

Curriculum Vitæ

Christian René Alexander Regenbrecht, Dr. rer. nat.



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Current positions:

SINCE JUN **2020** Verwaltungsrat ASC Oncology Suisse AG
Unterlettenstrasse 14, CH-9443 Widnau, Switzerland

SINCE MAR **2019** CEO ASC Oncology GmbH, Robert-Rössle-Str. 10, 13125 Berlin, Germany

SINCE APR **2014** CEO CELLphenomics GmbH, Robert-Rössle-Str. 10, 13125 Berlin, Germany

Education

MAY **2002** – APR **2005** **University of Bonn – Medical Center**
Dr. rer. nat., Biology
Bonn, Germany

OCT **1997** – APR **2002** **University of Bonn**
Diplom, Biology, Philosophy, Archeology
Bonn, Germany

OCT **1996** – JUL **1997** **Johannes Gutenberg-University Mainz**
Biology
Mainz, Germany

OCT **1995** – JUN **1996** **University of Rostock**
Medicine
Rostock, Germany

Patents

JAN **2020** **Patent number: DE102020102143B3**
Verfahren zur Bestimmung, ob eine Behandlung einer Krebserkrankung begonnen oder fortgesetzt werden soll, ein Biomarker, der mindestens einem Markergen entspricht, und eine Verwendung des Biomarkers in dem erfindungsgemäßen Verfahren.

Thesis

MAY **2002** – APR **2005** **Identifikation epigenetisch regulierter Gene in Gliomen** (magna cum laude)
University of Bonn – Medical Center
Bonn, Germany

Additional Qualifications

- MAY 2002 – APR 2005 **FELASA Category B and C**
TIZ-BIFO
Munich, Germany
- OCT 1997 – APR 2002 **Project manager / Assigned Officer for Biological Safety**
Max Planck Institute for Biochemistry
Munich, Germany

Research Experience

- SINCE JUN 2021 **PI in BMBF project *Kolonkarzinom-Organoid-on-Chip zur Aufklärung der Wirkungseffizienz von Krebsmedikamenten mittels Echtzeitmessungen der Zellvitalität***
FKz 161L0280B
- MAR 2019 – NOV 2023 **PI in EU H2020 project *PreCode***,
Marie Skłodowska-Curie grant agreement N° 861196
precode-project.eu
- OCT 2017 – APR 2020 **Guest Scientist**
Institute for Pathology, Otto-von-Guericke Universität Magdeburg
Magdeburg, Germany
- JAN 2017 – SEP 2019 **Guest Scientist**
Comprehensive Cancer Center Charité, Charité – Universitätsmedizin Berlin
Berlin, Germany
- OCT 2012 – APR 2014 **Head of Core Facility**
Charité Universitätsmedizin Berlin, Laboratory for Functional Genomics
Berlin, Germany
- JAN 2011 – DEC 2016 **OncoTrack WP2, Principal Investigator**
Charité Universitätsmedizin Berlin, Institute of Pathology
Berlin, Germany
- SEP 2010 – AUG 2013 **TREAT 20, Principal Investigator**
Charité Universitätsmedizin Berlin, Institute of Pathology
Berlin, Germany
- MAY 2010 – AUG 2013 **ERASYSBio+ LivSysiPS, Principal Investigator, Deputy Coordinator**
Charité Universitätsmedizin Berlin, Institute of Pathology
Berlin, Germany
- MAR 2010 – DEC 2016 **Group Leader**
Charité Universitätsmedizin Berlin, Institute of Pathology
Berlin, Germany
- MAY 2005 – MAR 2010 **Postdoc**
Max-Planck-Institut für molekulare Genetik, Department of Vertebrate Genomics
Berlin, Germany

