

Balazs Feher

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EDUCATION

Medical University of Vienna

Habilitation and Venia Docendi (PD) in Dental Medicine 2023
Thesis: Data science for risk prediction and prognosis assessment in oral surgery

Doctor of Philosophy (PhD) 2023
Dissertation: Insights into osteocytic signaling in bone regeneration
Thesis Committee: Reinhard Gruber, Ulrike Kuchler, Johannes Grillari

Doctor of Dental Medicine (DMD) 2018
Thesis Advisor: Corinna Bruckmann

ACADEMIC POSITIONS

Harvard School of Dental Medicine

Osteology Research Scholar Since 2023
Department of Oral Medicine, Infection, and Immunity

Medical University of Vienna

Senior Scientist and Lecturer Since 2023
University Clinic of Dentistry, Department of Oral Surgery & Competence Center Oral Biology

Junior Scientist and Lecturer 2019 – 2023
University Clinic of Dentistry, Department of Oral Surgery & Competence Center Oral Biology

Research Assistant 2017 – 2019
University Clinic of Dentistry, Department of Oral Surgery & Competence Center Oral Biology

GRANTS & SCHOLARSHIPS

Osteology Foundation

Research Scholarship 2022
Harvard School of Dental Medicine
Reference № 22–005; Amount of funding: 70 000 CHF

Young Researcher Grant 2020
Osteocytic RANKL expression in bone graft consolidation
Reference № 19–158; Amount of funding: 29 780 CHF

International Team for Implantology Foundation

Research Grant 2019
Disabling osteocyte apoptosis in mice: Impact on calvarial bone generation
Reference № 1456/2019; Amount of funding: 28 571 EUR

PROFESSIONAL ACTIVITIES

ITU/WHO/WIPO Global Initiative on Artificial Intelligence for Health (formerly ITU-WHO Focus Group on Artificial Intelligence for Health)

Contributor Since 2021
Topic Group Dental Diagnostics and Digital Dentistry
Subtopic Oral Surgery

European Association for Osseointegration

Member
Junior Committee

Since 2021

PEER-REVIEWED PUBLICATIONS

Feher B, Kamplleitner C, Heimes P, et al., The effect of osteocyte-derived RANKL on bone graft remodeling. *Clinical Oral Implants Research*. 2023 Dec;34(12):1417-1427.

Feher B, Kuchler U, Schwendicke F, et al. Emulating Clinical Diagnostic Reasoning for Jaw Cysts with Machine Learning. *Diagnostics*. 2022;12(8):1968.

Feher B, Frommlet F, Ulm C, et al. Preoperative buccal bone volume predicts long-term gain following augmentation in the esthetic zone. *Clinical Oral Implants Research*. 2022 May;33(5):492-500.

Feher B, Wieser C, Lukes T, et al. The Effect of the COVID-19 Pandemic on Patient Selection, Surgical Procedures, and Postoperative Complications in a Specialized Dental Implant Clinic. *Journal of Clinical Medicine*. 2022;11(3):855.

Feher B, Spandl LF, Lettner S, et al. Prediction of post-traumatic neuropathy following impacted mandibular third molar removal. *Journal of Dentistry*. 2021 Dec;115:103838.

Feher B, Gruber R, Hirtler L, et al. Resonance frequency analysis of implants placed in condensed bone. *Clinical Oral Implants Research*. 2021 Oct;32(10):1200-1208.

Feher B*, Apaza Alccayhuaman KA*, Strauss FJ, et al. Osteoconductive properties of upside-down bilayer collagen membranes in rat calvarial defects. *International Journal of Implant Dentistry*. 2021 Jun 7;7(1):50.

Feher B, Frommlet F, Lettner S, et al. A volumetric prediction model for postoperative cyst shrinkage. *Clinical Oral Investigations*. 2021 Nov;25(11):6093-6099.

Feher B, Gruber R, Gahleitner A, et al. Angular changes in implants placed in the anterior maxillae of adults: a cephalometric pilot study. *Clinical Oral Investigations*. 2021;25(3):1375-1381.

Feher B, Lettner S, Heinze G, et al. An advanced prediction model for postoperative complications and early implant failure. *Clinical Oral Implants Research*. 2020;31(10):928-935.

* equal contribution

CONFERENCE PUBLICATIONS

Feher B, Frommlet F, Ulm C, et al. Long-term volume stability after buccal bone augmentation in the esthetic zone. *Clinical Oral Implants Research*. 2021;21(S22):53-53.

