

Publication list AID-NET

Experiences with IL-1 blockade in systemic juvenile idiopathic arthritis – data from the German AID-registry

Pediatr Rheumatol. 2021 Mar 22. >>PubMed-Link<<

Lainka E, Baehr M, Raszka B, Haas JP, Hugle B, Fischer N, et al.

Increased Prevalence of NLRP3 Q703K Variant Among Patients With Autoinflammatory Diseases: An International Multicentric Study

Front Immunol 2020 May 14;11:877 >>PubMed-Link<<

Theodoropoulou K, Wittkowski H, Busso N, Von Scheven-Gete A, Moix I, Vanoni F, et al.

Molecular signature characterisation of different inflammatory phenotypes of systemic juvenile idiopathic arthritis

Ann Rheum Dis 2019 Aug;78(8):1107-1113

Gohar F, McArdle A, Jones M, Callan N, Hernandez B, Kessel C, et al.

S100-proteins in rheumatic diseases

Nature Rev. Rheum.14(9):528-541

Austermann, J., Spiekermann, C., Roth, J.

Blockade of myeloid-derived suppressor cell expansion with all-trans retinoic acid increases the efficacy of anti-angiogenic therapy

Cancer Res. 2018 Jun 15;78(12):3220-3232. doi: 10.1158/0008-5472.CAN-17-3415.

Bauer, R., Udonata, F.*, Wroblewski, M., Ben-Batalla, I., Miranda-Santos, I., Taverna, F., Kuhlencord, M., Gensch, V., Päsler, S., Vinckier, S., Brandner, J.M., Pantel, K., Bokemeyer, C., Vogl, T., Roth, J., Carmeliet, P. & Loges, S.

Potential of the novel PTA score to identify patients with peritonsillar inflammation profiting from medical treatment

Dis. Markers, 2018 May 28;2018:2040746

Spiekermann, C., Roth, J., Vogl, T., Stenner, M. & Rudack, C.

Peroxisome Proliferator-Activated Receptor-γ Modulates the Response of Macrophages to Lipopolysaccharide and Glucocorticoids

Front Immunol. 2018 May 8;9:893. doi: 10.3389/fimmu.2018.00893. eCollection 2018.

Heming M, Gran S, Jauch SL, Fischer-Riepe L, Russo A, Klotz L, Hermann S, Schäfers M, Roth J, Barczyk-Kahlert K.

Autoinhibitory regulation of S100A8/S100A9 alarmin activity locally restricts sterile inflammation

J. Clin. Invest. 128, 1852-1866

Vogl, T.*, Stratis, A.* , Wixler, V., Völler, T., Thurainayagam, S., Jorch, S.K., Zenker, S., Dreiling, A., Chakraborty, D., Fröhling, M., Paruzel, P., Wehmeyer, C., Hermann, S., Papantonopoulou, O., Geyer, C., Loser, K., Schäfers, M., Ludwig, S., Stoll, M., Leanderson, T., Schultze, J.L., Koenig, S., Pap, T. & Roth, J.

IL-6 blockade in systemic juvenile idiopathic arthritis – achievement of inactive disease and remission (data from the German AID-registry)

Pediatr Rheumatol 2018 Apr 5;16(1):22

Bielak M, Husmann E, Weyandt N, Haas JP, Hugle B, Horneff G, et al.

Imaging, myeloid precursor immortalization and genome editing for defining mechanisms of leukocyte recruitment in vivo

Theranostics. 2018; 8(9): 2407–2423.

Gran S, Honold L, Fehler O, Zenker S, Eligehausen S, Kuhlmann MT, Geven E, van den Bosch M, van Lent P, Spiekermann C1, Hermann S, Vogl T, Schäfers M, Roth J.

Harnessing the Maltodextrin Transport Mechanism for Targeted Bacterial Imaging: Structural Requirements for Improved in vivo Stability in Tracer Design.

ChemMedChem. 2018 Feb 6;13(3):241-250.

Axer, A., Hermann, S., Kehr, G., Clases, D., Karst, U., Fischer-Riepe, L., Roth, J., Fobker, M., Schäfers, M., Gilmour, R., Faust, A.

Defining the normal appearance of the temporomandibular joints by magnetic resonance imaging with contrast: a comparative study of children with and without juvenile idiopathic arthritis

Pediatr Rheumatol 2018 Jan 24;16(1):8

Stoll ML, Guleria S, Mannion ML, Young DW, Royal SA, Cron RQ, et al.

Practice and consensus-based strategies in diagnosing and managing systemic juvenile idiopathic arthritis in Germany

Pediatr Rheumatol 2018 Jan 22;16(1):7

Hinze CH, Holzinger D, Lainka E, Haas JP, Speth F, Kallinich T, et al.

Alarmin S100A8 Activates Alveolar Epithelial Cells in the Context of Acute Lung Injury in a TLR4-Dependent Manner

Front Immunol. 2017 Nov 13;8:1493. doi: 10.3389/fimmu.2017.01493. eCollection 2017.

Chakraborty D, Zenker S, Rossaint J, Hölscher A, Pohlen M, Zarbock A, Roth J, Vogl T.

