

Correction

Correction: Reinauer et al., The Clinical Course of Patients with Preschool Manifestation of Type 1 Diabetes Is Independent of the HLA DR-DQ Genotype. *Genes* 2017, 8, 146

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The article entitled "The Clinical Course of Patients with Preschool Manifestation of Type 1 Diabetes is Independent of the HLA DR-DQ Genotype" contained a calculation error in Table 2 and the statistical methods used were not completely described. The additional information (*in italics*) and corrected Table 2 are given below:

The LMS method on page 3, l. 38 denotes the Lambda-Mu-Sigma method, not the least-mean-squares method. Alongside SAS, we used Graphpad Prism 7 with the Baptista Pike method for the estimation of confidence intervals (CI) for odds ratios.

In Table 1 for *DRB1*14:01/54*-DQA1*01:01-DQB1*05:03*, the OR is 0.00 (0; 0.39), $p = 0.003$, while for *DRB1*15:01-DQA1*01:02-DQB1*06:02*, the OR is 0.00 (0; 0.05), $p < 0.001$, and these were previously interchanged.

For clarification, we would like to add in brackets on page 6, ll. 7 f.: While 124 patients exhibited combinations of these, heterozygous ($n = 104$) or homozygous ($n = 20$, including two cases with a regular DR4 high-risk haplotype in combination with *DRB1*04:05-DQA1*03:01-DQB1*02:02*), 97 patients had one

of these two high-risk haplotypes ('moderate risk') and only 12 cases (5.2%) did not show either one ('low risk').

The corrected Table 2 is given below. We accordingly reformatted the paragraph in the results section on page 6, ll. 13 ff.:

Of note, potentially protective alleles were missing, even in the second alleles. Genetic heterogeneity was low and most of the second heterozygous alleles were neutral and shared between the two groups. *Additional susceptibility was conveyed by DRB1*01:01-DQA1*01:01-DQB1*05:01 and DRB1*08:01-DQA1*04:01/02-DQB1*04:02 in both groups, as well as DRB1*16:01-DQA1*01:02-DQB1*05:02 and less frequently DRB1*09:01-DQA1*03:02-DQB1*03:03 in the DRB1*03/x group, while DRB1*13:02-DQA1*01:02-DQB1*06:04 just failed significance in the DRB1*04/x group.* Investigating the third group of 12 cases, which did not show either DR3-DQ2 or DR4-DQ8, the abovementioned five haplotypes were present in nine of 12 cases.

As significance is missing for the allele *DRB1*13:02-DQA1*01:02-DQB1*06:04*, it has to be deleted in the discussion section on page 10, l. 29.

Table 2. Analysis of the DRB1-DQA1-DQB1 second alleles in heterozygous DRB1*03/x (DR3-DQ2) and HLA DRB1*04/x (DR4-DQ8) patient and controls, carrying one high-risk allele. Data were separately analysed for HLA DRB1*03/x (DR3-DQ2) and DRB1*04/x (DR4/DQ8) heterozygous groups.

| Patients with DRB1*03/x | | | | | | |
|---|----------|-------|-------------------|-----------------------|---------------------|--------|
| DRB1* | DQA1* | DQB1* | Controls n (%) | T1D Patients n (%) | Odds Ratio (CI) | p |
| 01:01 | 01:01 | 05:01 | 359 (10.5) | 11 (29.7) | 3.62 (1.76; 7.39) | <0.001 |
| 07:01 | 02:01 | 02:02 | 332 (9.7) | 2 (5.4) | 0.53 (0.13; 1.98) | 0.575 |
| 08:01 | 04:01/02 | 04:02 | 105 (3.1) | 5 (13.5) | 4.95 (2.05; 12.22) | 0.006 |
| 09:01 | 03:02 | 03:03 | 23 (0.7) | 4 (10.8) | 17.95 (6.37; 53.99) | <0.001 |
| 12:01 | 05:05 | 03:01 | 94 (2.7) | 2 (5.4) | 2.03 (0.47; 7.78) | 0.274 |
| 13:01 | 01:03 | 06:03 | 281 (8.2) | 2 (5.4) | 0.64 (0.15; 2.39) | 0.765 |
| 13:02 | 01:02 | 06:04 | 142 (4.1) | 3 (8.1) | 2.04 (0.65; 6.03) | 0.200 |
| 16:01 | 01:02 | 05:02 | 120 (3.5) | 8 (21.6) | 7.61 (3.56; 16.52) | <0.001 |
| others | | | 1972 (57.5) | | | |
| Patients with DRB1*04/x (DRB1*04 combining the DRB1*04:01/02/04/05 alleles, see text) | | | | | | |
| DRB1* | DQA1* | DQB1* | Controls n (%) | T1D Patients n (%) | Odds Ratio (CI) | p |
| 01:01 | 01:01 | 05:01 | 291 (11.6) | 15 (25.0) | 2.55 (1.39; 4.53) | 0.001 |
| 01:02 | 01:01 | 05:01 | 36 (1.4) | 2 (3.3) | 2.37 (0.55; 9.34) | 0.221 |
| 04:01 | 03:02 | 03:01 | 44 (1.8) | 2 (3.3) | 1.94 (0.45; 7.44) | 0.291 |
| 07:01 | 02:01 | 02:02 | 260 (10.3) | 3 (5.0) | 0.46 (0.15; 1.35) | 0.276 |
| 07:01 | 02:01 | 03:03 | 100 (4.0) | 1 (1.7) | 0.41 (0.04; 2.24) | 0.730 |
| 08:01 | 04:01/02 | 04:02 | 202 (8.0) | 14 (23.3) | 3.48 (1.91; 6.38) | <0.001 |
| 08:04 | 04:01 | 04:02 | 8 (0.3) | 1 (1.7) | 5.31 (0.47; 35.27) | 0.192 |
| 11:01 | 05:05 | 03:01 | 254 (10.1) | 4 (6.7) | 0.64 (0.24; 1.69) | 0.515 |
| 11:03 | 05:05 | 03:01 | 28 (1.1) | 1 (1.7) | 1.51 (0.14; 9.12) | 0.497 |
| 12:01 | 05:05 | 03:01 | 53 (2.1) | 1 (1.7) | 0.79 (0.08; 4.46) | >0.999 |
| 13:01 | 01:03 | 06:03 | 209 (8.3) | 5 (8.3) | 1.00 (0.43; 2.39) | >0.999 |
| 13:02 | 01:02 | 06:04 | 118 (4.7) | 6 (10.0) | 2.26 (1.03; 5.30) | 0.058 |
| 13:03 | 05:05 | 03:01 | 40 (1.6) | 1 (1.7) | 1.05 (0.10; 6.08) | 0.623 |
| 16:01 | 01:02 | 05:02 | 90 (3.6) | 4 (6.7) | 1.92 (0.73; 5.00) | 0.278 |
| others | | | 781 (31.1) | | | |

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