Curriculum Vitae

Andreas Trumpp, PhD

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Date of Birth	March 6, 1964
Place of Birth	Heilbronn, Germany
Nationality	German
Marital Status	married, three children (born: 1995, 1998, 2000)

1. Professional Experience

Since June 2016	Member of the Board of the Directors of the NCT (National Center for Tumor Diseases), Heidelberg
Since April 2016	Director (joint) of the DKFZ-ZMBH-Alliance (26 faculty)
Since March 2016	Head of Research Program A: Cell Biology and Tumor Biology at the DKFZ (22 faculty), Heidelberg
Since November 2013	Acting President (2013-2014) and member of the Executive board of the German Stem Cell Network (GSCN e.V.) supported by the BMBF
September 2008 - present	Managing Director of HI-STEM (Heidelberg Institute for Stem Cell Technology and Experimental Medicine gGmbH), Heidelberg
July 2008- present	Professor and Head of the Division of Stem Cells and Cancer at the DKFZ Heidelberg
January 2005 - June 2008	Professor (PATT) for Molecular Oncology and Stem Cell Biology at the École Polytechnique Fédérale de Lausanne (EPFL)
April 2000 - June 2008	Head of the "Genetics and Stem Cell Laboratory" at the Swiss Institute for Experimental Cancer Research (ISREC) in Epalinges/Lausanne, Switzerland
April 1994 - March 2000	Postdoctoral research at University of California San Francisco in the Laboratories of Prof. J. Michael Bishop and Prof. Gail R. Martin
January 1993 - November 1993	Postdoctoral research at EMBL, Heidelberg with Dr. Rolf Zeller
October 1989 - December 1992	PhD thesis research at EMBL, Heidelberg, "Cloning and functional analysis of the chicken and mouse *limb deformity* (*ld*) gene", Dr. Rolf Zeller and Prof. Thomas Graf
August 1988 - June 1989	Diploma thesis (equivalent to Masters degree) at the Dept. of Mol. Biol. and Genetics, University of Freiburg, Germany
October 1984 - July 1988	Biology Student at the University of Freiburg, Germany; completed Diploma exams (grade 1.0)

2. Publications

Top 10 Papers as corresponding author

1 Scognamiglio R., Cabezas-Wallscheid N., Thier M.C., Altamura S., Reyes A., Prendergast Á.M., Baumgärtner D., Carnevalli L.S., Atzberger A., Haas S., von Paleske L., Boroviak T., Wörsdörfer P., Essers M.A.G., Kloz U., Eisenman R.N., Edenhofer F., Bertone P., Huber W., van der Hoeven F., Smith A. and **Trumpp A.** (2016). Myc Depletion Induces a Pluripotent Dormant State Mimicking Diapause. **Cell** Feb 11; 164(4), 668-680.

The paper was selected as the **Cover article** of the Feb. 2016 issue of **Cell.** The paper was highlighted in a News & Views article in EMBO Journal by Sinya Yamanaka (March 10, 2016).
Impact Factor: 28.7 (2015). Citations: 3 (too new)

2 Noll E.M., Eisen C., Stenzinger A., Espinet E., Muckenhuber A., Klein C., Vogel V., Klaus B., Nadler W., Rösli C., Lutz C., Kulke M., Engelhardt J., Zickgraf F.M., Epsinosa O., Schlesner M., Jiang X., Kopp-Schneider A., Neuhaus P., Bahra M., Sinn B.V., Eils R., Giese N.A., Hackert T., Strobel O., Werner J., Büchler M.W., Weichert W., **Trumpp A.*** and Sprick M.R.* (2016). CYP3A5 mediates resistance to small molecule inhibitors in pancreatic cancer. **Nature Medicine** Mar; 22(3), 278-287. (Epub 2016 Feb 8). *** joint last and corresponding authors.**

The paper was highlighted in previews by Cancer Discovery (April 1, 2016 6; OF14) and Nature Reviews Gastroenterology and Hepatology (13,188 (2016)).
Impact Factor: 30.4 (2015). Citations: 2 (too new)

3 Cabezas-Wallscheid N., Klimmeck D., Hansson J., Lipka D.B., Reyes A., et al., Huber W.*, Milsom M.D.*, Plass C.*, Krijgsveld J.* and **Trumpp A**.* (2014). Identification of regulatory networks in HSCs and their immediate progeny via integrated proteome, transcriptome and DNA methylome analysis. **Cell Stem Cell** Oct 2; 15(4), 507-522.

* the paper was selected as the **Cover article** of the October issue of **Cell Stem Cell**.
The paper was highlighted in a Preview by Demetrios Kalaitzidis and David Scadden in the **EMBO Journal**. *Deep diving in the blood stem cell-ome*. DOI 10.15252/embj.201489778.
Impact Factor: 22.387 (2015). Citations: 51 (too new); >6450 downloads (5/2015)

4 Medyouf H., Mossner M., Jann J.C., Nolte F., Raffel S., Herrmann C., Lier A., Eisen C., Nowak V., Zens B., Müdder K., Klein C., Obländer J., Fey S., Vogler J., Fabarius A., Riedl E., Roehl H., Kohlmann A., Staller M., Haferlach C., Müller N., John T., Platzbecker U., Metzgeroth G., Hofmann WK., **Trumpp A.***, Nowak D.* (2014). Myelodysplastic cells in patients reprogram mesenchymal stromal cells to establish a transplantable stem cell niche disease unit. **Cell Stem Cell** Jun 5; 14(6), 824-837.

*Joined last author and A.T. is corresponding author. This article was highlighted in a “preview in CELL Stem Cell by Marc H.G.P. Raaijmakers: Disease Progression in Myelodysplastic Syndromes: Do Mesenchymal Cells Pave the Way?
Impact Factor: 22.387 (2015). Citations: 76 (too new); >4600 downloads (5/2015)

5 Baccelli I., Schneeweiss A., et. al. and **Trumpp A.** (2013). Identification of a population of blood circulating tumor cells from breast cancer patients that initiates metastasis in a xenograft assay. **Nature Biotechnology** Jun; 31(6), 539-544.

This article was highlighted in: “Identifying the metastatic seeds of breast cancer”, Nature Biotechnology - NEWS AND VIEWS by Angera H. Kuo and Michael F. Clarke (Volume 31, Number 6, June 2013)
Impact Factor: 43.113 (2015), **Citations: 282**

6 Essers M.A., Offner S., Blanco-Bose W.E., Waibler Z., Kalinke U., Duchosal M.A. and **Trumpp A.** (2009). IFNalpha activates dormant HSCs in vivo. **Nature** Apr 16; 458(7240), 904-908.

This article was highlighted in: "The New England Journal of Medicine" (Sipkins DA. Rendering the leukemia cell susceptible to attack. N Engl J Med. 2009 Sep 24;361(13):1307-9).
„Nature Medicine" (Passegue and Ernst, IFN-alpha wakes up sleeping hematopoietic stem cells. Nat Med. 2009, 15:612-613).
"EMBO Molecular Medicine" (Viale and Pelicci. Awaking stem cells from dormancy: growing old and fighting cancer. EMBO Mol. Med. 2009, 1:88-91).
It was picked by two "Faculty of 1000 Biology" members and has received the combined score of 8.0). In addition it was picked and evaluated by three "Faculty of 1000 Medicine" members and has received a combined F1000 Score of 9.8 (>9.0 is exceptional) and was for some time one of the highest rated papers in the F1000 Medicine section and was a member of the Top 10 list.
Impact Factor: 38.138 (2015), Citations: 613

7 Wilson A., Laurenti E., Oser G., van der Wath R.C., Blanco-Bose W., Dunant C.F., Bockamp E., Liò P., Macdonald H.R. and **Trumpp A.** (2008). Hematopoietic stem cells reversibly switch from dormancy to self-renewal during homeostasis and repair. **Cell** Dec 12; 135(6), 1118-1129.

The paper was highlighted with a Preview by David Scadden in Cell.
This article was picked and evaluated by one "Faculty of 1000 Medicine" member and has received a score of 3.0. In addition it was picked and evaluated by three "Faculty of 1000 Biology" members and has received a combined F1000 Score of 9.8 (>9.0 is exceptional) and is currently one of the highest rated papers in the F1000 Biology section and was a member of the current Top 10 list. It was on position 5 of the most read/downloaded papers in Cell.
Impact factor: 28.710 (2015) Citations: 908

8 Laurenti E., Varnum-Finney B., Wilson A., Ferrero I., Blanco-Bose W.E., Ehninger A., Knoepfler P.S., Cheng P.F., MacDonald H.R., Eisenman R.N., Bernstein I.D. and **Trumpp A**. (2008). Hematopoietic stem cell function and survival depend on c-Myc and N-Myc activity. **Cell Stem Cell** Dec 4; 3(6), 611-624.

The paper was highlighted with a Preview by Guy Sauvageau in Cell Stem Cell. This paper was on position 13 of the most read/downloaded papers in CELL Stem Cell.
Impact factor: 22.387 (2015) Citations: 170

9 Wilson A., Murphy M.J., Oskarsson T., Kaloulis K., Bettess M.D., Oser G.M., Pasche A.C., Knabenhans C., Macdonald H.R. and **Trumpp A.** (2004). c-Myc controls the balance between hematopoietic stem cell self-renewal and differentiation. **Genes Dev.** Nov 15; 18(22), 2747-2763.