Familial Mediterranean fever in children and adolescents: factors for colchicine dosage and predicting parameters for dose increase

Rheumatology 2017 Sep 1;56(9):1597-1606

Knieper AM, Klotsche J, Lainka E, Berger T, Dressler F, Jansson AF, et al.

The molecular mechanism underlying unconventional secretion of Fibroblast Growth Factor 2 from tumour cells

Biol Cell. 2017 Aug 10. doi: 10.1111/boc.201700036.

Steringer JP, Nickel W.

Pro-inflammatory cytokine environments can drive IL-17 over-expression by γδT cells in systemic juvenile idiopathic arthritis

Arthritis Rheumatol. 2017 Mar 15. doi: 10.1002/art.40099. [Epub ahead of print] Kessel C, Lippitz K, Weinhage T, Hinze C, Wittkowski H, Holzinger D, Fall N, Grom AA, Gruen N, Foell D

CARD14-Mediated Activation of Paracaspase MALT1 in Keratinocytes: Implications for Psoriasis.

J Invest Dermatol. 2017 Mar;137(3):569-575. doi: 10.1016/j.jid.2016.09.031. Epub 2016 Dec 8.

Van Nuffel E, Schmitt A, Afonina IS, Schulze-Osthoff K, Beyaert R, Hailfinger S.

Correlation of Secretory Activity of Neutrophils With Genotype in Patients With Familial Mediterranean Fever.

Arthritis Rheumatol. 2016 Dec;68(12):3010-3022. doi: 10.1002/art.39784.

Gohar F, Orak B, Kallinich T, Jeske M, Lieber M, von Bernuth H, Giese A, Weissbarth-Riedel E, Haas JP, Dressler F, Holzinger D, Lohse P, Neudorf U, Lainka E, Hinze C, Masjosthusmann K, Kessel C, Weinhage T, Foell D, Wittkowski H.

In neonates S100A8/S100A9 alarmins prevent the expansion of a specific inflammatory monocyte population promoting septic shock

FASEB J. 2016 Dec 19. pii: fj.201601083R. [Epub ahead of print] Heinemann AS, Pirr S, Fehlhaber B, Mellinger L, Burgmann J, Busse M, Ginzel M, Friesenhagen J, von Köckritz-Blickwede M, Ulas T, von Kaisenberg CS, Roth J, Vogl T, Viemann D.

Inflammation and cancer: tissue regeneration gone awry

Curr Opin Cell Biol 2016 Dec;43:55-61

Pesic M, Greten FR

The danger from within: alarmins in arthritis
Nat Rev Rheumatol. 2016 Nov;12(11):669-68
Nefla M, Holzinger D, Berenbaum F, Jacques C.

Serum cell death biomarker mirrors liver cancer regression after transarterial chemoembolisation
Aliment Pharmacol Ther. 2016; 44(7):747-54
Bock B, Hasdemir D, Wandrer F, Rodt T, Manns MP, Schulze-Osthoff K, Bantel H.

Dysregulation of proinflammatory versus anti-inflammatory human T(H)17 cell functionalities in the autoinflammatory Schnitzler syndrome
J Allergy Clin Immunol 2016 Oct;138(4):1161-1169.e6
Noster R, de Koning HD, Maier E, Prelog M, Lainka E, Zielinski CE

Alarming consequences – autoinflammatory disease spectrum due to mutations in proline-serine-threonine phosphatase-interacting protein 1
Curr Opin Rheumatol. 2016 Sep;28(5):550-9
Holzinger D, Roth J.

Alarmins firing arthritis: Helpful diagnostic tools and promising therapeutic targets
Joint Bone Spine. 2016 Sep 19. pii: S1297-319X(16)30127-0
Lavric M, Miranda-García MA, Holzinger D, Foell D, Wittkowski H.

Alarmin consequences – autoinflammatory disease spectrum due to mutations in proline-serine-threonine phosphatase-interacting protein 1
Curr Opin Rheumatol. 2016 Sept; 28(5):550-9
Holzinger D, Roth J.

Review of biomarkers in systemic juvenile idiopathic arthritis: helpful tools or just playing tricks?
Arthritis Res Ther. 2016 Jul 13;18:163
Gohar F, Kessel C, Lavric M, Holzinger D, Foell D.

Small Molecule Inhibitors Targeting Tec Kinase Block Unconventional Secretion of Fibroblast Growth Factor 2
JBC Papers in Press, July 5, 2016
Giuseppe La Venuta, Sabine Wegehingel, Peter Sehr, Hans-Michael Müller, Eleni Dimou, Julia P. Steringer, Mareike Grotwinkel, Nikolai Hentze, Matthias P. Mayer, David W. Will§, Ulrike Uhrig, Joe D. Lewis, and Walter Nickel

Secretory Activity of Neutrophils Correlates With Genotype in Familial Mediterranean Fever
Arthritis Rheumatol. 2016 Jun 22.
Gohar F, Orak B, Kallinich T, Jeske M, Lieber M, von Bernuth H, Giese A, Weissbarth-Riedel E, Haas JP, Dressler F, Holzinger D, Lohse P, Neudorf U, Lainka E, Hinze C, Masjosthusmann K, Kessel C, Weinhage T, Foell D, Wittkowski H.

