

***P. falciparum* sample information for Miotto *et al.*, *Multiple populations of artemisinin-resistant Plasmodium falciparum in Cambodia*, Nature Genetics, 2013.**

Terms and conditions of use

This document lists ENA accession numbers, country of origin, and name and contact of contributing investigators for the samples included in Miotto *et al.*, *Multiple populations of artemisinin-resistant Plasmodium falciparum in Cambodia*, Nature Genetics, 2013 (DOI: [10.1038/ng.2624](https://doi.org/10.1038/ng.2624)).

The samples and data used in this publication form part of the MalariaGEN *Plasmodium falciparum* Community Project (<http://www.malariagen.net/projects/parasite/pf>), which is building a catalogue of variants and allele frequencies as part of its goal to characterise common forms of genetic variation in *Plasmodium falciparum*. It is expected that the Project will have many scientific and translational applications, including its ultimate goal to foster the uses of parasite sequencing and genotyping to guide malaria control and elimination strategies.

This will involve sequencing thousands of parasite isolates contributed by independent research groups working in malaria endemic countries from around the world, and developing statistical and computational methods that allow the most common and important forms of variation to be reliably and cost-effectively determined in large numbers of sequenced samples. *Plasmodium falciparum* has a number of unusual and complex genomic features – e.g. highly repetitive regions, exceptionally variable regions and genetically mixed infections – that make this a particularly interesting and challenging analytical problem.

The data used in Miotto *et al.*, Nature Genetics, 2013 (DOI: [10.1038/ng.2624](https://doi.org/10.1038/ng.2624)), were generated by the Project to investigate a number of scientific questions that go beyond the scope of this particular publication. Similarly, many of the investigators and groups who contributed samples used in this publication have planned independent analyses of their datasets that have not yet been completed or reported. The contributing investigators have agreed to release the sequence data and country of origin of these samples in the expectation that other researchers will find this useful and will respect the data-sharing principles outlined below.

Guided by the principles of the Fort Lauderdale Agreement, (www.genome.gov/Pages/Research/WellcomeReport0303.pdf), other researchers are encouraged to use these data in their own work, but are expected to allow the Project and its contributing investigators to make the first presentations and publications reporting on their intended scientific analyses. The terms for data use are set out below, and are based on those established by the human 1000 Genomes Project (www.1000genomes.org). Usage of any data contained in this document implies your acceptance of these terms and conditions.

== Use of the Project data, presentations and publications, and authorship ==

*** Global analyses of Project data**

The Project and its contributing investigators plan to publish global analyses of: sequence data and quality; SNPs and structural variants; haplotypes and LD patterns; population genetic phenomena such as population comparisons, mutation and recombination rates, signals of selection and demographic analyses; functional annotations; and analyses of regions of general interest such as *var* genes and genes implicated in drug resistance. Since the data is derived from blood samples of infected individuals in a natural setting, some samples will include mixed infections of *P. falciparum* with other Plasmodium species, and this will form part of the Project analysis.

Talks, posters, and papers on all such analyses are to be published first by approved presenters on behalf of the Project. When these planned analyses have been published by the Project, then other researchers are free to present and publish using the Project data.

Groups within the Project may make presentations and publish papers on more extensive analyses of specific topics coincident with the main Project analysis presentations and publications.

***Local analyses of Project data**

In many cases contributing investigators intend to perform analyses beyond those described above using the genomic data from their samples. External researchers who wish to investigate patterns of variation at particular study sites are respectfully asked to contact the relevant contributing groups to discuss their intentions and, if appropriate, to identify opportunities for collaboration. This should be done via the contacts named in the accompanying list of studies and samples.

*** Methods development using Project data**

Researchers who have used small amounts of Project data (\leq one chromosome) may present methods development posters, talks, and papers that include these data prior to the main Project publications, without needing Project approval or authorship. The Project should be acknowledged and cited using the format given below. Methods presentations or papers on global analyses or analyses using large amounts of Project data would be similar to large-scale analyses of Project data: researchers within the Project may make presentations or submit papers at the same time as the main Project presentations and papers, and others could do so after the Project publishes on the global analyses.

