

Articles in internationally reviewed journals

Published /accepted articles or letters

- Arijs I, Quintens R, Van Lommel L, **Van Steen K**, De Hertogh G, Lemaire K, Schraenen A, Perrier C, Van Assche G, Vermeire S, Geboes K, Schuit F, Rutgeerts P (2010) The predictive value of epithelial gene expression profiles for response to infliximab in Crohn's disease. *Inflammatory Bowel Diseases*.
- Bachert C, Zhang N, Holtappels G, De Lobel L, van Cauwenberge P, Liu S, Lin P, Bousquet J, **Van Steen K** (2010) Presence of IL-5 and IgE-antibodies to *Staphylococcus aureus* enterotoxins in nasal polyps is associated with co-morbid asthma. *J Allergy Clin Immunol*
- Calle ML, Urrea V, **Van Steen K** (2010) mbmdr: an R package for exploring gene-gene interactions associated with binary or quantitative traits. *Bioinformatics* 26 (17): 2198-2199
- Cattaert T, Calle ML, Dudek SM, Mahachie John JM, Van Lishout F, Urrea V, Ritchie MD, **Van Steen K** (2010) A detailed view on Model-Based Multifactor Dimensionality Reduction for detecting gene-gene interactions in case-control data in the absence and presence of noise . (*invited paper of K Van Steen as expert entry to special issue on epistasis*). *Ann Hum Genet*
- Cattaert T, Urrea V, Naj AC, De Lobel L, De Wit V , Fu M, Mahachie John JM, Shen H, Calle ML, Ritchie MD, Edwards T, **Van Steen K**. (2010) FAM-MDR: a flexible family-based multifactor dimensionality reduction technique to detect epistasis using related individuals, *PLoS One* 5 (4).
- Cleyneen I, Mahachie John J. M, Henckaerts L, Van Moerkercke W, Rutgeerts P, **Van Steen K** and Vermeire S (2010) Molecular reclassification of Crohn's disease by cluster analysis of genetic variants. *PLoS One*
- Cohen R, Raby B, **Van Steen K**, Fuhlbrigge A, Celedon J, Rosner B, Strunk R, Zeiger R, and Weiss S (2010) In utero smoke exposure and impair response to inhaled corticosteroids in children with asthma. *Journal of allergy and clinical immunology*.
- De Lobel L, Geurts P, Baele G, Castro-Giner F, Kogevinas M, **Van Steen K** (2010) A screening methodology based on Random forests to improve the detection of gene-gene interactions. *European Journal of Human Genetics*.
- Joossens M, **Van Steen K**, Branche J, Sendid B, Rutgeerts P, Vasseur F, Poulain D, Broly F, Colombel J, Vermeire S and Chamailard M. (2010) Familial aggregation and antimicrobial response dose-dependently affect the risk for Crohn's disease. *Inflamm Bowel Dis* 16 (1): 58-67.
- Fidler H, **Van Steen K**, van Assche G, Rutgeerts P and Vermeire S (2010) Immortal time bias and infliximab-related mortality and malignancy incidence. (letter to the editor). *Gut* 59: 416.
- Fidler H, **Van Steen K**, van Assche G, Rutgeerts P and Vermeire S (2010) Reanalysis of death risk in long-term follow-up in infliximab patients versus controls (letter to the editor). *Gut* 59: 416.
- Henckaerts L, Cleyneen I, Brinar M, Mahachie John JM, **Van Steen K**, Rutgeerts P, Vermeire S (2010) Genetic variation in the autophagy gene ULK1 and risk for Crohn's disease. *Inflammatory Bowel Disease*
- Mahachie John JM, Baurecht H, Rodriguez E, Naumann A, Wagepfeil S, Memper M, Klopp N, Novak N, Bieber T, Wichmann H-E, Illig T, **Van Steen K**, Weidinger S (2010) Analysis of the high affinity IgE receptor genes reveals epistatic effects of FCER1A variants on eczema risk. *Allergy* 65 (7): 875-882.

