (Florianopolis, BRAZIL), SADER Robert (Frankfurt, GERMANY), SCULEAN Anton (Bern, SWITZERLAND), SCHWARZ Frank (Frankfurt, GERMANY)

**OC-SU-012 (JMOLI) Immediate loading of 3 mm-diameter implants versus horizontal bone augmentation: 1-year RCT results**

BARAUSSE Carlo (Bologna, ITALY), ESPOSITO Marco (Göteborg, SWEDEN), PISTILLI Roberto (Rome, ITALY), FELICE Pietro (Bologna, ITALY)