S4 Table. The main pfch1 amplifications with the most frequent pfdhfr/pfdhps genotypes in Africa and Asia (%).

| Duplication | N  | Genotypes * | Number of genotypes | West Africa | Central Africa | East Africa | Southern Africa | Horn of Africa | Southeast Asia |
|-------------|----|-------------|---------------------|-------------|----------------|-------------|----------------|---------------|----------------|
| A           | 3  | NCSIS-ISAKAA| 3                   | -           | -             | -           | -              | 100           | -              |
| B           | 2  | IRNIS-ISGEAA| 2                   | -           | -             | -           | -              | 100           | -              |
| C           | 5  | IRNIS-ISGKAA| 3                   | -           | -             | 60          | -              | -             | -              |
| D           | 2  | IRNIS-ISGEA | 2                   | -           | -             | -           | 100            | -             | -              |
| E           | 289| IRNIS-ISGEA | 20                  | -           | -             | -           | -              | 6.9           | -              |
| F *         | 101| IRNIS-IAGEAA| 7                   | -           | -             | -           | -              | 6.9           | -              |
| G **        | 68 | IRNIS-ISNGA | 16                  | -           | -             | -           | -              | 23.5          | -              |
| H ***       | 20 | IRNIS-VAGKAA| 2                   | -           | 10.0          | -           | -              | 19.1          | -              |
| I +         | 347| IRNIS-ISGKAA| 43                  | 7.8         | 4.6           | -           | -              | -             | -              |
| I ++        | 207| IRNIS-ISGKAA| 214                 | -           | 14.0          | -           | -              | -             | -              |
| I +++       | 125| IRNIS-ISGKAA| 46                  | 8.2         | 12.6          | 29.5        | -              | -             | -              |
|             |    | IRNIS-ISGKAA| 8                   | 6.4         | -             | -           | -              | -             | -              |
|             |    | IRNIS-ISGKAA| 39                  | 30.4        | 0.8           | -           | -              | -             | -              |
|             |    | IRNIS-ISGKAA| 7                   | 5.6         | -             | -           | -              | -             | -              |
|             |    | IRNIS-ISGKAA| 32                  | 24.8        | 0.8           | -           | -              | -             | -              |
|             |    | IRNIS-ISGKAA| 9                   | 7.2         | -             | -           | -              | -             | -              |

* GB4, T996; ** KH02; *** NF54; + KE01; ++ KE01/ML01; +++ ML01; gDupA - H are gene amplifications; pDupI (3 types) and pDupJ are promoter amplifications; * based on pfdhfr (N51I, C59R, S108N, I164L and I306F) and pfdhps (I431V, S436A, A437G, K540E/K540N, A581G and A613S); frequencies of at least 10% are bolded.