- **Van Steen K** (2010) Perspectives on Large-Scale Multi-Stage Family-Based Association Studies (*invited by Stats in Med*; provisional accept).
- Vermeulen N, **Vermeire S**, **Van Steen K**, Arijs I, Michiels G, Ballet V, Schuit F, Van Lommel L, Rutgeerts P, Bossuyt X (2010) Identification of novel autoantibodies in inflammatory bowel disease by protein microarray – Gut.
- Arijs I, Hertogh G. D, Lemaire K, Quintens R, Lommel L. V, **Van Steen K**, Leemans P, Cleynen I, Assche G. V, Vermeire S, Geboes K, Schuit F, Rutgeerts P. (2009) Mucosal gene expression of antimicrobial peptides in inflammatory bowel disease before and after first infliximab treatment. *PLoS One* 4 (11) : 7984.
- Arijs I, Li K, Toedter G, Quintens R, Lommel L. V, **Van Steen K**, Leemans P, Hertogh G. D, Lemaire K, Ferrante M, Schnitzler F, Thorrez L, Ma K, Song X. R, Marano C, Assche G. V, Vermeire S, Geboes K, Schuit F, Baribaud F, Rutgeerts P. (2009) Mucosal gene signatures to predict response to infliximab in patients with ulcerative colitis. *Gut* 58 (12): 1612-1619.
- Bogaert V, Vanbillemont G, Taes Y, De Bacquer D, Deschepper E, **Van Steen K**, and Kaufman J. (2009) Small effect of the androgen receptor gene GGN repeat polymorphism on serum testosterone levels in healthy men. *Eur J Endocrinol* 161 (1): 171-177.
- Henckaerts L, **Van Steen K**, Verstreken I, Cleynen I, Franke A, Schreiber S, Rutgeerts P and Vermeire S. (2009) Genetic risk profiling and prediction of disease course in Crohns disease patients. *Clin Gastroenterol Hepatol* 7 (9): 972-980.e2.
- Henckaerts L, Nielsen K. R, Steffensen R, **Van Steen K**, Mathieu C, Giulietti A, Wouters P. J, Milants I, Vanhorebeek I, Langouche L, Vermeire S, Rutgeerts P, Thiel S, Wilmer A, Hansen T. K, den Berghe G. V. (2009) Polymorphisms in innate immunity genes predispose to bacteremia and death in the medical intensive care unit. *Crit Care Med* 37 (1): 192-201 e1-3.
- Raby B, **Van Steen K**, Lasky-Su J, Tantisira K, Kaplan F, Weiss ST (2009). Importin-13 DNA sequence variants are associated with improved airway hyperresponsiveness in childhood asthma. *Respiratory Research* 10: 67
- Ripatti S, Becker T, Bickeböller H, Dominicus A, Fischer C, Humphreys K, Jonasdottir G, Moreau Y, Nilsson S, Olsson M, Ploner A, Sheehan N, **Van Steen K**, Wessman J, Baur M, van Duijn C, Palmgren J (2009). GENESTAT: an information portal for design and analysis of genetic association studies.. *Eur J Hum Genet.* 17 (4): 533-536.
- Schnitzler F, Fidler H, Ferrante M, Noman M, Arijs I, Van Assche G, Hoffman I, **Van Steen K**, Vermeire S, Rutgeerts P. (2009) Mucosal healing predicts long-term outcome of maintenance therapy with infliximab in Crohn's disease. *Inflamm Bowel Dis* 15 (9): 1295-1301.
- Schnitzler F, Fidler H, Ferrante M, Noman M, Arijs I, Van Assche G, Hoffman I, **Van Steen K**, Vermeire S, Rutgeerts P. (2009) Long-term outcome of treatment with infliximab in 614 patients with Crohns disease: results from a single-centre cohort. *Gut* 58 (4): 492-500.
- Vanbillemont G, Bogaert V, De Bacquer D, Lapauw B, Goemare S, Toye K, **Van Steen K**, Taes Y, Kaufman JM (2009) Polymorphisms of the sex hormone-binding globulin gene contribute to the interindividual variation of sex steroid hormone blood levels in young, middle-aged and elderly men. *Clin Endocrinol.* 70 (2): 303-310.
- Bogaert V, Taes Y, Konings P, **Van Steen K**, Bacquer D. D, Goemaere S, Zmierzczak H, Crabbe P, Kaufman J. (2008) Heritability of blood concentrations of

