



**In cooperation with**

- University of Complutense Madrid, Spain
- University of Frankfurt, Germany
- University of Freiburg, Germany
- University of Geneva, Switzerland

# INTERNATIONAL DIPLOMA IN IMPLANT DENTISTRY

**2020**



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**Prof. Dr. Katja Nelson**



**Prof. Dr. Irena Sailer**



**Prof. Dr. Mariano Sanz**



**Prof. Dr. Frank Schwarz**

### **Dear Participant**

The main goal of the Oral Reconstruction (OR) Foundation is to strengthen research and education in implant dentistry and related fields. The OR Foundation firmly believes that the best prerequisite for serving patients is a close collaboration between universities, practitioners and industry to further advance treatment methods. It is our goal to secure progress in implant dentistry and related areas by creating and imparting new scientific knowledge for the benefit of patients.

As an education provider, the OR Foundation presents and supports continuing education to further enable dental professionals from all disciplines to improve the lives of patients.

In order to fulfill its purpose and mission „Teaming up SCIENCE and EDUCATION to serve the PATIENT“ the OR Foundation launches its own curriculum „International Diploma in Implant Dentistry“, a one-year standardized education program for dentists interested in implant dentistry. Dentists who enroll into the OR Curriculum will receive high-level training in some of Europe’s leading universities.

The OR Curriculum is split into modules and offers blended learning opportunities through online study forums. Upon completion of the curriculum, each successful participant will receive an OR Foundation diploma signed by the four academic study leaders as well as an individual certificate for each completed module.

We look forward to welcoming you to this exciting education opportunity.

**Prof. Dr. Dr. Robert Sader**  
Chairman of the Board of Directors

**Dr. Alex Schär**  
Chief Executive Officer  
Member of the Board of Directors



## CURRICULUM – ENHANCE YOUR COMPETENCE IN IMPLANT DENTISTRY

- The program consists of four modules, taught over a period of two modules per week.
- You only need to travel twice a year. Spending a full week with like-minded peers offers great networking opportunities.
- The OR Curriculum covers all accommodation and transfer costs between universities.
- All modules have to be completed within one year.
- In between the modules, in order to prepare for your course, you will have to sign-in to our online study forum (hosted by INSIGHTS Dental), read selected publications and prepare your own case presentation(s) for discussion.
- The OR Curriculum covers topics such as basics of implant dentistry, treatment planning, surgical and prosthetic techniques as well as treatment of complications.
- All courses are held in English.
- At the completion of the program and after successful examination, participants will receive an OR Foundation diploma signed by the four academic study leaders and an individual certificate for each completed module.

## PARTICIPATING UNIVERSITIES

### Module 1:

Treatment planning and basic surgery  
 University of Freiburg, Germany  
 Study leader: Prof. Dr. Katja Nelson

### Module 2:

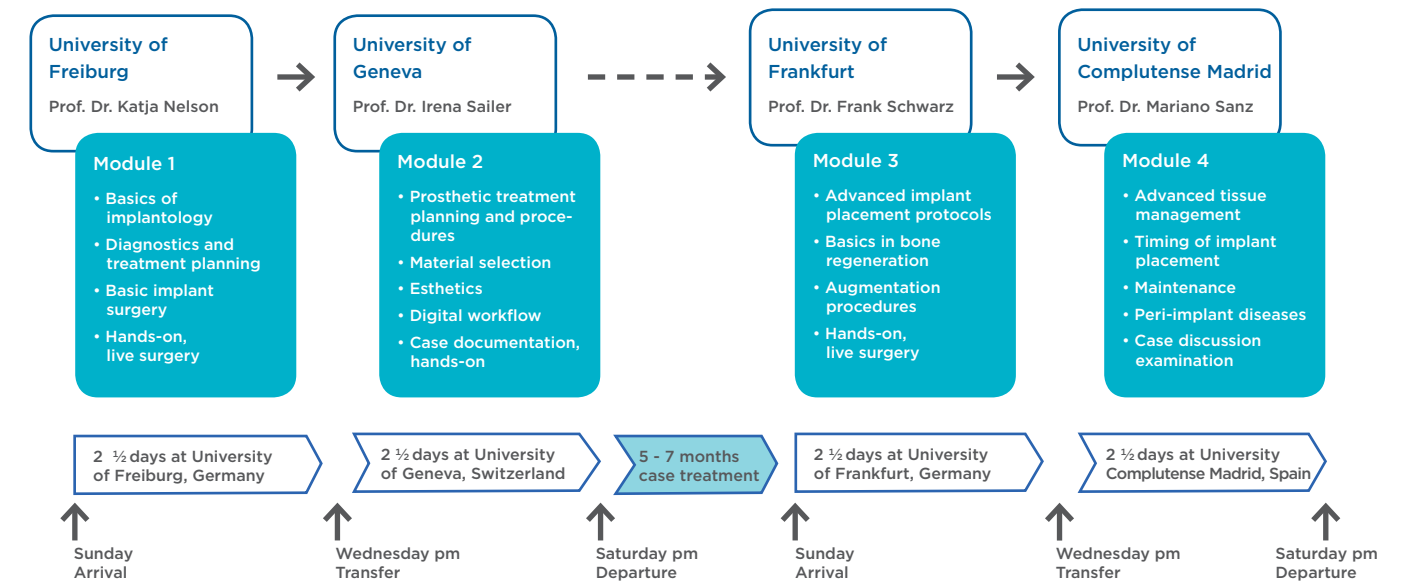
Prosthetics  
 University of Geneva, Switzerland  
 Study leader: Prof. Dr. Irena Sailer