Nuclear delivery of recombinant OCT4 by chitosan nanoparticles for transgene-free generation of protein-induced pluripotent stem cells
Oncotarget. 2016; 7(25):37728-37739
Tammam S, Malak P, Correa D, Rothfuss O, Azzazy HM, Lamprecht A, Schulze-Osthoff K.

Bok is a genuine multi-BH-domain protein that triggers apoptosis in the absence of Bax and Bak
J Cell Sci. 2016;129(11):2213-23
Einsele-Scholz S, Malmheimer S, Bertram K, Stehle D, Johäning J, Manz M, Daniel PT, Gillissen BF, Schulze-Osthoff K, Essmann F.

The antihypertensive drug hydralazine activates the intrinsic pathway of apoptosis and causes DNA damage in leukemic T cells
Oncotarget. 2016;7(16):21875-86
Ruiz-Magaña MJ, Martínez-Aguilar R, Lucendo E, Campillo-Davo D, Schulze-Osthoff K, Ruiz-Ruiz C.

The atypical inhibitor of NF-κB, IκBζ, controls macrophage interleukin-10 expression

J Biol Chem. 2016 Jun 10;291(24):12851-61. Epub 2016 Apr 18.

Hörber S, Hildebrand DG, Lieb WS, Lorscheid S, Hailfinger S, Schulze-Osthoff K, Essmann F.

DETAILS

The challenge of trial design in paediatric rheumatology

Nat Rev Rheumatol. 2016 Apr;12(4):242

Niehues T.

MALT1 Protease Activity Controls the Expression of Inflammatory Genes in Keratinocytes upon Zymosan Stimulation

J Invest Dermatol. 2016;136(4):788-97

Schmitt A, Grondona P, Maier T, Brändle M, Schönfeld C, Jäger G, Kosnopal C, Eberle FC, Schittekk B, Schulze-Osthoff K, Yazdi AS, Hailfinger S.

TRAPS-Syndrom ohne Nachweis einer Mutation im TNFRSF1A-Gen mit gutem Ansprechen auf Anakinra

arthritis und Rheuma 2016, 3/16: 187-189

F. Hamsen; C. Müntjes; W. Kampmann; B. Schweiger; U. Neudorf; E. Lainka

Interferon-Mediated Cytokine Induction Determines Sustained Virus Control in Chronic Hepatitis C Virus Infection

J Infect Dis. 2016; 213(5):746-54.

Wandrér F, Falk CS, John K, Skawran B, Manns MP, Schulze-Osthoff K, Bantel H.

Inflammasome-dependent IL-1β release depends upon membrane permeabilisation

Cell Death and Differentiation (2016) 23, 1219–1231

F Martín-Sánchez, C Diamond, M Zeitler, Al Gomez, A Baroja-Mazo, J Bagnall, D Spiller, M White, MJD Daniels, A Mortellaro, M Peñalver5, P Paszek, JP Steringer, W Nickel, D Brough, and P Pelegrín,

The paracaspase MALT1 dampens NF-κB signalling by cleaving the LUBAC subunit HOIL-1

FEBS J. 2016 Feb;283(3):400-2

Hailfinger S, Schmitt A, Schulze-Osthoff K.

Decrease of Store-Operated Ca²⁺ Entry and Increase of Na⁺/Ca²⁺ Exchange by Pharmacological JAK2 Inhibition

Cell Physiol Biochem. 2016;38(2):683-95

Yan J, Hosseinzadeh Z, Zhang B, Froeschl M, Schulze-Osthoff K, Stournaras C, Lang F.

Interrogating Substrate Selectivity and Composition of Endogenous Histone Deacetylase Complexes with Chemical Probes

Angew Chem Int Ed Engl. 2016;55(3):1192-5

Dose A, Sindlinger J, Bierlmeier J, Bakirbas A, Schulze-Osthoff K, Einsele-Scholz S, Hartl M, Essmann F, Finkemeier I, Schwarzer D

No association of IL-12p40 pro1.1 polymorphism with juvenile idiopathic arthritis

Pediatr Rheumatol Online J. 2015 Dec 15;13(1):61

Eberhardt CS, Haas JP, Girschick H, Schwarz T, Morbach H, Rösen-Wolff A, Foell D, Dannecker G, Schepp C, Ganser G, Honke N, Eggermann T, Müller-Berghaus J, Wagner N, Ohl K, Tenbrock K.

Prophylactic treatment with S100A9 inhibitor paquinimod reduces pathology in experimental collagenase-induced osteoarthritis

Ann Rheum Dis. 2015 Dec;74(12):2254-8. doi: 10.1136/annrheumdis-2014-206517.

Schelbergen, R. F., E. Geven, M. van den Bosch, H. Eriksson, T. Leanderson, T. Vogl, J. Roth, F. van de Loo, M. Koenders, P. M. van der Kraan, W. B. van den Berg, A. Blom, P. van Lent

Increased serum concentrations of neutrophil-derived protein S100A12 in heterozygous carriers of MEFV mutations

Clin Exp Rheumatol. 2015 Nov-Dec;33(6 Suppl 94):S113-6

Lieber M, Kallinich T, Lohse P, Klotsche J, Holzinger D, Foell D, Wittkowski H.