Teaching Experience

2017 – 2019	Pathology of the upper GI <i>Otto-von-Guericke-Universität Magdeburg</i> Magdeburg, Germany
SINCE 2017	Molecular Pathology Mandatory Course for medical students <i>Medizinische Hochschule Brandenburg</i> Brandenburg (Havel), Germany
JUN 2009 – 2016	Molecular Pathology Mandatory Course for medical students <i>Institute for Pathology, Charité – Universitätsmedizin Berlin</i> Berlin, Germany
APR 2010 – 2014	Member of the PhD committee Charite <i>Charité Universitätsmedizin Berlin</i> Berlin, Germany
OCT 2009 – 2019	Cancer Stem Cells Master Course Molecular Medicine <i>Charité Universitätsmedizin Berlin</i> Berlin, Germany
JAN 2013 – PRESENT	Molecular Mechanisms of Cancer Development Curriculum Psychoonkologie <i>Deutsche Gesellschaft für Psychosomatische Medizin und Ärztliche Psychotherapie</i> Berlin, Germany

Statistics

PUBLICATIONS	45
H-INDEX	21
CITATIONS	1474

Awards & Grants

OCT 2014	Generating iPS cells from colon organoids (Grant)
DEC 2012	Innovationspreis 2012 (Award)
JAN 2011	Oncotrack (Grant)
SEP 2010	TREAT 20 (Grant)
JUN 2009	Gisela-Stadelmann Stiftung (Scholarship)
MAR 2009	Cancer Stem Cells (Grant)
MAY 2005	Fritz-Thyssen Stipendium (Scholarship)

Skills & Activities

SKILLS Cell Culture, Cancer Biology, Cancer Stem Cells, Gene Expression, PCR, Next Generation Sequencing, Cancer Cell Signaling, Far Western Blot, Real-Time PCR, Cancer Cells, Cell Adhesion Molecules, Cancer, Pathway Analysis, Expression Microarrays, Gene Expression Analysis, Expression Profiling, Colon Cancer, Experimental Melanoma, Big Data, NGS Data Analysis, 3D Culture, iPSC, Data Management, Gel Electrophoresis, Cell Signaling, Animal Cell Culture, Cellular Biology, Molecular Oncology, Primary Cell Culture, Tumor Biology, Signaling, Co-Immunoprecipitation, Cell Isolation, Metastasis, Heat Shock Proteins, CDK, Cell Cycle Analysis, Human Cell Culture, Immunolabelling, Cancer Chemoprevention, Cell Imaging, Experimental Oncology, Extracellular Matrix Biology, Cell Line Development, Cell Line Maintenance, Immunofluorescence Staining, ES Cell Culture, FGF, WNT Signaling, Mammalian Cell Transfection, Conditional Gene Inactivation, Immunofluorescence, Tumor Genetics, Subcellular Fractionation, Cell Line Culture, Immunohistochemistry, Co-Culture, Laboratory Animal Handling, mRNA Isolation, Cellular Biochemistry, Molecular Cloning, Tumor Cell Culture, Oncogenetics, Cancer Biomarkers, Small Animal Handling, SDS-PAGE, Molecular Carcinogenesis, In Vitro Cell Culture, Biomedicine, Cloning, Immunocytochemistry, Mammalian Cell Culture, Molecular Cell Biology, Molecular Genetics, Tissue Culture, Cell Lysis, Cell Differentiation, Cell Division, Cell Separation, Cell Survival, DNA, Preclinical Drug Evaluation, Electrophoresis, Flow Cytometry, Immunohistochemistry, Protein Kinases, Immunoblotting, Signal Transduction, Cell Polarity, Immunomagnetic Separation, Electroporation, Genomics, Immunoprecipitation, Cell Proliferation, Epithelial-Mesenchymal Transition, Tumor Microenvironment, Tumor Markers, DNA Sequencing, Signaling, Biomedical Science, Stem Cell Biology, Cell Viability, Gene Silencing, Sequencing, Cancer Cell Biology, Lentiviral Transduction, Lentivirus Production, Western Blot Analysis, FACS Staining, High Throughput Screening, Bioscience, Business Development, Decision Support, Reverse Transcription PCR

LANGUAGES English
German

SCIENTIFIC MEMBERSHIPS

German representative of Management Committee COST-Aktion
CA21135 "Modelling immunotherapy response and toxicity in cancer"
New York Academy of Science (NYAS)
Scientists without Borders (SWB)
Patients Like Me (PLM)
American Association for Cancer Research (AACR)
European Association for Cancer Research (EACR)
German Cancer Society (DKG)
Berlin Cancer Society (BKG)
Cancer Rebels e.V.

