

Publications (Selected out from 180 peer reviewed original articles):

1. Takagi M, Ogata S, Ueno H, Yoshida K, Yeh T, Hoshino A, Piao H, Yamashita M, Nanya M, Okano T, Kajiwara M, Kanegane H, Muramatsu H, Okuno Y, Shiraishi Y, Chiba K, Tanaka H, Bando Y, Kato M, Hayashi Y, Miyano S, Imai K, Ogawa S, Kojima S, **Morio T**. Haploinsufficiency of TNFAIP3 (A20) by germline mutation is involved in autoimmune lymphoproliferative syndrome. *J. Allerg. Clin. Immunol.* 2016, in press
2. Hoshino A, Okada S, Yoshida K, Nishida N, Okuno Y, Ueno H, Yamashita M, Okano T, Tsumura M, Nishimura S, Sakata S, Kobayashi M, Nakamura H, Kamizono J, Mitsui-Sekinaka K, Ichimura T, Ohga S, Nakazawa Y, Takagi M, Imai K, Shiraishi Y, Chiba K, Tanaka H, Miyano S, Ogawa S, Kojima S, Nonoyama S, **Morio T**, Kanegane H. Abnormal hematopoiesis and autoimmunity in human subjects with germline IKZF1 mutations. *J. Allerg. Clin. Immunol.* 2016, in press
3. Toubiana J, Okada S, Hiller J, Oleastro M, Lagos Gomez M, Aldave Becerra JC, Ouachée-Chardin M, Fouyssac F, Girisha KM, Etzioni A, Van Montfrans J, Camcioglu Y, Kerns LA, Belohradsky B, Blanche S, Bousfiha A, Rodriguez-Gallego C, Meyts I, Kisand K, Reichenbach J, Renner ED, Rosenzweig S, Grimbacher B, van de Veerdonk FL, Traidl-Hoffmann C, Picard C, Marodi L, **Morio T**, Kobayashi M, Lilic D, Milner JD, Holland S, Casanova JL, Puel A. Heterozygous STAT1 gain-of-function mutations underlie an unexpectedly broad clinical phenotype: an international survey of 274 patients from 167 kindreds. *Blood* **127**: 3154-3164, 2016.
4. Mitsui-Sekinaka K, Imai K, Sato H, Tomizawa D, Kajiwara M, Nagasawa M, **Morio T**, Nonoyama S. Clinical features and hematopoietic stem cell transplantations for CD40 ligand deficiency in Japan. *J. Allergy Clin. Immunol.* **136**:1018, 2015.
5. Matsubara Y, Chiba T, Kashimada K, **Morio T**, Takada S, Mizutani S, Asahara H. Transcription activator-like effector nuclease-mediated transduction of exogenous gene into *IL2RG* locus. *Scientific Reports.* **4**:5043, 2014.