Single amino acid charge switch defines clinically distinct proline-serine-threonine phosphatase-interacting protein 1 (PSTPIP1)-associated inflammatory diseases

J Allergy Clin Immunol. 2015 Nov; 136(5): 1337-1345

Holzinger D, Fassl SK, de Jager W, Lohse P, Röhrig UF, Gattorno M, Omenetti A, Chiesa S, Schena F, Austermann J, Vogl T, Kuhns DB, Holland SM, Rodríguez-Gallego C, López-Almaraz R, Arostegui JL, Colino E, Roldan R, Fessatou S, Isidor B, Poignant S, Ito K, Epple HJ, Bernstein JA, Jeng M, Frankovich J, Lionetti G, Church JA, Ong PY, LaPlant M, Abinun M, Skinner R, Bigley V, Sachs UJ, Hinze C, Hoppenreijns E, Ehrchen J, Foell D, Chae JJ, Ombrello A, Aksentijevich I, Sunderkoetter C, Roth J.

Single amino acid charge switch defines clinically distinct proline-serine-threonine phosphatase-interacting protein 1 (PSTPIP1)-associated inflammatory diseases

November 2015 Volume 136, Issue 5, Pages 1337–1345

Dirk Holzinger, MD, Selina Kathleen Fassl, MSc, Wilco de Jager, PhD, Peter Lohse, MD, Ute F. Röhrig, PhD, Marco Gattorno, MD, Alessia Omenetti, MD, Sabrina Chiesa, MD, Francesca Schena, PhD, Judith Austermann, PhD, Thomas Vogl, PhD, Douglas B. Kuhns, PhD, Steven M. Holland, MD, Carlos Rodríguez-Gallego, PhD, Ricardo López-Almaraz, MD, Juan I. Arostegui, MD, PhD, Elena Colino, MD, Rosa Roldan, MD, PhD, Smaragdi Fessatou, MD, Bertrand Isidor, MD, Sylvaine Poignant, MD, Koichi Ito, MD, Hans-Joerg Epple, MD, Jonathan A. Bernstein, MD, PhD, Michael Jeng, MD, Jennifer Frankovich, MD, Geraldina Lionetti, MD, Joseph A. Church, MD, Peck Y. Ong, MD, PhD, Mona LaPlant, MD, Mario Abinun, MD, Rod Skinner, MD, Venetia Bigley, MD, Ulrich J. Sachs, MD, PhD, Claas Hinze, MD, Esther Hoppenreijns, MD, Jan Ehrchen, MD, PhD, Dirk Foell, MD, Jae Jin Chae, PhD, Amanda Ombrello, MD, Ivona Aksentijevich, MD, PhD, Cord Sunderkoetter, MD, Johannes Roth, MD

From bench to bedside and back again: translational research in autoinflammation

Nat Rev Rheumatol. 2015 Oct;11(10):573-85

Holzinger D, Kessel C, Omenetti A, Gattorno M.

The Startling Properties of Fibroblast Growth Factor 2: How to Exit Mammalian Cells without a Signal Peptide at Hand

JBC Papers in Press, September 28, 2015

Giuseppe La Venuta, Marcel Zeitler, Julia P. Steringer, Hans-Michael Müller, and Walter Nickel

The role of interleukin-1 beta in the pathophysiology of Schnitzler's syndrome

Arthritis Res Ther. 2015 Jul 22;17:187

de Koning HD, Schalkwijk J, Stoffels M, Jongekrijg J, Jacobs JF, Verwiel E, Koenen HJ, Preijers F, Holzinger D, Joosten I, van der Meer JW, Simon A.

HIV-Tat Protein Forms Phosphoinositide-dependent Membrane Pores Implicated in Unconventional Protein Secretion

JBC Papers in Press, July 16, 2015

Marcel Zeitler, Julia P. Steringer, Hans-Michael Müller, Matthias P. Mayer, and Walter Nickel

Single amino acid charge switch defines clinically distinct proline-serine-threonine phosphatase-interacting protein 1 (PSTPIP1)-associated inflammatory diseases

J Allergy Clin Immunol. 2015 May 26.

Holzinger, Fassl, de Jager, Lohse, Röhrig, Gattorno, Omenetti, Chiesa, Schena, Austermann, Vogl, Kuhns, Holland, Rodríguez-Gallego, López-Almaraz, Arostegui, Colino, Roldan, Fessatou, Isidor, Poignant, Ito, Epple, Bernstein, Jeng, Frankovich, Lionetti, Church, Ong, LaPlant, Abinun, Skinner, Bigley, Sachs, Hinze, Hoppenreijns, Ehrchen, Foell, Chae, Ombrello, Aksentijevich, Sunderkoetter, Roth

DETAILS

TLR4 dependent activation of human phagocytes by the alarmin MRP8

J. Immunol. (2015, in press)

Fassl, S. K., J. Austermann, M. Riemenschneider, C. Spiekermann, A. Witten, D. Viemann, M. Stoll, J. Roth, and T. Vogl J.