INTERESTS History, Jazz, Swimming

Book Chapters

Alessandra Silvestri, Dirk Schumacher, Maxine Silvestrov, Reinhold Schäfer, Christoph Reinhard, Jens Hoffmann, Karsten Boehnke, Christian R. A. Regenbrecht: **In Vitro Three-Dimensional Cell Cultures as Tool for Precision Medicine**. *Mechanisms of Molecular Carcinogenesis – Volume 2*, Edited by Johannes Haybäck, 06/2017: chapter 14: pages 281-313; Springer International Publishing., ISBN: 978-3-319-53660-6, DOI:10.1007/978-3-319-53661-3_14

Torben Redmer, Dirk Schumacher, Wasco Wruck, Reinhold Schafer, Christian RA Regenbrecht: **Cancer Stem Cells: The Gist of the Matter**. *Stem Cell Biology and Regenerative Medicine*, Edited by Turksen K, 01/2013; Springer., DOI:10.1007/978-1-4614-8066-2_10

Journal Publications (original work)

Roohani S, Loskutov J, Heufelder J, Ehret F, Wedeken L, Regenbrecht M, Sauer R, Zips D, Denker A, Jousen AM, Regenbrecht CRA, Kaul D: **Photon and Proton irradiation in Patient-derived, Three-Dimensional Soft Tissue Sarcoma Models**. *BMC Cancer*. 2023, 23(1):577.

Pfohl U, Loskutov J, Bashir S, Kühn R, Herter P, Templin M, Mamlouk S, Belanov S, Linnebacher M, Bürtin F, Vetter M, Reinhard C, Wedeken L, Regenbrecht CRA: **A RAS-Independent Biomarker Panel to Reliably Predict Response to MEK Inhibition in Colorectal Cancer**. *Cancers (Basel)*. 2022 Jul 1;14(13):3252. doi: 10.3390/cancers14133252. PMID: 35805024; PMCID: PMC9265111.

Regan JL, Schumacher D, Staudte S, Steffen A, Lesche R, Toedling J, Jourdan T, Haybaeck J, Golob-Schwarzl N, Mumberg D, Henderson D, Györfy B, Regenbrecht CRA, Keilholz U, Schäfer R, Lange M: **Identification of a neural development gene expression signature in colon cancer stem cells reveals a role for EGR2 in tumorigenesis**. *iScience*. 2022 May 31;25(7):104498. doi: 10.1016/j.isci.2022.104498. PMID: 35720265; PMCID: PMC9204726.

Dahlmann M, Gambará G, Brzezicha B, Popp O, Pachmayr E, Wedeken L, Pflaume A, Mokritzki M, Gül-Klein S, Brandl A, Schweiger-Eisbacher C, Mertins P, Hoffmann J, Keilholz U, Walther W, Regenbrecht C, Rau B, Stein U: **Peritoneal metastasis of colorectal cancer (pmCRC): identification of predictive molecular signatures by a novel preclinical platform of matching pmCRC PDX/PD3D models**. *Mol Cancer*. 2021 Oct 21;20(1):129. doi: 10.1186/s12943-021-01430-7. PMID: 34670579; PMCID: PMC8529724.

Regan JL, Schumacher D, Staudte S, Steffen A, Lesche R, Toedling J, Jourdan T, Haybaeck J, Mumberg D, Henderson D, Györfy B, Regenbrecht CRA, Keilholz U, Schäfer R, Lange M: **RNA sequencing of long-term label-retaining colon cancer stem cells identifies novel regulators of quiescence**. *iScience*. 2021 May 24;24(6):102618. doi: 10.1016/j.isci.2021.102618. PMID: 34142064; PMCID: PMC8185225.

