CURRICULUM VITAE

PERSONAL DETAILS

NAME: Dr. Michael Boettcher

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ACADEMIC CAREER

01/2014 – now POSTDOCTORAL RESEARCH SCHOLAR
UCSF, "McManus lab", San Francisco, CA

01/2013 – 11/2013 SABBATICAL
Latin America

05/2010 – 12/2012 POSTDOCTORAL RESEARCHER
DKFZ, "Functional Genome Analysis", Heidelberg, Germany

10/2006 – 04/2010 PhD STUDIES in Molecular Cancer Biology
DKFZ, "Functional Genome Analysis", Heidelberg, Germany

03/2006 – 08/2006 INTERNSHIP in Cell Biology
DKFZ, "Mol. Biol. of Centrosomes and Cilia", Heidelberg, Germany

11/2004 – 07/2005 MASTER THESIS in Plant Biotechnology
"Australian Centre for Plant Functional Genomics", Adelaide, Australia

10/2002 – 10/2004 MASTER STUDIES with focus on Molecular Biology
"Albert-Ludwigs Universität", Freiburg, Germany

11/2001 – 04/2002 INTERNSHIP in Molecular Ecology
"University of Adelaide", Adelaide, Australia

10/1999 – 10/2001 BACHELOR STUDIES
"Albert-Ludwigs Universität", Freiburg, Germany

08/1998 – 09/1999 CIVIL SERVICE
"Lahrer Werkstätten der Johannes Diakonie Mosbach", Lahr, Germany

06/1998 HIGH SCHOOL DIPLOMA
"Max-Planck Gymnasium", Lahr, Germany

ADDITIONAL PROFESSIONAL ACTIVITIES

LECTURER	Preparation and presentation of lectures to 5th semester students of *Molecular Biotechnology* at the University of Heidelberg
SUPERVISOR	Drafting of projects and supervision of PhD students since 2010 as well as grant acquisition to support those projects
PROJECT LEADER	Certified Project Leader (§§15 and 17 GenTSV) for genetic works (S2) with active Project Leader function at DKFZ since May 2011
REVIEWER	Reviewing for scientific journals (PLoS ONE, Molecular Cancer) and funding bodies (Wellbeing of Women, England)
CLUB MEMBER	Member in *Verein Deutscher Biologen* (VBiO) since 2006

LANGUAGE SKILLS

GERMAN	Mother tongue
ENGLISH	Business fluent
FRENCH	Basic knowledge
SPANISH	Basic knowledge

REFERENCES

Dr. Jörg HOHEISEL
Head of Division Functional Genome Analysis
Deutsches Krebsforschungszentrum
INF 580, 69120 Heidelberg
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Dr. Karin MÜLLER-DECKER
Head of Division Tumor Models
Deutsches Krebsforschungszentrum
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Prof. Dan CANAANI
Head of Division Biochemistry
The George S. Wise, Faculty of Life Sciences,
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LIST OF PUBLICATIONS

BMC GENOMICS

Boettcher M, Lawson A, Ladenburger V, Fredebohm J, Wolf J, Hoheisel JD, Frezza C, Shlomi T. High throughput synthetic lethality screen reveals a tumorigenic role of adenylate cyclase in fumarate hydratase-deficient cancer cells. *BMC Genomics* **2014**, 15:158

ONCOGENE

Wolf J, Müller-Decker K, Flechtenmacher C, Zhang F, Shahmoradgoli M, Mills GB, Hoheisel JD, **Boettcher M**. An in-vivo RNAi screen identifies SALL1 as a tumour suppressor in human breast cancer. *Oncogene* **2013** Dec 2. doi: 10.1038/onc.2013.515

BREAST CANCER RESEARCH

Wolf J, Dewi DL, Fredebohm J, Müller-Decker K, Flechtenmacher C, Hoheisel JD, **Boettcher M**. A mammosphere formation RNAi screen reveals that ATG4A promotes a breast cancer stem like phenotype. *Breast Cancer Res.* **2013** Nov 14;15(6):R109

JOURNAL OF CELL SCIENCE

Fredebohm J, Wolf J, Hoheisel JD, **Boettcher M**. Depletion of RAD17 sensitizes pancreatic cancer cells to gemcitabine. *Journal of Cell Science* **2013**, Aug 1;126(Pt 15):3380-9.

PLoS ONE

Fredebohm J, **Boettcher M**, Eisen C, Gaida MM, Heller A, Keleg S, Tost J, Greulich-Bode KM, Hotz-Wagenblatt A, Lathrop M, Giese NA, Hoheisel JD. Establishment and characterization of a highly tumourigenic and cancer stem cell enriched pancreastic cancer cell line as a well defined model system. *PLoS ONE* **2012**, 7 (11):e48503

PLoS ONE

Shenfeld M, Hachmo Y, Frenkel M, Dafni N, **Boettcher M**, Hoheisel JD, Dotan I, Canaani D. ER-alpha-cDNA as part of a bicistronic transcript gives rise to high frequency, long term, receptor expressing cell clones. *PLoS ONE* **2012**, 7(2):e31977.

PLoS ONE

Boettcher M, Kischkel F; Hoheisel JD. High-definition DNA methylation profiles from breast and ovarian carcinoma cell lines with differing Doxorubicin resistance. *PLoS ONE*, **2010**; 5, (6): e11002

CURRENT GENOMICS

Boettcher M and Hoheisel JD. Pooled RNAi screens – technical and biological aspects. *Current Genomics*, **2010**; 11(3), p. 162-167

BMC GENOMICS

Boettcher M, Fredebohm J, Moghaddas Gholami A, Hachmo, Y, Dotan I, Canaani D, Hoheisel JD. Decoding pooled RNAi screens by means of barcode tiling arrays. *BMC Genomics*, **2010**; 11, (1), 7.