

CURRICULUM VITAE

Marius Gustav Bredell

Wohnort

Schweiz (Aufenthaltsbewilligung B)

Sprachen

Afrikaans:

Muttersprache

English:

zweite Muttersprache

Deutsch:

Wort und Schrift

Portugiesisch:

Grundkenntnisse

Ausbildung und Diplome

BChD

1985

Faculty of Dentistry
University of Stellenbosch

BChD (Honours)
Oral Medicine, Oral
Pathology, Oral
Radiology

1988

Faculty of Dentistry, University
of Stellenbosch.

MChD (Maxillo-Facial
and
Oral Surgery)

1994
(Cum
Laude)

Faculty of Dentistry, University
of Pretoria, under Professor K-
W Bütow

MBCbB

1995

Faculty of Medicine,
University of Pretoria

Fellow: DIPLOMA of
the European
Association of Cranio-
Maxillo-Facial Surgery

2008

European Board of Cranio-
Maxillo-Facial Surgery

Fellow of the
International Board for
Certification of
Maxillofacial and
Oral Surgeons

2015

International society of Oral
and Maxillofacial Surgery

Facharztprüfung
Mund-, Kiefer und
Gesichtchirurgie

2015

Schweizerische Gesellschaft
für Mund-, Kiefer und
Gesichtchirurgie

Behördliche Registrierung

South African Medical and Dental Council	1985	Zahnarzt
General Dental Board Great Britain	1995	Zahnarzt
South African Medical and Dental Council	1994	Facharzt für Mund-, Kiefer und Gesichtschirurgie (ZA)
South African Medical and Dental Council	1996	Arzt
General Medical Council	2004	Arzt
MEBEKO (Schweiz)	2016	Arzt / Zahnarzt
SIWF-FMH	2016	Facharzt für Mund-, Kiefer und Gesichtschirurgie

Mitgliedschaften

- International Association of Oral and Maxillofacial Surgery
- European Association of Cranio-Maxillo-Facial Surgery
- European Faculty of the AOCMF
- DÖESAK: Deutsch-Österreichisch-Schweizerischer Arbeitskreis für Tumoren im Kiefer- und Gesichtsbereich
- SAKM (Schweizerische Arbeitsgemeinschaft für Kieferchirurgie und Mundkrankheiten)
- SAKK (Schweizerische Arbeitsgemeinschaft für Klinische Forschung)
- SGMKG (Schweizerische Gesellschaft für Mund-, Kiefer- und Gesichtschirurgie)
- SSO (Schweizerische Zahnärzte-Gesellschaft)

Arbeitserfahrung

Zahnarzt	1985 - 1987	South African Defence Force (Compulsory Military service)
Zahnarzt und Ehrenamtliche Anstellung	1987 - 1989	Department of Health and Welfare and Department of Maxillo-Facial and Oral Surgery. University of the Witwatersrand
Assistent	1989 - 1996	Department of Maxillo-Facial and Oral Surgery, University of Pretoria
Oberarzt	1996	Department of Maxillo-Facial and Oral Surgery, University of Pretoria
Leitender Arzt	1997	Department of Maxillo-Facial and Oral Surgery, University of Pretoria
Stv. Klinikdirektor	Jan. - März 1999	Department of Maxillo-Facial and Oral Surgery, University of Pretoria
Part time Consultant (By Invitation)	Mai 2001-2006	Department of Maxillo-Facial and Oral Surgery, Medical University of South Africa)
Oberarzt	1 Sept. 2006	Klinik für Mund-, Kiefer- und Gesichtschirurgie, UniversitätSpital Zürich
Leitender Arzt	1 Sept. 2009- 31 Dez 2016	Klinik für Mund-, Kiefer- und Gesichtschirurgie, UniversitätsSpital Zürich

Redaktionsbeirat

Dentistry International Journal seit 2008

Gutachter

Cancer Investigations
European Journal of Cranio-Maxillofacial Surgery
Annals of Maxillofacial and Oral Surgery
Craniofacial Trauma and Reconstruction
Tissue Engineering
Oncology