- sex-steroids in relation to body composition in young adult male siblings. *Clin Endocrinol (Oxf)* 69 (1): 129-135.
- Calle M, Urrea V, Malats N, **Van Steen K**. (2008) Improving strategies for detecting genetic patterns of disease susceptibility in association studies – *Statistics in Medicine* 27 (30): 6532-6546.
 - Castro-Giner F, Kogevinas M, Machler M, de Cid R, **Van Steen K**, Imboden M, Schindler C, Berger W, Gonzalez JR, Franklin KA, Janson C, Jarvis D, Omenaas I, Burney R, Rochat T, Estivill X, Anto JM, Wjst M, Probst-Hensch NM (2008) TNFA-3086 > A in two international population-based cohorts and risk of asthma. *European Respiratory Journal* 32 (2): 350-361.
 - Ferrante M, Vermeire S, Fidler H, Schnitzler F, Noman M, Van Assche G, De Hertogh G, Hoffman I, D'Hoore A, **Van Steen K**, Geboes K, Penninckx F, Rutgeerts P (2008). Long-term outcome after infliximab for refractory ulcerative colitis. *Journal of Crohn's and Colitis* 2 (3): 219-225.
 - Ferrante M, Henckaerts L, Joossens M, Pierik M, Joossens S, Dotan N, Norman G, Altstock R, **Van Steen K**, Rutgeerts P, Van Assche G and Vermeire S. (2007) New serological markers in inflammatory bowel disease are associated with complicated disease behaviour. *Gut* 56 (10): 1394-1403. Epub 2007 Apr 24.
 - **Van Steen K**, Laird NM, Markel P, Molenberghs G (2007) Approaches to handling incomplete data in family-based association testing. *Ann Hum Genet.* Mar 71 (Pt 2): 141-51. Epub 2006 Nov 10.
 - Efficace F, Bottomley A, Coens C, **Van Steen K**, Conroy T, Schoffski P, Schmoll H, Van Cutsem E, Köhne C-H (2006) Does a patient's self-reported health-related quality of life predict survival beyond key biomedical data in advanced colorectal cancer, *Eur J Cancer.* 42 (1): 42-49.
 - Pierik M, Joossens S, **Van Steen K**, Van Schuerbeek N, Vlietinck R, Rutgeerts P and Vermeire S (2006) Toll-like receptor-1, -2, and -6 polymorphisms influence disease extension in inflammatory bowel diseases. *Inflamm Bowel Dis.* 12 (1): 1-8.
 - Raby BA, Hwang E-S, **Van Steen K**, Tantisira K, Peng S, Litonjua A, Lazarus R, Gaillourakis C, Rioux J, Sparrow D, Silverman EK, Glimcher L, Weiss ST (2006) T-bet polymorphisms are associated with asthma and airways hyperresponsiveness, *Am J Respir Crit Care Med* 173 (1): 64-70.
 - Raby BA, **Van Steen K**, Lazarus R, Celedón JC, Silverman E, Weiss ST (2006) Eotaxin polymorphisms and serum total IgE levels in children with asthma, *J Allergy Clin Immunol* 117 (2): 298-305.
 - Mcqueen MB, Devlin B, Faraone SP, Nimgaonkar VL, Sklar P, Smoller JW, Abou Jamra R, Albus M, Bacanu SA, Baron M, Barrett TB, Berrettini W, Blacker D, Byerley W, Cichon S, Coryell W, Craddock N, Daly M, Depaulo JR, Edenberg HJ, Foroud T, Gill M, Gilliam TC, Hamshere M, Jones I, Jones L, Joo S-H, Kelsoe JR, Lambert D, Lange C, Lerer B, Liu J, Maier W, Mcinnis MG, McMahon F, Murphy DL, Nöthen MM, Nurnberger JI, Pato CN, Pato MT, Potash JB, Propping P, Pulver AE, Rice JP, Rietschel M, Scheftner W, Schumacher J, Segurado R, **Van Steen K**, Xie W, Zandi PP and Laird NM (2005) Combined analysis from eleven linkage studies of bipolar disorder provides strong evidence for susceptibility loci on chromosomes 6q and 8q, *Am J Hum Genet.* 77 (4): 582-595.
 - Murphy A, Mcqueen MB, Su J, Kraft P, Lazarus R, Laird NM, Lange C, **Van Steen K** (2005) Genomic Screening in Family Based Association Testing. *Genet. Epidemiol.* 29 (Suppl. 1): 91-95

