

LARS KLARESKOG PUBLICATIONS 2014

Peer-reviewed articles

1: Lundström SL, Fernandes-Cerqueira C, Ytterberg AJ, Ossipova E, Hensvold AH, Jakobsson PJ, Malmström V, Catrina AI, Klareskog L, Lundberg K, Zubarev RA. IgG antibodies to cyclic citrullinated peptides exhibit profiles specific in terms of IgG subclasses, fc-glycans and a fab-Peptide sequence. *PLoS One*. 2014 Nov 26;9(11):e113924. doi: 10.1371/journal.pone.0113924. eCollection 2014. PubMed PMID: 25426976.

2: Jiang X, Frisell T, Askling J, Karlson EW, Klareskog L, Alfredsson L, Källberg H. To which extent may the familial risk of rheumatoid arthritis be explained by established RA risk factors? *Arthritis Rheumatol*. 2014 Nov 24. doi:10.1002/art.38927. [Epub ahead of print] PubMed PMID: 25418518.

3: Sandberg ME, Bengtsson C, Källberg H, Wesley A, Klareskog L, Alfredsson L, Saevarsdottir S. Response to: 'Obesity and comorbidity are independently associated with a failure to achieve remission in patients with established rheumatoid arthritis' by Ellerby et al. *Ann Rheum Dis*. 2014 Dec;73(12):e79. doi: 10.1136/annrheumdis-2014-206369. Epub 2014 Sep 26. PubMed PMID: 25261581.

4: Abugessaisa I, Saevarsdottir S, Tsipras G, Lindblad S, Sandin C, Nikamo P, Ståhle M, Malmström V, Klareskog L, Tegner J. Accelerating translational research by clinically driven development of an informatics platform--a case study. *PLoS One*. 2014 Sep 9;9(9):e104382. doi: 10.1371/journal.pone.0104382. eCollection 2014. PubMed PMID: 25203647; PubMed Central PMCID: PMC4159182.

5: Snir O, Gomez-Cabrero D, Montes A, Perez-Pampin E, Gomez-Reino JJ, Seddighzadeh M, Klich KU, Israelsson L, Ding B, Catrina AI, Holmdahl R, Alfredsson L, Klareskog L, Tegner J, Gonzalez A, Malmström V, Padyukov L. Non-HLA genes PTPN22, CDK6 and PADI4 are associated with specific autoantibodies in HLA-defined subgroups of rheumatoid arthritis. *Arthritis Res Ther*. 2014 Aug 20;16(5):414. [Epub ahead of print] PubMed PMID: 25138370.

6: Ossipova E, Cerqueira CF, Reed E, Kharlamova N, Israelsson L, Holmdahl R, Nandakumar KS, Engström M, Harre U, Schett G, Catrina AI, Malmström V, Sommarin Y, Klareskog L, Jakobsson PJ, Lundberg K. Affinity purified anti-citrullinated protein/peptide antibodies target antigens expressed in the rheumatoid joint. *Arthritis Res Ther*. 2014 Aug 12;16(4):R167. [Epub ahead of print] PubMed PMID: 25112157.

7: Catrina AI, Ytterberg AJ, Reynisdottir G, Malmström V, Klareskog L. Lungs, joints and immunity against citrullinated proteins in rheumatoid arthritis. *Nat Rev Rheumatol*. 2014 Nov;10(11):645-653. doi: 10.1038/nrrheum.2014.115. Epub 2014 Jul 29. Review. PubMed PMID: 25072264.

8: Sandberg ME, Bengtsson C, Källberg H, Wesley A, Klareskog L, Alfredsson L, Saevarsdottir S. Overweight decreases the chance of achieving good response and low disease activity in early rheumatoid arthritis. *Ann Rheum Dis*. 2014 Nov;73(11):2029-33. doi: 10.1136/annrheumdis-2013-205094. Epub 2014 May 12. PubMed PMID: 24818635.