### Module 3:

Advanced surgery  
 University of Frankfurt, Germany  
 Study leader: Prof. Dr. Frank Schwarz

### Module 4:

Sustainability and complications  
 University Complutense Madrid, Spain  
 Study leader: Prof. Dr. Mariano Sanz



International Diploma in Implant Dentistry in four modules at four of Europe's leading universities.

## TIMELINES

### MODULE 1 + 2: FREIBURG | GENEVA

Sunday, 5 July 2020	Day 1	Arrival
Monday, 6 July 2020	Day 2	Start Module 1, joint dinner with Faculty
Tuesday, 7 July 2020	Day 3	Module 1
Wednesday, 8 July 2020	Day 4	Module 1 and transfer
Thursday, 9 July 2020	Day 5	Start Module 2, joint dinner with Faculty
Friday, 10 July 2020	Day 6	Module 2
Saturday, 11 July 2020	Day 7	Module 2 departure

In between modules, participants will contribute to an online study forum and will receive homework. They are requested to submit and prepare case(s) for the final examination.

### MODULE 3 + 4: FRANKFURT | MADRID

Sunday, 29 November 2020	Day 1	Arrival
Monday, 30 November 2020	Day 2	Start Module 3, joint dinner with Faculty
Tuesday, 1 December 2020	Day 3	Module 3
Wednesday, 2 December 2020	Day 4	Module 3 and transfer
Thursday, 3 December 2020	Day 5	Start Module 4, joint dinner with Faculty
Friday, 4 December 2020	Day 6	Module 4
Saturday, 5 December 2020	Day 7	Module 4 departure



## MODULE 1 – TREATMENT PLANNING AND BASIC SURGERY

UNIVERSITY OF FREIBURG, GERMANY - PROF. DR. KATJA NELSON AND TEAM

### Theory and basics in implant dentistry

- Biological and anatomical factors, oral pathology, classification of bone density, importance of attached tissue and implant treatment indications
- Dental implant systems, implant surfaces, osseointegration and importance of implant-abutment connection
- Submerged versus trans-mucosal healing
- Immediate, immediate delayed or delayed implant placement
- Scientific and clinical evidence – in-vitro and in-vivo studies

### Patient evaluation

- Medical anamnesis and dental status report
- Risk factors; medical, periodontal, oral hygiene, bruxism etc.

### Diagnostics and treatment planning

- Diagnostic tools; 2D/3D X-ray, CBCT, CT, MRI
- Indication based top down planning – prosthetic-driven implant placement

### Straightforward surgical protocols

- Overview of basic surgical principles for implant placement and tissue management
- Step-by-step surgical procedures; biology of wound healing, incision techniques, indication-oriented surgical techniques, implant bed preparation, suturing techniques and suture material
- Guided and navigated surgery
- Pre- and post-operative instructions for patients, patient compliance and recall
- Post-operative complications

### Live surgery straightforward implant placement

#### Hands-on exercises

- 2D/3D treatment planning
- Different suturing techniques
- Straightforward implant placement in resin or pig jaws

### Case selection, case studies and case presentation

- Planning and treatment from straightforward to advanced cases
- Step-by-step planning and preparation of your own case
- Basics of presentation, guidelines for your case presentation at the end of Module 4

## LEARNING OBJECTIVES – MODULE 1

### Upon completion of this module, the participant will:

- Know the terminology and principles of implantology based on scientific literature
- Be familiar with implant materials and their design features
- Know the relevant anatomy and recognize patient-specific factors relevant for implant treatment
- Identify all parameters and diagnostic tools (including guided surgery) for implant planning
- Know basic surgical principles (incision techniques, flap handling and suturing techniques/material) for implant surgery
- Be able to identify, plan, treat and document straightforward implant cases
- Understand pre- and postoperative treatment modalities





## MODULE 2 – PROSTHETICS

UNIVERSITY OF GENEVA, SWITZERLAND - PROF. DR. IRENA SAILER AND TEAM

### Basics of prosthetics in implant-supported restorations

- Prosthetic driven implant placement – backward planning
- Interarch space and occlusal concepts
- Biomechanical aspects
- Fixed versus removable restorations
- Immediate, delayed implant restoration or loading
- Different restorative materials
- Maintenance and hygiene measures

### Dental implant systems

- Impression taking
- Restorative components fixed and removable
- Conventional and digital workflows

### Edentulous jaw

- Fixed restorations – cemented and screw-retained
- Removable restorations – Locators®, ball attachment, bar-borne and telescopic