Einladungen / Eingeladene Vorlesungen

- 2004 AO Principles Course Davos Switzerland
- 2005 AO Principles Course Pesaro, 19. – 22. April Italy
- 2009 AO Principles Course 22 - 25 Sept. 2010 Sao Paulo, Brazil
- 2010 3rd World congress of the International Academy of Oral Oncology: Invited speaker of the EACMFS(14 - 17 Juli 2011)
Condylar, segmental or marginal resection and reconstruction, have the options changed?
- 2011 30th WORLD VETERINARY CONGRESS CAPE TOWN 10 - 14 Oktober 2011
Maxillofacial surgery Present practice and future challenges
- 33rd International Meeting of the International Society for Dermatologic Surgery LUZERN : Maxillofacial surgery for skin cancer, often more than skin deep (18. – 20. Oktober 2011)
- Astra-Tech Invited Lecture: Chirurgische und prothetische Grenzen in der Implantologie (Luzern, 8 Nov. 2011)
- 50th Aniversary Event Dept of Maxillofacial and Oral Surgery, University of Pretoria, Future developments in Maxillo-Facial and Oral Surgery - Europe
- 2012 3rd Pan African Conference on Oral and Maxillofacial Surgery: Current options in TMJ Surgery, Maxillary Reconstruction: Obturator vs. Flap reconstruction
- Die Sinusbodenelevation aus verschiedenen Blickwinkel: 1 Nov. 2012: Ausgedehnte präimplantologische Knochenaugmentation im Oberkiefer
- 2013 Astra-Tech/Dentsply Invited lecture : Implantologie bei Kopf und Hals Tumorpatienten (Bern, 12 Sept. 2013)
- Kiefergelenkkurs im Pionierpark (Prä Symposium) Winterthur 6 Nov 2013: TMJ Reconstruction after ablative surgery
- Klinik für ORL Zürich Fortbildung: Epitheliale Tumore der Haut und Schleimhaut (Fallbeispiele und Fokus auf Alternativtherapien wie PDT, Aldara etc)
- Fortbildungskurs Haifa Israel:
Keynote speaker: Themen, Navigation im Gesichtstrauma, Fortschritte im Kopf und Hals Tumorchirurgie
- 2015 Vorlesung im Spital Rambam (Israel) Forschungszentrum: Kopf und Hals Tumorphoxia

2016 AO Advanced course in Head and Neck Reconstruction, Davos, Switzerland

Keynote Speaker at the 5th International Congress of the Pan African Association of Oral and Maxillofacial Surgery

AO Advanced course in Head and Neck Reconstruction, Davos, Switzerland

Ausländische Spitalbesuche

1997 Canniesburn Maxillofacial and Oral Surgery Unit (Professor K. Moos)

1997 Catholic University of Louvain (Professor J.Schonaers)

1997 NHS Trust, Queen Victoria Hospital, East Grinstead (Mr. P. Banks)

1997 Radcliffe Infirmary, Craniofacial Unit, Oxford (Mr. S. Wall)

1999 Sloan Kettering Memorial Hospital. Head and Neck Services - Prof J Shah

2012 Shenzhen City Hospital. Department of Maxillofacial and Oral Surg
Prof Hong Yu Yang

2014 European Face Centre : Universitaire Ziekenhuis Brussel
Prof. Maurice Mommaerts

Organisatorische Fähigkeiten

- Vorstand: South African Society of Oral and Maxillofacial and Oral Surgery 2000-2006
- Vorsitz und Organisator: Jahreskongress "The South African Society of Oral and Maxillofacial Surgery" 2001
- Mitglied Organisationskomitee: 13th International Conference of Oral and Maxillofacial Surgery Meeting Durban, South Africa 19 - 24.5.2001
- Initiator und Organisator: Pretoria Forum of Maxillofacial and Oral Surgeons
- Initiator und organisator: Kiefer- und Gesichtschirurgie Vorlesungsreihe Süd Afrika 2003
- Vorsitz und Organisator: "International Zurich Surgical Facial access and Free flap course" (2006 - 2017)
- Initiator und Organisator :Jährliche Symposium über verschiedene Themen in der Mund-, Kiefer und Gesichtschirurgie (2010 - 2017) UniversitätsSpital von Zürich