This article was picked and evaluated by one "Faculty of 1000" member and has received a F1000 Score of 3.0 (Recommended).
Impact factor: 10.042 (2015) Citations: 541

10 **Trumpp A.** (corresponding author)**,** Refaeli Y., Oskarsson T., Gasser S., Murphy M., Martin G.R. & Bishop J.M. (2001). c-Myc regulates mammalian body size by controlling cell number but not cell size. **Nature** Dec 13; 414(6865), 768-773.

This article was picked and evaluated by three "Faculty of 1000" members and has received a F1000 Score of 6.5 (>6 = Must read).
Impact factor: 38.138 (2015) Citations: 362

Best Reviews

1 Wilson A. and **Trumpp A.** (2006). Bone marrow hematopoietic-stem-cell niches. **Nature Reviews Immunology** Feb; 6(2), 93-106.
Impact factor: 39.416 (2015) Citations: 1133

2 **Trumpp A.,** Essers M. and Wilson A. (2010). Awakening dormant haematopoietic stem cells. **Nature Reviews Immunology** Mar; 10(3), 201-209.
Impact factor: 39.416 (2015) Citations: 217

3 Baccelli I. and **Trumpp A.** (2012). The evolving concept of cancer and metastasis stem cells. **J Cell Biol.** Aug 6; 198(3), 281-293.
Impact factor: 8.717 (2015) Citations: 193

Original Articles (oldest first)

1 Feix G., Schwall M., Haaß M., Maier U., Quale T., Schmitz L. and **Trumpp A.** (1990). Regulatory elements of maize storage protein genes. In: **Genetic Engineering of Crop Plants,** eds. C.P. Grierson, G. Lycett. Butterworth and Heinemann, Oxford, pp159-170.

2 Blundell P.A., de la Pompa J.L., Meijers J.H.C., **Trumpp A.** and Zeller R. (1991). The limb deformity gene encodes evolutionarily highly conserved proteins. In: **Developmental Patterning of the Vertebrate Limb**, ed. Hinchliffe J.R. et al. Plenum Press, New York, pp 25-30.

3 **Trumpp A.** (1992). Das *limb deformity* Gen kodiert neuartige Kernproteine, welche während der embryonalen Determinierung und Differenzierung exprimiert sind. Ph.D Thesis, **University of Freiburg**, Germany.

4 **Trumpp A**., Blundell P.A., de la Pompa J.L. and Zeller R. (1992). The limb deformity (ld) gene encodes nuclear proteins involved in embryonic development. **Biol. Chem**. **Hoppe-Seyler**; 297, 831.

5 **Trumpp, A.** Blundell P.A., de la Pompa J.L. and Zeller R. (1992). The chicken limb deformity gene encodes nuclear proteins expressed in specific cell types during morphogenesis. **Genes & Development** Jan; 6(1), 14-28.

6 Bates B., **Trumpp A.,** Rios M., Chen C., Fan G., Bishop J.M. and Jaenisch R. (1999). Neurotrophin-3 is required for proper cerebellar development. **Nature Neuroscience** Feb; 2(2), 115-117.

7 **Trumpp A.**, Depew M.J., Rubenstein J.L., Bishop J.M. and Martin G.R. (1999). Cre-mediated gene inactivation demonstrates that FGF8 is required for cell survival and patterning of the first branchial arch. **Genes & Development** Dec 1; 13(23), 3136-3148.

8 Buchholz F., Refaeli Y., **Trumpp A.** and Bishop J.M. (2000). Inducible chromosomal translocation of AML1 and ETO genes through Cre/loxP mediated recombination in the mouse. **EMBO Reports** Aug; 1(2), 133-139.

9 Fan G., Beard C., Chen R.Z., Csankovszki G., Sun Y., Siniaia M., Biniszkiewicz D., Bates B., Lee PP., Kuhn R., **Trumpp A.**, Poon C.S., Wilson C.B. and Jaenisch R. (2001). DNA hypomethylation perturbs the function and survival of CNS neurons in postnatal animals. **J Neurosci** Feb 1; 21(3), 788-797.

10 Groszer M., Erickson R., Scripture-Adams D.D., Lesche R., **Trumpp A.**, Zack J.A., Kornblum H.I., Wu H. and Liu X. (2001). Negative regulation of neural stem/progenitor cell proliferation by the Pten tumor suppressor gene in Vivo. **Science** Dec 7; 294(5549), 2186-2189. This article was picked and evaluated by three “Faculty of 1000” members and has received a F1000 Score of 8.1.

11 **Trumpp A.*,** Refaeli Y., Oskarsson T., Gasser S., Murphy M., Gail R. Martin and

Bishop J.M. (2001). c-Myc regulates mammalian body size by controlling cell number but not cell size. **Nature** Dec 13; 414(6865), 768-773. (* corresponding author). This article was picked and evaluated by three "Faculty of 1000" members and has received a F1000 Score of 6.5.

12 Delacour A., Nepote V., **Trumpp A.** and Herrera P.L. (2003) Nestin expression in pancreatic exocrine cell lineages. **Mech Dev**. Jan; 121(1), 3-14.

13 Crone S.A., Negro A., **Trumpp A.,** Giovannini M. and Lee K.F. (2003). Colonic Epithelial Expression of ErbB2 Is Required for Postnatal Maintenance of the Enteric Nervous System. **Neuron** Jan 9; 37(1), 29-40.

14 MacPherson D., Sage J., Crowley D., **Trumpp A.**, Bronson R.T. and Jacks T. (2003). Conditional mutation of Rb causes cell cycle defects without apoptosis in the central nervous system. **Mol. Cell. Biol**. Feb; 23(3), 1044-1053.

15 Wilson A., Murphy M.J., Kaloulis K., Bettess M.D., Pasche A.C., Macdonald H.R. and **Trumpp A.** (2004). c-Myc controls the balance between hematopoietic stem cell self-renewal and differentiation. **Genes Dev.** Nov 15; 18(22), 2747-2763. This article was picked and evaluated by one "Faculty of 1000" member and has received a F1000 Score of 3.0.

16 Murphy M.J., Wilson A., **Trumpp A.** (2005). More than just proliferation: Myc function in stem cells. **Trends Cell Biol.** Mar; 15(3), 128-137.

17 Oskarsson T., **Trumpp A.** (2005). The Myc trilogy: lord of RNA polymerases. **Nat Cell Biol.** Mar; 7(3), 215-217.

18 Refaeli Y., Field K.A., Turner B.C., **Trumpp A.** and Bishop J.M. (2005). The Protooncogene MYC can break B cell tolerance. **Proc Natl Acad Sci USA** Mar 15; 102(11), 4097-4102.

19 Ackermann J., Frutschi M., Kaloulis K., McKee T., **Trumpp A.** and Beermann F. (2005). Metastasizing melanoma formation caused by expression of activated N-ras^{Q61K} on an INK4a-deficient background. **Cancer Research** May 15; 65(10), 4005-4011.

20 Bettess M.D., Murphy M.J., Dubey C., Dubois N., Roger C., Robine S. and **Trumpp A.** (2005). c-Myc is required for the formation of intestinal crypts, but dispensable for homeostasis of the adult intestinal epithelium. **Molecular and Cellular Biology** Sep; 25(17), 7868-7878.

21 Riggi N., Cironi P.P., Suva M.-L., Kaloulis K., Garcia-Echeveria C., Hoffmann F., **Trumpp A.** and Stamenkovic I. (2005). Development of Ewing's Sarcoma from Primary Bone Marrow-Derived Mesenchymal Progenitor Cells. **Cancer Research** Dec 15; 65 (24), 11459-11468.

22 **Trumpp A.** (2006). c-Myc and activated Ras during skin tumorigenesis: cooperation at the cancer stem cell level? **Ernst Schering Found Symp Proc.**; 5, 13-26.

23 Beermann F., Kaloulis K., Hofmann D., Murisier F., Bucher P. and **Trumpp A**. (2006). Identification of evolutionarily conserved regulatory elements in the mouse *Fgf8* locus. **Genesis** Jan; 44(1),1-6.

24 Wilson A. and **Trumpp A.** (2006). Bone marrow hematopoietic-stem-cell niches. **Nature Reviews Immunology** Feb; 6(2), 93-106.

25 Prathapam T., Tegen S., Oskarsson T., **Trumpp A**. and Martin G.S. (2006). Activated Src abrogates the Myc requirement for the G0/G1 transition but not for the G1/S

transition. **Proc Natl Acad Sci USA** Feb 21; 103(8), 2695-2700.

26 Bianchi T., Gasser S., **Trumpp A**. and Macdonald H.R. (2006). c-Myc acts downstream of IL-15 in the regulation of memory CD8 T cell homeostasis. **Blood** May 15; 107(10), 3992-3999.

27 Sclafani A.M., Skidmore J.M., Ramaprakash H., **Trumpp A.,** Gage P.J. and Martin D.M. (2006). Nestin-Cre mediated deletion of Pitx2 in the mouse. **Genesis** Jul; 44(7), 336-344.

28 Oskarsson T., Essers M.A., Dubois D., Dubey C., Roger C., Metzger D., Chambon P., Hummler E., Beard P. and **Trumpp A.**· (2006). Skin epidermis lacking the *c-myc* gene is resistant to Ras driven tumorigenesis but can re-acquire sensitivity upon additional loss of the $p21^{CIP1}$ gene. **GenesDev** Aug 1; 20(15), 2024-2029. This article was picked and evaluated by one "Faculty of 1000" member and has received a F1000 Score of 3.0.