Extracellular MRP8/14 is a regulator of β2 integrin-dependent neutrophil slow rolling and adhesion

Nat Commun. 2015 Apr 20; 6: 6915. Published online 2015 Apr 20. doi: 10.1038/ncomms7915

Monika Pruenster, Angela R. M., Kurz Kyoung-Jin Chung, Xiao Cao-Ehlker, Stephanie Bieber, Claudia F. Nussbaum, Susanne Bierschenk, Tanja K. Eggersmann, Ina Rohwedder, Kristina Heinig, Roland Immel, Markus Moser, Uwe Koedel, Sandra Gran, Rodger P. McEver, Dietmar Vestweber, Admar Verschoor, Tomas Leanderson, Triantafyllos Chavakis, Johannes Roth, Thomas Vogl, and Markus Sperandio

Formation of disulfide bridges drives oligomerization, membrane pore formation, and translocation of fibroblast growth factor 2 to cell surfaces

The Journal of Biological Chemistry. 2015 Apr;290:8925-37

Müller HM, Steringer JP, Wegehingel S, Bleicken S, Münster M, Dimou E, Unger S, Weidmann G, Andreas H, García-Sáez AJ, Wild K, Sinning I, Nickel W.

MRP8/14 serum levels as a strong predictor of response to biological treatments in patients with rheumatoid arthritis

Annals of the Rheumatic Diseases (in press 2015)

Choi, I. Y. K., D. M. Gerlag, M. J. Herenius, R. Thurlings, C. A. Wijbrandts, D. Foell, T. Vogl, J. Roth, P. P. Tak, and D. Holzinger

Monocyte-induced development of Th17 cells and the release of S100 proteins are involved in the pathogenesis of graft-versus-host disease

J Immunol. 2014 Oct 1;193(7):3355-65

Reinhardt K, Foell D, Vogl T, Mezger M, Wittkowski H, Fend F, Federmann B, Gille C, Feuchtinger T, Lang P, Handgretinger R, Andreas Bethge W, Holzer U.

P wave dispersion and QT dispersion in adult Turkish migrants with familial mediterranean fever living in Germany

Int J. Med Sci. 2014 Aug. 21

Giese A, Ornek A, Kurucay M, Kara K, Wittkowski H, Gohar F, Menge BA, Schmidt WE, Zeidler C.

Activated STING in a vascular and pulmonary syndrome

N Engl. J Med. 2014 Aug. 7; 371 (6):507-18

Lui Y, Jesus AA, Marrero B, Yang D, Ramsey SE, Montealegre Sanches GA, Tenbrock K, Wittkowski H, Jones OY, Kuehn HS, Lee CC, DiMatta MA, Cowen EW, Gonzalez B, Palmer I, DiGeovanna JJ, Biancotto A, Kim H, Tsai WL, Trier AM, Huang Y, Stone DL, Hill S, Kim HJ, St. Hilaire C, Gurprased S, Plass N, Chapelle D, Horkayne-Szakaly I, Foell D, Barysenka A, Candotti F, Holland SM, Hughes JD, Mehmet H, Issekutz AC, Raffeld M, McElwee J, Fontana JR, Minnite CP, Moir S, Kastner DL, Gadina M, Steven AC, Wingfield PT, Brooks SR, Rosenzweig SD, Fleisher TA, Deng Z, Boehm M, Paller AS, Goldbach-Mansky R.

Validation of relapse risk biomarkers for routine use in patients with juvenile idiopathic arthritis

Arthritis Care and Research. 2014 Jun;66(6):949–55

Rothmund, F., J. Gerss, N. Ruperto, H. J. Däbritz, Wittkowski, M. Frosch, N. Wulffraat, L. R. Wedderburn, D. Holzinger, F. Gohar, B. Vastert, R. Brik, C. J. Deslandre, J. A. Melo-Gomes, C. S. Magalhaes, R. Barcellona, R. Russo, M. Gattorno, A. Martini, J. Roth, and D. Foell for the Paediatric Rheumatology International Trials Organization (PRINTO).

MRP8 and MRP14 promote MSU-crystal induced inflammation in gout

Arthritis & Rheumatology. May 2014;66(5):1327–1339

Holzinger, D., N. Nippe, T. Vogl, K. Marketon, V. Mysore, T. Weinhage, N. Dalbeth, B. Pool, T. Merriman, D. Baeten, A. Ives, N. Bagnoud, N. Busso, D. Foell, C. Gabay, and J. Roth

Disruption of the annexin A1/S100A11 complex increases the migration and clonogenic growth by dysregulating epithelial growth factor (EGF) signaling

Biochimica et Biophysica Acta. 2013 Jul;1833(7):1700-1711

Poeter, M., S. Radke, M. Koese, F. Hessner, A. Hegemann, A. Musiol, V. Gerke, T. Grewal, U. Rescher

Overexpression of CREM α in T Cells Aggravates Lipopolysaccharide-Induced Acute Lung Injury

J Immunol. 2013 Jun 19. [Epub ahead of print] PMID: 23785120

Verjans E, Ohl K, Yu Y, Lippe R, Schippers A, Wiener A, Roth J, Wagner N, Uhlig S, Tenbrock K, Martin C.