- Initiator and Chairman of the first international summer AO Trauma Course Oberdorf Switzerland 7. und 8. Juni 2012
- Co Director of KFSP Forschungsprojekt, Universität Zürich 2012 - 2016
- Vorstandsmitglied und Koordinator von dem Kopf und Hals Tumorzentrum, UniversitätsSpital Zürich 2012-2016
- Mit Organisator "Surgical Facial access and Free flap course" Kapstadt 2013

Auszeichnungen

- 3M Medalje: Bester Student- "Maxillo-Facial Radiology" (1985)
- Michael Whitaker Preisträger Kinderzahnmedizin (1985)
- Dental Association of South Africa Bronze Medalje: Bester Student in Restorative Zahnmedizin (1985)
- Stipendium, durch sehr gute Noten: 4te und 5te Studienjahr Medizin
- Nortizan Preisträger: Hervorragende Professionalität (1995)
- Kieferchirurgische Ausbildung: MChD (MFOS) Cum Laude

Betreuung von Masterarbeiten(abgeschlossen)

- Ästhetische Aspekte von Kopf- und Hals- Tumorpatienten (A Quintans) 2012
- Classification of complications in maxillofacial and oral surgery (S Fatori) 2013

Prüfungskommissionen

1. Zahnärztliche Eidgenössische Prüfungskommission 2009 - 2012
2. Eingeladene Prüfer: International IBCSOMS (International Board for Certification of Specialists in Oral and Maxillofacial and Oral Surgery) seit 2014

Weiterbildung und Ausbildung Erfahrungen

1996 – 2002 Involviert mit Curriculum Entwicklung an die Universität von Pretoria
 2006 – Aktuell regelmässige Vorlesungen. Leiten der Kopf und Hals Ausbildung an der Klinik für Mund-, Kiefer und Gesichtschirurgie, UniversitätsSpital Zürich

Forschungs Projekte

1. Euronanomed funded, multinational Project: Tagreted PDT (Coordinator /advisor for Head and Neck oncology)

Ziel: To develop a targeted PDT therapy with targeted coated nano particles for squamous cell head and neck cancer and sarcomas

2. AO Research grant Project

Project leader: Prof.Dr. F Weber (UniversitätsSpital Zürich))

Ziel: development of titanium based structure for bone induction as well as integration with the potential to develop patient specific reconstruction subunits

Rolle: Co-Investigator

3. Untersuchung von metabolischen Entzündungsfaktoren was sich im und während frei vaskularisiertem Lappenchirurgie entwickelt um ein prediktiven Marker für Lappenstress zu entwickeln.

PI: Frau.Dr. Juliane Finke

Rolle: Co-Investigator

4. Klinische Forschungsschwerpunkt: Tumor Oxygenation Projekt (Anfang 1 Sept 2012) Principle Investigator (Funded 3 000 000 CHF)

Rolle: Co –Direktor und PI

Ziel: Entwicklung von nicht Invasiven prädiiktiven Marker (Bildgebend oder Biomarker) für Tumorhypoxie

5. Identification of guidelines to rehabilitation after oncological Rehabilitation

PI: Prof. Heinrich Walt und Ph.D. student Frau. M Ture

Ziel: Identify parameters for selection of patients that would benefit of a post hospitalization rehabilitation clinic.

Publikationen

1. Gerhard F. Huber, Oliver Riesterer Kristian Ikenberg, **Marius Bredell**, Tamara Rordorf.Recent advances and treatment recommendations in the management of merkel cell carcinoma. Otorinolaringologia 2017 March;67(1):1-9
2. Meerwein CM, Sekine T, Veit-Haibach P, **Bredell MG**, Huber GF, Huellner MW. Multi-slice SPECT/CT vs. lymphoscintigraphy and intraoperative gamma ray probe for sentinel node mapping in HNSCC. Eur Arch Otorhinolaryngol. 2016 Nov 11
3. Ernst J, Ikenberg K, Apel B, Schumann DM, Huber G, Studer G, Rordorf T, Riesterer O, Rössle M, Korol D, **Bredell MG**. Expression of CK19 is an independent predictor of negative outcome for patients with squamous cell carcinoma of the tongue. Oncotarget. 2016 Nov 15;7(46):76151-76158.
4. **Bredell MG**, Ernst J, El-Kochairi I, Dahlem Y, Ikenberg K, Schumann DM. Current relevance of hypoxia in head and neck cancer.Oncotarget. 2016 May 21. doi: 10.18632/oncotarget.9549. [Epub ahead of print]
5. Brown ML, Glanzmann C, Huber G, **Bredell M**, Rordorf T, Studer G. IMRT/VMAT for malignancies in the head-and-neck region: Outcome in patients aged 80. Strahlenther Onkol. 2016 Jun 15.
6. Lanzer M, Gander T, Grätz K, Rostetter C, Zweifel D, **Bredell M**.

