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Education

- 2012 Habilitation: “Absorption and Fluorescence Imaging of Lesions of the Female Mammary Gland” (Venia docendi in Radiology)
- 1995 – 2000 Doctoral thesis, Department of Radiology, Frankfurt am Main (Prof. Dr. Hacker) and Massachusetts General Hospital MGH Boston (Prof. B. Rosen) “Functional Magnetic Resonance Imaging (fMRI) of the Human Olfactory Cortex – Imaging of Olfactory Projections and Analysis of the Habituation Effect” – Grade “Summa cum laude”
- 05/1998 Clerkship in Radiology, Harvard University, Boston, USA, Prof. R. Novelline
- 11/1998 – 04/1999 Clerkship in Radiology, UCSF, San Francisco, USA, Prof. H. Goldberg
- 1992 – 1999 Medical School, Johann Wolfgang Goethe-Universität, Frankfurt am Main
- 1991 – 1992 Studies of Physics, Ludwig-Maximilian-Universität, München

Professional Experience

- 07/2015 – Consultant, Department of Diagnostic, Interventional and Pediatric Radiology, Inselspital, Bern University Hospital, Switzerland
- 07/2014 – 06/2015 Consultant, Department of Diagnostic and Interventional Radiology, Charité – Universitätsmedizin Berlin, Germany (Prof. B. Hamm)
- 01/2008 – 06/2014 Head of Outpatient center and consultant, Department of Diagnostic and Interventional Radiology, Charité – Universitätsmedizin Berlin, Germany (Prof. B. Hamm)
- 06/2007 Radiology Board Certification, Berlin, Germany
- 01/2003 – 07/2003 Department of Radiation Therapy, Charité Campus Mitte, Berlin (Prof. V. Budach)
- 09/2000 – 12/2007 Residency in Radiology, Department of Diagnostic and Interventional Radiology, Charité – Universitätsmedizin Berlin, Germany (Prof. B. Hamm)

Scientific Activities

2013 – 2015	4D Flow MRI, Charité Berlin, Germany and Inselspital Bern, Switzerland
2011 – 2015	Quantitative Diagnostics of the lung (COPD), Charité, Berlin, Germany
2002 – 2014	Near-Infrared-Imaging/multimodal breast imaging, Charité, Berlin, Germany
2003 – 2004	Functional MRI (fMRI), Charité, Berlin, Germany
06/2000 – 07/2000	Guest Researcher, CMIR (Molecular Imaging), MGH, Harvard Medical School, Boston, Prof. R. Weissleder
05/1998 – 11/1998	Guest Researcher, NMR-MGH Center (fMRI), Harvard Medical School, Boston, Prof. B. Rosen
07/1996 – 04/1998	Functional MRI (fMRI), Department of Neuroradiology, J W Goethe-Universität, Frankfurt, Germany

Special Clinical Interests

- Chest Radiology (COPD, Interstitial Lung disease)
- Abdominal Radiology
- Multimodal breast Imaging
- Management in Radiology

Awards

1997	Best presentation in Neuroradiology, German Radiology Society (Deutscher Röntgenkongress)
2010	Winner of the 1 st Prize IDKD Quiz Davos
2014	Winner of the 2 nd Prize IDKD Quiz Davos

