




Prof. Ronald Jung &
Team Clinic of
Reconstructive Dentistry
University of Zurich



**THE EVOLUTION
OF IMPLANTS
PROSTHETICS
TOWARDS A
FULL DIGITAL
AND PERSONA-
LIZED SOLUTION**



**Universität
Zürich**
UZH



Zurich
Switzerland



**1st-2nd September,
2022**



LEARNING POINTS:

- ✘ Get an update on the latest research in dental implantology throughout the entire digital workflow.
- ✘ Understand decision criteria for prosthetic restorations towards full digital cement and abutment-free concepts.
- ✘ Learn how personalised prosthetic without cement will increase long term successes
- ✘ Hands-on: handling of **matrix**[®] implants and prosthetic restorations with a full digital workflow
- ✘ Live surgery and treatment



PROGRAM DAY 1

1st SEPTEMBER

13:00 Transfer to Production Site
Meeting Point:
Zürich Bus Station
Ausstellungsstrasse 5
8005 Zürich

14:00 Production Site Visit

15:00 Welcome Lecture & Introduction



Sandro Venanzoni,
CTO at TRI®

16:30 Transfer to Zurich

19:30 Group Dinner
Restaurant zum Kropf
In Gassen 16
8001 Zürich



9 Educational
points

CHF PRICE
CHF 949
excl. 7.7% VAT



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PROGRAM DAY 2

2nd SEPTEMBER

- 08:30** Welcome address
Ronald Jung
- 08:45** Digital data acquisition and diagnostics
Alexis Ioannidis
- 09:15** Static or dynamic guided implantation: today and tomorrow
Marc Balmer
- 10:00** *Coffee break*
- 10:15** Case presentation of live surgery
- 10:30** Live Operation Part 1: guided implantation and direct IO scan
Ronald Jung
- 11:50** *Group photo & lunch break*
- 13:00** Hands-On:
- Guided implantation
- Demonstration of IO scan
- Demonstration of CAD designing
- Placement of a **matrix**[®] individual healing collar and anatomic crown
Nadja Nänni, Stefan Bienz
- 14:30** Live Operation Part 2: dental lab workflow / placement of provisional crown
Ronald Jung, Andrea Patrizi
- 15:15** *Coffee break*
- 15:45** Intraoral Scanning: the gateway to the digital world
Tim Joda
- 16:15** A journey from multi to single component restorative materials
Daniel Thoma
- 16:45** Presentation of the **matrix**[®] studies at the clinic
Jenni Hjerppe
- 17:00** Discussion
Ronald Jung, Daniel Thoma
- 17:30** *End of course*



ADDRESS

Universität Zürich
Zentrum für Zahnmedizin
Plattenstrasse 11
8032 Zürich

matrix[®]
SCIENTIFIC
 WHITE-
 PAPER

Mechanical stability of fully personalized, abutment-free zirconia implant crowns on a novel implant-crown interface



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University of Zurich TRI DENTAL IMPLANTS

matrix[®] SCIENTIFIC WHITE-PAPER

Mechanical stability of fully personalized, abutment-free zirconia implant crowns on a novel implant-crown interface

An in vitro study

Hjerppe J, Jung RE, Hämmerle CHF, Özcan M, Mühlemann S

Objective

To test failure load and failure mode of a novel implant-crown interface specifically designed for the fabrication of fully personalized and abutment-free monolithic zirconia CAD-CAM crowns compared to conventional implant-abutment interfaces involving prefabricated or centrally manufactured abutments for zirconia CAD-CAM crowns.

Artificial Ageing

- 1 200 000 cycles
- ± 60%
 150 Hz
- ± 30% oscillation
- Thermocycling 5/5°C

Investigators

- Prof. Dr. Ronald Jung PhD
- Prof. Dr. Dr. h.c. Christoph Hämmerle
- Prof. Dr. Dr. h.c. Mutlu Özcan, PhD
- PhD Dr. med. dent. Sven Mühlemann
- Jenni Hjerppe

Materials

Siouxmann[®] Zr Abutment

Siouxmann[®] Variobase

TR[®] TI Base

Matrix[®] Abutment-Free

4 implants prepared with respective CAD-CAM zirconia crowns

Test from both groups

Crown was fractured

Matrix interface intact after crown fracture

Four groups on the high level. Statistical difference between TR[®] and Siouxmann[®] Ti Base & Zr Abutment. Score loading of TR[®] Base: 9% of screw loosening with Siouxmann[®] Variobase. 3% of Siouxmann[®] Zr Abutments had broken, cone base crown was fractured.

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Switzerland
00800 3313 3313
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