6. Honda F, Kano H, Kanegane H, Nonoyama S, Kim E-S, Lee S-K, Takagi M, Mizutani S, **Morio T**. Btk negatively regulates ROS production and stimulation-induced apoptosis in human neutrophils. *Nature Immunol.* **13**: 369-378, 2012.
7. Honda F, Hane Y, Toma T, Yachie A, Kim E-S, Lee S-K, Takagi M, Mizutani S, **Morio T**. Transducible form of p47phox and p67phox compensate for defective NADPH oxidase activity in neutrophils of patients with chronic granulomatous disease. *Biochem Biophys Res Comm.* **417**:162-8, 2012.
8. Okamoto K, Iwai Y, Ohhora M, Yamamoto M, **Morio T**, Aoki K, Ohya K, Jetten AM, Akira S, Muta T, Takayanagi H. IκB regulates TH17 development by cooperating with ROR nuclear receptors. *Nature.* **464**: 1381–1385, 2010.
9. **Morio T**, Atsuta Y, Tomizawa D, Nagamura-Inoue T, Kato K, Ariga T, Kawa K, Koike K, Tauchi H, Kajiwara M, Hara T, Kato S. Outcome of unrelated umbilical cord blood transplantation in 88 patients with primary immunodeficiency in Japan. *Br J Haematol.* **154**:363-372, 2011.
10. Takagi M, Shinoda K, Piao J, Mitsui N, Takagi M, Matsuda K, Muramatsu H, Doisaki S, Nagasawa M, **Morio T**, Kasahara Y, Koike K, Kojima S, Takao A, Mizutani S. Autoimmune Lymphoproliferative Syndrome Like Disease with Somatic KRAS Mutation. *Blood.* **117**:2887-90, 2011.
11. Isoda T, Ford A, Tomizawa D, van Delft F, De Castro DG, Mitsui N, Score J, Taki T, Takagi M, **Morio T**, Saji H, Greaves M, Mizutani S. Immunologically silent cancer clone transmission from mother to offspring. *Proc Natl Acad Sci USA.* **106**:17882-17885, 2009.
12. Takahashi N, Matsukoto K, Saito H, Nanki T, Miyasaka N, Kobata T, Azuma M, Lee S-K, Mizutani S, **Morio T**. Impaired CD4 and CD8 effector function and decreased memory T-cell populations in ICOS deficient patients. *J. Immunol.* **182**:5515-5527, 2009.
13. Shinohara M, Koga T, Okamoto K, Sakaguchi S, Arai K, Yasuda H, Takai T, Kodama T, **Morio T**, Geha RS, Kitamura D, Kurosaki T, Ellmeier W, Takayanagi H. Tyrosine kinases Btk and Tec regulate osteoclast differentiation by linking RANK and ITAM signals. *Cell.* **132**:794-806, 2008.
14. Ohnuma-Ishikawa K, **Morio T**, Yamada T, Sugawara Y, Ono M, Nagasawa M, Yasuda A, Morimoto C, Ohnuma K, Dang NH, Hosoi H, Verdin E, Mizutani S. Knockdown of XAB2 enhances All-Trans Retinoic Acid-Induced Cellular

Differentiation in All-Trans Retinoic Acid-Sensitive and -Resistant Cancer Cells. *Cancer Res.* **67**:1019-1029, 2007.

15. Minegishi Y, Saito M, **Morio T**, *et al.* Human tyrosine kinase 2 deficiency reveals its requisite roles in multiple cytokine signals involved in innate and acquired immunity. *Immunity.* **25**:745-755, 2006.
16. Imai K, **Morio T**, Zhu Y, Jin Y, Itoh S, Kajiwarra M, Yata J, Mizutani S, Ochs HD, Nonoyama S. Clinical course of patients with WASP gene mutations. *Blood.* **103**:456-464, 2004.
17. Shim J-H, Lee H-K, Chang E-J, Chae W-J, Han J-H, Han D-J, **Morio T**, Yang J-J, Bothwell A, Lee S-K. Immunosuppressive effects of tautomycetin *in vivo* and *in vitro* via T cell-specific apoptosis induction. *Proc Natl Acad Sci USA.* **99**:10617-22, 2002.
18. **Morio T**, Hanissian SH, Bacharier LB, Teraoka H, Nonoyama S, Seki M, Kondoh J, Nakano H, Lee S-K, Geha RS, Yata J. Ku in the cytoplasm associates with CD40 in human B cells and translocates into the nucleus following incubation with IL-4 and anti-CD40 mAb. *Immunity.* **11**:339-348, 1999.
19. **Morio T**, Hanissian S, Geha RS. Characterization of a 23-kDa protein associated with CD40. *Proc Natl Acad Sci USA.* **92**:11633-11636, 1995.
20. Ren CL, **Morio T**, Fu SM, Geha RS. Signal transduction via CD40 involves activation of lyn kinase and phosphatidylinositol-3-kinase. and phosphorylation of phospholipase C 2. *J Exp Med.* **179**:673-680, 1994.
21. **Morio T**, Geha RS, Chatila T. Engagement of MHC class II molecules by staphylococcal superantigens activates src-type protein tyrosine kinases. *Eur J Immunol.* **24**:651-658, 1994.
22. **Morio T**, Nagasawa M, Nonoyama S, Okawa H, Yata J. Phenotypic profile and functions of T cell receptor- β -bearing cells from patients with primary immunodeficiency syndrome. *J Immunol.* **144**:1270-1275, 1990.