Scapular Free Vascularised Bone Flaps for Mandibular Reconstruction: Are Dental Implants Possible? J Oral Maxillofac Res. 2015 Jun 30;6(3):e4./jomr.2015.6304. eCollection 2015 Jul-Sep.

7. Wojczyńska A, Leiggener CS, **Bredell M**, Ettlin DA, Erni S, Gallo LM, Colombo V. Alloplastic total temporomandibular joint replacements: do they perform like natural joints? Prospective cohort study with a historical control. Int J Oral Maxillofac Surg. 2016 May 18. pii: S0901-5027(16)30054-6..2016.04.022. [Epub ahead of print
8. G Studer, **M. Bredell**, S. Studer, G. Huber, C. Glanzmann. Risk profile for osteoradionecrosis of the mandible in the IMRT era. G. Studer, Strahlenther Onkol. Jan. 2016;192(1):32 - 39. 12. Aug. 2015
9. M. Lanzer, S. Bachna-Rotter, M. Graupp, **M. Bredell**, M. Rücker, G. Huber, S. Reinisch, P. Schumann. Unknown primary of the head and neck: A long-term follow-up. J. Craniomaxillofac Surg. Mai 2015;43(4):574 - 9.Epub 9. März 2015
10. J. Yang, C. Röwer, C. Koy, M. Ruß, CP. Rüger, R. Zimmermann, von U. Fritschen, **M. Bredell**, JC. Finke, MO. Glocker Mass spectrometric characterization of limited proteolysis activity in human plasma samples under mild acidic conditions. Methods. 2015 1. Nov. ;89:30 - 7. Epub 26. Feb. 2015.
11. **M. Bredell**, B. Schucknecht, Bode-Lesniewska B. Tenosynovial, diffuse type giant cell tumor of the temporomandibular joint, diagnosis and management of a rare tumor. J. Clin Med Res. 7. April 2015 (4):262-6. Epub 9. Feb. 2015.
12. T. Gander, **M. Bredell**, T. Eliades, M. Rücker, H. Essig. Splintless orthognathic surgery: a novel technique using patient-specific implants (PSI). J Craniomaxillofac Surg. Apr. 2015;43(3):319-22. Epub 20 Dez. 2014.
13. Yang J, Röwer C, Koy C, Ruß M, Rüger CP, Zimmermann R, von Fritschen U, **Bredell M**, Finke JC, Glocker MO. Mass spectrometric characterization of limited proteolysis activity in human plasma samples under mild acidic conditions. Methods. 2015 Nov 1;89:30-7. Epub 2015 Feb 26.
14. **Bredell M**, Schucknecht B, Bode-Lesniewska B. Tenosynovial, diffuse type giant cell tumor of the temporomandibular joint, diagnosis and management of a rare tumor. J Clin Med Res. 2015 Apr;7(4):262-6. Epub 2015 Feb 9.
15. Xie S, Yang H, **Bredell M**, Shen S, Yang H, Jin L, Zhang S. Salivary duct carcinoma of the parotid gland: A case report and review of the literature. Oncol Lett. 2015 Jan;9(1):371-374. Epub 2014 Oct 31.
16. **Bredell M**, Grätz K, Obwegeser J, Gujer AK. Management of the temporomandibular joint after ablative surgery. Craniomaxillofac Trauma Reconstr. 2014 Dec;7(4):271-9. Epub 2014 Jun 12.
17. Xie S, **Bredell M**, Yang H, Shen S, Yang H. Basaloid squamous cell carcinoma of the maxillary gingiva: A case report and review of the literature. Oncol Lett. 2014 Sep;8(3):1287-1290. Epub 2014 Jul 4. PMID:25120708

