

# DTMD

UNIVERSITY FOR DIGITAL  
TECHNOLOGIES  
IN MEDICINE AND DENTISTRY  
LUXEMBOURG

[www.dtmd.eu](http://www.dtmd.eu)

## Who we are



## The "University for Digital Technologies in Medicine and Dentistry" (DTMD)

- is a private university under Luxembourg law, operated by a private Luxembourg institution,
- is headquartered in the Wiltz Castle and has a student secretariat in Luxembourg,
- is currently the only European university to offer dedicated postgraduate, professional courses for dentists and dental technicians in cooperation with the dental medical chambers of Rhineland-Palatinate,
- is part of the "Competence Centers" and organizes curricular training courses for dental technicians in cooperation with the Luxembourg Association of Handcrafts,
- will establish study programs for health care in cooperation with a Luxembourg health care service and a foreign university.

## Founders of the DTMD

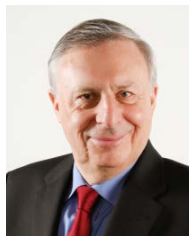


The initiators of the DTMD are three internationally active university professors with a special qualification in innovative continuing training for dentists, medical doctors and dental technicians.

Prof. Dr. Daniel Bogdan Grubeanu  
Dentist, Implantology und Oral Surgery



Prof. Dr. Ralf Rössler  
Dentist, Interdisciplinary Periodontology



Prof. Dr. André Reuter  
Founding President of Universities and Institutes in Luxembourg and abroad

## Digitization

In medicine and dentistry, the concept of digitization is interpreted in two different ways:

- **Technical Interpretation**

With digitization, we mean the transfer of data and information from an analogue to a digital representation and storage.

- **Organizational Interpretation**

Digitization describes the transfer of tasks, which have been done by humans so far, to the computer or robot.

Future-oriented postgraduate education and training measures must meet both interpretations.

## Digitization

While the technical interpretation of the conversion of analogue to digital data hardly presents any significant problems today, the transfer of tasks and responsibilities from humans to robots and machines is much more complex and difficult.

There are both technical, legal and social reasons:

- Lack of willingness and competences to use digital technologies and procedures,
- Lack of job-oriented training and further education both in the economy and at university level.

## Vision of the DTMD

Increasing digitization at all levels of enterprise and society is leading to new demands on modern health care and is aimed at

- the establishment of digital infrastructures as the basis for the cross-location data and knowledge exchange between health care and research,
- the networking of stakeholders through better and faster information and communication technologies,
- the implementation of interactive ICT technologies for a patient-friendly medical technology and the "empowered patient" who is informed and able to act,
- sustainable efficiency optimization and savings potential for the health care system and new markets for companies.

## Training opportunities & offers

The DTMD's training offers include:

- dedicated postgraduate and evidence-based education and training programs for digital technologies for medicine and dentistry,
- special training modules in digitalization for dental technicians,
- digital hygiene management in healthcare and care.

All DTMD training measures take account of the fact that data-based computer medicine will significantly change the future of medical research and therefore take into account the digital innovations in health care.

## Professors and lecturers of the DTMD (1)

The following internationally renowned professors and lecturers support the DTMD in the areas of dental medicine:

- Prof. Dr. Daniel Grubeanu  
Hochschule Fresenius, Idstein and Trier,  
Specialist in implantology and implant prosthesis
- Prof. Dr. Ralf Rößler,  
University of Applied Sciences Cologne,  
Specialist in implantology and periodontics
- Prof. Dr. Ata Anil,  
Institute of Implantology, Istanbul University,  
Istanbul,
- Univ.-Prof. Dr. Thomas Bernhard, Dekan des  
Master-Studiums Zahnmedizin der SFU, Wien,
- Prof. Dr. James Deschner,  
Institutsvorsteher der Abteilung für Experimentelle  
Mund-, Kiefer- und Gesichtsmedizin, Universität  
Bonn



## Professors and lecturers of the DTMD (2)

The following internationally renowned professors and lecturers support the DTMD in the areas of dental medicine:

- Priv. Dozent Dr. Stefan Fickl, Oberarzt der Abteilung für Parodontologie der Universität Würzburg
- Prof. Dr. Dr. h.c. mult. Anton Sculean, M.S., Institutsvorsteher der Abteilung für Parodontologie an der Universität Bern, Schweiz
- PD Dr. Dr. Dr. Shahram Ghanaati, Goethe University of Frankfurt, Department for Oral, Craniomaxillofacial and Facial Plastic Surgery; Institute of Pathology, Leiter des Forschungslabors FORM-Lab (Frankfurt Orofacial Regenerative Medicine),
- Prof. Dr. Michael Stimmelmayer, Poliklinik für Prothetik der Ludwig-Maximilians-Universität,

### Professors and lecturers of the DTMD (3)

The following internationally renowned professors and lecturers support the DTMD in the areas of dental medicine:

- Dr. Josef Diemer, Meckenbeuren, Spezialist für Implantologie und Endodontologie,
- Za. Horst Dieterich, Winnenden, Spezialist für ästhetische Zahnmedizin,
- Dr. Karl Ludwig Ackermann, Fachzahnarzt für Oralchirurgie, Gastprofessor der Nippon Dental University Niigata,
- Dr. Fred Bergmann, Fachzahnarzt für Oralchirurgie, Gastprofessor an der University of Pretoria,
- Prof. Dr. Andreas Stavropoulos, Institutsvorsteher der Abteilung für Parodontologie an der Malmö University, Schweden,

## Professors and lecturers of the DTMD (4)

The following internationally renowned professors and lecturers support the DTMD in the areas of dental medicine:

- Priv. Dozent Dr. Dr. Philipp Streckbein, Universitätsklinikum für Mund-, Kiefer- und Gesichtschirurgie und Plastische Operationen Gießen,
- Prof. Dr. Dr. Ralf Smeets, Leiter der Forschung der Mund-, Kiefer- und Gesichtschirurgie am Kopf- und Neurozentrum am Universitätsklinikum Hamburg-Eppendorf.

Professors and  
lecturers of the  
DTMD (5)

The following internationally renowned professors and lecturers support the DTMD in the areas of dental medicine:

- Dr. Dr. Anette Strunz,  
Fachärztin für Mund-, Kiefer-, Gesichtschirurgie,  
Ärztin und Zahnärztin, Hypnose,  
Hygienebeauftragte Ärztin, Berlin
- Dr. Sabine Hopmann,  
Mitglied der Studiengruppe für Restaurative  
Zahnheilkunde, minimalinvasive Chirurgie und  
Extrusionstherapie, Implantologie, Lemförde

## Professors and lecturers of the DTMD (6)

The following internationally renowned professors and lecturers support the DTMD in the areas of technical and social sciences:

- Prof. Dr. Marc Ant, Luxemburg, Strategisches Management
- Prof. Dr. Dr. Thomas Gergen, Saarbrücken, Immaterialgüterrecht, Geistiges Eigentum
- Prof. Dr. Heiko Hansjosten, Heilbronn, Personal-Management, Talent-Management
- Prof. Dr. Christoph Hartmann, Saarbrücken Strategische Planung, Controlling
- Prof. Dr. Christina Jager-Zlotowski, Trier, Empirische Sozialwissenschaften
- Prof. Dr. André Reuter, Luxemburg, Informations- und Werte-Management
- Dr. Andreas Ammer, Trier, Fachanwalt für Medizinrecht
- Lucien André Reuter, Luxemburg, Projekt-Management, Informatik

The academic partners of the DTMD

The academic partners of the DTMD include, among others, the following faculties of the leading international universities of dentistry:

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- Malmö University, Faculty of Odontology, Department of Periodontology
- Medizinische Fakultät der Sigmund Freud Privat-Universität Wien,
- Universitätsklinikum Bern, Klinik für Parodontologie,
- Istanbul University, Ar-Dental Klinik,
- Universität Würzburg, Abteilung Parodontologie,
- Universitätsklinikum Hamburg-Eppendorf, Klinik und Poliklinik für MKG,
- Goethe Universität Frankfurt, Klinik und Poliklinik für MKG.