29 Dubois N.C., Hofmann D., Kaloulis K., Bishop J.M. and **Trumpp A.** (2006). The Nestin-Cre transgenic mouse line Nes-Cre1 mediates highly efficient Cre/loxP mediated recombination in the nervous system, kidney and somite derived tissues. **Genesis** Aug; 44(8), 355-360.

30 Wilson A., Oser G.M., Jaworski M., Blanco-Bose W.E., Laurenti E., Adolphe C., Essers M.A., Macdonald H.R. and **Trumpp A.** (2007). Dormant and self-renewing hematopoietic stem cells and their niches. **Ann. N.Y. Acad. Sci.** Jun; 1106, 64-75. Epub 2007 Apr 18.

31 Ju, Z., Jiang H., Jaworski M., Gompf A., Rathinam C.[3], Klein C., **Trumpp A.** and Rudolph K.L. (2007). Telomere dysfunction induces environmental alterations limiting hematopoietic stem cell function and engraftment. **Nat Med**. Jun; 13(6), 742-747.

32 Strom A., Bonal C., Ashery-Padan R., Hashimoto N., Campos M.L., **Trumpp A.**, Noda T., Kido Y., Real F.X., Thorel F. and Herrera P.L. (2007). Unique mechanisms of growth regulation and tumor suppression upon Apc inactivation in the pancreas. **Development** Aug; 134(15), 2719-2725. Epub 2007 June 27.

33 Bonal C., Thorel F., Ait-Lounis A., Reith W., **Trumpp A.** and Herrera P.L. (2008). Pancreatic Inactivation of c-Myc Decreases Acinar Mass and Transfifferentiates Acinar Cells into Adipocytes in Mice. **Gastroenterology** Jan; 136 (1), 309-319. Epub 2008 Oct 9.

34 **Trumpp A.**, Wiestler O.D. (2008). Mechanisms of Disease: cancer stem cells - targeting the evil twin. **Nat Clin Pract Oncol.** Jun; 5(6), 337-347.

35 Dubois N., Adolphe C., Ehninger A., Robertson E.J., Wang R. and **Trumpp A**. (2008). Placental rescue reveals a sole requirement for c-Myc in erythroblast survival and hematopoietic stem cell function. **Development** Aug; 135(14), 2455-2465. Epub 2008, June 11.

36 He C., Hu H., Fong S.Y., **Trumpp A.**, Carlson T.R., Braren R., and Wang R.A. (2008). C-myc in the hematopoietic lineage is crucial for its angiogenic function in the mouse embryo. **Development** Aug; 135(14), 2467-2477. Epub 2008 June 11.

37 Blanco-Bose W.E.*, Murphy M.J.*, Ehninger A., Offner S., Dubey C., Huang W., Moore D.D. and **Trumpp A.** (2008). c-Myc and its target FoxM1 are critical downstream effectors of TCPOBOP-CAR induced direct liver hyperplasia. **Hepatology** Oct; 48(4), 1302-1311.

38 Marsh V., Winton D., Williams G.T., Dubois N., **Trumpp A.,** Sansom O.J. and Clarke

A.R. (2008). Epithelial Pten is dispensable for intestinal homeostasis, but suppresses adenoma development and progression following Apc mutation. **Nature Genetics** Dec; 40(12), 1436-1444.

39 Laurenti E., Varnum-Finney B., Wilson A., Ferrero I., Blanco-Bose W.E., Ehninger A., Knoepfler P.S., Cheng P.F., MacDonald H.R., Eisenman R.N., Bernstein I.D. and **Trumpp A**. (2008). Hematopoietic stem cell function and survival depend on c-Myc and N-Myc activity. **Cell Stem Cell** Dec 4; 3(6), 611-624.

40 Wilson A., Laurenti E., Oser G., van der Wath R.C., Blanco-Bose W.E., Dunant C.F, Bockamp E., Liò P., Macdonald H.R. and **Trumpp A.** (2008). Hematopoietic stem cells reversibly switch from dormancy to self-renewal during homeostasis and repair. **CELL** Dec 12; 135(6), 1118-1129. Published online Dec 4, 2008.

41 Nagao M., Campell K., Burns K., Kuan C-Y., **Trumpp A.** and Nakafuku M. (2008). Coordinated control of self-renewal and differentiation of neural stem cells by Myc and the $p19^{ARF}$-p53 pathway. **J. Cell Biol**. Dec 29; 183(7), 1243-1257.

42 Essers M.A., Offner S., Blanco-Bose W.E., Waibler Z., Kalinke U., Duchosal M.A. and **Trumpp A.** (2009). IFNα activates dormant HSCs in vivo. **Nature** Apr 16; 458(7240), 904-908. Epub 2009 Feb 11.

43 Barde I., Laurenti E., Verp S., Groner A.C., Towne C., Padrun V., Aebischer P., **Trumpp A.** and Trono D. (2009). Regulation of episomal gene expression by KRAB/KAP1-mediated histone modifications. **Journal of Virology** Jun; 83(11), 5574-5580. Epub 2009 Mar 11.

44 Mycko M.P., Ferrero I., Wilson A., Jiang W., Bianchi T., **Trumpp A.** and Macdonald H.R. (2009). Selective Requirement for c-Myc at an Early Stage of Va14i NKT Cell Development. **Journal of Immunology** Apr 15; 182(8), 4641-4648.

45 van der Wath R.C., Wilson A., Laurenti E., **Trumpp A.** and Liò P. (2009). Estimating dormant and active hematopoietic stem cell kinetics through extensive modeling of bromodeoxyuridine label-retaining cell dynamics. **PLoS One** Sep 22; 4(9), e6972.

46 Stoelzle T., Schwarb P., **Trumpp A.** and Hynes N.E. (2009). c-Myc affects mRNA translation, cell proliferation and progenitor cell function in the mammary gland. **BMC Biol**. Sep 28; 7, 63. This article was highlighted with a Minireview in the same issue by Nicole Sodir and Gerard Evan.

47 Wilson A., Laurenti E., **Trumpp A.** (2009). Balancing dormant and self-renewing hematopoietic stem cells. **Curr Opin Genet Dev.** Oct; 19(5), 461-468.

48 Bockamp E., Antunes C., Liebner S., Schmitt S., Cabezas-Wallscheid N., Heck R., Ohnngemach S., Bartlomowicz O., Rickert C., Sanchez M.J., Hengstler J., Kaina B., Wilson A., **Trumpp A.** and Eshkind L. (2009). In vivo fate mapping with SCL regulatory elements identifies progenitors for primitive and definitive hematopoiesis in mice. **Mech Dev**. Oct; 126(10), 863-872. Epub 2009 Jul 23.

49 Loizou J.I., Oser G., Shukla V., Sawan C., Murr R., Wang Z.Q., **Trumpp A.** and Herceg Z. (2009). Histone acetyltransferase cofactor Trrap is essential for maintaining the hematopoietic stem/progenitor cell pool. **J Immunol**. Nov 15; 183(10), 6422-6431; Epub 2009 Oct 30.

50 Laurenti E., Wilson A., **Trumpp A.** (2009). Myc's other life: stem cells and beyond. **Curr Opin Cell Biol.** Dec; 21(6), 844-854.

51 Tesio M., Golan K., Corso S., Giordano S., Schajnovitz A., Vagima Y., Shivtiel S., Kalinkovich A., Caione L., Gammaitoni L., Laurenti E., Buss E.C., Shezen E., Itkin T.,

Kollet O., Petit I., **Trumpp A.**, Christensen J., Aglietta M., Piacibello W. and Lapidot T. (2010). Enhanced c-Met activity promotes G-CSF induced mobilization of hematopoietic progenitor cells via ROS signaling. **Blood** Jan 13; 117(2), 419-428. Epub 2010 Jun 28.

52 **Trumpp A.,** Essers M. and Wilson A. (2010). Awakening dormant haematopoietic stem cells. **Nature Reviews Immunology** Mar; 10(3), 201-209.

53 Jiang W., Ferrero I., Laurenti E., **Trumpp A.** and Macdonald H.R. (2010). c-Myc controls the development of CD8aa TCRab intestinal intraepithelial lymphocytes from thymic precursors by regulating IL-15-dependent survival. **Blood** Jun 3; 115(22), 4431-4438. Epub 2010 Mar 22.

54 Laurenti E., Barde I., Verp S., Offner S., Wilson A., Quenneville S., Wiznerowicz M., Macdonald H.R., Trono, D. and **Trumpp A**. (2010). Inducible gene and shRNA expression in resident hematopoietic stem cells in vivo. **Stem Cells** Aug; 28(8), 1390-1398.

55 Carnevalli L.S., **Trumpp A.** (2010). Tuning mTORC1 activity for balanced self-renewal and differentiation. **Dev Cell** Aug 17; 19(2), 187-188.

56 Essers M.A., **Trumpp A.** (2010). Targeting leukemic stem cells by breaking their dormancy. **Mol Oncol.** Oct; 4(5), 443-450.

57 Di Maggio N., Piccinini E., Jaworski M., **Trumpp A.**, Wendt D.J. and Martin I. (2011). Toward modeling the bone marrow niche using scaffold-based 3D culture systems. **Biomaterials** Jan; 32(2), 321-329.

58 Ehninger A., **Trumpp A.** (2011). The bone marrow stem cell niche grows up: mesenchymal stem cells and macrophages move in. **J Exp. Med.** Mar 14; 208(3), 421-428.

59 Perna D., Fagà G., Verrecchia A., Gorski M.M., Barozzi I., Narang V., Khng J., Lim K.C., Sung W.K., Sanges R., Stupka E., Oskarsson T., **Trumpp A.**, Wei C.L., Müller H. and Amati B. (2011). Genome-wide mapping of Myc binding and gene-regulation in serum-stimulated fibroblasts. **Oncogene** Mar 29; 31(13), 1695-1709.