Appointments as Reviewer

- European Radiology
- Investigative Radiology
- RöFo
- Academic Radiology

Publications

- Theilig D, Doellinger F, Kuhnigk JM, Temmesfeld-Wollbrueck B, Huebner RH, Schreiter N, **Poellinger A** (2015) Pulmonary lymphangioleiomyomatosis: analysis of disease manifestation by region-based quantification of lung parenchyma. *Eur J Radiol* 84:732-737
- Schreiter V, Steffen I, Huebner H, Bredow J, Heimann U, Kroencke TJ, **Poellinger A**, Doellinger F, Buchert R, Hamm B, Brenner W, Schreiter NF (2015) Ventilation/perfusion SPECT/CT in patients with pulmonary emphysema. Evaluation of software-based analysing. *Nuklearmedizin* 54:31-35
- Renz DM, Scholz O, Bottcher J, Maurer MH, Denecke T, Schwarz C, Pfeil A, Streitparth F, Huppertz A, Mehl A, **Poellinger A**, Staab D, Hamm B, Mentzel HJ (2015) Comparison Between Magnetic Resonance Imaging and Computed Tomography of the Lung in Patients With Cystic Fibrosis With Regard to Clinical, Laboratory, and Pulmonary Functional Parameters. *Invest Radiol* 50:733-742
- Herzog D, **Poellinger A**, Doellinger F, Schuermann D, Temmesfeld-Wollbrueck B, Froeling V, Schreiter NF, Neumann K, Hippenstiel S, Suttrop N, Hubner RH (2015) Modifying Post-Operative Medical Care after EBV Implant May Reduce Pneumothorax Incidence. *PLoS One* 10:e0128097
- Doellinger F, Huebner RH, Kuhnigk JM, **Poellinger A** (2015) Lung Volume Reduction in Pulmonary Emphysema from the Radiologist's Perspective. *Rofo* 187:662-675
- Theilig DC, **Poellinger A** (2014) [Sporadic lymphangioleiomyomatosis: pulmonary and retroperitoneal manifestation]. *Rofo* 186:613-614
- **Poellinger A**, El-Ghannam S, Diekmann S, Fischer T, Kristiansen G, Fritzsche F, Fallenberg E, Morawietz L, Diekmann F (2014) Correlation between enhancement characteristics of MR mammography and capillary density of breast lesions. *Eur J Radiol* 83:2129-2136
- Nasser S, von Heymann C, Feldheiser A, Schafer-Graf U, Klempert I, **Poellinger A**, Krackhardt F, Henrich W, Sehoul J, Pietzner K (2014) A rare case of ovarian cancer in pregnancy complicated by pulmonary embolus and myocardial infarction: management dilemmas. *J Surg Case Rep* 2014
- Fallenberg EM, Dimitrijevic L, Diekmann F, Diekmann S, Kettritz U, **Poellinger A**, Bick U, Winzer KJ, Engelken F, Renz DM (2014) Impact of magnification views on the characterization of microcalcifications in digital mammography. *Rofo* 186:274-280
- Schreiter NF, Volkwein N, Schneider P, Maurer MH, Piper S, Schmitz C, **Poellinger A** (2013) Optical imaging of breast cancer using hemodynamic changes induced by valsalva maneuver. *Rofo* 185:358-366
- Nickel P, Gul S, Puhl G, **Poellinger A**, Schindler R (2013) Acute cardiorenal syndrome by high flow arteriovenous fistula after kidney transplantation. *J Vasc Access* 14:394-396
- Grupp U, Schafer ML, Meyer H, Lembcke A, **Poellinger A**, Wieners G, Renz D, Schwabe P, Streitparth F (2013) Reducing Radiation Dose in Emergency CT Scans While Maintaining Equal Image Quality: Just a Promise or Reality for Severely Injured Patients? *Emerg Med Int* 2013:984645
- Thiel R, Schreiter NF, **Poellinger A** (2012) [Metastatic pulmonary calcifications as a differential diagnostic challenge - incidental finding in a multiple morbidity kidney transplant patient]. *Rofo* 184:931-933
- Schmachtenberg C, Engelken F, Fischer T, Bick U, **Poellinger A**, Fallenberg EM (2012) Intraoperative specimen radiography in patients with nonpalpable malignant breast lesions. *Rofo* 184:635-642

