

Martin Biermann, M.D.

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Norway

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## CV

Born 1963 in Recklinghausen/Germany

Married, 2 children

Nationality German

### Professional experience

Present **Professor II** (20 %), Section for Radiology, Institute of Clinical Medicine I at the University of Bergen/Norway since December 2015

**Senior consultant physician** (100 %), **Nuclear medicine/PET-centre**, Dept. of Radiology, Haukeland University Hospital, Bergen, Norway  
since May 2010

Staff physician, Nuclear Medicine, Dept. of Radiology, Haukeland University Hospital, Bergen/Norway since October 2005

Associate professor, Institute for Surgical Sciences, since March 2006

Focus on multimodal imaging of endocrine disease, thyroid cancer and head and neck imaging

1997 - Department of Nuclear Medicine (Prof. Dr. Dr. O. Schober), Münster University Hospital, Münster/Germany; Staff physician 2003

1995 - Research fellow, Krannert Institute of Cardiology Indianapolis/IN  
1997 (Prof. D. P. Zipes, MD); built and programmed an optical mapping system for isolated heart preparations

1991 - Resident physician (1993 – 1995), Dept. of Internal Medicine C  
1995 (Cardiology) (Prof. Dr. G. Breithardt), Münster University;  
programmed software for electrophysiological mapping of the heart as MD thesis project (1991 – 1993)

## Administrative experience

- Present    Leader of the Speciality committee in Nuclear Medicine (*Spesialitetskomite*) at the Norwegian Physicians' Association (Dnlf) since April 2014  
Course leader of Nuclear Medicine e-courses NM5, NM4 and plenary course NM3 (see <https://nukit.ihelse.net/moodle> for details) [8]
- 1999 -    **Study coordinator** and **database developer/administrator** for  
2009    the Multicentre Trial Differentiated Thyroid cancer (> 400 patients; Biermann et al. *Nuklearmedizin* 2009, 48:89-98)

## Awards

- 2021    **Best teacher award**, Institute of Clinical Medicine, University of Bergen
- 2019    **Best teacher award** ("Beste foreleser" studentpris), Graduation ceremony 12/2019, Faculty of Medicine, University of Bergen
- 2017    **Teaching quality price 2017** ("studiekvalitetspris"), Faculty of Medicine, University of Bergen

## Academic activities

Associate editor, [Clinical Thyroidology](#), since January 2017

Editorial board member [Thyroid](#) since January 2019 ([Editorial board member of the year 2020](#)), [Clinical Physiology and Functional Imaging](#) since June 2019

Peer reviewer for Thyroid, European Journal of Nuclear Medicine, Acta oncologica, Acta radiologica, Clinical Physiology – see <https://publons.com>

## Membership in scientific societies

American Thyroid Association. Society of Nuclear Medicine (USA). European Thyroid Association. European Association of Nuclear Medicine. Thyroid section of the German Society of Endocrinology (DGE), Norwegian and German Societies for Nuclear Medicine, German Society for Medical Informatics.

## IT projects

- 2020 Fiji/orthanc-server freeware solution for PET/CT viewing in the university network – see <https://www.uib.no/radionett/spesialist>
- 2019 ff. <https://nukit.ihelse.net/moodle> Root administrator of Moodle server for specialist training in nuclear medicine [5]
- 2018 ff. MDCake 3.x: Universal client server framework for handling multidimensional clinical data under cakephp 3.x [16]
- 2012-2015 MDCake 1.x: Universal client server framework for handling multidimensional clinical data [16]
- 1999 - 2009 MSDS client-server database developed under Oracle server 9.x and Oracle Forms for Windows [27]
- 1996-1997 Universal Mapping: Hardware-independent cardiac electrophysiological mapping software under IDL 4 ff. [28]
- 1991-1992 Optimaps: Automatic optimization program for cardiac electrophysiological mapping [26]

## Education

- 2018 Course in University pedagogy (10 points), Dept. of Pedagogy, University of Bergen
- 2003/2002 **Specialist in medical informatics** (2003) **and nuclear medicine** (2002) (Medical board exam, Germany)
- 1993 M. D. thesis "Reproducibility of cardiac electrophysiological mapping" (advisor: Prof. Günter Breithardt), Münster University
- 1985 - 1991 Medical studies, Münster University, Münster, Germany
- 1983 Certificate of Education Advanced Level (*Abitur*) (1.0, year's best, Gymnasium Petrinum, Recklinghausen/Germany)