60 Milsom M.D., **Trumpp A.** (2011). Bridging the information gap. **Nat Immunol.** May; 12(5), 377-379.

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20 Schillert A., **Trumpp A.**, Sprick M.R. (2013). Label retaining cells in cancer – the dormant root of evil? **Cancer Lett.** Nov 28; 341(1), 73-79.
Impact factor: 5.992 (2015). Citations: 6

21 Cabezas-Wallscheid N. and **Trumpp A.** (2016). STEM CELLS. Potency finds its niches. **Science** Jan 8; 351(6269), 126-127.
Impact factor: 34.661 (2015). Citations: -- (too new)

22 Raffel S. and **Trumpp A.** (2016). miR-126 Drives Quiescence and Self-Renewal in Leukemic Stem Cells. **Cancer Cell** Feb 8; 29(2), 133-135.
Impact factor: 23.214 (2015). Citations: 1 (too new)

Book chapters and Proceedings

1 **Trumpp A.** (2007). c-Myc and Activated Ras during Skin Tumorigenesis: Cooperation at the Cancer Stem Cell Level? In: **Cancer Stem Cells**. Wiestler/Mumberg (eds). Ernst Schering Foundation Symposium Proceedings. Springer Verlag, Berlin, Jul 25; Volume 5, pp. 13-26.

2 Wilson A. and **Trumpp A.** (2009). Hematopoietic Stem Cell Niches. In: **Molecular Basis of Hematopoiesis** edited by Amittha Wickrema and Barbara Kee. Springer Verlag, Berlin, pp. 47-71.

3. Invited Lectures at International Conferences

3.1 Keynote Lectures on Conferences

1 19th Molecular Haemopoiesis Meeting, London, UK, October 7, 2016.

2 RIKEN Symposium, RIKEN Center for Integrative Medical Sciences, Yokohama, Japan, March 2, 2016.

3 JSPS-NUS Joint Symposium, Singapore, January 14-16, 2016.

4 ISEH Conferences Kyoto 2015; McCulloch and Till Lecture, September 17-19, 2015.

5 GSCN Annual Conference, Frankfurt, Germany, September 9-11, 2015.

6 Swiss Stem Cell Network (SSCN) Annual Meeting Basel, June 29, 2015.

7 6ht JSH International Symposium 2015, Karuizawa, Japan, May 22-23, 2015.

8 Bertalanffy Lecture at the Center of Organismal Studies (COS), University of Heidelberg, September 18-19, 2014. (Public and Scientific lecture)

9 EMBL Symposium “Tumor Microenvironment and signaling”, Heidelberg, May 7-10, 2014.

10 Annual Tumor Cell Biology Meeting, Lunteren, Netherlands, November 6-7, 2013.

11 Center of Tumor Diseases, Frankfurt, Germany, September 9, 2011.

12 International PhD Cancer Conference, IFOM/EIO Milan, Italy, May 20-22, 2010.

13 French Society of Hematology, Paris, France, March 18, 2010.

14 22. Onkologische Konferenz , Eisenach, Germany, November 20-21, 2009.

15 ESBD/SFBD conference on *Development, Stem cells and Evolution”* Toulouse, France, November 7-10, 2009.

16 14th EHA Congress, Berlin, Germany, June 4-7, 2009.

17 15th AEK Cancer Congress, Berlin, Germany, March 18-20, 2009.

18 3rd Conference on Regenerative Biology and Medicine, Stuttgart, Germany, October 9-11, 2008.

19 7th Annual ELSO Meeting, Nice, France, August 30 - September 3, 2008.

20 Cancer Research Retreat 2006 of the “Cancer Network Zurich”, Ascona, Switzerland, September 1-3, 2006.

21 5th Annual meeting of the “Canadian Stem Cell Network”, Ottawa, Canada, November 13-15, 2006.

3.2 Chairperson at International Conferences (selected)

- AACR Philadelphia "Tumor Heterogeneity and Cancer Stem Cells", Philadelphia, USA, April 18-22, 2015.
- EMBL Stem Cells and Cancer Conference, Heidelberg, Germany, March 28-30, 2015.
- AACR Annual Conference, San Diego, USA, April 5-9, 2014.
- EACR Conference, Barcelona, Spain, July 7-9, 2012.
- Gordon Research Conference, Ventura, USA, February 19-25, 2011.
- ISSCR 7th Annual Meeting, Barcelona, Spain, July 8-11, 2009.
- Cancer Meeting "Hinterzartener Kreis", Cadenabbia, Italy, April 30 - May 2, 2009.
- Meyenburg Cancer Research Award Symposium, Heidelberg, Germany, December 11, 2008.
- 2nd DKFZ / NCI International Conference Stem Cells and Cancer, DKFZ Heidelberg, Germany, October 26-28, 2008.
- AACR Special Conference on "The Role of Cancer Stem Cells in the Initiation and Propagation of Tumorigenesis", Los Angeles, USA, February 12-15, 2008.
- Ernst Schering Foundation Scientific Symposium on "Cancer Stem Cells", Berlin, Germany, November 15-17, 2006.
- ISREC Conference on Cancer Research, EPFL Lausanne, Lausanne, Switzerland, October 11-13, 2006.
- International Symposium on Hematopoietic Stem Cells VI., Tübingen, Germany, September 14-16, 2006.
- Euro Stem Cell meeting "Advances in Stem Cell Research", Lausanne, Switzerland, September 11-13, 2006.
- 11th Annual Congress of the European Hematology Association (EHA), Amsterdam, Netherlands, June 15-18, 2006.
- Cancer and Stem cell conference, German Cancer Research Center (DKFZ), Heidelberg, Germany, March 12-14, 2006.
- ISREC Conference: Cell and Molecular Biology of Cancer, Lausanne, Switzerland, January 22-25, 2003.
- ISREC Conference: Cancer and the Cell Cycle, Lausanne, Switzerland, January 19-22, 2001.

3.3 Recent Invited Oral Presentations (selected since 2005)

2016

1 CSI Seminar 2016, Cancer Science Institute of Singapore (CSI), Singapore, January 13, 2016.

2 JSPS-NUS Joint Symposium, Singapore, January 14-16, 2016.

3 New Year's Reception, Deutsches GeoForschungszentrum (GFZ), Potsdam, Germany, January 19, 2016.

4 ISREC - Swiss Institute for Experimental Cancer Research, Lausanne, Switzerland, January 27-29, 2016.

5 IWHM5 – 5th International Workshop on Humanized Mice, Zurich, Switzerland, January 29-30, 2016.

6 Next Gen Immunology Meeting, Weizmann Institute of Science, Rehovot, Israel, February 15-17, 2016.

7 RIKEN Symposium, RIKEN Center for Integrative Medical Sciences, Yokohama, Japan, March 2, 2016.

8 Nature-MSKCC Conference, Memorial Sloan Kettering Cancer Center, New York, NY, USA, March 12-14, 2016.

9 Symposium "Stem Cell Therapy-Facts and Myths", Heidelberg, March 31-April 2, 2016.

10 AACR (American Association for Cancer Research) Annual Meeting, New Orleans, Louisiana, USA, April 15-20, 2016.

11 11th International Workshop on Molecular Aspects of Myeloid Stem Cell Development, Cincinnati Children's Hospital Medical Center, Cincinnati, Ohio, USA, May 01-04, 2016.

12 EMBO Conference on ''Hematopoietic stem cells: From the embryo to the aging organism'', EMBL, Heidelberg, Germany, June 3-5, 2016.

13 Big Alliance Retreat, Kloster Schöntal, Germany, June 19-21, 2016.

14 Innovationsworkshop, Robert-Bosch GmbH, Renningen, Germany, June 23, 2016.

15 Research Program-Faculty Retreat, Pfalzhotel Asselheim, Germany, July 3-5, 2016.

16 ARMI (Australian Regenerative Medicine Institute), Monash University and at WEHI (Walter and Eliza Hall Institute of Medical Research), Melbourne, Australia, July 30-August 5, 2016.

17 4th International Annual GSCN Conference, Hannover, Germany, September 12-14, 2016.

18 Behr Symposium on Stem Cells and Cancer, Heidelberg, Germany, September 18-20, 2016.

19 19th Molecular Haemopoiesis Meeting, London, UK, October 7, 2016.

20 Conference "Beyond the cancer genomes", Institute for Research in Biomedicine (IRB), Barcelona, Spain, October 13-14, 2016.

21 47th Symposium of the Princess Takaamatsu Cancer Research Fund, Tokyo, Japan, November 6-10, 2016.

2015

1 AACR MYC: From Biology to Therapy, La Jolla, USA, January 7-10, 2015.

2 Miami Winter Symposium, Miami, USA, January 17-21, 2015.

3 Gordon Research Conference, Ventura, USA, February 15-20, 2015.

4 Keystone Conference "Hematopoiesis", Keystone, USA, February 23-27, 2015.

5 EMBL Conference "Stem Cells and Cancer", Heidelberg, Germany, March 28-30, 2015.

6 Memorial Sloan Kettering (MSKCC), New York, USA, April 8, 2015.

7 SFB 873 Retreat Young Scientists, Kloster Hirsau, Calw, Germany, April 15-16, 2015.

8 AACR Philadelphia, USA, April 18-22, 2015.

9 9th International Symposium on Hematopoietic Stem Cells, Tübingen, Germany, April 23-25, 2015.