- Moerkerke B, Goetghebeur E, **Van Steen K**, Van Belle S, Cocquyt V (2005) Permutation based methods for analyzing quality of life data, *Stat Med.* 24 (24): 4055-4066.
- Raby BA, **Van Steen K**, Celedon JC, Litonjua AA, Lange C, Weiss ST for the CAMP Research Group (2005) Paternal history of asthma and airway responsiveness in children with asthma, *Am J Respir Crit Care Med.* 172 (5): 552-558.
- Van Ranst M, Joossens M, Joossens S, **Van Steen K**, Pierik M, Vermeire S, Rutgeerts P (2005) Crohn's disease and month of birth. *Inflammatory bowel diseases* 11 (6): 597-599.
- **Van Steen K**, Lange C (2005) PBAT: a comprehensive software package for genome-wide association analysis of complex family-based studies (Invited submission) *Journal of Human Genomics* 2 (1): 67-69.
- **Van Steen K**, Mcqueen MB, Herbert A, Raby B, Lyon H, Demeo DL, Murphy A, Su J, Datta S, Rosenow C, Christman M, Silverman Ek, Laird NM, Weiss St, Lange C (2005) Genomic screening and replication using the same data set in family-based association testing, *Nature Genetics* 37 (7): 683 – 691.
- **Van Steen K**, Raby B, Molenberghs G, Thijs H, De Wit M, Peeters M (2005) An equivalence test for comparing DNA sequences, *Pharmaceutical Statistics* 4 (3): 203-214.
- Efficace F, Biganzoli L, Piccart M, Coens C, **Van Steen K**, Cufer T, Coleman Re, Calvert Ha, Gamucci T, Twelves C, Fargeot P, Bottomley A (2004) Baseline health-related quality of life data as prognostic factors in a phase III multicenter study of women with metastatic breast cancer, *Eur J Cancer* 40 (7): 1021 – 1030.
- Efficace F, Therasse P, Piccart M, Coens C, **Van Steen K**, Welnicka-Jaskiewicz M, Cufer T, Dyczka J, Lichinitser M, Shepherd L, De Haes JC, Sprangers MA, Bottomley A (2004) Health-related quality of life parameters as prognostic factors in a non-metastatic breast cancer population. An international multicenter study, *Journal of Clinical Oncology* 22 (16): 3381-3388.
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- Franchimont D, Vermeire S, EL Housni H, Pierik M, **Van Steen K**, Gustot T, Quertinmont E, Abramowicz M, Van Gossum A, Deviere J, Rutgeerts P (2004) Deficient Host bacteria Interactions in Inflammatory Bowel Disease: the Toll-like Receptor (TLR)-4 Asp299Gly Polymorphism is Associated with Crohn's Disease and Ulcerative Coliti, *Gut* 53 (7): 987-992
- Joossens S, Daperno M, Shums Z, **Van Steen K**, Goeken J, Trapani C, Norman G, Godefridis G, Claessens G, Pera A, Pierik M, Vermeire S, Rutgeerts P and Bossuyt X (2004) Inter-assay and inter-observer variability in the detection of anti-neutrophil cytoplasmic antibodies in patients with ulcerative colitis, *Clin Chem* 50 (8): 1422-1425.
- Joossens S, Vermeire S, **Van Steen K**, Godefridis L, Claessens G, Pierik M, Vlietinck R, Aerts R, Rutgeerts P and Bossuyt X (2004) Pancreatic autoantibodies in inflammatory bowel disease, *Inflammatory Bowel Disease* 10 (6): 771-777.
- Lange C, **Van Steen K**, Andrew T, Lyon H, Demeo DL, Raby B, Murphy A, Silverman EK, Macgregor A, Weiss ST, Laird NM (2004) A family-based association test for repeatedly measured quantitative traits adjusting for unknown environmental and/or polygenic effects, *Statistical Applications in Genetics and Molecular Biology* 3 (1): Article 17.
- Murphy A, **Van Steen K**, Lange C (2004) On missing phenotype data in multivariate family based association tests: FBAT-GEE-IMP and imputation