Heuberger J, Grinat J, Kosel F, Liu L, Kunz S, Vidal RO, Keil M, Haybaeck J, Robine S, Louvard D, Regenbrecht C, Sporbert A, Sauer S, von Eyss B, Sigal M, Birchmeier W: **High Yap and Mll1 promote a persistent regenerative cell state induced by Notch signaling and loss of p53**. *Proc Natl Acad Sci U S A*. 2021 Jun 1;118(22):e2019699118. doi: 10.1073/pnas.2019699118. PMID: 34039707.

Regan JL, Schumacher D, Staudte S, Steffen A, Lesche R, Toedling J, Jourdan T, Haybäck J, Mumberg D, Henderson D, Györfy B, Regenbrecht CRA, Keilholz U, Schäfer R, Lange M: **RNA sequencing of long-term label-retaining colon cancer stem cells identifies novel regulators of quiescence**. *Cell iScience*. 2021 May 22 doi: 10.1016/j.isci.2021.102618

Thole TM, Toedling J, Sprüssel A, Pfeil S, Savelyeva L, Capper D, Messerschmidt C, Beule D, Groenewald-Krentz S, Eckert C, Gambaro G, Henssen AG, Finkler S, Schulte JH, Sieber A, Bluethgen N, [Regenbrecht CRA](#), Künkele A, Lodrini M, Eggert A, Deubzer HE: **Reflection of neuroblastoma intratumor heterogeneity in the new OHC-NBI disease model.** *Int J Cancer*. 2020 Feb 15;146(4):1031-1041. doi: 10.1002/ijc.32572. Epub 2019 Aug 1. PMID: 31304977.

Schumacher D, Andrieux G, Boehnke K, Keil M, Silvestri A, Silvestrov M, Keilholz U, Haybaeck J, Erdmann G, Sachse C, Templin M, Hoffmann J, Boerries M, Schäfer R, [Regenbrecht CRA](#): **Heterogeneous pathway activation and drug response modelled in colorectal-tumor-derived 3D cultures.** *PLoS Genet*. 2019 Mar 29;15(3):e1008076. doi: 10.1371/journal.pgen.1008076. Erratum in: *PLoS Genet*. 2019 May 29;15(5):e1008183. PMID: 30925167; PMCID: PMC6457557.

Gantenbein N, Bernhart E, Anders I, Golob-Schwarzl N, Krassnig S, Wodlej C, Brcic L, Lindenmann J, Fink-Neuboeck N, Gollowitsch F, Stacher-Priehse E, Aslaber M, Gogg-Kamerer M, Rolff J, Hoffmann J, Silvestri A, [Regenbrecht C](#), Reinhard C, Pehserl AM, Pichler M, Sokolova O, Naumann M, Mitterer V, Pertschy B, Bergler H, Popper H, Sattler W, Haybaeck J: **Influence of eukaryotic translation initiation factor 6 on non-small cell lung cancer development and progression.** *Eur J Cancer*. 2018 Sep;101:165-180. doi: 10.1016/j.ejca.2018.07.001. Epub 2018 Aug 1. PMID: 30077122.

Joseph L Regan, Dirk Schumacher, Stephanie Staudte, Andreas Steffen, Johannes Haybaeck, Ulrich Keilholz, Caroline Schweiger, Nicole Golob-Schwarzl, Dominik Mumberg, David Henderson, Hans Lehrach, [Christian RA Regenbrecht](#), Reinhold Schäfer, Martin Lange: **Non-Canonical Hedgehog signaling is a positive regulator of the WNT pathway and is required for the survival of colon cancer stem cells.** *Cell Reports* (accepted)