## Publications

Complete updated publication list under

<http://www.uib.no/en/persons/Martin.Biermann>

1. Biermann M, Kanoun S, Davidsen T, Gray R. An Open Source Solution for "Hands-on" teaching of PET/CT to Medical Students under the COVID-19 Pandemic. *Nuklearmedizin*. 2021;60:10–5.
2. Brauckhoff K, Biermann M. Multimodal imaging of thyroid cancer. *Current Opinion in Endocrinology, Diabetes & Obesity*. 2020;27:335–44.
3. Reisæter LAR, Halvorsen OJ, Beisland C, Honoré A, Gravdal K, Losnegård A, Monssen J, Akslen LA, Biermann M. Assessing Extraprostatic Extension with Multiparametric MRI of the Prostate: Mehrativand Extraprostatic Extension Grade or Extraprostatic Extension Likert Scale? *Radiology: Imaging Cancer*. 2020;2:e190071.
4. Biermann M, Kanoun S, Davidsen T, Gray RJr. epub An Open Source Solution for "Hands-on" teaching of PET/CT to Medical Students under the COVID-19 Pandemic. *Nuklearmedizin*. 2020;(ePub).
5. Gulati A, Schwarzlmüller T, du Plessis E, Søfteland E, Gray R, Biermann M. Evaluation of a new e-learning framework for teaching nuclear medicine and radiology to undergraduate medical students. *Acta Radiologica Open*. 2019;8:205846011986023.
6. Biermann M, Brauckhoff K. Most "Recurrences" of Thyroid Cancer Represent Persistent Rather Than Recurrent Disease. *Clinical Thyroidology*. 2018;30:108–11.
7. Brauckhoff K, Svendsen ØS, Stangeland L, Biermann M, Aas T, Husby PJA. Injury mechanisms and electromyographic changes after injury of the recurrent laryngeal nerve: Experiments in a porcine model. *Head Neck*. 2018;40:274–82.
8. Haslerud T, Tulipan AJ, Gray RM, Biermann M. E-learning for medical imaging specialists: introducing blended learning in a nuclear medicine specialist course. *Acta Radiol Open*. 2017;6:2058460117720858.
9. Stokmo HL, Reitan BC, Johnsen B, Gulati A, Kleven-Madsen N, Adamsen TCH, Biermann M. Introduction of positron emission tomography into the Western Norwegian Health Region: Regional balance in resource utilization from 2009 to 2014. *Clin Physiol Funct Imaging*. 2015;
10. Husby JA, Reitan BC, Biermann M, Trovik J, Bjørge L, Magnussen IJ, Salvesen ØO, Salvesen HB, Haldorsen IS. Metabolic Tumor Volume on 18F-FDG PET/CT Improves Preoperative Identification of High-Risk Endometrial Carcinoma Patients. *J. Nucl. Med*. 2015;56:1191–8.
11. Haslerud T, Brauckhoff K, Reisæter L, Küfner Lein R, Heinecke A, Varhaug JE, Biermann M. F18-FDG-PET for recurrent differentiated thyroid cancer: a systematic meta-analysis. *Acta Radiol*. 2015;
12. Reisæter LA, Fütterer JJ, Halvorsen OJ, Nygård Y, Biermann M, Andersen E, Gravdal K, Haukaas S, Monssen JA, Huisman HJ, Akslen LA, Beisland C, Rørvik J. 1.5-T multiparametric MRI using PI-RADS: a region by region analysis to localize the index-tumor of prostate cancer in patients undergoing prostatectomy. *Acta Radiol*. 2015;56:500–11.
13. Biermann M, Kråkenes J, Brauckhoff K, Haugland HK, Heinecke A, Akslen LA, Varhaug JE, Brauckhoff M. Post-PET ultrasound improves specificity of 18F-FDG-PET for