18. Gander T, **Bredell M**, Eliades T, Rücker M, Essig H. Splintless orthognathic surgery: A novel technique using patient-specific implants (PSI). *J Craniomaxillofac Surg*. 2014 Dec 20. pii:
19. Xie S, Yang H, **Bredell M**, Shen S, Yang H, Jin L, Zhang S. Salivary duct carcinoma of the parotid gland: A case report and review of the literature. *Oncol Lett*. 2015 Jan;9(1):371-374. Epub 2014 Oct 31.
20. **Bredell M**, Grätz K, Obwegeser J, Gujer AK. Management of the temporomandibular joint after ablative surgery. *Craniomaxillofac Trauma Reconstr*. 2014 Dec;7(4):271-9.
21. Ismail.I.ÜLGÜ, **Marius G Bredell**. Ameloblastic Fibro-Odontoma located in the maxilla of a 3- year-old girl. *Paediatric Dental Journal* (2014)
22. Gander T, Studer S, Studer G, Grätz KW, **Bredell M**. Medium-term outcome of Astra Tech implants in head and neck oncology patients. *Int J Oral Maxillofac Surg*. 2014 Nov;43(11):1381-5. Epub 2014 Jun 3.
23. Reinisch S, Kruse A, **Bredell M**, Lübbers HT, Gander T, Lanzer M. Is lymph-node ratio a superior predictor than lymph node status for recurrence-free and overall survival in patients with head and neck squamous cell carcinoma? *Ann Surg Oncol*. 2014 Jun;21(6):1912-8. doi: 10.1245/s10434-014-3634-5. Epub 2014 Mar 21.
24. Lanzer M, Gander T, Lübbers HT, Metzler P, **Bredell M**, Reinisch S. Preservation of ipsilateral submandibular gland is ill advised in cancer of the floor of the Laryngoscope. 2014 Sep;124(9):2070-4. Epub 2014 Apr 29.
25. de Wild M, Schumacher R, Mayer K, Schkommodau E, Thoma D, **Bredell M**, Kruse Gujer A, Grätz KW, Weber FE. Bone regeneration by the osteoconductivity of porous titanium implants manufactured by selective laser melting: a histological and micro computed tomography study in the rabbit. *Tissue Eng Part A*. 2013 Dec;19(23-24):2645-54. doi: 10.1089/ten.TEA.2012.0753. Epub 2013 Sep 19.
26. Studer G, Linsenmeier C, Riesterer O, Najafi Y, Brown M, Yousefi B, **Bredell M**, Huber G, Schmid S, Studer S, Zwahlen R, Rordorf T, Glanzmann C. Late term tolerance in head neck cancer patients irradiated in the IMRT era. *Radiat Oncol*. 2013 Nov 5
27. **Bredell M**, Rordorf T, Studer G. Treatment concepts of oral cancer. *SADJ*. 2012 Nov;67(10):574-6. Review.
28. Zweifel DF, Kroiss-Benninger S, Kellenberger C, Bredell MG. Unilateral facial swelling in an infant. *J Pediatr Surg*. 2012 Jul;47(7):1445-8.
29. Studer G, Brown M, **Bredell M**, Graetz KW, Huber G, Linsenmeier C, Najafi Y, Riesterer O, Rordorf T, Schmid S, Glanzmann C. Follow up after IMRT in oral cavity cancer: update. *Radiat Oncol*. 2012 Jun 11
30. Credé A, Locher M, **Bredell M**. Tongue cancer in young patients: case report of a 26-year-old patient. *Head Neck Oncol*. 2012 May 14

