

Reto J. Bale - CURRICULUM VITAE

a.o. Univ.-Prof. Dr. med

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Academic career history:

- Since 2020 Vice Chairman Department of Radiology Innsbruck Medical University (Chair: E. Gizewski)
- Since 2002 Chief Division of Interventional Oncology / Microinvasive Therapy at the Department of Radiology (Chairman: o.Univ.Prof. Dr. Werner Jaschke), Innsbruck Medical University
- 2002 Board Certification in „Diagnostic Radiology“
- 2002 Associate Professor of Radiology (Venia legendi)
- 1996- 2002 Resident in Radiology, University Hospital Innsbruck (Chairman: W. Jaschke)
- 1995 M.D.- University of Innsbruck, Medical School (A)
- 1992- 1995 Institute of Anatomy- University of Innsbruck (A)
- 1993 Prince Charles Hospital- Brisbane (AUS)
- 1990- 1991 Dissertation Institute of Pathology- University Hospital Innsbruck (A)
- 1989 Humana Hospital- West Palm Beach (USA)
- 1989- 1990 Institute of Histology and Embryology- University of Innsbruck (A)

Main research areas and previous research achievements:

Minimal invasive tumor therapy (Radiofrequency Ablation, Alcohol Instillation, Transarterial Chemoembolization, ...)

Immobilization, Fixation, Motion artifacts

3D- Navigation, Computer- assisted Surgery, Computer- assisted Interventions, Frameless Stereotaxy, Computer -assisted stereotactic interventional brachytherapy, 3D- surgical planning

Targeting devices for Stereotaxy

Image Fusion: CT- MR- PET- SPECT- Ultrasound

Past research funding:

Österreichische Nationalbank ÖNB 12479: Entwicklung einer Ziel- und Pfadplanungs-Software für minimal-invasive 3 D-navigierte Punktionen EU 40000

MITIGATE FP7 (Nr. 602306) EU 372.800,00 (PI Prof Schönberg)

KM-HYPO, Visipaque- Study, GE Healthcare EU 20000 (PI Doz Widmann)

Additional Functions:

- 2005- Head of the Working Group "Technique and Innovation" from the Austrian Society of Radiology
- 2005- Advisory Board of "Archives of Orthopaedic and Trauma Surgery"
- 2014-2016 President of the Austrian Society of Interventional Radiology (ÖGIR)

Patents/Patent applications:

- VBH (Vogele- Bale- Hohner) Head holder (Medical Intelligence Inc., VBH HeadFix Arc™, VBH HeadFix Standard™, VBH HeadFix Ring™)
Vogele M., Bale R., Hohner H.
0830 098, European Patent
- Targeting device for frameless stereotaxy (not commercial)
Bale RJ
Patent Application AZ 2102/95, Austrian Patent Office
- Image-Guided Surgery System (Philips, EasyTaxis™)
Adams L., van den Brug W.P., Vogele M., Bale RJ
European Patent PHN 16.013/alignment device
- Targeting device (Medtronic, VERTEK™)
Vogele M., Bale R.J.
European Patent 0871407

Awards:

- 2008 "Best clinical investigation paper" Journal of Nuclear Medicine: "Gabriel et al.: 68Gallium-DOTA-Tyr(3)- Octreotide PET in Neuroendocrine Tumors: Comparison with Somatostatin Receptor Scintigraphy and Computed Tomography."
- 2007 Bayer Award of the Austrian Society of Radiology
- 2006 Schering Award 2006 of the Austrian Society of Radiology
- 2004 Magna cum Laude Award, Golden Mile Exhibit, ECR 2004
- 2002 Kienböck Award of the Austrian Society of Radiology for the Paper: Initial experiences with computer assisted retrograde drilling of osteochondral lesions of the talus- feasibility and accuracy; Radiology 218(1):278-282
- 1999 Certificate of Merit, Radiological Society of Northern America

Supervised PhD student:

- 2004-2011 Rudolf Stoffner (Increasing the accuracy and reliability for frameless stereotactic radiofrequency ablation of liver tumour)

List of 10 most important publications:

- 1 Bale R, Schullian P, Eberle G, Putzer D, Zoller H, Schneeberger S, Manzl C, Moser P, Oberhuber G.
Stereotactic radiofrequency ablation of hepatocellular carcinoma - A histopathological study in explanted livers.
Hepatology. 2018 Dec 5. doi: 10.1002/hep.30406. [Epub ahead of print]
- 2 Bale R, Richter M, Dünser M, Levy E, Buchberger W, Schullian P.
Stereotactic Radiofrequency Ablation for Breast Cancer Liver Metastases.
J Vasc Interv Radiol. 2017 Dec 19. pii: S1051-0443(17)30911-9.
- 3 Bale R, Schullian P, Schmuth M, Widmann G, Jaschke W, Weinlich G.

Stereotactic Radiofrequency Ablation for Metastatic Melanoma to the Liver.
Cardiovasc Intervent Radiol. 2016 Aug;39(8):1128-35.

4 Bale R, Widmann G, Schullian P, Haidu M, Pall G, Klaus A, Weiss H, Biebl M, Margreiter R.
Percutaneous Stereotactic Radiofrequency Ablation of Colorectal Liver Metastases. Eur Radiol. 2012 Apr;22(4):930-7.

5 Karall D, Scholl-Bürgi S, Widmann G, Albrecht U, Niedermayr K, Maurer K, Ausserer B, Huemer M, Bale R.
Stereotactic radiofrequency ablation for liver tumors in inherited metabolic disorders.
Cardiovasc Intervent Radiol. 2014 Aug;37(4):1027-33.

6 Oyarzun C, Wesarg S, Bale R
Accurate physics-based registration for the outcome validation of minimal invasive interventions and open liver surgeries.
IEEE Trans Biomed Eng. 2017 Feb;64(2):362-371

7 Putzer D, Henninger B, Kovacs P, Uprimny C, Kendler D, Jaschke W, Bale RJ.
Accuracy and feasibility of three different methods for software-based image fusion in whole-body PET and CT.
Q J Nucl Med Mol Imaging. 2016 Jun;60(2):172-81.

8 Gillams A, Goldberg N, Ahmed M, Bale R, Breen D, Callstrom M, Chen MH, Choi BI, de Baere T, Dupuy D, Gangi A, Gervais D, Helmeringer T, Jung EM, Lee F, Lencioni R, Liang P, Livraghi T, Lu D, Meloni F, Pereira P, Piscaglia F, Rhim H, Salem R, Sofocleous C, Solomon SB, Soulen M, Tanaka M, Vogl T, Wood B, Solbiati L.
Thermal ablation of colorectal liver metastases: a position paper by an international panel of ablation experts, the interventional oncology sans frontières meeting 2013.
Eur Radiol. 2015 Dec;25(12):3438-54

9 Haidu M, Dobrozemsky G, Schullian P, Widmann G, Klaus A, Weiss H, Margreiter R, Bale R.
Stereotactic Radiofrequency Ablation of Unresectable Intrahepatic Cholangiocarcinomas.
Cardiovasc Intervent Radiol. 2012 Oct;35(5):1074-82.

10 Widmann G, Haidu M, Schullian P, Stoffner R, Bale R
Stereotactic Radiofrequency Ablation (SRFA) of liver lesions: Technique effectiveness, safety, and inter-operator performance.
Cardiovasc Intervent Radiol. 2012 Jun;35(3):570-80.