Nicole Golob-Schwarzl, Caroline Schweiger, Carina Koller, Stefanie Krassnig, Margit Gogg-Kamerer, Nadine Gantenbein, Anna M. Toeglhofer, Christina Wodlej, Helmut Bergler, Brigitte Pertschy, Stefan Uranitsch, Magdalena Holter, Amin El-Heliebi, Julia Fuchs, Andreas Punschart, Philipp Stiegler, Marlen Keil, Jens Hoffmann, David Henderson, Hans Lehrach, Christoph Reinhard, [Christian Regenbrecht](#), Rudolf Schicho, Peter Fickert, Sigurd Lax, Johannes Haybaeck: **Separation of low and high grade colon and rectum carcinoma by eukaryotic translation initiation factors 1, 5 and 6.** *Oncotarget* 09/2017; DOI:10.18632/oncotarget.20642

Moritz Schütte, Thomas Risch, Nilofar Abdavi-Azar, Karsten Boehnke, Dirk Schumacher, Marlen Keil, Reha Yildirim, Christine Jandrasits, Tatiana Borodina, Vyacheslav Amstislavskiy, Catherine L. Worth, Caroline Schweiger, Sandra Liebs, Martin Lange, Hans- Jörg Warnatz, Lee M. Butcher, James E. Barrett, Marc Sultan, Christoph Wierling, Nicole Golob-Schwarzl, Sigurd Lax, Stefan Uranitsch, Michael Becker, Yvonne Welte, Joseph Lewis Regan, Maxine Silvestrov, Inge Kehler, Alberto Fusi, Thomas Kessler, Ralf Herwig, Ulf Landegren, Dirk Wienke, Mats Nilsson, Juan A. Velasco, Pilar Garin-Chesa, Christoph Reinhard, Stephan Beck, Reinhold Schäfer, [Christian R. A. Regenbrecht](#), David Henderson, Bodo Lange, Johannes Haybaeck, Ulrich Keilholz, Jens Hoffmann, Hans Lehrach, Marie-Laure Yaspo: **Molecular dissection of colorectal cancer in pre-clinical models identifies biomarkers predicting sensitivity to EGFR inhibitors.** *Nature Communications* 02/2017; 8:14262., DOI:10.1038/ncomms14262

Torben Redmer, Isabel Walz, Bertram Klinger, S Khouja, Yvonne Welte, Reinhold Schäfer, [Christian RA Regenbrecht](#): **The role of the cancer stem cell marker CD271 in DNA damage response and drug resistance of melanoma cells.** *Oncogenesis* 01/2017; 6(1):e291., DOI:10.1038/oncsis.2016.88

Karsten Boehnke, Philip W Iversen, Dirk Schumacher, María José Lallena, Rubén Haro, Joaquín Amat, Johannes Haybaeck, Sandra Liebs, Martin Lange, R. Schafer, [Christian R A Regenbrecht](#), Christoph Reinhard, Juan A Velasco: **Assay Establishment and Validation of a High-Throughput Screening Platform for Three-Dimensional Patient-Derived Colon Cancer Organoid Cultures.** *Journal of Biomolecular Screening* 05/2016; 21(9), DOI:10.1177/1087057116650965

Wasco Wruck, Karl Kashofer, Samrina Rehman, Andriani Daskalaki, Daniela Berg, Ewa Gralka, Justyna Jozefczuk, Katharina Drews, Vikash Pandey, [Christian Regenbrecht](#), Christoph Wierling, Paola Turano, Ulrike Korf, Kurt Zatloukal, Hans Lehrach, Hans V. Westerhoff, James Adjaye: **Multi-omic profiles of human non-alcoholic fatty liver disease tissue highlight heterogenic phenotypes.** *Scientific Data* 12/2015; 2:150068., DOI:10.1038/sdata.2015.68

Savas D Soysal, Incken B Kilic, [Christian R A Regenbrecht](#), Sandra Schneider, Simone Muenst, Nerbil Kilic, Uwe Güth, Manfred Dietel, Luigi M Terracciano, Ergin Kilic: **Status of estrogen receptor 1 (ESR1) gene in mastopathy predicts subsequent development of breast cancer.** *Breast Cancer Research and Treatment* 05/2015; 151(3), DOI:10.1007/s10549-015-3427-y