10 Stem Cell (SC) Retreat, Basel, Switzerland, May 11-12, 2015.

11 6th JSH International Symposium 2015, Karuizawa, Japan, May 22-23, 2015.

12 Wissenschaftliches Symposium im Rahmen des 20jährigen Helmholtz-Jubiläums, Berlin, Germany, June 24-26, 2015.

13 Max-Planck-Institut für Plasmaphysik (IPP), im Rahmen des 20 Jahre Helmholtz Jahres, Garching, Germany, July 23-24, 2015

14 GSCN 3rd Annual Conference, Frankfurt, Germany, September 9-12, 2015.

15 Novartis Institute for Biomedical Research, Basel, Switzerland, October 20-12, 2015.

16 Jahrestagung der Deutschen, Österreichischen und Schweizerischen Gesellschaften für Hämatologie und Medizinische Onkologie (DGHO), Basel, Switzerland, October 11-12, 2015.

17 GSI-Helmholtzzentrum für Schwerionenforschung, im Rahmen von 20 Jahre Helmholtzgemeinschaft, Darmstadt, Germany, October 14, 2015.

18 Swiss Bridge Award-Preisträger, Zurich, Switzerland, November 3, 2015

19 AACR Special Conference on Tumor Metastasis, Austin, Texas, USA, November 30-December 3, 2015.

2014

1 European Patent Office (EPO), Munich, Germany, January 27, 2014.

2 Keystone Symposia “Stem Cells and Cancer, Banff, Canada, February 2-8, 2014.

3 Meeting on Mouse Models of Human Cancer, Seeon, Germany, March 10-11, 2014.

4 AACR (American Association for Cancer Research), San Diego, USA, April 4-11, 2014.

5 EMBL Symposium “Tumor Microenvironment and signaling”, Heidelberg, Germany, May 7-10, 2014.

6 Seminarreihe der Forschergruppe 942 und Metastasis, Göttingen, Germany, June 3, 2014.

7 EACR (European Association for Cancer Research), Munich, Germany, July 5-8, 2014.

8 15th International Biennial Congress of the Metastasis Research Society, Heidelberg, Germany, June 28 - July 1, 2014.

9 ISEH Annual Conference, Montreal, Canada, August 21-24, 2014.

10 Behr Symposium on Stem Cells and Cancer, Heidelberg, Germany, September 28-30, 2014.

11 ACTC conference on Circulating tumor cells, Crete, October 7-11, 2014.

12 EMBL conference on Stem cells in cancer and regenerative therapies, Heidelberg, October 9-12, 2014.

13 2nd annual GSCN Conference, Heidelberg, November 3-5, 2014.

2013

1. Brupbacher Stiftung, Zurich, Switzerland, January 31 - February 1, 2013.
2. Forum “Mensch-Natur-Technik”, Hannover, Germany, February 5-7, 2013.
3. Acute Leukemias, Munich, Germany, February 24-25, 2013.
4. Chair, Gordon Conference “Stem Cells and Cancer”, Les Diablerets, Switzerland, April 21-25, 2013.
5. Hinterzartener Kreis, Cadenabbia, Italy, May 2-5, 2013.
6. Adult Stem Cells in Aging, Diseases, and Cancer, Eisenach, Germany, May 24-25, 2013.
7. ECSCRI Targeting Cancer Conference, Cardiff, UK, July 24-26, 2013.
8. ISREC Alumni Symposium, Lausanne, Switzerland, September 2-4, 2013.
9. “Spetses Summer School”, Spetses, Greece, September 11-14, 2013.
10. MDS Summit “Myelodysplastic Syndromes”, Baltimore, USA, October 16-19, 2013.
11. University of Essen, Essen, Germany, November 5-6, 2013.
12. Keynote, Annual Tumor Cell Biology Meeting, Lunteren, Netherlands, November 6-7, 2013.
13. 2nd Cancer Stem Cell Symposium, Fukuoka, Japan, November 14-18, 2013.
14. Mt. Sinai School of Medicine, New York, USA, December 11-13, 2013.

2012

1. SFB914, Munich, Germany, January 25, 2012.
2. Deutscher Krebskongress (DKK), Berlin, Germany, February 23-25, 2012.
3. AACR, Chicago, USA, March 31 - April 5, 2012.
4. Hinterzartener Kreis, Cadenabbia, Italy, April 26-29, 2012.
5. Conference: “Emerging Concepts in Cancer”, Berlin, Germany, June 14-15, 2012.
6. XIX Wilsede Meeting, Wilsede, Germany, June 17-18, 2012.
7. EACR, Barcelona, Spain, July 8-9, 2012.
8. 2nd annual Cambridge Stem Cell Symposium, Cambridge, July 10-11, 2012.
9. Genentech, San Francisco, USA, July 16, 2012.
10. Albert Einstein College of Medicine, New York, USA, September 14, 2012.
11. ACTC, Greece, September 25-28, 2012.
12. Herrenhausen Symposium (Nature Medicine), Seeon, Germany, October 8-10, 2012.
13. Leibniz-Institute for Age Research/Fritz-Lipmann-Institut e.V. (FLI), Jena, Germany, November 8, 2012.
14. 43th International Symposium of Princess Takamatsu Cancer Research Fund, Tokyo, Japan, November 12-17, 2012.
15. 7th Princess Chulabhorn International Science Congress, Bangkok, Thailand, November 24 - December 4, 2012.
16. ASH, Atlanta, USA, December 7-11, 2012.

2011

1 San Raffaele Institute, Milan, Italy, January 31 - February 1, 2011.
2 Institut Inserm, Marseille, France, February 7, 2011.
3 Brupbacher Stiftung, Zurich, Switzerland, February 16-18, 2011.
4 Gordon Research Conference, Ventura, USA, February 19-25, 2011.
5 AACR, Orlando, USA, April 1-6, 2011.
6 Hinterzartener Kreis, Cadenabbia, Italy, May 12-15, 2011.
7 Symposium, Reisenburg, Ulm, Germany, May 20-22, 2011.
8 Annual Meeting of Eurosystems, Prag, Czech Republic, June 7-8, 2011.
9 Ontario Cancer Institute, Ontario, Canada, June 14-16, 2011.
10 ISSCR, Toronto, Canada, June 15-19, 2011.
11 GRK, Freiburg, July 29, 2011.
12 ISEH, Vancouver, Canada, August 27-28, 2011.
13 UCT, Frankfurt, Germany, September 9, 2011.
14 MDC, Berlin, Germany, September 14-16, 2011.
15 Kloster Seoon, Seoon, Germany, September 18-20, 2011.
16 Congress of EHA/ESH, Mandelieu, France, October 14-15, 2011.
17 HSC VII Meeting, Tübingen, Germany, September 22-24, 2011.
18 SFB/TR77, Fulda, Germany, November 25, 2011.
19 San Raffaele Institute, Milan, Italy, December 5-6, 2011.

2010

1 Forschungsverband Tumorstammzellen, Deutsche Krebshilfe, Ulm, Germany, January 20-22, 2010.
2 Deutscher Krebskongress, Berlin, Germany, February 24-26, 2010.
3 DGZ, Zellbiologie Kongress, Regensburg, Germany, March 11-12, 2010.
4 Institute Universitaire d'Hématologie, Paris, France, March 17-18, 2010.
5 International Brain Tumor Research Symposium, Seeheim, Germany, March 25, 2010.
6 15th Congress of EHA, Barcelona, Spain, March 29-30, 2010.
7 Max-Planck-Institute of Immunobiology, Freiburg, Germany, April 29, 2010.
8 Cancer Meeting "Hinterzartener Kreis", Cadenabbia, Italy, May 6-9, 2010.
9 EMBO Conference, Dubrovnik, Croatia, May 23-26, 2010.
10 Effetti Conference, Rome, Italy, July 1-3, 2010.
11 Annual Meeting of Eurosystems, Schiermoonikog, Amsterdam, June 27 - July 1, 2010.
12 Kobe Institute, Riken Center, Tokyo, Japan, August 2-4, 2010.
13 Annual Meeting of the Japanese Society of Inflammation and Regenaration, Osaka, Tokyo, Japan, August 5-7, 2010.

14 Symposium “Stem Cell Biology”, Georg-Speyer-Haus, Frankfurt, Germany, October 1, 2010.

15 3rd Conference “Stem Cells and Cancer, Heidelberg, Germany, October 3-6, 2010.

16 Conference “Gene Regulation in Lymphocyte”, Crete, Greece, October 11-16, 2010.

17 Exhibition “Our common Future”, Hannover, Germany, November 3, 2010.

18 Symposium “Stem Cell Research”, Heidelberg, Germany, November 18-20, 2010.

2009

1 Frontiers in Cancer Stem Cell Research: From Basic science towards a cure, Oslo, Norway, December 2-4, 2009.

2 "Stem cells - from bench to bedside", Geneva, Switzerland, November 19, 2009.

3 ESBD/SFBD conference on Development, “Stem cells and Evolution” Toulouse, France, November 7-10, 2009.

4 VIII annual CRG symposium on “Stem cells, Differentiation and Cancer”, Barcelona, Spain, October 15-16, 2009.

5 DGHO Conference 2009, Mannheim, Germany, October 4-7, 2009.

6 EuroSyStem Summer School Hydra, Greece, September 20-26, 2009.

7 7th International Symposium on Minimal Residual Cancer, Athens, Greece, September 16-19, 2009.

8 Gordon Research Conference, Molecular Mechanisms Controlling Normal and Cancer Stem Cells, Les Diablerets, Switzerland, September 13-18, 2009.

