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Publication List (2008-2015)

Original Publications:

1. Dietz, L., Frommer, F., Vogel, A.L., Vaeth, M., **Serfling, E.**, Waisman, A., Buttmann, M., and Berberich-Siebelt, F.,
NFAT1 deficit and NFAT2 deficit attenuate EAE via different mechanisms.
Eur. J. Immunol. (2015) Jan 29.
doi: 10.1002/eji.201444638. [Epub ahead of print]
2. Muhammad, K., Alrefai, H., Marienfeld, R., Pham, D.A.T., Murti, K., Patra, A.K., Avots, A., Bukur, V., Sahin, U., Kondo, E., Klein-Hessling, S., **Serfling, E.**,
NF- κ B factors control the induction of NFATc1 in B lymphocytes.
Eur. J. Immunol. 44, 3392-3402 (2014).
doi: 10.1002/eji.201444756. [Epub ahead of print]. PMID: 25179582
3. Vaeth, M., Mueller, G., Stauss, D., Dietz, L., Klein-Hessling, S., **Serfling, E.**, Lipp, M., Berberich, I., Berberich-Siebelt, F.
Follicular regulatory T cells control humoral autoimmunity via NFAT2-regulated CXCR5 expression.
J. Exp. Med. 211, 545-561 (2014).
4. Hock, M., Vaeth, M., Patra, A.K., Pham, D.A.T., Muhammad, K., Rudolf, R., Pusch, T., Bopp, T., Schmitt, E., Rost, R., Berberich-Siebelt, F., Tyrsin, D., Chuvpilo, S., Avots, A., **Serfling, E.**, Klein-Hessling, S.,
The induction of NFATc1 in peripheral T and B lymphocytes.
J. Immunol. 190, 2345-2354 (2013)
5. Mueller, K., Quandt, J., Marienfeld, R., Wehrich, P., Fiedler, K., Claußnitzer, M., Laumen, H., Vaeth, M., Berberich-Siebelt, F., **Serfling, E.**, Wirth, T., and Brunner, C.
Octamer-dependent transcription in T cells is mediated by NFAT and NF- κ B. Nucl. Acids Res. 41: 2138-2154 (2013).
6. Patra, A.K., Avots, A., Zahedi, R.P., Schüler, T., Sickmann, A., Bommhardt, U., **Serfling, E.**:
A novel NFAT activation pathway mediated by IL-7 is critical for early thymocyte development.
Nature Immunology 14: 127-135 (2013).
7. Benkert, T.F., Dietz, L., Hartmann, E.M., Leich, E., Rosenwald, A., **Serfling, E.**, Buttmann, M., Berberich-Siebelt, F.:
Natalizumab exerts direct signaling capacity and supports a pro-inflammatory

