

## BASIC RESEARCH and PATHOPHYSIOLOGY

Coeliac disease: immunogenicity studies of barley hordein and rye secalin-derived peptides.

Wahab W.A., Suligoj T., Ellis J., Cortez-Real B., Ciclitira P.J.

International Journal of Experimental Pathology. 2016 Aug;97(4):303-309

<https://www.ncbi.nlm.nih.gov/pubmed/27659035>

Coeliac disease: A unique model for investigating broken tolerance in autoimmunity.

Hardy M.Y., Tye-Din J.A.

Clinical and Translational Immunology. 2016 Nov; 5: e112

<http://www.nature.com/cti/journal/v5/n11/full/cti201658a.html>

Transglutaminase 2 strongly binds to an extracellular matrix component other than fibronectin via its second C-terminal beta-barrel domain.

Stamnaes J., Cardoso I., Iversen R., Sollid L.M.

FEBS Journal. 2016 Nov;283(21):3994-4010

<https://www.ncbi.nlm.nih.gov/pubmed/27685605>

Increased expression of TLR4 and TLR7 but not prolactin mRNA by peripheral blood monocytes in active celiac disease.

Brynychova I., Hoffmanova I., Dvorak M., Dankova P.

Advances in Clinical and Experimental Medicine. 2016 Sept-Oct; 25(5):887-893

<http://www.advances.umed.wroc.pl/en/article/2016/25/5/887/>

Patients with mild enteropathy have apoptotic injury of enterocytes similar to that in advanced enteropathy in celiac disease.

Das P., Gahlot G.P.S., Mehta R., Makharia A., Verma A.K., Sreenivas V., Panda S.K., Ahuja V., Gupta S.D., Makharia G.K.

Digestive and Liver Disease. 2016 Nov;48(11):1290-1295.

<https://www.ncbi.nlm.nih.gov/pubmed/27378705>

Immunochemical evaluation of proteolysis of cereal proteins causing celiac disease by microbial proteases

Mickowska, Barbara; Socha, Peter; Urminska, Dana

Food and Agricultural Immunology. 2016 Nov;27(6):743-757

<http://www.tandfonline.com/doi/full/10.1080/09540105.2016.1148665>

Molecular diversity of  $\alpha$ -gliadin expressed genes in genetically contrasted spelt (*Triticum aestivum* ssp. *spelta*) accessions and comparison with bread wheat (*T. aestivum* ssp. *aestivum*) and related diploid *Triticum* and *Aegilops* species.

Dubois B, Bertin P, Mingeot D.

Mol Breed. 2016;36(11):152.

<https://www.ncbi.nlm.nih.gov/pubmed/27942245>

Pro-inflammatory Cytokine IFN $\gamma$  and Microbiome-Derived Metabolites Dictate Epigenetic Switch between FOXP3 Isoforms in Celiac Disease: Regulation of FOXP3 isoforms in celiac disease.

Serena G, Yan S, Camhi S, Patel S, Lima RS, Sapone A, Leonard MM, Mukherjee R, Nath BJ, Lammers KM, Fasano A.

Clin Exp Immunol. 2016 Dec 9.

<https://www.ncbi.nlm.nih.gov/pubmed/27936497>

CCR5-Δ32 gene polymorphism is related to celiac disease and autoimmune thyroiditis coincidence in patients with type 1 diabetes.

Słomiński B, Ławrynowicz U, Myśliwska J, Ryba-Stanisławowska M, Skrzypkowska M, Myśliwiec M, Brandt A.

J Diabetes Complications. 2016 Nov 3

<https://www.ncbi.nlm.nih.gov/pubmed/27894748>

High Smad7 sustains inflammatory cytokine response in refractory coeliac disease.

Sedda S, De Simone V, Marafini I, Bevivino G, Izzo R, Paoluzi OA, Colantoni A, Ortenzi A, Giuffrida P, Corazza GR, Vanoli A, Di Sabatino A, Pallone F, Monteleone G.