- strategies based on the EM-algorithm, the DA-algorithm and the conditional mean model, *Far East J. Theo. Stat.* 13 (2): 175-188.
- Pierik M, Vermeire S, **Van Steen K**, Joossens S, Claessens G, Vlietinck R, Rutgeerts P (2004) Tumour necrosis factor- α receptor 1 and 2 polymorphisms in inflammatory bowel disease and their association with response to infliximab. *Alimentary Pharmacology & Therapeutics* 20: 303-310.
 - **Van Steen K**, Tahri N, Molenberghs G (2004) Introducing the multivariate Dale model in population based genetic association studies, *Biometrical Journal = Biometrisches Zeitschrift* 46 (2): 187-202.
 - Vermeire S, Rutgeerts P, **Van Steen K**, Joossens S, Claessens G, Pierik M, Peeters M, Vlietinck R (2004) Genome-wide scan in a Flemish inflammatory bowel disease population: support for the IBD4 locus, population heterogeneity and epistasis, *Gut* 53 (7): 980-986.
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 - Jansen I, Molenberghs G, Aerts M, Thijs H, Van Steen K (2003) A Local Influence Approach applied to Binary Data from a Psychiatric Study, *Biometrics*, 59 (2): 410-419.
 - Joossens S, Van Steen K, Vermeire SV, Reinisch W, Colombel JF, Rutgeerts P (2003) Reply to: The value of serologic markers in indeterminate colitis: A prospective follow-up study. *Gastroenterology* 125 (3): 999-1000.
 - Vermeire S, Noman M, Van Assche G, Baert F, **Van Steen K**, Esters N, Joossens S, Bossuyt X, Rutgeerts P (2003) Autoimmunity associated with anti-tumor necrosis factor alpha treatment in Crohn's disease: a prospective cohort study, *Gastroenterology* 125 (1): 32-39.
 - Bottomley A, Thomas R, **Van Steen K**, Fletchner H, Dzulbegovic B (2002) Erythropoietin improves quality of life – a response, *Lancet Oncol* 3 (9): 527.
 - Joossens S, Reinisch W, Vermeire S, Sendid B, **Van Steen K**, Poulain D, Peeters M, Geboes K, Bossuyt X, Vandewalle P, Oberhuber G, Vogelsang H, Rutgeerts P, Colombel JF (2002) The Value of Serologic Markers in Indeterminate Colitis: A Prospective Follow-up Study, *Gastroenterology* 122 (5): 1242-1247.
 - Bottomley A, Thomas R, **Van Steen K**, Fletchner H, Dzulbegovic B (2002) Human recombinant erythropoietin and quality of life: a wonder drug or something to wonder about, *The lancet Oncology*, 3 (3): 145-153.
 - **Van Steen K**, Curran D, Kramer J, Molenberghs G, Van Vreckem A, Bottomley A, Sylvester R (2002) Multicollinearity in Prognostic Factor Analyses using the EORTC QLQ-C30: Identification and Impact on Model Selection, *Statistics in Medicine* 21 (24): 3865-3884.
 - **Van Steen K**, Curran D, Molenberghs G (2001) Sensitivity Analysis of Longitudinal Binary Quality of Life Data With Dropout: An example using the EORTC QLQ-C30, *Statistics in Medicine* 20 (24): 3901-3920.
 - **Van Steen K**, Molenberghs G, Verbeke G, Thijs H (2001) A Local Influence Approach to Sensitivity Analysis of Incomplete Longitudinal Ordinal Data, *Statistical Modelling: An International Journal*, 1: 125-142.
 - Van Maldeghem H, **Van Steen K** (1999) Characterizations by Automorphism Groups of Some Rank 3 Buildings IV. Hyperbolic p-adic Moufang Buildings of Rank 3, *Geometriae Dedicata* 75 (2): 115-122.

Comment [11]: Check for correctness in Orby – this is the reply. The 2002 paper is the original one

- Van Maldeghem H, **Van Steen K** (1999) Characterizations by Automorphism Groups of Some Rank 3 Buildings II. A Half Strongly-Transitive Locally Finite Triangle Building is a Bruhat-Tits Building, *Geometriae Dedicata* 74 (2): 113-133.
- **Van Steen K** (1999) Characterizations by Automorphism Groups of Some Rank 3 Buildings III. Moufang-Like Conditions, *Geometriae Dedicata* 74 (3): 225-240.
- Van Maldeghem H, **Van Steen K** (1998) Characterizations by Automorphism Groups of Some Rank 3 Buildings I. Some Properties of Half Strongly-Transitive Triangle Buildings, *Geometriae Dedicata* 73 (2): 119-142.
- Van Maldeghem H, **Van Steen K** (1997) Moufang Affine Buildings have Moufang Spherical Building at Infinity, *Glasgow Math. J.* 39 (3): 237-241.