I κ B ζ is a regulator for the senescence-associated secretory phenotype in DNA damage- and oncogene-induced senescence

J Cell Sci. 2013 Jun 18.

PMID: 23781024

Alexander E, Hildebrand DG, Kriebs A, Obermayer K, Manz M, Rothfuss O, Essmann F, Schulze-Osthoff K.

Proinflammatory S100A12 Can Activate Human Monocytes via Toll-like Receptor 4

Am J Respir Crit Care Med. 2013 Jun 15;187(12):1324-34. doi: 10.1164/rccm.201209-1602OC.

PMID: 23611140

Foell D, Wittkowski H, Kessel C, Lüken A, Weinhage T, Varga G, Vogl T, Wirth T, Viemann D, Björk P, van Zoelen MA, Gohar F, Srikrishna G, Kraft M, Roth J.

Trp53 Deficiency Protects against Acute Intestinal Inflammation

J Immunol. Epub: 2013 Jun 14.

PMID: 23772033

Spehlmann ME, Manthey CF, Dann SM, Hanson E, Sandhu SS, Liu LY, Abdelmalak FK, Diamanti MA, Retzlaff K, Scheller J, Rose-John S, Greten FR, Wang JY, Eckmann L.

ROS Production and NF- κ B Activation Triggered by RAC1 Facilitate WNT-Driven Intestinal Stem Cell Proliferation and Colorectal Cancer Initiation

Cell Stem Cell. 2013 Jun 6;12(6):761-73. doi: 10.1016/j.stem.2013.04.006. Epub 2013 May 9.

PMID: 23665120

Myant KB, Cammareri P, McGhee EJ, Ridgway RA, Huels DJ, Cordero JB, Schwitalla S, Kalna G, Ogg EL, Athineos D, Timpson P, Vidal M, Murray GI, Greten FR, Anderson KI, Sansom OJ.

Inducible expression of transgenic human TNF α in adult mice develops psoriatic-like arthritis

Arthritis Rheum. 2013 Jun 5. doi: 10.1002/art.38026. [Epub ahead of print] PMID: 23740547

Retser E, Schied T, Skryabin BV, Vogl T, Kanczler JM, Hamann N, Niehoff A, Hermann S, Eisenblätter M, Wachsmuth L, Pap T, van Lent P, Loser K, Roth J, Zucke F, Ludwig S, Wixler V.

Periodic fever, aphthous stomatitis, pharyngitis, cervical adenitis syndrome is linked to dysregulated monocyte IL-1beta production

The Journal of Allergy and Clinical Immunology. 2013 Jun; 131(6):1635-43

Kolly L, Busso N, von Scheven-Gete A, Bagnoud N, Moix I, Holzinger D, Simon G, Ives A, Guarda G, So A, Morris MA, Hofer M.

I κ B ζ is a transcriptional key regulator of CCL2/MCP-1

J Immunol. 2013 May 1;190(9):4812-20. doi: 10.4049/jimmunol.1300089. Epub 2013 Apr 1.

PMID: 23547114

Hildebrand DG, Alexander E, Hörber S, Lehle S, Obermayer K, Münck NA, Rothfuss O, Frick JS, Morimatsu M, Schmitz I, Roth J, Ehrchen JM, Essmann F, Schulze-Osthoff K.

A subgroup of juvenile idiopathic arthritis patients who respond well to methotrexate are identified by the serum biomarker MRP8/14 protein

Rheumatology (Oxford). 2013 Apr 25. [Epub ahead of print] PMID: 23620557

Moncrieffe H, Ursu S, Holzinger D, Patrick F, Kassoumeri L, Wade A, Roth J, Wedderburn LR.

Phosphorylation of Atg5 by the Gadd45 β -MEKK4-p38 pathway inhibits autophagy

Cell Death Differ. 2013 Feb;20(2):321-32. doi: 10.1038/cdd.2012.129. Epub 2012 Oct 12.

PMID: 23059785

Keil E, Höcker R, Schuster M, Essmann F, Ueffing N, Hoffman B, Liebermann DA, Pfeffer K, Schulze-Osthoff K, Schmitz I.

The alarmin Mrp8/14 as regulator of the adaptive immune response during allergic contact dermatitis.

EMBO J. 2013 Jan 9;32(1):100-11. doi: 10.1038/emboj.2012.309. Epub 2012 Nov 27.

PMID: 23188082

Petersen B, Wolf M, Austermann J, van Lent P, Foell D, Ahlmann M, Kupas V, Loser K, Sorg C, Roth J, Vogl T.

Quality of life in adult patients with Familial Mediterranean fever living in Germany or Turkey compared to healthy subjects: a study evaluating the effect of disease severity and country of residence

Rheumatol Int. 2012 Dec 29.

PMID: 23274441

Giese A, Kurucay M, Kilic L, Ornek A, Sendur SN, Lainka E, Henning BF.

Serum-derived plasminogen is activated by apoptotic cells and promotes their phagocytic clearance

J Immunol. 2012 Dec 15;189(12):5722-8. doi: 10.4049/jimmunol.1200922. Epub 2012 Nov 12.