- 9: Ytterberg AJ, Joshua V, Reynisdottir G, Tarasova NK, Rutishauser D, Ossipova E, Haj Hensvold A, Eklund A, Sköld CM, Grunewald J, Malmström V, Jakobsson PJ, Rönnelid J, Padyukov L, Zubarev RA, Klareskog L, Catrina AI. Shared immunological targets in the lungs and joints of patients with rheumatoid arthritis: identification and validation. *Ann Rheum Dis*. 2014 May 9. doi: 10.1136/annrheumdis-2013-204912. [Epub ahead of print] PubMed PMID: 24817415.
- 10: Jiang X, Trouw LA, van Wesemael TJ, Shi J, Bengtsson C, Källberg H, Malmström V, Israelsson L, Hreggvidsdottir H, Verduijn W, Klareskog L, Alfredsson L, Huizinga TW, Toes RE, Lundberg K, van der Woude D. Anti-CarP antibodies in two large cohorts of patients with rheumatoid arthritis and their relationship to genetic risk factors, cigarette smoking and other autoantibodies. *Ann Rheum Dis*. 2014 Oct;73(10):1761-8. doi: 10.1136/annrheumdis-2013-205109. Epub 2014 May 8. PubMed PMID: 24812286.
- 11: Jiang X, Alfredsson L, Klareskog L, Bengtsson C. Smokeless tobacco (moist snuff) use and the risk of developing rheumatoid arthritis: results from a case-control study. *Arthritis Care Res (Hoboken)*. 2014 Oct;66(10):1582-6. PubMed PMID: 24719251.
- 12: Sparks JA, Chen CY, Jiang X, Askling J, Hiraki LT, Malspeis S, Klareskog L, Alfredsson L, Costenbader KH, Karlson EW. Improved performance of epidemiologic and genetic risk models for rheumatoid arthritis serologic phenotypes using family history. *Ann Rheum Dis*. 2014 Apr 30. doi: 10.1136/annrheumdis-2013-205009. [Epub ahead of print] PubMed PMID: 24685909.
- 13: Viktorin A, Frankowiack M, Padyukov L, Chang Z, Melen E, Sääf A, Kull I, Klareskog L, Hammarström L, Magnusson PK. IgA measurements in over 12 000 Swedish twins reveal sex differential heritability and regulatory locus near CD30L. *Hum Mol Genet*. 2014 Aug 1;23(15):4177-84. doi: 10.1093/hmg/ddu135. Epub 2014 Mar 27. PubMed PMID: 24676358; PubMed Central PMCID: PMC4082371.
- 14: Brink M, Hansson M, Rönnelid J, Klareskog L, Rantapää Dahlqvist S. The autoantibody repertoire in periodontitis: a role in the induction of autoimmunity to citrullinated proteins in rheumatoid arthritis? Antibodies against uncitrullinated peptides seem to occur prior to the antibodies to the corresponding citrullinated peptides. *Ann Rheum Dis*. 2014 Jul;73(7):e46. doi:10.1136/annrheumdis-2014-205498. Epub 2014 Mar 25. PubMed PMID: 24667899.
- 15: James EA, Rieck M, Pieper J, Gebe JA, Yue BB, Tatum M, Peda M, Sandin C, Klareskog L, Malmström V, Buckner JH. Citrulline-specific Th1 cells are increased in rheumatoid arthritis and their frequency is influenced by disease duration and therapy. *Arthritis Rheumatol*. 2014 Jul;66(7):1712-22. doi: 10.1002/art.38637. PubMed PMID: 24665079.
- 16: Han B, Diogo D, Eyre S, Kallberg H, Zhernakova A, Bowes J, Padyukov L, Okada Y, Gonzalez-Gay MA, Rantapää-Dahlqvist S, Martin J, Huizinga TW, Plenge RM, Worthington J, Gregersen PK, Klareskog L, de Bakker PI, Raychaudhuri S. Fine mapping seronegative and seropositive rheumatoid arthritis to shared and distinct HLA alleles by adjusting for the effects of heterogeneity. *Am J Hum Genet*. 2014 Apr 3;94(4):522-32. doi: 10.1016/j.ajhg.2014.02.013. Epub 2014 Mar 20. PubMed PMID: 24656864; PubMed Central PMCID: PMC3980428.