- phenotype in some patients with multiple sclerosis.
PLoS One. 7(12): e52208 (2012).
8. Vaeth, M., Schliesser, U., Müller, G., Reissig, S., Satoh, K., Tuettenberg, A., Jonuleit, H., Waisman, A., Müller, M.R., **Serfling, E.**, Sawitzki, B.S., F. Berberich-Siebelt. Dependence on nuclear factor of activated T-cells (NFAT) levels discriminates conventional T cells from Foxp3+ regulatory T cells.
Proc. Natl. Acad. Sci. U S A 109, 16258-63 (2012).
 9. Bhattacharyya, S., Deb, J., Patra, A.K., Pham, D.A.T., Chen, W., Vaeth, M., Berberich-Siebelt, F., Klein-Hessling, S., Lamperti, E.D., Reifenberg, K., Jellusova, J., Schweizer, A., Nitschke, L., Leich, E., Rosenwald, A., Brunner, C., Engelmann, S., Bommhardt, U., Avots, A., Müller, M.R., Kondo, E., **Serfling, E.**: NFATc1 affects the function of mouse splenic B cells by controlling the Ca⁺⁺/calcineurin network.
J. Exp. Med. 208, 823-839 (2011)
 10. Vaeth, M., Gogishvili, T., Bopp, T., Klein, M., Berberich-Siebelt, F., Gattenloehner, S., Avots, A., Sparwasser, T., Grebe, N., Schmitt, E., Huenig, T., **Serfling, E.**, Bodor, J.: Regulatory T Cells Induce the Nuclear Accumulation of ICER/CREM and Suppress the Induction of NFATc1 in Conventional CD4⁺ T Cells.
Proc. Natl. Acad. Sci. USA 108, 2480-2485 (2011)
 11. Gattenlöhner, S., Stühmer, T., Leich, E., Reinhard, H., Etschmann, B., Völker, H.U., Rosenwald, A., **Serfling, E.**, Bargou, R.C., Ertl, G., Einsele, H., Müller-Hermelink, H.K.,
Specific detection of CD56 (NCAM) isoforms for the identification of aggressive malignant neoplasms with progressive development.
Am. J. Pathol. 174, 1160-1171 (2009).
 12. Nayak, A., Glöckner-Pagel, J., Vaeth, M., Schumann, J.E., Buttman, M., Bopp, T., Schmitt, E., **Serfling, E.**, Berberich-Siebelt, F.
SUMOylation of the transcription factor NFATc1 leads to its subnuclear relocalization and IL2 repression by HDAC.
J. Biol. Chem. 284, 10935-10946 (2009).
 13. Gattenlöhner, S., **Serfling, E.**, Einsele, H., Müller-Hermelink, H.-K.,
Molecular insights into the morphology of myeloproliferative neoplasms using an in situ PCR assay specific for the Jak2 mutation V617.
Leukemia 23, 196-199 (2008).
 14. Klein-Hessling, S., Jha, M.K., Schmitt, A., Bopp, T., Miyatake, S., Stassen, M., **Serfling, E.**,
Cyclic AMP-induced Chromatin Changes Support the NFATc-mediated Recruitment of GATA-3 to the Interleukin 5 Promoter.
J. Biol. Chem. 283, 31030-31037 (2008).
 15. Akimzhanov, A., Krenacs, L., Schlegel, T., Klein-Hessling, S., Bagdi, E., Stelkovic, E., Kondo, E., Chuvpilo, S., Wilke, P., Avots, A., Gattenlöhner, S., Müller-Hermelink, H.-K., Palmetshofer, A., **Serfling, E.**,
Epigenetic changes and suppression of the NFATC1 promoter in human lymphomas with defects in immunoreceptor signalling.
Am. J. Pathol. 172, 215-224 (2008).

Reviews etc.:

1. Rudolf, R., Busch, R., Patra, A.K., Muhammad, K., Avots, A., Andrau, J.-C., Klein-Hessling, S., and **Serfling, E.**
Architecture and expression of the *Nfatc1* gene in lymphocytes.
Frontiers in Immunol., 5:21. eCollection (2014).
2. **Serfling, E.**, Avots, A., Klein-Hessling, S., Rudolf, R., Vaeth, M., and Berberich-Siebelt, F.
NFATc1/ α A: The other Face of NFAT Factors in Lymphocytes.
Cell Communication and Signaling 2012, **10**:16 (5 July 2012).
3. Bodor, J., Bopp, T., Vaeth, M., Klein, M., **Serfling, E.**, Hünig, T., Becker, C., Schild, H. and Schmitt, E.,
Cyclic AMP underpins suppression by regulatory T cells.
Eur. J. Immunol. 42, 1375-1384 (2012).
4. Berberich-Siebelt, F., Avots, A. and **Serfling, E.**,
Transcriptional Programming in the Immune System: Report on the International Workshop of the Transregio TR52, Nov. 17-20, 2010 in Würzburg,
Eur. J. Immunol. 41, 885-88 (2011).
5. Entschladen, F., Lindquist, J.A., **Serfling, E.**, Thiel, G., Kieser, A., Giehl, K., Ehrhardt, C., Feller, S.M., Ullrich, O., Schaper, F., Janssen, O., Hass, R. and Friedrich K.,
Signal transduction – receptors, mediators and genes.
Sci. Signal. Mr3, (2009).
6. Friedrich, K., Lindquist, J.A., Entschladen, F., **Serfling, E.**, Thiel, G., Kieser, A., Giehl, K., Ehrhardt, C., Feller, S.M., Ullrich, O., Schaper, F., Janssen, O., and Hass, R.,
Signal Transduction in the Footsteps of Goethe and Schiller.
Cell Commun Signal. 7(1):2 (2009).