PMID: 23150713

Rosenwald M, Koppe U, Keppeler H, Sauer G, Hennel R, Ernst A, Blume KE, Peter C, Herrmann M, Belka C, Schulze-Osthoff K, Wesselborg S, Lauber K.

Phagocyte-specific S100 proteins and high-sensitivity C reactive protein as biomarkers for a risk-adapted treatment to maintain remission in juvenile idiopathic arthritis: a comparative study

Ann Rheum Dis. 2012 Dec;71(12):1991-1997. Epub 2012 Jun 11. PubMed PMID: 22689317.

Gerss J, Roth J, Holzinger D, Ruperto N, Wittkowski H, Frosch M, Wulffraat N, Wedderburn L, Stanevicha V, Mihaylova D, Harjacek M, Len C, Toppino C, Masi M, Minden K, Saurenmann T, Uziel Y, Vesely R, Apaz MT, Kuester RM, Elorduy MJ, Burgos-Vargas R, Ioseliani M, Magni-Manzoni S, Unsal E, Anton J, Balogh Z, Hagelberg S, Mazur-Zielinska H, Tauber T, Martini A, Foell D; for the Paediatric Rheumatology International Trials Organization (PRINTO).

Release of lysophospholipid 'find-me' signals during apoptosis requires the ATP-binding cassette transporter A1

Autoimmunity. 2012 Dec;45(8):568-73. doi: 10.3109/08916934.2012.719947. Epub 2012 Sep 17.

PMID: 22913458

Peter C, Waibel M, Keppeler H, Lehmann R, Xu G, Halama A, Adamski J, Schulze-Osthoff K, Wesselborg S, Lauber K.

I κ B(NS) protein mediates regulatory T cell development via induction of the Foxp3 transcription factor.

Immunity. 2012 Dec 14;37(6):998-1008. doi: 10.1016/j.jimmuni.2012.08.023. Epub 2012 Nov 29.

PMID: 23200824

Schuster M, Glauben R, Plaza-Sirvent C, Schreiber L, Annemann M, Floess S, Kühl AA, Clayton LK, Sparwasser T, Schulze-Osthoff K, Pfeffer K, Huehn J, Siegmund B, Schmitz I.

Diversity in unconventional protein secretion

Journal of Cell Science. 2012 Nov;125:5251-55

Rabouille C., V. Malhotra, W. Nickel.

Staphylococcus aureus Panton-Valentine leukocidin induces an inflammatory

J Leukoc Biol. 2012

Nov;92(5):1069-81. doi: 10.1189/jlb.0112014. Epub 2012 Aug 14. PubMed PMID:22892107; PubMed Central PMCID: PMC3476237.

Holzinger D, Gieldon L, Mysore V, Nippe N, Taxman DJ, Duncan JA, Broglie PM, Marketon K, Austermann J, Vogl T, Foell D, Niemann S, Peters G, Roth J, Löffler B.

Incidence and clinical features of hyperimmunoglobulinemia D and periodic fever syndrome (HIDS) and spectrum of mevalonate kinase (MVK) mutations in German children

Rheumatol Int. 2012 Oct;32(10):3253-60.

Epub 2011 Oct 30.

PubMed PMID: 22038276.

Lainka E, Neudorf U, Lohse P, Timmann C, Bielak M, Stojanov S, Huss K, von Kries R, Niehues T.

Familial Mediterranean fever in Germany: epidemiological, clinical, and genetic characteristics of a pediatric population

Eur J Pediatr. 2012 Aug 19. [Epub ahead of print] PubMed PMID: 22903357

Lainka E, Bielak M, Lohse P, Timmann C, Stojanov S, von Kries R, Niehues T, Neudorf U.

Phosphatidylinositol 4,5-bisphosphate (PI(4,5)P₂)-dependent oligomerization of fibroblast growth factor 2 (FGF2) triggers the formation of a lipidic membrane pore implicated in unconventional secretion

J Biol Chem. 2012 Aug 10;287(33):27659-69. doi: 10.1074/jbc.M112.381939.

Epub 2012 Jun 23.

PubMed PMID: 22730382;

PubMed Central PMCID: PMC3431657.

Steringer JP, Bleicken S, Andreas H, Zacherl S, Laussmann M, Temmerman K, Contreras FX, Bharat TA, Lechner J, Müller HM, Briggs JA, García-Sáez AJ, Nickel W.

Annexin A1 and A2: roles in retrograde trafficking of Shiga toxin

PLoS One. 2012;7(7):e40429. Epub 2012 Jul 6. PubMed PMID: 22792315; PubMed Central PMCID: PMC3391278.

Tcatchoff L, Andersson S, Utskarpen A, Klokk TI, Skånland SS, Pust S, Gerke V, Sandvig K.

Efficacy and safety of the interleukin-1 antagonist rilonacept in Schnitzler syndrome: an open-label study

Allergy. 2012 Jul;67(7):943-50. doi: 10.1111/j.1398-9995.2012.02843.x. Epub 2012 May 15.

PubMed PMID: 22583335.

Krause K, Weller K, Stefaniak R, Wittkowski H, Altrichter S, Siebenhaar F, Zuberbier T, Maurer M.

