

# DOKIC, IVANA, DR. RER. NAT.

## GENERAL INFORMATION



**Postdoctoral researcher**

C05

Heidelberg University Hospital

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## ACADEMIC EDUCATION & QUALIFICATION

Year(s)	Education
2002-2007	Molecular Biology and Physiology, Faculty of Biology, University of Belgrade, Diploma MSc equivalent, Thesis Supervisor Prof. Dr. Biljana Bozic

## SCIENTIFIC EDUCATION & QUALIFICATION

Year(s)	Education
2008-2012	PhD studies, Biology, University of Heidelberg, Thesis Exam 2012, Thesis Supervisor PD Dr. Anne Régnier-Vigouroux

## PROFESSIONAL EXPERIENCE

Year(s)	Education
2014-present	Post-Doc, Molecular and Translational Radiation Oncology, German Cancer Research Center and Heidelberg University Hospital
2012-2013	Post-Doc, Radiation Oncology, Heidelberg University Hospital
2008-2012	PhD student, Glial cells and parvovirus mediated-antitumor defense in the brain, German Cancer Research Center
2007-2008	Internship, Glial cells and parvovirus mediated-antitumor defense in the brain, German Cancer Research Center
2006	Internship, Glial cells and parvovirus mediated-antitumor defense in the brain, German Cancer Research Center

## OTHER QUALIFICATIONS/ROLES/RESPONSIBILITIES

Year(s)	
2012-2014	Online Academic Mentorship within iSerbia Organization
2012	Excellence Initiative Completion Grant of the University of Heidelberg
2009	Vice-President of Serbian Student Organization Heidelberg
2008	German Academic Exchange Service (DAAD) Grant for PhD studies (50,000 EUR)

## SELECTED PUBLICATIONS

1. Development and Validation of Single Field Multi-Ion Particle Therapy Treatments. Kopp B\*, Mein S\*, Dokic I, Harrabi S, Böhlen TT, Haberer T, Debus J, Abdollahi A, Mairani A. **Int J Radiat Oncol Biol Phys**. 2020 Jan 1;106(1):194-205. (\*equal contribution)
2. Mein S, Dokic I, Klein C, Tessonnier T, Böhlen TT, Magro G, Bauer J, Ferrari A, Parodi K, Haberer T, Debus J, Abdollahi A, Mairani A. Biophysical modeling and experimental validation of relative biological effectiveness (RBE) for 4He ion beam therapy. **Radiat Oncol**. 2019 Jul 11;14(1):123.
3. Oancea-Castillo LR\*, Klein C\*, Abdollahi A, Weber KJ, Régnier-Vigouroux A, Dokic I. Comparative analysis of the effects of a sphingosine kinase inhibitor to temozolomide and radiation treatment on glioblastoma cell lines. **Cancer Biol Ther** 2017;18(6):400-406 (\*equal contribution)
4. Winter M, Dokic I, Schlegel J, Warnken U, Debus J, Abdollahi A, Schnölzer M. Deciphering the Acute Cellular Phosphoproteome Response to Irradiation with X-rays, Protons and Carbon Ions. **Mol Cell Proteomics** 2017;16(5):855-872
5. Dokic I\*, Mairani A\*, Niklas M, Zimmermann F, Chaudhri N, Kronic D, Tessonnier T, Ferrari A, Parodi K, Jäkel O, Debus J, Haberer T, Abdollahi A. Next generation multi-scale biophysical characterization of high precision cancer particle radiotherapy using clinical proton, helium-, carbon- and oxygen ion beams. **Oncotarget** 2016;7(35):56676-56689 (\*equal contribution)
6. Dokic I, Niklas M, Zimmermann F, Mairani A, Seidel P, Kronic D, Jäkel O, Debus J, Greulich S, Abdollahi A. Correlation of Particle Traversals with Clonogenic Survival Using Cell-Fluorescent Ion Track Hybrid Detector. **Front Oncol** 2015;5:275
7. Dokic I, Mairani A, Brons S, Schoell B, Jauch A, Kronic D, Debus J, Régnier-Vigouroux A, Weber KJ. High resistance to X-rays and therapeutic carbon ions in glioblastoma cells bearing dysfunctional ATM associates with intrinsic chromosomal instability. **Int J Radiat Biol** 2015;91(2):157-65
8. Dokic I, Hartmann C, Herold-Mende C, Régnier-Vigouroux A. Glutathione peroxidase 1 activity dictates the sensitivity of glioblastoma cells to oxidative stress. **Glia** 2012;60(11):1785-800
9. Mora R, Dokic I, Kees T, Hüber CM, Keitel D, Geibig R, Brüggel B, Zentgraf H, Brady NR, Régnier-Vigouroux A. Sphingolipid rheostat alterations related to transformation can be exploited for specific induction of lysosomal cell death in murine and human glioma. **Glia** 2010;58(11):1364-83
10. Mora R, Abschuetz A, Kees T, Dokic I, Joschko N, Kleber S, Geibig R, Mosconi E, Zentgraf H, Martin-Villalba A, Régnier-Vigouroux A. TNF-alpha- and TRAIL-resistant glioma cells undergo autophagy-dependent cell death induced by activated microglia. **Glia** 2009;57(5):561-81