Torben Redmer, Yvonne Welte, Diana Behrens, Iduna Fichtner, Dorothea Przybilla, Wasco Wruck, Marie-Laure Yaspo, Hans Lehrach, Reinhold Schäfer, [Christian R. A. Regenbrecht](#): **The Nerve Growth Factor Receptor CD271 Is Crucial to Maintain Tumorigenicity and Stem-Like Properties of Melanoma Cells.** *PLoS ONE* 05/2014; 9(5):e92596., DOI:10.1371/journal.pone.0092596

Antje Banning, [Christian R.A. Regenbrecht](#), Ritva Tikkanen: **Increased activity of mitogen activated protein kinase pathway in flotillin-2 knockout mouse model.** *Cellular Signalling* 11/2013; 26(2), DOI:10.1016/j.cellsig.2013.11.001

Yvonne Welte, Cathrin Davies, Reinhold Schäfer, [Christian R.A. Regenbrecht](#): **Patient Derived Cell Culture and Isolation of CD133+ Putative Cancer Stem Cells from Melanoma.** *Journal of Visualized Experiments* 03/2013;, DOI:10.3791/50200

Antonia Busse, Anne Letsch, Alberto Fusi, Anika Nonnenmacher, David Stather, Sebastian Ochsenreither, [Christian RA Regenbrecht](#), Ulrich Keilholz: **Characterization of small spheres derived from various solid tumor cell lines: Are they suitable targets for T cells?** *Clinical and Experimental Metastasis* 03/2013; 30(6), DOI:10.1007/s10585-013-9578-5

Wasco Wruck, Martin Peuker, [Christian R.A. Regenbrecht](#): **Data management strategies for multinational large-scale systems biology projects.** *Briefings in Bioinformatics* 10/2012; 15(1), DOI:10.1093/bib/bbs064

Justyna Jozefczuk, Karl Kashofer, Ramesh Ummanni, Frauke Henjes, Samrina Rehman, Suzanne Geenen, Wasco Wruck, [Christian Regenbrecht](#), Andriani Daskalaki, Christoph Wierling, Paola Turano, Ivano Bertini, Ulrike Korf, Kurt Zatloukal, Hans V Westerhoff, Hans Lehrach, James Adjaye: **A Systems Biology Approach to Deciphering the Etiology of Steatosis Employing Patient-Derived Dermal Fibroblasts and iPS Cells.** *Frontiers in Physiology* 09/2012; 3:339., DOI:10.3389/fphys.2012.00339

Pedro Duenisch, Rupert Reichart, Ulrike Mueller, Michael Brodhun, Rolf Bjerkgvig, Bernd Romeike, Jan Walter, Christian Herbold, [Christian R A Regenbrecht](#), Rolf Kalff, Susanne A Kuhn: **Neural cell adhesion molecule isoform 140 declines with rise of WHO grade in human gliomas and serves as indicator for the invasion zone of multiform glioblastomas and brain metastases.** *Journal of Cancer Research and Clinical Oncology* 05/2010; 137(3):399-414., DOI:10.1007/s00432-010-0888-6

Susanne A Kuhn, Ulrike Mueller, Uwe-K Hanisch, [Christian R A Regenbrecht](#), Ilona Schoenwald, Michael Brodhun, Hartwig Kosmehl, Christian Ewald, Rolf Kalff, Rupert Reichart: **Glioblastoma cells express functional cell membrane receptors activated by daily used medical drugs.** *Journal of Cancer Research and Clinical Oncology* 07/2009; 135(12):1729-45., DOI:10.1007/s00432-009-0620-6

Thore C Brink, [Christian Regenbrecht](#), Lloyd Demetrius, Hans Lehrach, James Adjaye: **Activation of the immune response is a key feature of aging in mice.** *Biogerontology* 04/2009; 10(6):721-34., DOI:10.1007/s10522-009-9219-1

Susane Frank, Susane A Kuhn, Michael Brodhun, Ulrike Mueller, Bernd Romeike, Hartwig Kosmehl, [Christian RA Regenbrecht](#), Christian Ewald, Rupert Reichart, Rolf Kalff: **Metastatic glioblastoma cells use common pathways via blood and lymphatic vessels.** *Neurologia i neurochirurgia polska* 03/2009; 43(2):183-90.