The Toll-like receptor 4 agonist MRP8/14 protein complex is a sensitive indicator for disease activity and predicts relapses in systemic-onset juvenile idiopathic arthritis

Ann Rheum Dis. 2012

Jun;71(6):974-80. Epub 2012 Jan 20. PubMed PMID: 22267331.

Holzinger D, Frosch M, Kastrup A, Prince FH, Otten MH, Van Suijlekom-Smit LW, ten Cate R, Hoppenreijns EP, Hansmann S, Moncrieffe H, Ursu S, Wedderburn LR, Roth J, Foell D, Wittkowski H.

Translational research network and patient registry for auto-inflammatory diseases

Rheumatology (Oxford). 2011 Jan;50(1):237-42.

PubMed PMID: 21148158.

Lainka E, Bielak M, Hilger V, Basu O, Neudorf U, Wittkowski H, Holzinger D, Roth J, Niehues T, Foell D.

MRP8 and MRP14, phagocyte-specific danger signals, are sensitive biomarkers of disease activity in cryopyrin-associated periodic syndromes

Ann Rheum Dis. 2011

Dec;70(12):2075-81. Epub 2011 Sep 8. PubMed PMID: 21908452.

Wittkowski H, Kuemmerle-Deschner JB, Austermann J, Holzinger D, Goldbach-Mansky R, Gramlich K, Lohse P, Jung T, Roth J, Benseler SM, Foell D.

Phenotypic profiling of the human genome reveals gene products involved in plasma membrane targeting of SRC kinases

Genome Res. 2011 Nov;21(11):1955-68.

Epub 2011 Jul 27.

PubMed PMID: 21795383;

PubMed Central PMCID: PMC3205579.

Ritzerfeld J, Remmeli S, Wang T, Temmerman K, Brügger B, Wegehingel S, Tournaviti S, Strating JR, Wieland FT, Neumann B, Ellenberg J, Lawerenz C, Hesser J, Erfle H, Pepperkok R, Nickel W.

Fumarates improve psoriasis and multiple sclerosis by inducing type II dendritic cells

J Exp Med. 2011 Oct 24;208(11):2291-303.

Epub 2011 Oct 10. PubMed PMID: 21987655;

PubMed Central PMCID: PMC3201195.

Ghoreschi K, Brück J, Kellerer C, Deng C, Peng H, Rothfuss O, Hussain RZ, Gocke AR, Respa A, Glocova I, Valtcheva N, Alexander E, Feil S, Feil R, Schulze-Osthoff K, Rupec RA, Lovett-Racke AE, Dringen R, Racke MK, Röcken M.

Phosphorylation of Atg5 by the Gadd45β-MEKK4-p38 pathway inhibits autophagy

Cell Death Differ. 2012 Oct 12

doi: 10.1038/cdd.2012.129. [Epub ahead of print] PubMed PMID: 23059785

Keil E, Höcker R, Schuster M, Essmann F, Ueffing N, Hoffman B, Liebermann DA, Pfeffer K, Schulze-Osthoff K, Schmitz I.

Necrotizing sarcoid granulomatosis: ocular manifestation in 3 children of African origin

Arch Ophtalmol. 2011 Oct;129 (10):1370-2.

PubMed PMID: 21987683

Schumacher C, Lohr A, Kaup M, Walter P, Roth J, Perez-Bouza A, Wagner N, heiligenhaus A.

Inhibiting signal transducer and activator of transcription 3: rationality and rationale design of inhibitors

Expert Opin Investig Drugs. 2011 Sep;20(9):1263-75.

Epub 2011 Jul 14. Review.

PubMed PMID: 21751940

Mankani AK, Greten FR.

TNF-alpha-dependent loss of IKKbeta-deficient myeloid progenitors triggers a cytokine loop culminating in granulocytosis

Proc Natl Acad Sci U S A. 2011 Apr 19;108(16):6567-72.

Epub 2011 Apr 4.

PubMed PMID: 21464320;

PubMed Central PMCID: PMC3080999.

Mankani AK, Canli O, Schwitalla S, Ziegler P, Tschopp J, Korn T, Greten FR.

The unconventional secretory machinery of fibroblast growth factor 2. Traffic

Nickel W.

2011 Jul; 12(7):799-805. doi:10.1111/j.1600-0854.2011.01187.x.

Epub 2011 Mar 24.

PubMed PMID: 21585635

Annexin A1 is a new functional linker between actin filaments and phagosomes during phagocytosis

J Cell Sci. 2011 Feb 15;124(Pt 4):578-88.

Epub 2011 Jan 18.

PubMed PMID: 21245195.

Patel DM, Ahmad SF, Weiss DG, Gerke V, Kuznetsov SA.

Annexin A1 released from apoptotic cells acts through formyl peptide receptors to dampen inflammatory monocyte activation via JAK/STAT/SOCS signalling

EMBO Mol Med. 2011 Feb;3(2):102-14. doi: 10.1002/emmm.201000113.

Epub 2011 Jan 20. PubMed PMID: 21254404;

PubMed Central PMCID: PMC3377061.

Pupjalis D, Goetsch J, Kottas DJ, Gerke V, Rescher U.