31. Wittig J, **Bredell MG**, Kruse A, Haralambieva E, Grätz KW, Lübbers HT. [Oral of a renal cell carcinoma. A case report concerning the first manifestation of a renal cell carcinoma as bone metastasis in the mandible]. Schweiz Monatsschr Zahnmed. 2012;122(7-8):619-27.
32. Kruse AL, Luebbers HT, Grätz KW, **Bredell M**. A new method for closure of large donor side defects after raising the pectoralis major flap. Oral Maxillofac Surg. 2011 Dec;15(4):251-2.
33. Lübbers HT, Matthews F, Zemmann W, Grätz KW, Obwegeser JA, **Bredell M**. Registration for computer-navigated surgery in edentulous patients: a problem-based decision concept. J Craniomaxillofac Surg. 2011 Sep;39(6):453-8.
34. Besic Gyenge E, Darphin X, Wirth A, Pieles U, Walt H, **Bredell M**, Maake C. Uptake and fate of surface modified silica nanoparticles in head and neck squamous cell carcinoma. J Nanobiotechnology. 2011 Aug 11;9:32
35. Kruse AL, **Bredell MG**, Lübbers HT, Jacobsen C, Grätz KW, Obwegeser JA. Clinical reliability of radial forearm free-flap procedure in reconstructive head and neck surgery. J Craniofac Surg. 2011 May;22(3):822-5.
36. Kruse AL, **Bredell M**, Grätz KW. Oral cancer in men and women: are there differences? Oral Maxillofac Surg. 2011 Mar;15(1):51-5. doi: 10.1007/s10006-010-0253-6. Epub 2010 Oct 31
37. Kruse AL, Luebbers HT, Obwegeser JA, **Bredell M**, Grätz KW. Evaluation of the pectoralis major flap for reconstructive head and neck surgery. Head Neck Oncol. 2011 Feb 27;3:12.
38. Studer G, Glanzmann C, Studer SP, Grätz KW, **Bredell M**, Locher M, Lütolf UM, Zwahlen RA. Risk-adapted dental care prior to intensity-modulated radiotherapy (IMRT). Schweiz Monatsschr Zahnmed. 2011;121(3):216-29.
39. **Bredell MG**, Besic E, Maake C, Walt H. The application and challenges of clinical PD-PDT in the head and neck region: a short review. J Photochem Photobiol B. 2010 Dec 2;101(3):185-90.
40. **Bredell MG**. Sentinel lymph node mapping by indocyanin green fluorescence imaging in oropharyngeal cancer - preliminary experience. Head Neck Oncol. 2010 Oct 30;2:31.
41. Kruse AL, **Bredell M**, Luebbers HT, Grätz KW. Head and neck cancer in the elderly: a retrospective study over 10 years (1999 - 2008). Head Neck Oncol. 2010 Oct 5;2:25.
42. Kruse AL, **Bredell M**, Grätz KW. Oral squamous cell carcinoma in non-smoking and non-drinking patients. Head Neck Oncol. 2010 Oct 4;2:24. doi: 10.1186/1758-3284-2-24.
43. Lison I, **Bredell MG**, Luebbers HT, Grätz KW, Kruse AL. Tibial stress fracture

after fibular graft harvesting: an unusual complication. J Craniofac Surg. 2010 Jul;21(4):1082-3.

44. Kruse AL, Zwahlen R, **Bredell MG**, Riener MO, Grätz KW. Apocrine hidrocystoma of the cheek. J Craniofac Surg. 2010 Mar;21(2):594-6.

45. Kruse AL, Zwahlen RA, **Bredell MG**, Gengler C, Dannemann C, Grätz KW. Primary blastomycosis of oral cavity. J Craniofac Surg. 2010 Jan;21(1):121-3.

Buch Kapitel

1. Craniofacial Trauma. Trauma surgery: Head, thoracic, abdominal, and vascular injuries. 2010;1:153. Springer Verlag M. Bredell, KW. Grätz.
2. Fachwissen in der Mund-, Kiefer- und Gesichtschirurgie 2013 (Springer Verlag)
3. Chirurgiebezogene Anatomie: M. Bredell, M. Vich
4. Rekonstruktion; M. Bredell, C. Maake

Artikel nicht zitiert

1. M. Bredell & IF. Redelinghuys (1994) Three-dimensional computed tomography in the evaluation and treatment of severe cranio-facial trauma. *Hands-On* : **6**(1) 19-22
2. IF. Redelinghuys & M. Bredell (1996). A broken dental needle, the surgical recovery. *Hands-On*, **8**:(1)5-9
3. JG. Duvenage and M. Bredell (1996) Surgical planning of facial asymmetry simulating condylar movement on articulator in orthognathic surgery. *Hands-On*,**8**:(1)27-34