Other articles

Under revision or submission

- Joossens M, Huys G, **Van Steen K**, Cnockaert M, Vermeire S, Rutgeerts P, Verbeke K, Vandamme P, De Preter V (2010) High-throughput method for comparative analysis of denaturing gradient gel electrophoresis profiles from human fecal samples – under review at FEMS Microbiology Ecology.
- Alaerts M, Ceulemans S, Forero D, Moens LN, De Zutter S, Heyrman L, Lenaerts A-S, Norrback K-F, Goossens D, De Rijk P, **Van Steen K**, Adolfsson R, Del-Favero J (2010). Genome scan in large complex pedigrees from an isolated Northern Swedish population.
- Moens L, De Rijk P, Reumers J, Alaerts M, Ceulemans S, Forero D, Glasse W, De Zutter S, Heyrman L, Lenaerts A-S, Norrback K-F, Castello IM, Goossens D, **Van Steen K**, Adolfsson R, Del-Favero J (2010) Next generation sequencing and mutation analysis of the DISC1 pathway in schizophrenia.
- Schnitzler F, Fidder H, Ferrante M, Ballet V, Noman M, Van Assche G, Spitz B, Hoffman I, **Van Steen K**, Vermeire S, Rutgeerts P (2010) Outcome of pregnancy in women with inflammatory bowel disease treated with infliximab.
- Lødrup Carlsen KC, Roll S, Carlsen KH, Mowinckel P, Wijga AH, Brunekreef B, Torrent M, Roberts G, Arshad SH, Kull I, Krämer U, von Berg A, Eller E, Høst A, Kuehni C, Spycher B, Sunyer J, Chen CM, Reich A, Arsanj A, Puig C, Herbarth O, **Van Steen K**, Willich SN, Wahn U, Lau S, Keil T, for the working group of GA²LEN WP 1.5 ‘Birth Cohorts’ (2010) Pets in infancy - asthma or allergy in school age? Meta-analyses with individual raw data from 11 European birth cohorts.
- Arijs I, **Van Steen K**, Quintens R, Lemaire K, Van Lommel L, De Hertogh G, Van Assche G, Vermeire S, Geboes K, Schuit F, Rutgeerts P (2010) Intestinal mucosal gene expression of cell adhesion molecules, chemokines and chemokine receptors in patients with inflammatory bowel disease before and after infliximab treatment.
- Vermeulen N, Vermeire S, **Van Steen K**, Arijs I, Michiels G, Ballet V, Schuit F, Van Lommel L, Rutgeerts P, Bossuyt X (2010) Identification of novel antibodies in inflammatory bowel disease by protein microarray.

Under construction (submission ready: to be submitted within the next month)

- Jürgens M, Mahachie John JM, Cleynen I, Schnitzler F, Fidler H, Ballet V, Noman M, Hoffman I, Van Assche G, Rutgeerts PJ, **Van Steen K**, Vermeire S (2010) Predictive value of C-reactive protein changes on the outcome of infliximab in Crohn's disease – submission ready.
- Van Lishout F, Cattaert T, **Van Steen K** (2010) To the editor: Speedy MB-MDR – submission ready.
- Mahachie John JM, Cattaert T, Van Lishout F, **Van Steen K** (2010) Model-Based Multifactor Dimensionality Reduction to detect epistasis for quantitative traits in the presence of error-free and noisy data – submission ready.
- Gevaert Philippe, Van Bruaene Nicholas, De Ruyck Natalie, Blomme Katrien, Cattaert Tom, Sousa AnaR, Marshall Richard P, **Van Steen K**, Bachert Claus (2010) Mepolizumab, a humanised anti-IL-5 monoclonal antibody, as treatment of severe nasal polyposis – submission ready.
- Ziegler A, **Van Steen K**, Wellek S (2010) Investigating Hardy-Weinberg equilibrium in case-control or cohort studies or meta-analysis – submission ready.
- **Van Steen K** (2010) Invited review paper on epistasis analysis (Briefings in Bioinformatics) – under construction.
- Rzehak P et al for the working group of GA²LEN-WP 1.5 'Birth Cohorts (2010) Body-mass-index trajectory classes and asthma onset in childhood. Results from European Birth Cohorts – a Global Allergy and Asthma European Network initiative – under construction.
- **Van Steen K**, Vermeiren V, Huyghe J, Van de Peer Y (2010) GERONIMO and integrating omics data into MB-MDR screening for epistasis – under construction
- Demenais F, **Van Steen K** (*) (2010) Review paper on multi-marker analysis – under construction (*): equally contributing with first author).
- Arijs I, Van Lommel L, **Van Steen K**, De Hertogh G, Schuit F, Geboes K, Van Assche G, Vermeire S, Rutgeerts P. (2010). Gene expression profiling to predict the response of infliximab in patients with UC – under construction.
- Joossens S, Colombel J-F, Vermeire S, Landers C, **Van Steen K**, Sendid B, Poulain D, Geboes K, Bossuyt X, Vandewalle P, Oberhuber G, Vogelsang H, Targan S, Rutgeerts P, Reinisch W. (2010) Anti-outer membrane of porine c and anti-12 antibodies in indeterminate colitis – under construction.
- Joossens S, Halfvarson J, Romberg-Camps M, **Van Steen K**, Vermeire S, Järnerot G, Stockbrugger R, Matthijs G, Vlietinck R, Bossuyt X, JF Colombel, Rutgeerts P, Tysk C. (2010) Seriological markers in twins with inflammatory bowel disease – under construction.
- Calle M, et al, **Van Steen K** (2010) Multilocus information measures as pre-screening tool for multifactor dimensionality reduction in the context of epistasis – under construction.
- Haerynck F, **Van Steen K**, et al. (2010) Genetic analysis of pseudomonas infections – under construction.