The companies,  
partners of the  
DTMD

The following internationally renowned companies support the DTMD in their training and education projects in the technical and scientific areas :

- Bioscientia Institut für Medizinische Diagnostik GmbH, Labor Ingelheim
- CAMLOG, Basel, Switzerland,
- Dentsply Sirona, Bensheim, Germany,
- Geistlich Pharma AG, Wolhusen, Switzerland,
- Straumann Group AG, Schweiz,
- Ultra Low Hygiene Technology GmbH & Co. KG, Roding, Germany,
- W&H Dentalwerk Bürmoos GmbH, Austria.

## Why Luxembourg?

Located in the middle of Europe, Luxembourg has a state-of-the-art IT infrastructure that provides the best conditions for storing and analyzing the vast amounts of data that must be processed in digital medicine.

- A new "European Competence Center for Digital Technologies in Health Care" has been developed in close cooperation with the "Fédération des Artisans" (FDA) and the Luxembourg "Centres de Compétences".
- In a European pilot project with the dental medical chambers of Rhineland-Palatinate and the Crafts chambers and associations, starting in Luxembourg and Germany, students from all over the world are to receive an internationally recognized degree in vocational training and further education in digital technologies on a university level.



## Advantages for Luxembourg and the Greater Region

Digitization in the health care system opens up a great technical, economic and social potential for Luxembourg.

Luxembourg will

- become an innovation hub for digitalization in health care,
- attract additional innovators due to the available wide range of modern specialist knowledge as well as highly requested additional competencies,
- will benefit from the presence of international university teachers, researchers and students. This will have a lasting positive effect on the reputation of the Luxembourg university landscape and the economic prosperity of the country.

## Advantages for Luxembourg and the Greater Region



### Status quo:

- The DTMD is recognized as dedicated Center de Competence by the Luxembourg Crafts Association.
- The DTMD is an official partner of the Digital Skills and Jobs Coalition of the EU Commission and a member of the DSJC-L Lëtzebuerg.
- With the recognition of the DTMD as a university continuing education institution, the city of Wiltz has made an important contribution to the finalization of an innovative training concept.
- Numerous renowned universities as well as leading industrial partners throughout Europe have opted for a close cooperation with the DTMD.

## Advantages for Luxembourg and the Greater Region



### Status quo:

- Recognition of the postgraduate education and training programs of the DTMD by the State Dental Chamber of Rhineland-Palatinate.
- Foundation of the "European Competence Center for Digital Technologies in Health Care" in cooperation with renowned scientists and researchers from 7 European countries.
- Doctorate Program in Cooperation with the "European Institute for Knowledge and Value Management (EIKV)", the "Business Science Institute (BSI)" as well as the Universities of Lyon and Sidney,
- There is a clear up-and-coming atmosphere at the scientific location in Luxembourg. All stakeholders feel no bureaucratic obstacles, but full support from all authorities.

## Next Steps



## Next Steps:

- Accreditation of the DTMD University by an independent international agency,
- State recognition as "Institut de Formation Continue" by the Ministry of Education of the Grand-Duchy of Luxembourg,
- State recognition as an institute / college for professional ongoing training and development by the Ministry of Economy of the Land of Luxembourg,
- Start of the curriculum "Digitale Zahntechnik" Sept./Oct. 2017 in Wiltz,
- Start of the Master-Studies in implantology and periodontology March 2018 in Wiltz and Luxembourg.

Next  
Steps

The following study-programs courses are planned:

- Master's degree program "Orthodontics", starting in April 2018 in Wiltz and Luxembourg
- Master's degree program "Restaurative Dentistry" starting in September 2018 in Wiltz and Luxembourg.
- Master's degree program "Manual medicine" starting in November 2018 in Wiltz.
- Bachelor's degree course "Health Care & Nursing" starting in April 2018 in Wiltz.
- Bachelor's course "Physician Assistance" starting in September 2018 in Wiltz.
- Bachelor's course "Hospital Hygiene", starting October 2018 in Wiltz.



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Jobs Coalition