***Candidate region studies using Project data**

Researchers may present and publish on use of Project data in specific chromosome regions (that are not of general interest) or as summaries (such as the total number of variants) without Project approval, prior to the main Project publications. The Project should be acknowledged and cited using the format given below.

*** Population comparisons using Project data**

Researchers may use Project data as controls or additional information for comparisons with their samples from other populations, prior to the main Project publications, as long as the analyses that the Project plans to do are not included. The Project should be acknowledged and cited using the format given below.

*** Acknowledging and citing the source of the data**

Publications using these data should acknowledge and cite the source of the data using the following format: "This publication uses data from the MalariaGEN Community Project on Plasmodium

falciparum population genomics as described in Miotto *et al*, Nature Genetics, 2013 (DOI: 10.1038/ng.2624)."

*** Uses of the data to study other organisms**

The sequence read data may only be used for Plasmodium genome analysis. It is prohibited to attempt to recover information about humans or other organisms.

== Queries ==

Researchers who have questions about whether they may make presentations or submit papers using Project data may contact Bronwyn MacInnis (bm2@sanger.ac.uk) or Olivo Miotto (olivo@tropmedres.ac).

== Project Updates ==

The MalariaGEN *Plasmodium falciparum* Community Project is an active collaboration. For the latest information on Project developments, analyses and publications, visit the Project page (<http://www.malariagen.net/projects/parasite/pf>).

The data

The following tables provide provenance metadata for the 825 samples used in Miotto *et al.*, Nature Genetics, 2013 (DOI: [10.1038/ng.2624](https://doi.org/10.1038/ng.2624)).

Table 1 gives information about partner studies that contributed samples to this dataset. The columns show: (1) the identifier of the partner study; (2) the name and affiliation; and (3) the email address of the contact person who represents the group who conducted the partner study.

Table 2 gives information about samples. The columns show: (1) sample number; (2) the accession number(s) for the sequencing reads data relevant to the sample, stored at the European Nucleotide Archive (ENA); (3) the country of origin of the sample; (4) the identifier of the partner study that contributed the sample.

Read sequences can be downloaded from

<http://www.ebi.ac.uk/ena/data/search/?query=plasmodium> using the accession numbers provided. Some samples have multiple accession numbers, each referring to a dataset generated by a separate sequencing experiment on the sample.

Updated: 23 September 2013

Table 1 – Partner studies that contributed samples used in this study

| Study Code | Contact | Email |
|-------------------|--|---------------------------------|
| 1001 | Abdoulaye Djimde University of Science, Techniques and Technologies of Bamako, Mali | adjimde@icermali.org |
| 1004 | Jean Bosco Ouedraogo Institut de Recherche en Sciences de la Santé, Bobo-Dioulasso, Burkina Faso | jbouedraogo.irssbobo@fasonet.bf |
| 1006 | Alfred Amambua-Ngwa MRC Laboratories, Banjul, The Gambia | angwa@mrc.gm |
| 1010 | Timothy J.C. Anderson Southwest Foundation for Biomedical Research, San Antonio, TX, USA | tanderso@sfbgenetics.org |
| 1011 | Xin-zhuan Su National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, USA | xsu@niaid.nih.gov |
| 1012 | Nick White Mahidol-Oxford Tropical Medicine Research Unit, Bangkok, Thailand | nickwdt@tropmedres.ac |
| 1017 | Lucas Amenga-Etego Navrongo Health Research Centre, Navrongo, Ghana | lucas@well.ox.ac.uk |
| 1020 | Christiane Dolecek Oxford University Clinical Research Unit, Ho Chi Minh City, Vietnam | cdolecek@oucru.org |
| 1031 | Chris Plowe Howard Hughes Medical Institute and University of Maryland, Baltimore, MD, USA | cplowe@medicine.umaryland.edu |
| 1044 | Rick Fairhurst National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, USA | rfairhurst@niaid.nih.gov |