Feher B, Lettner S, Karg F, et al. A novel risk prediction model for postoperative complications and early implant failure. *Clinical Oral Implants Research*. 2020;31(S20):247-248.

Feher B, Gruber R, Gahleitner A, et al. The effect of residual craniofacial growth on implants placed in the anterior maxilla – A long-term cephalometric study. *Clinical Oral Implants Research*. 2019;30(S19):496-496.

Feher B, Karg F, Gruber R, et al. Dental implant placement in a specialized clinic – A 3-year retrospective analysis. *Clinical Oral Implants Research*. 2019;30(S19):495-495.

Feher B, Kuchler U. Adjunctive anti-infective measures in surgical peri-implantitis treatment - A systematic review. *Clinical Oral Implants Research*. 2018;29(S17):113-113.

MISCELLANEOUS PUBLICATIONS

Schwendicke F, Krois J, Singh T, Lee JH, Chaurasia A, Gaudin RA, Uribe S, Mohammad-Rahimi H, Brinz J, Haiat A, Ünsal G, Pereira NS, Kuchler U, Vinayahalingam S, **Feher B**, Perez Pastor F, Schneider L, Nadler C, Hassanzadeh-Samani S, Motie P, Abdalla-Aslan R, Karteva T, Roganovic J, Dhingra K, Chaudhari PK, Tryfonos O, Laine M,

Rokhshad R, Sohrabniya F, Pirayesh Z, Alsalamah S, AlQahtani S, Koca-Unsal RB, Arsiwala LT, Khare P, Punj A, Hamdan M, Badr Z, Peric T, Silva M, Jones B, Radenkovic M, Buttner M, Omar M, Sivaramakrishnan G, Thoppay J, Karki S, Tanner T, Laitala ML, Chala S, Richert R, Lahoud P, Issa J, Manila N, Umer F, Tan S, Dot G, Haghghat S, Saif N, Rahbar A, Baraka M, Krasowski A, Morgan N, Azimian S, El Fadaly L. Topic Description Document for the Topic Group on Dental Diagnostics and Digital Dentistry. *International Telecommunication Union 2023 Sep 15 DEL 10.17.*

HONORS & AWARDS

European Prize for Research in Implant Dentistry

2018

Awarded by the European Association for Osseointegration
For the study “Adjunctive antimicrobial measures in surgical peri-implantitis treatment”

TEACHING

Harvard School of Dental Medicine

MMSc/DMSc Program in Periodontology

603.PS Regenerative Dentistry – From Biology to Data Science Lecture

Medical University of Vienna

DMD Program

825.001	Oral Biology & Regenerative Dentistry (2022, 2023) [†]	Lecture
828.003	Oral Surgery (2020, 2022) [†]	Practical
670.000	Interactive Learning in Oral Surgery (2020, 2021, 2022) [†]	Seminar
806.135	Methods of Medical Research (2021) [†]	Seminar
826.001	Gnathology & Occlusion I (2016, 2017) [‡]	Practical
826.002	Gnathology & Occlusion II (2016, 2017) [‡]	Practical
829.011	72-Week Clinical Rotations (2021, 2022) [†]	Practical
824.001	Clinical Practical Skills (2022) [†]	Practical
826.003	Preclinical Head & Neck Anatomy and Tooth Extraction (2022) [†]	Practical
829.010	Clinical Introduction to Tooth Extraction on Patients (2022) [†]	Practical

MClinDent Program in Periodontology and Implantology

892.003	Patient Risks (2021) [†]	Lecture
892.008	Medication (2021) [†]	Lecture

[†] as Lecturer, [‡] as Teaching Assistant

STUDENTS ADVISED

Medical University of Vienna

Ongoing Theses

M.A.G. Escalante[§], M. Seeland-Csitar^{||}, T. Lukes[§] Since 2021

Defended Theses

M. Fürthauer [§] , G.A. Cejnek [§] , M. Boneberg [§]	2023
V. Bobrik [§] , P.F. Nadj [§] , I. Simic [§] , C. Wieser [§]	2022
M. Neumayer [§] , L.F. Spandl [§]	2021
L.E. Nemeth [§] , P.L. Necsea [§]	2020
F. Karg [§]	2019

[§] Diploma thesis (DMD), ^{||} Master’s thesis (MClinDent)

REFERENCES

Reinhard Gruber

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Medical University of Vienna
Vienna, Austria
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William V. Giannobile

Dean and Professor of Oral
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