[Christian RA Regenbrecht](#), Marc Jung, Hans Lehrach, James Adjaye: **The molecular basis of phytoestrogen Genistein induced mitotic arrest and exit of self-renewal in embryonal carcinoma and primary cancer cell lines.** *BMC Medical Genomics* 11/2008; 1(1):49., DOI:10.1186/1755-8794-1-49

Journal Publications (Reviews)

Sankarasubramanian S, Pfohl U, [Regenbrecht CRA](#), Reinhard C, Wedeken L. **Context Matters-Why We Need to Change From a One Size Fits all Approach to Made- to-Measure Therapies for Individual Patients With Pancreatic Cancer.** *Front Cell Dev Biol.* 2021 Nov 4;9:760705. doi: 10.3389/fcell.2021.760705. PMID: 34805167; PMCID: PMC8599957.

Pfohl U, Pflaume A, Regenbrecht M, Finkler S, Graf Adelman Q, Reinhard C, [Regenbrecht CRA](#), Wedeken L. Precision Oncology Beyond Genomics: **The Future Is Here—It Is Just Not Evenly Distributed.** *Cells.* 2021 Apr 17;10(4):928. doi: 10.3390/cells10040928. PMID: 33920536; PMCID: PMC8072767.

Guido Gambarà, Manuela Gaebler, Ulrich Keilholz, [Christian RA Regenbrecht](#), Alessandra Silvestri: **From chemotherapy to combined targeted therapeutics: in vitro and in vivo models to decipher intra-tumor heterogeneity.** *Frontiers in Pharmacology* (accepted)

Manuela Gaebler, Alessandra Silvestri, Johannes Haybaeck, Peter Reichardt, Caitlin D Lowery, Louis F Stancato, Gabriele Zybarth, [Christian RA Regenbrecht](#): **Three-Dimensional Patient-Derived In Vitro Sarcoma Models: Promising Tools for Improving Clinical Tumor Management.** *Frontiers in Oncology* 08/2017; 7., DOI:10.3389/fonc.2017.00203

David Henderson, Stephan Beck, Garry Beran, Friedhelm Bladt, Mathieu Boniol, Andreas Dahl, Marcus Dröge, Pilar Garin-Chesa, Ralph Graeser, Johannes Haybaeck, Niko Hildebrandt, Jens Hoffmann, Ulf Landegren, Ivonne Marondel, Mats Nilsson, [Christian Regenbrecht](#), Joan Seoane, Carl Steinbeisser, Ralf Sudbrak, Christoph Reinhard, Marie-Laure Yaspo, Nicholas Hoyle, Ulrich Keilholz, Bodo Lange, Hans Lehrach: **Personalized medicine approaches for colon cancer driven by genomics and systems biology: OncoTrack.** *Biotechnology Journal* 06/2014;

Yvonne Welte, James Adjaye, Hans R Lehrach, [Christian RA Regenbrecht](#): **Cancer stem cells in solid tumors: Elusive or illusive?** *Cell Communication and Signaling* 05/2010; 8(1):6., DOI:10.1186/1478-811X-8-6

[C RA Regenbrecht](#), H Lehrach, J Adjaye: **Stemming Cancer: Functional Genomics of Cancer Stem Cells in Solid Tumors.** *Stem cell reviews* 07/2008; 4(4):319-28., DOI:10.1007/s12015-008-9034-0
Conference Proceedings

Christian Seebode, Matthias Ort, Sergio González Álvarez, [Christian R. A. Regenbrecht](#): **Biobank Semantic Information Management with the Health Intelligence Platform.** *13th European Congress on Digital Pathology*, Berlin; 05/2016

Christian Seebode, Matthias Ort, Peter Hufnagl, [Christian R A Regenbrecht](#): **Next Generation Biobanks.** *2015 IEEE International Conference on Big Data*, Santa Clara, CA, USA; 11/2015, DOI:10.1109/BigData.2015.7363896