9 EMBO Molecular Medicine Workshop, Torino, Italy, September 10-12, 2009.

10 ISSCR 7th Annual Meeting, Barcelona, Spain, July 8-11, 2009.

11 14th EHA Congress, Berlin, Germany, June 4-7, 2009,

12 Cancer Meeting “Hinterzartener Kreis” Cadenabbia, Italy, April 30 - May 2, 2009.

13 Molecular Mechanism of normal and Malignant Hematopoiesis, München, Germany, April 2-4, 2008.

14 The 5th International Meeting of the Stem Cell Network NRW, Aachen, Germany, March 24-25, 2009.

15 15th AEK Cancer Congress, Berlin, Germany, March 18-20, 2009.

16 CNIO Cancer Conference: “Stem cells and cancer”, Madrid, Spain, February 23-25, 2009.

2008

1 Meyenburg Cancer Research Award Symposium, Heidelberg, Germany, December 11, 2008.

2 IMP/IMBA Meeting on Stem Cells, Gumpoldskirchen, Vienna, December 3-5, 2008.

3 Harvard Stem Cell Institute Symposium on Regeneration, Boston, USA, November 14, 2008.

4 2nd DKFZ/NCI International Conference Stem Cells and Cancer, DKFZ Heidelberg, Germany, October 26-28, 2008.

5 4th Int. Conf. on Gene Regulation in lymphocyte development, Rhodes, Greece, October 11-16, 2008.

6 3rd Conference on Regenerative Biology and Medicine, Stuttgart, Germany, October 9-11, 2008.

7 Int. Conference Hematopoietic Stem Cells VII, Meersburg/Tübingen, Germany, September 18-20, 2008.

8 7th annual ELSO Meeting, Nice, France, August 30 - September 3, 2008.

9 Summer School Barsinghausen: Mechanisms of early differentiation: embryogenesis, myogenesis and hematopoiesis/ lymphopoesis", Barsinghausen/Hannover, Germany, September 1-5, 2008.

10 Gordon Research Conference (Vice Chair): Cancer Models and mechanisms; Rhode Island, USA, July 27 - August 1, 2008.

11 2nd Annual International Beatson Cancer Centre Symposium: Translation of Preclinical Science into Early Clinical Trials, Glasgow, Scotland, June 20, 2008.

12 3rd Mildred Scheel Cancer Conference, Bonn Petersberg, Germany, June 18-20, 2008.

13 2nd International Congress on Stem Cells and Tissue Formation, Dresden, Germany, July 6-9, 2008.

14 13th EHA Congress, Copenhagen, Denmark, June 12-15, 2008.

15 34th EBMT Meeting, Florence, Italy, March 30 - April 2, 2008.

16 28. Deutscher Krebskongress, Berlin, Germany, February 19-22, 2008.

17 AACR Special Conference on The Role of Cancer Stem Cells in the Initiation and Propagation of Tumorgenesis, Los Angeles, USA, February 12-15, 2008.

18 University of Cambridge, Host: Dr. Austin Smith, February 6, 2008.

19 8th International Symposium on Graft-versus-Host and Graft-versus-Leukemia Reactions, Bad Aibling, Germany, January 23-26, 2008.

2007

1 International Workshop on Cancer Stem Cells – 2nd edition, Milan, Italy, December 1-3, 2008.

2 3rd World Congress of Regenerative Medicine, Leipzig, Germany, October 18-20, 2007.

3 Stem Cells, Development and Regulation", Amsterdam, Netherlands, October 9-11, 2007.

4 4th International Meeting of the Stem Cell Network NRW, Düsseldorf, Germany, October 7-10, 2008.

5 BioMed Conference on Stem Cells and Cancer, Barcelona, Spain, October 1-3, 2007.

6 Molecular characteristics of normal and leukemia stem cells. Foz do Iguazu, Brazil, July 25-28, 2007.

7 EuroStemCell Summer School Hydra, Greece, September 14-21, 2008.

8 Spetses Summer School 2007, Greece, September 2-10, 2008.

9 CNIO Cancer Conference "Myc and the Transcriptional Control of Proliferation and Oncogenesis" Madrid, Spain, June 11-13, 2007.

10 SFB-655 Seminar, Host. Dr. Gerhard Ehninger, Dresden, Germany, May 22, 2008.

11 Cancer Biology Workshop, Biel, Switzerland, May 9, 2007.

12 Summer School in cancer research entitled "Signal transduction and transcriptional regulation in cancer", Döllnsee, Berlin, Germany, May 5-7, 2007.

13 Conference: Ras-dependent Pathways in Human Tumors“, Rothenburg, Germany, April 2-4, 2007.

14 Meeting of German Human Genetics Society in Bonn, Germany, March 7-10, 2006.

15 USGEB meeting, Basel, Switzerland, March 13-14, 2007.

16 FMI Basel, Host: Nyncy Hynes, Basel, Switzerland, January 16, 2007.

2006

1 IMP, Host: Erwin Wagner, Vienna, Austria, November 28, 2006.

2 Ernst Schering Foundation Scientific Symposium on “Cancer Stem Cells” Berlin, Germany, November 15-17, 2006.

3 5th Annual meeting of the “Canadian Stem Cell Network”, Ottawa, Canada, November 13-15, 2006.

4 Annual Meeting of the Young European Biotech Network (YEBN), Strasbourg, France, October 6-8, 2006.

5 Molecules, Mechanisms and Models in Embryogenesis and Organogenesis, University of Freiburg, Germany, October 5-7, 2006.

6 International Symposium on Hematopoietic Stem Cells VI. Tübingen, Germany, September 14-16, 2006.

7 EMBO Conference on the Molecular and Cellular Basis of Regeneration and Tissue Repair, Ascona, Switzerland, September 10-15, 2006.

8 Euro Stem Cell meeting “Advances in Stem Cell Research”, Lausanne, Switzerland, September 11-13, 2006.

9 Keynote Lecture, Cancer Research Retreat 2006 of the “Cancer Network Zurich”, Ascona, Switzerland, September 1-3, 2006.

10 Stem cells and Cancer, 20th Anniversary Symposium of the Finnish Cancer Institute, Helsinki, Finland, August 31 - September 1, 2006.

11 Gordon Conference “Molecular Therapeutics of Cancer”, Oxford, UK, July 16-21, 2006.

12 Institut Pasteur, Host: Moshe Yaniv, Paris, France, June 2, 2006.

13 Hinterzartener Kreis, DFG, Cadenabbia, Italy, May 4-6, 2006.

14 American Association of Cancer Research (AACR) Conference, Washington, USA, April 1-4, 2006.

15 British Society for Cell and Developmental Biology, Annual Spring meeting, York, UK, March 20-23, 2006.

16 Cancer and Stem Cell Conference, German Cancer Research Center (DKFZ), Heidelberg, March 12-14, 2006.

17 USGEB meeting, Geneva, Switzerland, February 22-24, 2006.

18 Frontier Lecture, Biozentrum Basel, Host: Rolf Zeller, Basel, Switzerland, January 31, 2006.

2005

1 European Institute of Oncology, International Workshop on “Cancer Stem Cells”, Milan, Italy, November 10-12, 2005.

2 Stem Cell Center, University of Lund, Host: Sten Erik Jacobsen, Sweden, September 30, 2005.

3 Boehringer Ingelheim Fonds International Titisee Conferences: Stem cells and hematopoietic tumors, October 19-23, 2005.

4 Workshop on Epidermal Stem Cells, Winter Park, USA, August 25-26, 2005.

5 University of British Columbia, Host: Kelly Mc Nagny, Vancouver, Canada, June 29, 2005.

6 Fred Hutchinson Cancer Research Center, Host: Robert N. Eisenman, Seattle, USA, June 28, 2005.

7 International Society of Stem Cell Research (ISSCR), Annual Meeting San Francisco, USA, June 23-25, 2005.

8 Beatson International Cancer Conference, Glasgow, Scotland, June 19-22, 2005.

9 Euroconference on Stem Cell Research, Cascais, Portugal, April 15-18, 2005.

4. AWARDS AND FELLOWSHIPS

November 2015	Swiss Bridge Award for research on breast cancer stem cells
September 2015	Till and McCulloch Award by the International Society of Experimental Hematopoiesis (ISEH), Kyoto, Japan
Since November 2013	Elected President of the German Stem Cell Network (GSCN e.V.)
Since 2011	Elected Member of EMBO
Since 2009	Elected member of the “Hinterzartener Kreis” of Cancer Researchers of the DFG sponsored Cadenabbia (Lake Como) Meetings
September 2008	Excellence cluster Award of the BMBF as a member of the BioRN program “Cell Based and Molecular Medicine”
November 2002	EMBO Young Investigator Award (YIP)
Since October 2002	Elected member of the Faculty of 1000
March 1997 - February 1999	Senior postdoctoral fellowship awarded by the American Cancer Society California
April 1994 - November 1994	Long-Term Fellowship awarded by the Human Frontiers Science Program (HFSP)

	Ausbildungsstipendium awarded by the Deutsche Forschungsgemeinschaft (DFG)
January 1993 - November 1993	EMBL postdoctoral Fellowship awarded by the European Molecular Biology Laboratory, Heidelberg, Germany
October 1989 - December 1992	EMBL Predoctoral Fellowship awarded by the European Molecular Biology Laboratory, Heidelberg, Germany