Selection of 5 most representative publications

- Cattaert T, Urrea V, Naj AC, De Lobel L, De Wit V, Fu M, Mahachie John JM, Shen H, Calle ML, Ritchie MD, Edwards T, **Van Steen K** (2010) FAM-MDR: a flexible family-based multifactor dimensionality reduction technique to detect epistasis using related individuals. PLoS One, 5 (4).
- Ripatti S, Becker T, Bickeböller H, Dominicus A, Fischer C, Humphreys K, Jonasdottir G, Moreau Y, Nilsson S, Olsson M, Ploner A, Sheehan N, **Van Steen K**, Wessman J, Baur M, van Duijn C, Palmgren J (2009). GENESTAT: an

information portal for design and analysis of genetic association studies. *European Journal of Human Genetics* 17(4): 533-6 .

- **Van Steen K**, McQueen MB, Herbert A, Raby B, Lyon H, Demeo DL, Murphy A, Su J, Datta S, Rosenow C, Christman M, Silverman Ek, Laird NM, Weiss St, Lange C (2005) Genomic screening and replication using the same data set in family-based association testing. *Nature Genetics* 37 (7): 683-691.
- **Van Steen K**, Laird NM, Markel P, Molenberghs G (2006), Approaches to handle incomplete data in family-based association testing. *Annals of Human Genetics* 71: 141-151.
- **Van Steen K**, Tahri N, Molenberghs G (2004) Introducing the multivariate Dale model in population based genetic association studies. *Biometrical Journal* 46 (2): 187-202.

Internal reports

- **Van Steen K**, Laird NM (2004) Family based association tests and the FBAT toolkit. User's Manual.
- **Van Steen K**, Curran D (1999) Scoring SAS macros (in the context of Quality of Life data) included in the EORTC QLQC-30 Scoring Manual, EORTC study group on quality of life, Brussels.
- **Van Steen K**, Carthy S, Curran D (1999) Analysis of Quality of Life: statistical guidelines manual (for EORTC internal use).

Books

Author

- In May 2007 I was approached by Springer – Editorial Statistics to write a book in the field of statistical genetics. I have accepted, in collaboration with my co-author Dr Aaron Isaacs (Erasmus Medical Centre, Rotterdam – the Netherlands). A first draft of a table has been accepted by the editors and sent out to the reviewers. Targeted publication: 2011.
 - **Van Steen K** and Isaacs A (20--) A Road Map to Genetic Association Studies: A user-oriented approach.

Articles in or part of books

Author / co-author

- **Van Steen K**, Molenberghs G, Multicollinearity, 3rd edition encycl of biopharmac statistics - p836-p843 / Shein-Chung Chow [edit.], (2010), - <http://www.amazon.com/Encyclopedia-Biopharmaceutical-Statistics-Third-SHEIN/dp/143982245X/> Invited revision of the 2004 publication below.

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