

IRC SEMINAR

"Cytomegalovirus expressing NKG2D ligand Rae-1 gamma as a tumor vaccine vector"

Stipan Jonjic, MD, PhD

(Faculty of Medicine, University of Rijeka, Croatia)

Host: Christoph Steininger

Thursday, 18th May 2017 14:00 Uhr

Vienna Competence Center, Seminar Room, 1st Floor, Lazarettgasse 19, 1090 Vienna



Biosketch

Stipan Jonjic chair of the Department of Histology and Embryology at the Faculty of Medicine in Rijeka, Croatia. His research career in immunology started in the early 1980s at the Department of Physiology and Immunology of the Faculty of Medicine, University of Rijeka. In 1992 he joined the Federal Research Center for Virus Diseases in Tuebingen as a PhD student (group of Prof. Ulrich



Koszinowski). After returning back to Croatia he has completed his PhD studies and continued working as a postdoctoral researcher. In 1992 he was appointed as full professor. His lab was among the first labs in Croatia that established modern molecular biology research. Most of his research was focused on elucidating antiviral immune response and viral immunoevasion mechanisms. In 2006 he established the Center for Proteomics. He received numerous prizes and he was the first Croatian scientist that received an ERC Advanced grant (2012). For his lifelong research achievements he was elected as a member of Leopoldina, German National Academy of science.

Selected publications

- Lenac Rovis T, Kucan Brlic P, Kaynan N, Juranic Lisnic V, Brizic I, Jordan S, Tomic A, Kvestak D, Babic M, Tsukerman P, Colonna M, Koszinowski U, Messerle M, Mandelboim O, Krmpotic A, Jonjic S: Inflammatory monocytes and NK cells play a crucial role in DNAM-1-dependent control of cytomegalovirus infection, J. Exp. Med., 213(9):1835-50, 2016
- Trsan T, Busche A, Abram M, Wensveen FM, Lemmermann NA, Arapovic M, Babic M, Tomic A, Golemac M, Brinkmann MM, Jäger W, Oxenius A, Polic B, Krmpotic A, Messerle M, Jonjic S: Superior Induction and maintenance of protective CD8 T cells in mice infected with MCMV vector expressing RAE-1γ. PNAS, 110(41):16550-5, 2013
- Slavuljica I, Busche A, Babic M, Mitrovic M, Gasparović I, Cekinovic Dj, Markova Car E, Pernjak Pugel E, Cikovic A, Juranic Lisnic V, Britt WJ, Koszinowski U, Messerle M, Krmpotic A, Jonjic S: Recombinant mouse cytomegalovirus expressing a ligand for the NKG2D receptor is attenuated and has improved vaccine properties. J. Clin. Inv.120(12):4532-45, 2010
- Babic M, Pyzik M, Zafirova B, Mitrovic M, Butorac V, Lanier LL, Krmpotic A, Vidal SM, Jonjic S: Cytomegalovirus immunoevasin reveals the physiological role of "missing self" recognition in NK cell dependent virus control in vivo. Journal of Experimental Medicine 207(12):2663-2673;2010
- Krmpotic A, Busch D, Bubic I, Gebhardt F, Hengel H, Hasan M, Scalzo A, Koszinowski UH, Jonjić S: MCMV glycoprotein gp40 confers virus resistance to CD8+T cells and NK cells in vivo. Nature Immunology, 3:529-35; 2002