5. PhD thesis and follow up careers

2005 Mark Murphy	"Genetic analysis of c-Myc in mouse bone marrow and liver". Currently Post-Doc in the laboratory of Dr. Michael Cleary, Stanford, USA. Currently Group Leader at Actelion, Basel, Switzerland.
2005 Thordur Oskarsson	"Analysis of c-Myc function in mouse epidermis". Subsequently Post-Doc in the laboratory of Dr. Joan Massagué, Memorial Sloan-Kettering Cancer Institute, New York, USA. Since October 2011 Independent Group Leader at HI-STEM, Heidelberg, Germany.
2006 Gabriela Oser	"The role of the Tumor Suppressor PTEN in the Hematopoietic System." Post-Doc in the laboratory of Dr. Wodnar-Filipowitcz, University of Basel, Switzerland.
2006 Nicole Dubois	"Development of the Embryonic Hematopoietic System-The Role of c-Myc". Assistant Professor at the Mount Sinai Medical Center, NYC, USA.
2008 Elisa Laurenti	"Genetic investigation of the functions of c-Myc and N-Myc in hematopoietic stem cells". Former Post-Doc in the laboratory of Dr. John Dick, Toronto, Canada. Currently Assistant Professor at Cambridge Stem Cell Institute in Cambridge, UK.
2009 Konstantin Shakhbazov	"The role of TIF1g during adult murine hematopoiesis". Post-Doc at Queensland Brain Institute, St. Lucia, QLD, Australia.
2009 Maike Jaworski	"The Role of Myc in bone and in the hematopoietic stem cell niche". Department of Biochemistry, University of Lausanne, Switzerland.
2011 Armin Ehninger	"Expression and Function of c-Myc and N-Myc in Adult Hematopoietic Stem Cells During Homeostastis and Stress". Head of GEMoaB Monoclonals GmbH, Dresden, Germany.
2011 Irène Baccelli	"Towards a Functional Analysis of Human Carcinoma Disseminating Tumor Cells". Currently Post-Doc in the lab of Dr. Guy Sauvageau, Institute for Research in Immunology and Cancer (IRIC), Montréal, Québec, Canada.
2012 Anja Schillert	"Identification and functional analysis of slowly cycling cells in colorectal cancer"

2012 Christian Eisen	"Development and investigation of a novel model system representing all three subtypes of pancreatic ductal adenocarcinoma reveals novel biomarkers and distinct drug sensivities". Medical Advisor at Novartis, Frankfurt, Germany.
2012 Ines Brückmann	"Effects of c-Myc overexpression in osteoblasts on bone homeostasis, sarcoma formation and dormant hematopoietic stem cell maintenance". Former Clinical Research Associate at PPD, Munich, Germany.
2013 Steve Wagner	"Identification of Tumor Initiating Cells in a Patient-Matched Model of Serous Ovarian Carcinoma". Post-Doc at the Institute of Cancer Research, London, UK.
2013 Roberta Scognamiglio	"The role of Myc in the ground state of pluripotency". Post-Doc at HI-STEM gGmbH, Heidelberg, Germany.
2014 Teresa Rigo Watermeier	"A novel patient-derived renal cancer model platform enables the identification and functional characterization of tumor-initiating cells". Post-Doc at Merck, Darmstadt, Germany.
2014 Lisa von Paleske	"Identification of a novel enhancer region 1.7 Mb downstream of the c-myc gene controlling its expression in hematopoietic stem and progenitor cells". Post-Doc at DKFZ, Dept. Stem Cells and Cancer, Heidelberg, Germany.
2016 Elisa Noll	"CYP3A5 as mediator of drug resistance in different subtypes of pancreatic ductual adenocarcinoma"

6. Diploma / Master Thesis

2002 Denise Hoffman	"Identification of potential tissue-specific enhancers of Fgf8 and Analysis of the Cre/loxP mediated recombination pattern of the Nes-Cre1 transgenic mouse line"
2003 Stephane Ciocchi	"The role of c-Myc and p19ARF during adipocyte differentiation and studying the effect of Myc on hematopoietic stem cell self-renewal by generating a mouse expressing a conditional MycER transgene"
2006 Melanie Charmoy	"Generation of lentiviral vector producing an inducible dominant negative N-cadherin which can inhibit endogenous cadherin function"
2008 Julia Kirpicheva	"The role of STAT1 in interferon mediated activation of hematopoietic stem cells"
2009 Raphaelle Stuer	"The role of Myc in bone metabolism"
2010 Robin Graf	"Molecular Analysis of dormant and activated hematopoietic stem cells"

2011 Susann Rahmig	"In vitro analysis of GzmB Function in Heamatopietic Stem Cells"
2012 Jan Engelhardt	"Tetraspanin CD151 is a phenotypic marker for Invasive and tumorigenic pancreatic cancer cells"
2012 Nikolaus Dietlein	"Establishment and characterization of a murine transplantation model of osteosarcoma"
2012 Bettina Zens	"The functional role of ephrinB2 in the hematopoietic system"
2015 Silke Weisenburger	"Metastatic capacity and interaction with the stroma of primary pancreatic cancer cells representative of the different PDAC subtypes"
2015 Pia Sommerkamp	"The Role of Retinoic Acid Signaling in Dormant Hematopoietic"
2015 Raffaela Bung	"The low expression of CD13 defines a tumor-initiating cell population in serous ovarian carcinoma"
2016 Magdalena Büscher	"Pancreatic Cancer and its anociated stroma"
2016 Aracely Castillo Venzor	"Translational regulation of embryonic stem cells in the naïve pluripotent state and during early differentiation "

7. Teaching Activities

Since 2009	Various courses with topics including "Stem Cells, Cancer and Personalized Oncology" at the University of Heidelberg and graduate students at the DKFZ
2006 - 2008	EPFL "Stem Cell Course" 28 hrs. (Masters level) EPFL "Model Organisms in Biological Research" 8hrs, (Masters level) EPFL "Molecular Biology of Cancer" 4 hrs course (Bachelor level).
2006	Teaching for the course: "Vertebrate Development and Genetics. From Textbook Knowledge to Cutting Edge Science" Coordinating Teachers: Rolf Zeller, Aimée Zuniga, Biozentrum Basel, WS 05/06 (Masters and post-graduate level)
2005	Organization of the BIL post-graduate course "Stem Cells" (together with Dr. Freddy Radtke). Ten 6h sessions with 10 international speakers
2003	Teaching guest Professor at the University of Fribourg, Switzerland, 6 hours/semester (Bachelor level)
Since 2002	"October Modules" practical 3 day course at ISREC. Topic: Cre/loxP mediated deletion of genes in vivo

Since 2002	Postgraduate course in Tumor Biology for MD/PhD students from the University of Zurich, 4 hours/semester (post-graduate level).
2001 - 2005	Graduate course Biochemistry, University of Lausanne, 2 hours /semester (Bachelor level)

8. External Funding

External Grants

- DKH: Tranlsationale Onkologie: SYTASC: 2016-2019, € 220.500
- EU: IMI - Cancer ID. 2015-2019, € 80.000
- DKH: Translationale Onkologie (TransLUMINANL-B) 2015-2018, € 336.400
- DFG: Forschergruppe 2033: NicHem. 2014-2017, € 296.000
- BMBF: PANC-STRAT. 2013-2016, € 618.000
- DKTK: (German Consortium for translational Cancer Research) „Identification and molecular characterization of resistance mechanisms to cytotoxic chemotherapies in lung cancer“. 2012-2015, € 290.000
- DFG: SFB 873 (Collaborative Research Center) Maintenance and Differentiation of Stem Cells in Development and Disease. 2010-2014, € 373.000; 2014- 2018, € 418.000
- BMBF: Excellence Cluster HI-STEM/ BioRN: Zellbasierte und Molekulare Medizin. 2009-2014, € 5.9 Mio
- BMBF: BreastSys. 2009-2012, €225.000
- BMBF: Haematosys. 2009-2012, € 73.000
- EU: EuroSyStem. 2008-2012:, € 372.000
- Verein für Krebsforschung: „TIME“ CHF 450.000
- Swiss National Fonds 2001, € 370.000; 2004, € 360.000; 2007, € 479.000
- Swiss Cancer League 2001, € 167.000; 2006, € 342.000
- Oncosuisse. 2002, € 187.000
- UBS Optimus Foundation. 2001-2004, € 300.000
- Leenards Foundation 2002-2005, € 1.000.000
- EMBO Young Investigator Program 2002, € 45.000
- EU: Identification of Novel Targets for Cancer Therapy (INTACT). 2004-2008, € 1.169.000
- Serono.INC 2006-2007, € 200.000

- Dietmar Hopp Foundation for HI-STEM (2008-2018), € 15 Mio.