Table 2 – Samples used in this study

| Num | ENA Accession | Origin | Study Code |
|------------|----------------------|---------------|-------------------|
| 1 | ERS010434 | Burkina Faso | 1004 |
| 2 | ERS010432 | Burkina Faso | 1004 |
| 3 | ERS010446 | Burkina Faso | 1004 |
| 4 | ERS010061 | Burkina Faso | 1004 |
| 5 | ERS010449 | Burkina Faso | 1004 |
| 6 | ERS010442 | Burkina Faso | 1004 |
| 7 | ERS010208 | Burkina Faso | 1004 |
| 8 | ERS010060 | Burkina Faso | 1004 |
| 9 | ERS010440 | Burkina Faso | 1004 |
| 10 | ERS010441 | Burkina Faso | 1004 |
| 11 | ERS010206 | Burkina Faso | 1004 |
| 12 | ERS010439, ERS010611 | Burkina Faso | 1004 |
| 13 | ERS010447 | Burkina Faso | 1004 |
| 14 | ERS010204 | Burkina Faso | 1004 |
| 15 | ERS010209 | Burkina Faso | 1004 |
| 16 | ERS010603, ERS010450 | Burkina Faso | 1004 |
| 17 | ERS010616 | Burkina Faso | 1004 |
| 18 | ERS010205 | Burkina Faso | 1004 |
| 19 | ERS010443 | Burkina Faso | 1004 |
| 20 | ERS010210 | Burkina Faso | 1004 |
| 21 | ERS010448 | Burkina Faso | 1004 |
| 22 | ERS010636, ERS010201 | Burkina Faso | 1004 |
| 23 | ERS010445 | Burkina Faso | 1004 |
| 24 | ERS010433 | Burkina Faso | 1004 |
| 25 | ERS010202 | Burkina Faso | 1004 |
| 26 | ERS010200 | Burkina Faso | 1004 |
| 27 | ERS010444 | Burkina Faso | 1004 |
| 28 | ERS010188 | Burkina Faso | 1004 |
| 29 | ERS010203 | Burkina Faso | 1004 |
| 30 | ERS010186 | Burkina Faso | 1004 |
| 31 | ERS010207 | Burkina Faso | 1004 |
| 32 | ERS010617 | Burkina Faso | 1004 |
| 33 | ERS010189 | Burkina Faso | 1004 |
| 34 | ERS010618 | Burkina Faso | 1004 |
| 35 | ERS010187 | Burkina Faso | 1004 |
| 36 | ERS010173 | Burkina Faso | 1004 |
| 37 | ERS010174 | Burkina Faso | 1004 |
| 38 | ERS010175 | Burkina Faso | 1004 |
| 39 | ERS010176 | Burkina Faso | 1004 |
| 40 | ERS010177 | Burkina Faso | 1004 |