### Partially edentulous jaw

- Single units
- Unilateral bridges
- Cemented and screw-retained restorations

### Esthetic considerations

- Different prosthetic protocols
- Immediate restoration and loading
- One abutment one time

### Digital workflow

- 3D optical impression – intraoral scanning
- Data import, alignment and segmentation for virtual planning
- CAD/CAM design and manufacturing – chairside and external

### Live demonstration of prosthetic procedures

- Intraoral scanning
- Restorative procedures
- Titanium-bases CAD/CAM hybrid crowns and abutments

### Photographic case documentation

- Technical basics, lightning and equipment requirements
- Patient positioning and documentation of cases

## LEARNING OBJECTIVES – MODULE 2

### Upon completion of this module, the participant will:

- Know the approach of pre-treatment diagnostics and backward planning for implant restorative patient situations
- Understand the applications and limitations of the digital workflow in implant prosthodontics
- Be able to evaluate the different restorative options and materials
- Be able to evaluate the different components for removable and fixed implant prosthodontics as well as the design of the restoration



## MODULE 3 – ADVANCED SURGERY

UNIVERSITY OF FRANKFURT, GERMANY - PROF. DR. FRANK SCHWARZ AND TEAM

### Advanced implant placement protocols

- Immediate implant placement protocols
- Management of deficient extraction sockets
- Alveolar ridge preservation
- Patient related risk factors

### Basics in bone regeneration

- Update on bone grafts
- Update on barrier membranes
- Bioactive factors to enhance wound healing (e.g. L-PRF)

### Advanced bone augmentation procedures

- Simultaneous lateral bone grafting
- Transcrestal sinus floor elevation
- Basic and advanced flap designs
- Surgical procedures and materials
- Success rates
- Avoidance and management of complications

### Complex bone augmentation procedures

- Staged lateral bone grafting
- Staged vertical bone grafting
- External sinus floor elevation
- Advanced flap designs
- Surgical procedures and materials
- Block grafts versus particulate grafts
- Tooth roots as autogenous block grafts
- Success rates
- Avoidance and management of complications

### Live surgeries on advanced/complex bone grafting procedures

### Hands-on exercises

- Advanced flap designs and suturing techniques
- External sinus floor elevation
- Lateral bone augmentation procedures

## LEARNING OBJECTIVES – MODULE 3

### Upon completion of this module, the participant will:

- Understand and differentiate advanced implant placement protocols
- Know the terminology and principles of bone regeneration
- Be familiar with advanced and complex bone augmentation procedures
- Identify, plan and treat advanced implant cases with and without bone augmentation





## MODULE 4 – SUSTAINABILITY AND COMPLICATIONS

UNIVERSITY COMPLUTENSE MADRID, SPAIN - PROF. DR. MARIANO SANZ AND TEAM

### Surgical protocols for enhanced soft and hard tissue management:

- Guided surgery step by step using SMOP or other systems
- Immediate and early implant placement in esthetic sites
- Advanced tissue management
- Advanced prosthetic management

### Long-term evidence of implant survival and success

### Preventive measures for long-term maintenance: regular recall, patient compliance, oral hygiene measures, control of risk factors

### Peri-implant diseases

- Diagnosis and management
- Definition and epidemiology
- Diagnosis and risk factors
- Management of mucositis sites
- Management of peri-implantitis sites
  - Non-surgical
  - Surgical
  - Regenerative

### Live treatment of

- A single tooth implant in the esthetic zone, including guided surgery, hard or soft tissue augmentation and immediate provisionalization
- A peri-implantitis case, including surgical design, implant surface decontamination, implantoplasty or regenerative procedures

### Hands-on exercises

- In pig jaws; flap designs, soft tissue grafting and suturing techniques
- Peri-implantitis surgical management on resin models

### Case presentations of all participants: 1 case max. 15 minutes including case discussion, feedback and evaluation

### Certificate ceremony

## LEARNING OBJECTIVES – MODULE 4

### Upon completion of this module, the participant will:

- Understand the long-term evidence of implant survival and success
- Know the preventive measures for long term maintenance
- Be familiar with the surgical protocols for enhanced soft and hard tissue management
- Diagnose, plan and manage peri-implant diseases



## APPLICATION AND COST

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If you are interested in the OR Curriculum please e-mail directly to [info@orfoundation.org](mailto:info@orfoundation.org).

The total cost of the program per participant is EUR 9,680.

Costs include hotel accommodation, breakfast, coffee breaks and lunch meals, one off-site dinner per destination as well as the transfer between the Universities in Module 1 + 2 resp. Modules 3 + 4.

Each participant needs to have a university degree in dentistry and at least two years of professional work experience. The program is limited to 20 participants, acceptance will be granted on a first-come, first-served basis.

Successful graduates will be awarded with an OR Foundation diploma signed by the four academic study leaders as well as an individual certificate for each completed module.

## ADMISSION

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### Admission requirements:

- A license/academic qualification to practice dentistry (with official translation in English or German)
- Minimum of two years relevant professional work experience
- Adequate English communication skills
- Completed application form
- Letter of motivation
- Curriculum vitae
- Digital portrait picture with at least 300 dpi resolution