➔ **Total amount of external Funding since 2001: approx. 28,9 Million Euros**

Fellowships awarded to members of the laboratory

- EMBO Long Term fellowship (2014-2015, € 62.000): Dr. Elisa Espinet
- EMBO Long Term fellowship (2010-2013, € 90.000): Dr. Hind Medyouf
- Roche post-doctoral fellowship (2004, € 50.000): Dr. Michael Bettess
- EMBO long-term postdoctoral fellowship (2006-2007, € 82.000): Dr. Marieke Essers
- Roche post-doctoral fellowship (2006, € 30.000): Dr. Christelle Adolphe
- Marie-Curie Fellowship (2007-2009, € 261.000): Dr. Christelle Adolphe
- Heinrich F.C. Behr Fellowship for medical students (2010, € 8.000): Raphael Lutz
- Heinrich F.C. Behr Fellowship for medical students (2014-2015, € 8.000): Simon Renders

Prizes

- Franziska Pilz: Helmholtz Apprenticeship Award 2016 (biology lab technician)
- Andreas Trumpp: Swiss Bridge Award for research on breast cancer stem cells
- Andreas Trumpp: Till and McCulloch Award by the International Society of Experimental hematopoiesis (ISEH), Kyoto, Japan
- Hind Medyouf: José Carreras Grant (transition grant)
- Irène Baccelli: Richtzenhain-Preis 2013 and Waltraud-Lewenz Preis 2013 (endowment € 4.500 – the prize was shared by two prize winners)
- Thordur Oskarsson: Award from the Icelandic Biological Society for: Young Scientist of the Year
- Hind Medyouf: Tito Bastianello Young Investigator Award

9. Collaboration with other Research groups

Jeroen Krijgsveld (EMBL), Wolf-Karsten Hofmann (Mannheim), Francois Spitz (EMBL), Wolfgang Huber (EMBL), Michael Milsom (HI-STEM), Marieke Essers (HI-STEM), Christoph Rösli (HI-STEM), Andreas Schneeweiss (NCT-Heidelberg), Christoph Plass (DKFZ Heidelberg), Klaus Pantel (Hamburg), Anne Wilson and Hugh Robson MacDonald (Ludwig Institute for Cancer Research, Lausanne), Catriona Jamieson (UCSD Moore Cancer Center, San –Diego), Paul S. Frenette (Albert Einstein College of Medicine , New York), Austin Smith (University of Cambridge), John Dick (University of Toronto), Oliver Stegle (EMBL Cambridge), Hans-Guido Wendel (Memorial Sloan Kettering Cancer Center, New York), Peggy Goodell (Baylor

College of Medicine, Houston), Didier Trono (EPFL), Tsvee Lapidot (Israel), Pietro Lio (Cambridge), Alan Clarke (Cardiff), Hong Wu (Los Angeles), Steven Martin (Berkeley), Tyler Jacks (Boston), Rong Wang (San Francisco), Scott Kogan (San Francisco).

10. Patents/Licenses

2001 to present	License to use the Nes-Cre1 mouse (Trumpp et al., 1999; Dubois et al., 2006). Contract between UCSF and "The Genetics Institute". Inventors: J. Michael Bishop and Andreas Trumpp
2008/9	Patent granted (USA, Europe, Japan) (P-26-674-PCT) by HI-STEM. INTERFERON ALPHA SEQUENTIAL REGIMEN FOR TREATING CANCERS. Inventors: Andreas Trumpp and Marieke Essers
07/2012	Filing Patent application: USA (PCT 13/415,481): Novel Method for analyzing circulating tumor cells of a patient for the presence of metastasis-initiating cells. Inventors: Andreas Trumpp and Irene Baccelli
2012/10 to present	Filing of the Patent "Novel Approaches for individualized Therapy of pancreatic ductal adenocarcinoma" European Patent Application Number: 12 007 129.5
2012/10 to present	Filing of the Patent "Novel biomarkers for sub-typing pancreatic ductal adenocarcinoma" European Patent Application Number: 12 007 128.7
2014/09-tp present	Filing of the Patent "Novel Methods for sub-typing and treating cancer (diagnosis and treatment of CYP3A5-positive cancers)

11. OTHER PROFESSIONAL ACTIVITIES

Editorial Boards / Editorial Work

Since April 2010

Academic Editor of the "Journal of Experimental Medicine"
Serving as one of the twelve academic editors in the editorial board of the "Journal of Experimental Medicine". The Journal of Experimental Medicine publishes important new advances in research areas that include but are not limited to: immunology, infectious disease, inflammation, hematopoiesis, cancer, stem cells, and vascular biology. The JEM has long been known for its emphasis on physiological mechanisms and has more recently championed basic research on human subjects. The JEM is a leading life sciences journal with an ISI impact factor of 15.46,* placing it among the top publications in two ISI categories: Immunology and Research & Experimental Medicine. The journal's articles also have lasting impact, with a cited half-life of seven years.

Since 2012	**Editorial Board of "Stem CELL Reports"** Member of the Editorial Board of the Stem Cell Report. Stem Cell Reports is the official journal of the ISSCR and is published by Cell Press.
	Editorial Work for international Journals Reviewer for (selection): Nature, Science, Cell, Cell Stem Cell, Nature Cell Biology, Cancer Cell, Genes&Development, Developmental Cell; EMBO Journal, Molecular and Cellular Biology, Current Biology, EMBO Reports, Development, Oncogene, Stem Cell, Nucleic Acid Research, Molecular and General Genetics. External Grant reviewer for: Deutsche Forschungsgesellschaft, Deutsche Krebshilfe, EMBO, Swiss National Science Foundation, Swiss Cancer League, Association for International Cancer Research, Austrian Genome Research Program.

Stem Cell Networks and Societies

Since 2013	German Stem Cell Network (GSCN) - founding Member and Acting president 2014
Since 2011	International Society of Experimental Hematology (ISEH)
Since 2009	American Association of Cancer Research (AACR)
Since 2008	European Hematology Association (EHA)
Since 2008	Board member: Association for International Cancer Research
Since 2005	Member of the "International Society for Stem Cell Research" (ISSCR)
Since 2004-08	Board member of the "Swiss Stem Cell Network" (SSCN)

Organization of scientific meetings/conferences

Principal Organizer:

2017	Keystone Symposia 2017, "Hematopoiesis", Fairmont Banff Springs, Canada, January 31-February 5, 2017.
2016	International Conference on Stem Cells and Cancer, Heidelberg, September 18-20, 2016.
2014	International Conference on: Stem Cells and Cancer, Heidelberg, Germany, October 26-28, 2014.
2013	Gordon Research Conference on "Stem Cells and Cancer", Les Diablerets, Switzerland, April 21-26, 2013.
2012	International Conference on Stem Cells and Cancer, Heidelberg, October 2-5, 2012.

2011	Gordon Research Conference (Vice Chair): Molecular Mechanisms Controlling Normal And Cancer Stem Cells, Ventura, California, USA, February 20-25, 2011.
2010	International Conference on Stem Cells and Cancer, Heidelberg, Germany, October 2-5, 2010.
2009-2014	Hinterzartener Kreis, Cadenabbia Cancer Meetings (DFG), Lake Como, Italy.
2003 - 2009	Annual ISREC/Lausanne Stem Cell Club Retreat in: Anzeindaz, Switzerland (2003), Pont Nant, Switzerland (2004, 2006, 2007), Val d'Arpette, Switzerland (2005), Schluchsee, Germany (2009).
2008	Gordon Research Conference (Vice Chair): Cancer Models and mechanisms, Rhode Island, USA, July 27 - August 1, 2008.
2006	3rd Annual meeting of the Swiss Stem Cell Network (SSCN), EPFL, Lausanne, Switzerland, December 15, 2006.
2006	Satellite Meeting "Advances in Stem Cell Research" EPFL, Lausanne, Switzerland, September 8-10, 2006.

Co-organizer:

2006-2012	International Conference on Stem Cells and Cancer (Co-Organizer), Heidelberg, Germany, October 26-28, 2008.
2006	6th ISREC Conference on Cancer Research, Lausanne, Switzerland, October 11-13, 2006.
2006	Cancer and Stem Cell Conference, German Cancer Research Center (DKFZ), Heidelberg, Germany, March 12-14, 2006.
2006	11th Congress of the European Hematology Association, Amsterdam, Netherlands, June 15-18, 2006.

Coordinating Functions

- Co-founder of the German Stem Cell Network (GSCN) supported by the German Ministry of Science and Education (BMBF)
- Co-Chair Collaborative Research Center, SFB 873 "Maintenance and Differentiation of Stem Cells in Development and Disease"
- Coordinator of the "Stem Cells in Oncology" Program within the "German Consortium for Translational Cancer Research (DKTK)

Scientific Advisory Boards

2016	Panel Member in the 2016 ERC Consolidator Grants Evaluation

2015	Member of the “Awards Committee” of the International Society for Stem Cell Research (ISSCR)
2012	Member of the „Scientific Advisory Board“ Albert Einstein College of Medicine, Stem Cell Center, New York, USA
2012	Member of the “Scientific Advisory Board” Leibniz-Institute for Age Research, Jena, Germany
2011	Head of the SAB: Biotechnology Center Dresden (BIOTEC), Dresden, Germany
2008	Novartis Stem Cell Advisory Workshop, December 8, 2008
Since 2007	Scientific Advisory Board: “Tumorstammzellverbund” funded by the Deutsche Krebshilfe, Bonn, Germany
Since 2006	Member of the Scientific Advisory Board of the “Ludwig Boltzmann Institute for Cancer Research”, Vienna, Austria
Since 2006	Scientific Advisory Panel of Bayer-Schering Pharma, Berlin, Germany

International PhD Program

2001 - 2008	Co-founder and committee member of the “ISREC/IB International PhD Program” (www.isrec.ch). Chairman of the Program 2002-2004

ISREC/Lausanne Stem Cell Club

2002 - 2008	Founder and organizer of the ISREC/Lausanne Stem Cell Club. The club meets weekly and discusses research as well as recent stem cell literature. Members (ca. 40) are from the ISREC, the Ludwig Institute for Cancer Research in Epalinges, the Medical School Lausanne, the University of Lausanne (UNIL) and the EPFL. In addition, I am the organizer of an annual retreat in the Swiss mountains to which local and international experts in the stem cell field are invited (i.e. Profs. Hans Clevers, Marisa Jaconi, Yann Barrandon, Michel Duchosal).