

## HARVARD CV

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Place of Birth: Saarbruecken, Germany

### Education:

2000	Masters of Science	Free University of Berlin, Germany
2004	Ph.D.	Free University of Berlin, Germany

### Professional experiences:

1994-1999 Master of Science (specialized in Biochemistry, Devision of Chemistry, Biology and Pharmacology, Free University of Berlin, Germany.

1999- 2000 Master's thesis, „Comparison of normal and PI3K p85alpha deficient fibroblasts and restoration of function by transfection of p85alpha – constructs“,. Beth Israel Deaconess Medical Center, Division of Signal Transduction, Harvard Medical School, Department of Cell Biology, Boston, USA, Supervisor Lewis Cantley

2000- 2004 Ph.D., „In vivo role of PI3K regulatory subunit, p85“,. Beth Israel Deaconess Medical Center, Division of Signal Transduction, Harvard Medical School, Department of Cell Biology, Boston, USA, Supervisor Lewis Cantley

Postdoctoral Training:

2/2004-2/2005 BIDMC/HMS, Boston, USA (lab of Dr. Lewis Cantley)

3/2005- DFCI/HMS, Boston, USA (lab of Dr. William Sellers)  
Academic Appointments:

2004 Research Associate, Harvard Medical School, Boston, MA  
3/2005- Research Associate, Harvard Medical School, Boston, MA

Hospital Appointments:

2004 Research Associate, BIDMC, Boston, MA  
3/2005- Research Associate, DFCI, Boston, MA

Memberships, Offices, and Committee Assignments in Professional Societies:

1998- German Society of Molecular Biology and Biochemistry  
2002- American Society of Cell Biology

Major Research Interests:

1. Signal Transduction
2. Cancer

Research Funding Information:

Past: DAAD (Short-Term Fellowship): 1998  
Boehringer Ingelheim Fonds (Ph.D. Fellowship): 2000-2002  
Harvard Student Stipend: 2003-2004  
BIDMC: 2004-2005

Current: DFCI

Original Reports,

Saskia M. Brachmann, Kohjiro Ueki, Jeffery Engelman, Ronald C. Kahn and Lewis C. Cantley

Phosphoinositide 3-Kinase catalytic subunit deletion and regulatory subunit deletion have opposite effects on insulin sensitivity in mice.

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Saskia M. Brachmann, Claudine M. Yballe, Metello Innocenti, Jonathan A. Deane, David A. Fruman, Sheila M. Thomas and Lewis C. Cantley

The Role of Phosphoinositide 3-kinase Regulatory Isoforms in Development and Actin Rearrangement.

**MCB, 2005 Apr;25(7):2593-606.**

Lekmine F, Sassano A, Uddin S, Smith J, Majchrzak B, Brachmann SM, Hay N, Fish EN, Platanius LC.

Interferon-gamma engages the p70 S6 kinase to regulate phosphorylation of the 40S S6 ribosomal protein.

**Exp Cell Res. 2004 Apr 15;295(1):173-82.**

Lekmine F, Uddin S, Sassano A, Parmar S, Brachmann SM, Majchrzak B, Sonenberg N, Hay N, Fish EN, Platanius LC.

Activation of the p70 S6 kinase and phosphorylation of the 4E-BP1 repressor of mRNA translation by type I interferons.

**JBC. 2003, Jul 25;278(30):27772-80.**

Woolsey AM, Sunwoo L, Peterson CA, Brachmann SM, Cantley LC, Burleigh BA.

Novel PI 3-kinase-dependent mechanisms of trypanosome invasion and vacuole maturation.

**J Cell Sci. 2003, Sep 1;116:3611-22.**

Maeda N, Inoshima Y, Fruman DA, Brachmann SM, Fan H.

Transformation of mouse fibroblasts by Jaagsiekte sheep retrovirus envelope does not require phosphatidylinositol 3-kinase.

**J Virol. 2003 Sep;77(18):9951-9.**

Tkaczyk C, Beaven MA, Brachmann SM, Metcalfe DD, Gilfillan AM.

The phospholipase C gamma 1-dependent pathway of Fc epsilon RI-mediated mast cell activation is regulated independently of phosphatidylinositol 3-kinase.

**J Biol Chem. 2003 Nov 28;278(48):48474-84.**

Innocenti M, Frittoli E, Ponzanelli I, Falck JR, Brachmann SM, Di Fiore PP, Scita G.

Phosphoinositide 3-kinase activates Rac by entering in a complex with Eps8, Abi1, and Sos-1.

**JCB. 2003 Jan 6;160(1):17-23.**

Eskelinen EL, Prescott AR, Cooper J, Brachmann SM, Wang L, Tang X, Backer JM, Lucocq JM.

Inhibition of autophagy in mitotic animal cells.

**Traffic. 2002 Dec;3(12):878-93.**

Ueki K, Yballe CM, Brachmann SM, Vicent D, Watt JM, Kahn CR, Cantley LC.

Increased insulin sensitivity in mice lacking p85beta subunit of phosphoinositide 3-kinase.

**PNAS. 2002 Jan 8;99(1):419-24.**

Ueki K, Fruman DA, Brachmann SM, Tseng YH, Cantley LC, Kahn CR.

Molecular balance between the regulatory and catalytic subunits of phosphoinositide 3-kinase regulates cell signaling and survival.

**MCB. 2002 Feb;22(3):965-77.**

Vieira OV, Botelho RJ, Rameh L, Brachmann SM, Matsuo T, Davidson HW, Schreiber A, Backer JM, Cantley LC, Grinstein S.

Distinct roles of class I and class III phosphatidylinositol 3-kinases in phagosome formation and maturation.

**JCB. 2001 Oct 1;155(1):19-25.**

Conferences:

Brachmann SM. et al (2001), 84th International Titisee conference (The actin cytoskeleton: from signaling to bacterial pathogenesis), Titisee-Neustadt, Germany.

Brachmann SM. et al (2002), 42nd Annual Meeting of the ASCB, San Francisco, USA.