- Renz DM, Bottcher J, Diekmann F, **Poellinger A**, Maurer MH, Pfeil A, Streitparth F, Colletini F, Bick U, Hamm B, Fallenberg EM (2012) Detection and classification of contrast-enhancing masses by a fully automatic computer-assisted diagnosis system for breast MRI. *J Magn Reson Imaging* 35:1077-1088
- **Poellinger A** (2012) Near-infrared imaging of breast cancer using optical contrast agents. *J Biophotonics* 5:815-826
- Kroiss M, Quinkler M, Johanssen S, van Erp NP, Lankheet N, **Poellinger A**, Laubner K, Strasburger CJ, Hahner S, Muller HH, Allolio B, Fassnacht M (2012) Sunitinib in refractory adrenocortical carcinoma: a phase II, single-arm, open-label trial. *J Clin Endocrinol Metab* 97:3495-3503
- Colletini F, Schnapauff D, **Poellinger A**, Denecke T, Schott E, Berg T, Wust P, Hamm B, Gebauer B (2012) Hepatocellular carcinoma: computed-tomography-guided high-dose-rate brachytherapy (CT-HDRBT) ablation of large (5-7 cm) and very large (>7 cm) tumours. *Eur Radiol* 22:1101-1109
- Colletini F, Schnapauff D, **Poellinger A**, Denecke T, Banzer J, Golenia MJ, Wust P, Gebauer B (2012) [Percutaneous CT-guided high-dose brachytherapy (CT-HDRBT) ablation of primary and metastatic lung tumors in nonsurgical candidates]. *Rofo* 184:316-323
- Colletini F, Martin JC, Diekmann F, Fallenberg E, Engelken F, Ponder S, Kroencke TJ, Hamm B, **Poellinger A** (2012) Diagnostic performance of a Near-Infrared Breast Imaging system as adjunct to mammography versus X-ray mammography alone. *Eur Radiol* 22:350-357
- Colletini F, Golenia M, Schnapauff D, **Poellinger A**, Denecke T, Wust P, Riess H, Hamm B, Gebauer B (2012) Percutaneous computed tomography-guided high-dose-rate brachytherapy ablation of breast cancer liver metastases: initial experience with 80 lesions. *J Vasc Interv Radiol* 23:618-626
- Zeile M, Andreou D, **Poellinger A**, Tunn PU, Dudeck O (2011) Identification of the primary tumour with the help of diffusion-weighted MRI in a patient with autosomal dominant polycystic kidney disease and metastatic renal cell carcinoma. *Br J Radiol* 84:e142-145
- Schreiter NF, Steffen IG, Miller J, Fallenberg E, **Poellinger A**, Bick U, Diekmann F (2011) Qualitative JPEG 2000 compression in digital mammography - evaluation using 480 mammograms of the CDMAM phantom. *Rofo* 183:650-657
- Schneider P, Piper S, Schmitz CH, Schreiter NF, Volkwein N, Ludemann L, Malzahn U, **Poellinger A** (2011) Fast 3D Near-infrared breast imaging using indocyanine green for detection and characterization of breast lesions. *Rofo* 183:956-963
- Schmitzberger FF, Fallenberg EM, Lawaczeck R, Hemmendorff M, Moa E, Danielsson M, Bick U, Diekmann S, **Poellinger A**, Engelken FJ, Diekmann F (2011) Development of low-dose photon-counting contrast-enhanced tomosynthesis with spectral imaging. *Radiology* 259:558-564
- Scheurig-Muenkler C, **Poellinger A**, Wagner M, Hamm B, Kroencke TJ (2011) Ovarian artery embolization in patients with collateral supply to symptomatic uterine leiomyomata. *Cardiovasc Intervent Radiol* 34:1199-1207
- **Poellinger A**, Persigehl T, Mahler M, Bahner M, Ponder SL, Diekmann F, Bremer C, Moesta T (2011) Near-infrared imaging of the breast using omocianine as a fluorescent dye: results of a placebo-controlled, clinical, multicenter trial. *Invest Radiol* 46:697-704