Yvonne Welte, Jerome Jatzlau, Cathrin Davies, Hendrik Bläker, [Christian Ra Regenbrecht](#): **Intestine differentiation of embryonal carcinoma cells as a model system for the redifferentiation of induced pluripotent cancer cells.** *EACR – Goodbye flat biology: 3D models and the tumour microenvironment*, Berlin; 11/2014, DOI:10.13140/2.1.3917.8568

Joseph L. Regan, Dirk Schumacher, Karsten Boehnke, Cathrin Davies, Ulrich Keilholz, Johannes Haybaeck, Christoph Reinhard, Hans Lehrach, David Henderson, Reinhold Schaefer, [Christian Regenbrecht](#), Martin Lange: **Abstract 3875: Functional and molecular characterization of colon cancer stem cells in tumor heterogeneity and disease relapse using a 3D-model of patient-derived tumors.** *Cancer Research*; 10/2014, DOI:10.1158/1538-7445.AM2014-3875

Dirk Schumacher, Karsten Boehnke, Martin Lange, Yvonne Welte, Cathrin Davies, Maria Rivera, Marlen Keil, Ulrich Keilholz, Johannes Haybaeck, Juan Angel Velasco, Marie-Laure Yaspo, Hans Lehrach, David Henderson, Christoph Reinhard, Jens Hoffmann, Reinhold Schaefer, [Christian Regenbrecht](#): **A pipeline within the OncoTrack project for generating Patient-tumor-derived 3D cell cultures (PD3C) and their application for individualized, targeted drug sensitivity assays.** *AACR Annual Meeting 2014*, San Diego; 04/2014

Maria Rivera Markelova, Marlen Keil, Karsten Boehnke, Martin Lange, Dirk Schumacher, Reinhold Schäfer, [Christian R. Regenbrecht](#), David Henderson, Ulrich Keilholz, Alexander Kuehn, Amin El-Heliebi, Tabea Hohensee, Johannes Haybäck, Christoph Reinhard, Juan A. Velasco, Hans Lehrach, Pilar Garin-Chesa, Garry Beran, Jens Hoffmann: **Abstract 2978: Generation of drug response data from 57 new patient-derived colon cancer xenografts and 3D cell cultures for systematic correlation with tumor biology within the OncoTrack* project.** *AACR Annual Meeting 2014*; San Diego, CA; 04/2014, DOI:10.1158/1538-7445.AM2014-2978

Christian Seebode, Matthias Ort, [Christian Regenbrecht](#), Martin Peuker: **BIG DATA infrastructures for pharmaceutical research.** *Big Data*, 2013 IEEE International Conference on; 10/2013, DOI:10.1109/BigData.2013.6691759

Christian Seebode, Matthias Ort, [Christian Regenbrecht](#), Martin Peuker: **HIP - Health Intelligence Platform. A Clinical Information Management Platform for Semantic Exploitation of Clinical Data.** *SCDM 2013 Annual Conference*, Chicago IL, USA; 09/2013, DOI:10.13140/RG.2.1.3723.1209

Matthieu-Patrick Schapranow, Hasso Plattner, Cafer Tosun, [Christian Regenbrecht](#): **Mobile Real-time Analysis of Patient Data for Advanced Decision Support in Personalized Medicine.** *International journal on advances in life sciences. The 5th International Conference on eHealth, Telemedicine and Social Medicine*, Nice, France; 02/2013

Matthieu-P Schapranow, Hasso Plattner, [Christian Regenbrecht](#): **Mobile Real-time Analysis of Patient Data for Advanced Decision Support in Personalized Medicine.** *The 5th International Conference on eHealth, Telemedicine and Social Medicine*, Nice, France; 02/2013, DOI:10.13140/2.1.3166.3044

[C Regenbrecht](#), J Felsberg, T Pietsch, G Reifenberger, T Huang, OD Wiestler, A Waha: **Analysis of candidate gene methylation on glioma microarrays.** *49th Annual Meeting of the*; 10/2004