- recurrent differentiated thyroid cancer while maintaining sensitivity. *Acta Radiol.* 2015;
14. Passow S, Specht K, Adamsen TC, Biermann M, Brekke N, Craven AR, Ersland L, Grüner R, Kleven-Madsen N, Kvernenes O-H, Schwarzmüller T, Olesen RA, Hugdahl K. Default-mode network functional connectivity is closely related to metabolic activity. *Hum Brain Mapp.* 2015;
  15. Reisæter LA, Fütterer JJ, Halvorsen OJ, Nygård Y, Biermann M, Andersen E, Gravidal K, Haukaas S, Monssen JA, Huisman HJ, Akslen LA, Beisland C, Rørvik J. 1.5-T multiparametric MRI using PI-RADS: a region by region analysis to localize the index-tumor of prostate cancer in patients undergoing prostatectomy. *Acta Radiol.* 2014;
  16. Biermann M. A simple versatile solution for collecting multidimensional clinical data based on the CakePHP web application framework. *Comput Methods Programs Biomed.* 2014;114:70–9.
  17. Brauckhoff M, Naterstad H, Brauckhoff K, Biermann M, Aas T. Latencies longer than 3.5 ms after vagus nerve stimulation does not exclude a nonrecurrent inferior laryngeal nerve. *BMC Surg.* 2014;14:61.
  18. Biermann M. A simple versatile solution for collecting multidimensional clinical data based on the CakePHP web application framework. *Comput Methods Programs Biomed [Internet]*. 2014; Available from: <http://dx.doi.org/10.1016/j.cmpb.2014.01.007>
  19. Schwarzmüller T, Brauckhoff K, Løvås K, Biermann M, Brauckhoff M. High cardiac background activity limits 99mTc-MIBI radioguided surgery in aortopulmonary window parathyroid adenomas. *BMC Surg.* 2014;14:22.
  20. Tzoulis C, Tran GT, Schwarzmüller T, Specht K, Haugarvoll K, Balafkan N, Lilleng PK, Miletic H, Biermann M, Bindoff LA. Severe nigrostriatal degeneration without clinical parkinsonism in patients with polymerase gamma mutations. *Brain.* 2013;136:2393–404.
  21. Tzoulis C, Vedeler C, Haugen M, Storstein A, Tran GT, Gjerde IO, Biermann M, Schwarzmüller T, Bindoff LA. Progressive striatal necrosis associated with anti-NMDA receptor antibodies. *BMC Neurol.* 2013;13:55.
  22. Biermann M, Schwarzmüller T, Fasmer KE, Reitan BC, Johnsen B, Rosendahl K. Is there a role for PET-CT and SPECT-CT in pediatric oncology? *Acta Radiol.* 2013;
  23. Tzoulis C, Gjerde IO, Søfteland E, Neckelmann G, Strøm E, Vintermyr OK, Sviland L, Biermann M. Erdheim-Chester disease presenting with an intramedullary spinal cord lesion. *J. Neurol.* 2012;259:2240–2.
  24. Hellwig D, Freudenberg LS, Mottaghy FM, Franzius C, Krause T, Garai I, Biermann M, Grüning T, Leitha T, Gotthardt M. [Nuclear medicine in Europe: education]. *Nuklearmedizin.* 2012;51:35–46.
  25. Biermann M, Pixberg M, Riemann B, Schuck A, Heinecke A, Schmid KW, Willich N, Dralle H, Schober O. Clinical outcomes of adjuvant external-beam radiotherapy for differentiated thyroid cancer - Results after 874 patient-years of follow-up in the MSDS-trial. *Nuklearmedizin.* 2009;48:89–98.
  26. Biermann M, Borggreffe M, Johna R, Haverkamp W, Shenasa M, Breithardt G. Precision and reproducibility of cardiac mapping. In: Shenasa M, Borggreffe M, Breithardt G, editors. *Cardiac mapping*. Mount Kisco, New York: Futura Publishing Co., Inc.; 2003. p. 157–86.

27. Biermann M, Schober O. GCP-konformes Management der Multizentrischen Studie Differenziertes Schilddrüsenkarzinom (MSDS) mit einer relationalen Datenbank unter Oracle 8i. Informatik, Biometrie und Epidemiologie in Medizin und Biologie. 2002;33:441-59.
28. Wu J, Biermann M, Rubart M, Zipes DP. Cytochalasin D as excitation-contraction uncoupler for optically mapping action potentials in wedges of ventricular myocardium. J Cardiovasc Electrophysiol. 1998;9:1336-47.