- **Poellinger A**, Burock S, Grosenick D, Hagen A, Ludemann L, Diekmann F, Engelken F, Macdonald R, Rinneberg H, Schlag PM (2011) Breast cancer: early- and late-fluorescence near-infrared imaging with indocyanine green--a preliminary study. *Radiology* 258:409-416
- Grosenick D, Hagen A, Steinkellner O, **Poellinger A**, Burock S, Schlag PM, Rinneberg H, Macdonald R (2011) A multichannel time-domain scanning fluorescence mammograph: performance assessment and first in vivo results. *Rev Sci Instrum* 82:024302
- Diekmann F, Freyer M, Diekmann S, Fallenberg EM, Fischer T, Bick U, **Poellinger A** (2011) Evaluation of contrast-enhanced digital mammography. *Eur J Radiol* 78:112-121
- Colletini F, **Poellinger A**, Schnapauß D, Denecke T, Wust P, Braicu IE, Sehoul J, Hamm B, Gebauer B (2011) CT-guided high-dose-rate brachytherapy of metachronous ovarian cancer metastasis to the liver: initial experience. *Anticancer Res* 31:2597-2602
- Colletini F, Kroncke TJ, Heidenhain C, Renz DM, de Bucourt M, Neuhaus P, **Poellinger A** (2011) [Magnetic resonance cholangiographic (MRCP) features of ischemic-type biliary lesions (ITBL): a case-control study]. *Rofo* 183:714-720
- Colletini F, Kroncke TJ, Heidenhain C, de Bucourt M, Renz D, Schott E, Neuhaus P, Hamm B, **Poellinger A** (2011) Ischemic-type biliary lesions after orthotopic liver transplantation: diagnosis with magnetic resonance cholangiography. *Transplant Proc* 43:2660-2663
- Colletini F, Diederichs G, Gebauer B, **Poellinger A** (2011) Sturge-Weber syndrome. *Pediatr Neurosurg* 47:80
- Maurer MH, Stein E, Schreiter NF, Renz DM, **Poellinger A** (2010) [Targeted methods for measuring patient satisfaction in a radiological center]. *Rofo* 182:965-972
- Kroncke TJ, Scheurig C, **Poellinger A**, Gronewold M, Hamm B (2010) Uterine artery embolization for leiomyomas: percentage of infarction predicts clinical outcome. *Radiology* 255:834-841
- Froling V, Denecke T, **Poellinger A**, Schreiter NF (2010) [Detection of a neuroendocrine differentiated cystic pancreatic lesion by gallium-68-DOTATOC-PET/CT with inconclusive MRI, CT and ultrasound diagnosis]. *Rofo* 182:175-177
- **Poellinger A**, Scheffler S, Hamm B, Asbach P (2009) Magnetic resonance imaging of double-bundle anterior cruciate ligament reconstruction. *Skeletal Radiol* 38:309-315
- Hagen A, Grosenick D, Macdonald R, Rinneberg H, Burock S, Warnick P, **Poellinger A**, Schlag PM (2009) Late-fluorescence mammography assesses tumor capillary permeability and differentiates malignant from benign lesions. *Opt Express* 17:17016-17033
- **Poellinger A**, Martin JC, Ponder SL, Freund T, Hamm B, Bick U, Diekmann F (2008) Near-infrared laser computed tomography of the breast first clinical experience. *Acad Radiol* 15:1545-1553
- **Poellinger A**, Lembcke AE, Elgeti T, Filimonov S, Enzweiler CN (2008) Images in cardiovascular medicine. The cervical aortic arch: a rare vascular anomaly. *Circulation* 117:2716-2717
- **Poellinger A**, Diekmann S, Dietz E, Bick U, Diekmann F (2008) In patients with DCIS: is it sufficient to histologically examine only those tissue specimens that contain microcalcifications? *Eur Radiol* 18:925-930

- **Poellinger A**, Bick U, Freund T, Diekmann S, Hamm B, Diekmann F (2007) Evaluation of 11-gauge and 9-gauge vacuum-assisted breast biopsy systems in a breast parenchymal model. *Acad Radiol* 14:677-684
- Dudeck O, Zeile M, **Poellinger A**, Kluhs L, Ludwig WD, Hamm B (2007) Epidural venous enlargements presenting with intractable lower back pain and sciatica in a patient with absence of the infrarenal inferior vena cava and bilateral deep venous thrombosis. *Spine (Phila Pa 1976)* 32:E688-691
- **Poellinger A**, Landt S, Diekmann F, Guski H, Bick U (2006) Rapid growth of an exophytic angiosarcoma of the breast. *Breast J* 12:80-82
- Andresen V, **Poellinger A**, Tsrouya C, Bach D, Stroh A, Foerschler A, Georgiewa P, Schmidtman M, van der Voort IR, Kobelt P, Zimmer C, Wiedenmann B, Klapp BF, Monnikes H (2006) Cerebral processing of auditory stimuli in patients with irritable bowel syndrome. *World J Gastroenterol* 12:1723-1729
- Andresen V, Bach DR, **Poellinger A**, Tsrouya C, Stroh A, Foerschler A, Georgiewa P, Zimmer C, Monnikes H (2005) Brain activation responses to subliminal or supraliminal rectal stimuli and to auditory stimuli in irritable bowel syndrome. *Neurogastroenterol Motil* 17:827-837
- Hamm B, **Poellinger A** (2002) [Cross-sectional imaging of endometrial carcinoma: MR imaging and CT]. *Zentralbl Gynakol* 124:27-31
- **Poellinger A**, Thomas R, Lio P, Lee A, Makris N, Rosen BR, Kwong KK (2001) Activation and habituation in olfaction--an fMRI study. *Neuroimage* 13:547-560

Book Chapter

- A. Poellinger, D. Grosenick: Volume 4: Optical Molecular Imaging
4.22 – Optical Imaging in Mammography, 2014, Pages 345–362
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