

# DR. MED. ANNEKATHRIN REINHARDT

## GENERAL INFORMATION

**Resident physician**  
Neuropathology Heidelberg  
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## ACADEMIC EDUCATION & QUALIFICATION

Year(s)	Education
since 2014	Resident physician at the Department of Neuropathology Heidelberg
2006-2013	Studies at the medical school Charité, Universitätsmedizin Berlin
2006	Final secondary-school examinations ("Abitur")

## SCIENTIFIC EDUCATION & QUALIFICATION

Year(s)	Education
since 2020	Clinician scientist at the Forschungskolleg für Neuroonkologie Heidelberg
2019	Scientific publication: "Tumors diagnosed as cerebellar glioblastoma comprise distinct molecular entities." Acta Neuropathologica Communications, Doi 10.1186/s40478-019-0801-8
2018	Scientific publication: "Anaplastic astrocytoma with piloid features, a novel molecular class of IDH wildtype glioma with recurrent MAPK pathway, CDKN2A/B and ATRX alterations" Acta Neuropathologica, Doi 10.1007/s00401-018-1837-8
2018	Scientific publication: "Tumor Cell-selective Synergism of TRAIL- and ATRA-induced Cytotoxicity in Breast Cancer Cells" Anticancer Research, Doi 10.21873/anticancerres.12509
2016	JOINT-MEETING of the DGNN in Hamburg and EANO Meeting in Mannheim, poster presentation, subject: "Combined alterations in MAPK pathway genes, CDKN2A/B and ATRX characterize pilocytic astrocytoma with anaplastic features"
2015	Receipt of the doctor's degree, subject: „Enhancement of TRAIL-induced growth inhibition and apoptosis in human SKBR3 breast cancer cells by retinoids“
since 2014	Medical scientist at the Department of Neuropathology Heidelberg
2013-2014	Student research assistant at the Charité Tumor Bank Ovarian Cancer, Berlin
2009	Scientific sabbatical term: preliminary experimental work and development of a scientific project for the doctoral thesis at the Charité, Universitätsmedizin Berlin, subject: "Sensitization of TRAIL-resistant breast cancer cell lines applying ligands of nuclear hormone receptors", research grant from Universitäre Forschungsförderung, Charité

## PROFESSIONAL EXPERIENCE

Year(s)	Experience
2014-2020	Assessment genetic and epigenetic profiles of brain tumors by evaluating data from DNA methylation assays, Sanger sequencing, pyrosequencing, DNA and RNA sequencing
Department of Neuropathology Heidelberg	Classification of tumors by means of their DNA methylation profile, copy number profile and mutation profile
	Identification of molecular alterations (genetic variants/mutations, gene amplifications and deletions, gene fusions) in tumors and assignment to specific molecular pathways
	Assessment of characteristics and clinical relevance of these alterations applying bioinformatic tools and molecular diagnostic databases (Integrative Genomics Viewer, Varsome, ClinVar, COSMIC and others)
	Performance of clustering and t-SNE analyses of tumor methylation profiles to identify groups of known and unknown entities and exploration of the allocation of single tumor specimens of interest
	Summary of histological and molecular findings to deduce an integrated diagnosis which

	often serves as a basis for treatment decisions
	Identification and molecular characterization of brain tumor entities and in the framework of research projects
2009-2014	Cell culture
	DNA, RNA and protein isolation
Charité, Universitätsmedizin Berlin	Western Blot
	Electrophoretic Mobility Shift Assay
	PCR
	ELISA
	Cell vitality assays (MTT, Clonogenic Assay)
	Macroscopic and microscopic identification of tumor tissue and selection of areas suitable for sampling

### OTHER QUALIFICATIONS/ROLES/RESPONSIBILITIES

Year(s)	Experience
2019-2020	Quality management representative at the Department of Neuropathology Heidelberg
since 2014	Autopsy of brain, spinal cord, peripheral/cranial nerve and muscle tissue
	Histology diagnostics of diseases of the central and peripheral nervous system and neuromuscular diseases
2011-2013	Patient care in the clinic (neurology, psychiatry, intensive care unit, internal medicine, surgery)