- 17: Liu Y, Li X, Aryee MJ, Ekström TJ, Padyukov L, Klareskog L, Vandiver A, Moore AZ, Tanaka T, Ferrucci L, Fallin MD, Feinberg AP. GeMes, clusters of DNA methylation under genetic control, can inform genetic and epigenetic analysis of disease. *Am J Hum Genet*. 2014 Apr 3;94(4):485-95. doi: 10.1016/j.ajhg.2014.02.011. Epub 2014 Mar 20. PubMed PMID: 24656863; PubMed Central PMCID: PMC3980524.
- 18: Sandberg ME, Wedren S, Klareskog L, Lundberg IE, Opava CH, Alfredsson L, Saevarsdottir S. Patients with regular physical activity before onset of rheumatoid arthritis present with milder disease. *Ann Rheum Dis*. 2014 Aug;73(8):1541-4. doi: 10.1136/annrheumdis-2014-205180. Epub 2014 Mar 18. PubMed PMID: 24641943.
- 19: Yahya A, Bengtsson C, Larsson P, Too CL, Mustafa AN, Abdullah NA, Muhamad NA, Klareskog L, Murad S, Alfredsson L. Silica exposure is associated with an increased risk of developing ACPA-positive rheumatoid arthritis in an Asian population: evidence from the Malaysian MyEIRA case-control study. *Mod Rheumatol*. 2014 Mar;24(2):271-4. doi: 10.3109/14397595.2013.854076. PubMed PMID: 24593203.
- 20: de Hair MJ, van de Sande MG, Ramwadhoebe TH, van der Leij C, Maas M, Hansson M, Klareskog L, Landewe R, Serre G, van Schaardenburg D, Gerlag DM, van Baarsen LG, Tak PP. Reply: To PMID 24574210. *Arthritis Rheumatol*. 2014 Jun;66(6):1683-4. doi: 10.1002/art.38411. PubMed PMID: 24577836.
- 21: de Hair MJ, van de Sande MG, Ramwadhoebe TH, Hansson M, Landewe R, van der Leij C, Maas M, Serre G, van Schaardenburg D, Klareskog L, Gerlag DM, van Baarsen LG, Tak PP. Features of the synovium of individuals at risk of developing rheumatoid arthritis: implications for understanding preclinical rheumatoid arthritis. *Arthritis Rheumatol*. 2014 Mar;66(3):513-22. doi: 10.1002/art.38273. PubMed PMID: 24574210; PubMed Central PMCID: PMC4034588.
- 22: Bossini-Castillo L, de Kovel C, Kallberg H, van 't Slot R, Italiaander A, Coenen M, Tak PP, Posthumus MD, Wijmenga C, Huizinga T, van der Helm-van Mil AH, Stoeken-Rijsbergen G, Rodriguez-Rodriguez L, Balsa A, Gonzalez-Álvarez I, Gonzalez-Gay MA, Gomez-Vaquero C, Franke B; LifeLines Cohort Study, Vermeulen S, van der Horst-Bruinsma I, Dijkmans BA, Wolbink GJ, Ophoff RA, Maehlen MT, van Riel P, Merriman M, Klareskog L, Lie BA, Merriman T, Crusius JB, Brouwer E, Martin J, de Vries N, Toes R, Padyukov L, Koeleman BP. A genome-wide association study of rheumatoid arthritis without antibodies against citrullinated peptides. *Ann Rheum Dis*. 2014 Feb 14. pii: annrheumdis-2013-204591. doi: 10.1136/annrheumdis-2013-204591. [Epub ahead of print] PubMed PMID: 24532677.
- 23: Kim K, Bang SY, Lee HS, Cho SK, Choi CB, Sung YK, Kim TH, Jun JB, Yoo DH, Kang YM, Kim SK, Suh CH, Shim SC, Lee SS, Lee J, Chung WT, Choe JY, Shin HD, Lee JY, Han BG, Nath SK, Eyre S, Bowes J, Pappas DA, Kremer JM, Gonzalez-Gay MA, Rodriguez-Rodriguez L, Arlestig L, Okada Y, Diogo D, Liao KP, Karlson EW, Raychaudhuri S, Rantapää-Dahlqvist S, Martin J, Klareskog L, Padyukov L, Gregersen PK, Worthington J, Greenberg JD, Plenge RM, Bae SC. High-density genotyping of immune loci in Koreans and Europeans identifies eight new rheumatoid arthritis risk loci. *Ann Rheum Dis*. 2014 Feb 14. doi: 10.1136/annrheumdis-2013-204749. [Epub ahead of print] PubMed PMID: 24532676.