Immunology. 2016 Nov 14

<https://www.ncbi.nlm.nih.gov/pubmed/27861825>

Epitope-dependent Functional Effects of Celiac Disease Autoantibodies on Transglutaminase 2.

Hnida K, Stammaes J, du Pré MF, Mysling S, Jørgensen TJ, Sollid LM, Iversen R.

J Biol Chem. 2016 Dec 2;291(49):25542-25552.

<http://www.jbc.org/content/early/2016/10/26/jbc.M116.738161.abstract>

Diverse T Cell Receptor Gene Usage in HLA-DQ8-Associated Celiac Disease Converges into a Consensus Binding Solution

Petersen J, Kooy-Winkelaar Y, Loh KL, Tran M, van Bergen J, Koning F, Rossjohn J, Reid HH Structure. 2016 Oct;24(10):1643-1657

<https://www.ncbi.nlm.nih.gov/pubmed/27568928>

Ligand-Driven T Cell Receptor Selection in Celiac Disease.

Singh NK, Baker BM.

Structure. 2016 Oct 4;24(10):1623-1624.

[http://www.cell.com/structure/pdf/S0969-2126\(16\)30271-4.pdf](http://www.cell.com/structure/pdf/S0969-2126(16)30271-4.pdf)

Involvement of cell surface TG2 in the aggregation of K562 cells triggered by gluten.

Feriotto G, Calza R, Bergamini CM, Griffin M, Wang Z, Beninati S, Ferretti V, Marzola E, Guerrini R, Pagnoni A, Cavazzini A, Casciano F, Mischiati C.

Amino Acids. 2016 Oct 3.

<https://www.ncbi.nlm.nih.gov/pubmed/27699491>

New insights into wheat toxicity: Breeding did not seem to contribute to a prevalence of potential celiac disease's immunostimulatory epitopes.

Ribeiro M, Rodriguez-Quijano M, Nunes FM, Carrillo JM, Branlard G, Igrejas G.

Food Chem. 2016 Dec 15;213:8-18

<https://www.ncbi.nlm.nih.gov/pubmed/27451149>

Abnormal thymic stromal lymphopoietin expression in the duodenal mucosa of patients with coeliac disease.

Biancheri P, Di Sabatino A, Rescigno M, Giuffrida P, Fornasa G, Tsilingiri K, Pender SL, Papadia C, Wood E, Pasini A, Ubezio C, Vanoli A, Forbes A, MacDonald TT, Corazza GR. Gut. 2016 Oct;65(10):1670-80.

<https://www.ncbi.nlm.nih.gov/pubmed/26342013>

Intestinal cell damage and systemic immune activation in individuals reporting sensitivity to wheat in the absence of coeliac disease.

Uhde M, Ajamian M, Caio G, De Giorgio R, Indart A, Green PH, Verna EC, Volta U, Alaedini A.

Gut. 2016 Dec;65(12):1930-1937.

<http://gut.bmj.com/content/65/12/1930.abstract>

Ancestry-based stratified analysis of ImmunoChip data identifies novel associations with celiac disease.

Garcia-Etxebarria K., Jauregi-Miguel A., Romero-Garmendia I., Plaza-Izurietta L., Legarda M., Irastorza I., Bilbao J.R.

European Journal of Human Genetics. 2016 Dec;24(12):1831-1834.

Novel genetic risk variants for pediatric celiac disease.

Balasopoulou A, Stanković B, Panagiotara A, Nikčević G, Peters BA, John A, Mendrinou E, Stratopoulos A, Legaki AI, Stathakopoulou V, Tsolia A, Govaris N, Govari S, Zagoriti Z, Poulas K, Kanariou M, Constantinidou N, Krini M, Spanou K, Radlovic N, Ali BR, Borg J, Drmanac R, Chrousos G, Pavlovic S, Roma E, Zukic B, Patrinos GP, Katsila T.

Hum Genomics. 2016 Oct 24;10(1):34.

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5105295/>