Correction to "Pharmacogenomic Next-Generation DNA Sequencing: Lessons from the Identification and Functional Characterization of Variants of Unknown Significance in CYP2C9 and CYP2C19"

In the above article [Devarajan S, Moon I, Ho M-F, Larson NB, Neavin DR, Moyer AM, Black JL, Bielinski SJ, Scherer SE, Wang L, Weinshilboum RM, and Reid JM (2019) *Drug Metab Dispos* 47 (4), 425-435; DOI: https://doi.org/10.1124/dmd.118.084269], a few mistakes were accidentally introduced during the preparation and review of the manuscript.

First, Authorship line, Dr. Sandhya Devarajan was incorrectly listed as the primary author for this work. Dr. Sandhya Devarajan and Ms. Irene Moon contributed equally to this work and now listed as co-first authors for the manuscript and a footnote added.

Second, Table 2, on page 428, in the 4th row titled 'Gene', the column 'rsID' should list 'Not present' instead of 'rs549167718'; column 'Validation' should be empty instead of '2'; column 'gnomAD Data Bank (Minor Allele Frequency)' should be 'Not recorded' instead of '4.099E-^{06a}'. In the 5th row titled 'Gene', the column 'gnomAD Data Bank (Minor Allele Frequency)' should have 'a' footnote reference instead of 'b'. In the footnote section below the table, footnote 'awithout frameshift' should be deleted and footnote 'b' should be changed to 'a'. The corrected table is provided below

TABLE 2

Data search results for CYP2C9 and CYP2C19 variants in gnomAD data bank.

The data base search results were obtained from gnomAD (http://gnomad.broadinstitute.org/) and dbSNP (https://www.ncbi.nlm.nih.gov/projects/SNP/) in August 2018.

Gene	cDNA Change	dbSNP data bank		gnomAD Data Bank
		rsIDs	Validation	(Minor allele frequency)
CYP2C9	218C>T	rs762081829	Not done	5.69 x 10 ⁻⁰⁵
CYP2C9	229C>A	Not present		Not recorded
CYP2C9	343A>C	rs771237265	1	1.01 x 10 ⁻⁰⁴
CYP2C9	707delA	Not present		Not Recorded
CYP2C9	709G>C	Not present		Not recorded ^a
CYP2C9	791T>C	rs761895497	1	1.09 x 10 ⁻⁰⁵
CYP2C9	801C>T	rs149158426	1,2,3	8.55 x 10 ⁻⁰⁴
CYP2C19	65A>G	rs144928727	3	1.22 x 10 ⁻⁰⁵
CYP2C19	337G>A	rs145119820	1,2,3	2.24 x 10 ⁻⁰⁴
CYP2C19	518C>T	rs61311738	1,2,3	4.66 x 10 ⁻⁰³
CYP2C19	556C>T	rs183701923	1,2,3	9.74 x 10 ⁻⁰⁵
CYP2C19	557G>A	rs140278421	1,2,3	1.08 x 10 ⁻⁰⁴
CYP2C19	578A>G	Not present	. ,	4.06×10^{-06}
CYP2C19	815A>G	Not present		Not recorded

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rsID, reference SNP identification; 1, Validated by frequency or genotype data (minor alleles were observed in at least two chromosomes); 2, SNP has been sequenced in 1000 genome project;

Third, Results Section on page 428, right column, line seven '229C>A and 709G>C' should be '229C>A, 707delA and 709G>C'. On page 429, left column, line 2, 'three of the identified CYP2C19 variants (229C>A, 709G>C and 801C>T)' should be 'five of the identified CYP2C9 variants (218C>T, 343A>C, 707delA, 707_709delinsCC and 791T>C). On page 429, right column, line 2, '(65A>G, 337 G>A, 578A>G and 815A>G) should be (518C>T, 556C>T, 557G>A and 815A>G).

Fourth, Table 4, on page 433, line one under the title, '518C>CT, 556C>CT' should be '518C>T, 556C>T'.

The HTML and PDF versions of the article have been corrected.

The authors regret these errors and apologize for any inconvenience this may have caused.

Validated by multiple, independent submissions to the reference SNP cluster.
 a(other mutations to Ile, Phe, Val and Ala recorded at this position).