24: Okada Y, Diogo D, Greenberg JD, Mouassess F, Achkar WA, Fulton RS, Denny JC, Gupta N, Mirel D, Gabriel S, Li G, Kremer JM, Pappas DA, Carroll RJ, Eyler AE, Trynka G, Stahl EA, Cui J, Saxena R, Coenen MJ, Guchelaar HJ, Huizinga TW, Dieude P, Mariette X, Barton A, Canho H, Fonseca JE, de Vries N, Tak PP, Moreland LW, Bridges SL Jr, Miceli-Richard C, Choi HK, Kamatani Y, Galan P, Lathrop M, Raj T, De Jager PL, Raychaudhuri S, Worthington J, Padyukov L, Klareskog L, Siminovitch KA, Gregersen PK, Mardis ER, Arayssi T, Kazkaz LA, Plenge RM. Integration of sequence data from a Consanguineous family with genetic data from an outbred population identifies PLB1 as a candidate rheumatoid arthritis risk gene. *PLoS One*. 2014 Feb 10;9(2):e87645. doi: 10.1371/journal.pone.0087645. eCollection 2014. PubMed PMID: 24520335; PubMed Central PMCID: PMC3919745.

25: Boraska V, Franklin CS, Floyd JA, Thornton LM, Huckins LM, Southam L, Rayner NW, Tachmazidou I, Klump KL, Treasure J, Lewis CM, Schmidt U, Tozzi F, Kiezebrink K, Hebebrand J, Gorwood P, Adan RA, Kas MJ, Favaro A, Santonastaso P, Fernandez-Aranda F, Gratacos M, Rybakowski F, Dmitrzak-Weglarz M, Kaprio J, Keski-Rahkonen A, Raevuori A, Van Furth EF, Slof-Op 't Landt MC, Hudson JI, Reichborn-Kjennerud T, Knudsen GP, Monteleone P, Kaplan AS, Karwautz A, Hakonarson H, Berrettini WH, Guo Y, Li D, Schork NJ, Komaki G, Ando T, Inoko H, Esko T, Fischer K, Männik K, Metspalu A, Baker JH, Cone RD, Dackor J, DeSocio JE, Hilliard CE, O'Toole JK, Pantel J, Szatkiewicz JP, Taico C, Zerwas S, Trace SE, Davis OS, Helder S, B^vhren K, Burghardt R, de Zwaan M, Egberts K, Ehrlich S, Herpertz-Dahlmann B, Herzog W, Imgart H, Scherag A, Scherag S, Zipfel S, Boni C, Ramoz N, Versini A, Brandys MK, Danner UN, de Kovel C, Hendriks J, Koeleman BP, Ophoff RA, Strengman E, van Elburg AA, Bruson A, Clementi M, Degortes D, Forzan M, Tenconi E, Docampo E, Escarams G, Jimenez-Murcia S, Lissowska J, Rajewski A, Szeszenia-Dabrowska N, Slopian A, Hauser J, Karhunen L, Meulenbelt I, Slagboom PE, Tortorella A, Maj M, Dedoussis G, Dikeos D, Gonidakis F, Tziouvas K, Tsitsika A, Papezova H, Slachtova L, Martaskova D, Kennedy JL, Levitan RD, Yilmaz Z, Huemer J, Koubek D, Merl E, Wagner G, Lichtenstein P, Breen G, Cohen-Woods S, Farmer A, McGuffin P, Cichon S, Giegling I, Herms S, Rujescu D, Schreiber S, Wichmann HE, Dina C, Sladek R, Gambaro G, Soranzo N, Julia A, Marsal S, Rabionet R, Gaborieau V, Dick DM, Palotie A, Ripatti S, Wid^v©n E, Andreassen OA, Espeseth T, Lundervold A, Reinvang I, Steen VM, Le Hellard S, Mattingsdal M, Ntalla I, Bencko V, Foretova L, Janout V, Navratilova M, Gallinger S, Pinto D, Scherer SW, Aschauer H, Carlberg L, Schosser A, Alfredsson L, Ding B, Klareskog L, Padyukov L, Courtet P, Guillaume S, Jausent I, Finan C, Kalsi G, Roberts M, Logan DW, Peltonen L, Ritchie GR, Barrett JC; Wellcome Trust Case Control Consortium 3, Estivill X, Hinney A, Sullivan PF, Collier DA, Zeggini E, Bulik CM. A genome-wide association study of anorexia nervosa. *Mol Psychiatry*. 2014 Oct;19(10):1085-94. doi: 10.1038/mp.2013.187. Epub 2014 Feb 11. PubMed PMID: 24514567.

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32: Cerqueira CF, Klareskog L, Jakobsson PJ. Neutralization of anticitrullinated protein antibodies in rheumatoid arthritis - a way to go? *Basic Clin Pharmacol Toxicol*. 2014 Jan;114(1):13-7. doi: 10.1111/bcpt.12157. Epub 2013 Nov 11. Review. PubMed PMID: 24206219.