

Prof. Dr. Krishnaraj Rajalingam

*09.07.1977

Heisenberg Professor of Cell Biology, W3
Working Group Leader Molecular Signaling Unit (MSU)

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Academia

- 2000-2004 PhD, Max Planck Institute for infection biology, Berlin (Prof. Dr. Rudel)
- 1995-2000 MSc in Life Sciences, Bharathidasan University, Thiruchirapalli (India)

Career

- since 2014 Heisenberg Professor of Zellbiologie (W3)
- 2013-2014 BIF-PLUS3 fellow and working group leader „cell death signaling“, Institute for Biochemistry II, Goethe University Frankfurt
- 2008-2013 Emmy Noether working group leader, Institute for Biochemistry II, Goethe University Frankfurt
- 2006-2008 C1, senior scientific assistant, Institute of Medical Radiation and Cell Research (MSZ), University of Würzburg
- 2005-2006 Research associate, Max Planck Institute for infection biology, Berlin
- 2004-2005 Postdoc, Max Planck Institute for infection biology, Berlin

Awards

- 2014 Gutenberg Forschungskolleg (GFK)-fellowship from JGU, Mainz
- 2013 W3-Heisenberg professor of cell biology (DFG)
- 2012 PLUS3 fellowship of the Boehringer Ingelheim Foundation
- 2010-2013 Teaching prize for the seminar "Life and Suffering", awarded by medical students at the Goethe University Frankfurt
- 2008 BOGS fellowship of the German academy for natural scientists Leopoldina
- 2007 Emmy Noether Programme of the DFG (as the first scientist of South Asian origin)
- 2005 AACR-AFLAC Scholar-in-Training Award
- 2000-2006 PhD and Postdoc fellowships of the Max Planck society
- 1998 EMBO/FEBS/UNESCO fellowship

Selected Publications

Buehler U, Schulenburg K, Yurugi H, Šolman M, Abankwa D, Ulges A, Tenzer S, Bopp T, Thiede B, Zipp F, **Rajalingam K**. Targeting prohibitins at the cell surface prevents Th17-mediated autoimmunity. *EMBO J*. 2018 Jul 26. pii: e99429.

Murali A, Shin J, Yurugi H, Krishnan A, Akutsu M, Carpy A, Macek B, **Rajalingam K**. Ubiquitin-dependent regulation of Cdc42 by XIAP. *Cell Death Dis*. 2017 Jun 29;8(6):e2900.

Rajalingam, K., Dikic, I. SnapShot: Expanding the Ubiquitin Code. *Cell*. 2016 Feb 25;164(5):1074-1074.e1.

Ulges A, Klein M, Reuter S, Gerlitzki B, Hoffmann M, Grebe N, Staudt V, Stergiou N, Bohn T, Brühl TJ, Muth S, Yurugi H, **Rajalingam K**, Bellinghausen I, Tuettenberg A, Hahn S, Reißig S, Haben I, Zipp F, Waisman A, Probst HC, Beilhack A, Buchou T, Filhol-Cochet O, Boldyreff B, Breloer M, Jonuleit H, Schild H, Schmitt E, Bopp T. Protein kinase CK2 enables regulatory T cells to suppress excessive TH2 responses in vivo. *Nat Immunol*. 2015 Mar;16(3):267-75.

Mooz J, Oberoi-Khanuja TK, Harms GS, Wang W, Jaiswal BS, Seshagiri S, Tikkanen R, **Rajalingam K** (2014) Dimerization of ARAF promotes MAPK activation and cell migration. *Sci Signal* 5;7(337):ra73

Takeda AN1*, Oberoi-Khanuja TK1*, Glatz G, Schulenburg K, Scholz RP, Carpy A, Macek B, Remenyi A, **Rajalingam K** (2014) Ubiquitin dependent regulation of MEKK2/3-MEK5-ERK5 signaling module by XIAP and cIAP1. *EMBO J* 18;33:1784-801

Jaiswal BS, Kljavin NM, Stawiski E, Chan E, Parikh C, Durinck S, Chaudhuri S, Pujara K, Guillory J, Edgar KA, Janakiraman V, Scholz RP, Bowman KK, Lorenzo M, Li H, Wu J, Yuan W, Peters BA, Kan Z, Stinson J, Mak M, Modrusan Z, Eigenbrot C, Firestein R, Stern HM, **Rajalingam K**, Schaefer G, Merchant MA, Sliwkowski MX, de Sauvage FJ, Seshagiri S (2013) Novel oncogenic ERBB3 mutations in human cancers. *Cancer Cell* 23:603-17

Oberoi-Khanuja TK, Karreman C, Larisch S, Rapp UR, **Rajalingam K** (2012) Role of melanoma inhibitor of apoptosis (ML-IAP), a member of baculoviral IAP repeat (BIR) domain family in the regulation of C-RAF kinase and cell migration. *J Biol Chem* 287:28445-55

Imre G, Heering J, Takeda AN, Husmann M, Thiede B, zu Heringdorf DM, Green DR, van der Goot FG, Sinha B, Dötsch V, **Rajalingam K** (2012) Caspase-2 is an initiator caspase responsible for pore forming toxin-mediated apoptosis. *EMBO J* 31:2615-28