| Num | ENA Accession | Origin | Study Code |
|------------|--|-------------------|-------------------|
| 41 | ERS010577, ERS010178, ERS010574 | Burkina Faso | 1004 |
| 42 | ERS010627, ERS010630, ERS010681, ERS010683, ERS010628, ERS010179, ERS010629, ERS014193 | Burkina Faso | 1004 |
| 43 | ERS010633, ERS010632, ERS010180, ERS010631 | Burkina Faso | 1004 |
| 44 | ERS010575, ERS010578, ERS010181 | Burkina Faso | 1004 |
| 45 | ERS010182 | Burkina Faso | 1004 |
| 46 | ERS010183 | Burkina Faso | 1004 |
| 47 | ERS010619 | Burkina Faso | 1004 |
| 48 | ERS010576, ERS010579, ERS014189 | Burkina Faso | 1004 |
| 49 | ERS010054, ERS010669 | Cambodia (Pailin) | 1031 |
| 50 | ERS010670, ERS010672 | Cambodia (Pailin) | 1031 |
| 51 | ERS010673, ERS010671 | Cambodia (Pailin) | 1031 |
| 52 | ERS010776 | Cambodia (Pailin) | 1031 |
| 53 | ERS024123 | Cambodia (Pailin) | 1031 |
| 54 | ERS009744 | Cambodia (Pailin) | 1031 |
| 55 | ERS009745 | Cambodia (Pailin) | 1031 |
| 56 | ERS009740 | Cambodia (Pailin) | 1031 |
| 57 | ERS010778 | Cambodia (Pailin) | 1031 |
| 58 | ERS017560 | Cambodia (Pailin) | 1031 |
| 59 | ERS010155 | Cambodia (Pailin) | 1031 |
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| 61 | ERS010156 | Cambodia (Pailin) | 1031 |
| 62 | ERS017562 | Cambodia (Pailin) | 1031 |
| 63 | ERS010779 | Cambodia (Pailin) | 1031 |
| 64 | ERS024124 | Cambodia (Pailin) | 1031 |
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| 66 | ERS024126 | Cambodia (Pailin) | 1031 |
| 67 | ERS024127 | Cambodia (Pailin) | 1031 |
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| 72 | ERS024136 | Cambodia (Pailin) | 1031 |
| 73 | ERS010786 | Cambodia (Pailin) | 1031 |
| 74 | ERS010788 | Cambodia (Pailin) | 1031 |
| 75 | ERS010782 | Cambodia (Pailin) | 1031 |
| 76 | ERS032151 | Cambodia (Pailin) | 1031 |
| 77 | ERS032008 | Cambodia (Pailin) | 1031 |
| 78 | ERS032025 | Cambodia (Pailin) | 1031 |
| 79 | ERS032093 | Cambodia (Pailin) | 1031 |
| 80 | ERS032109 | Cambodia (Pailin) | 1031 |
| 81 | ERS032135 | Cambodia (Pailin) | 1031 |

| Num | ENA Accession | Origin | Study Code |
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| 82 | ERS032148 | Cambodia (Pailin) | 1031 |
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| 84 | ERS032137 | Cambodia (Pailin) | 1031 |
| 85 | ERS032057 | Cambodia (Pailin) | 1031 |
| 86 | ERS032091 | Cambodia (Pailin) | 1031 |
| 87 | ERS032077 | Cambodia (Pailin) | 1031 |
| 88 | ERS032058 | Cambodia (Pailin) | 1031 |
| 89 | ERS032637 | Cambodia (Pailin) | 1031 |
| 90 | ERS032071 | Cambodia (Pailin) | 1031 |
| 91 | ERS032136 | Cambodia (Pailin) | 1031 |
| 92 | ERS032052 | Cambodia (Pailin) | 1031 |
| 93 | ERS032082 | Cambodia (Pailin) | 1031 |
| 94 | ERS031999 | Cambodia (Pailin) | 1031 |
| 95 | ERS013843, ERS017412, ERS017414, ERS010216, ERS010516, ERS010213 | Cambodia (Pailin) | 1012 |
| 96 | ERS010517, ERS010217, ERS010214, ERS013844 | Cambodia (Pailin) | 1012 |
| 97 | ERS010511 | Cambodia (Pailin) | 1012 |
| 98 | ERS010318 | Cambodia (Pursat) | 1011 |
| 99 | ERS010319 | Cambodia (Pursat) | 1011 |
| 100 | ERS010320 | Cambodia (Pursat) | 1011 |
| 101 | ERS010321 | Cambodia (Pursat) | 1011 |
| 102 | ERS010322 | Cambodia (Pursat) | 1011 |
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| 105 | ERS010325 | Cambodia (Pursat) | 1011 |
| 106 | ERS010326 | Cambodia (Pursat) | 1011 |
| 107 | ERS010327 | Cambodia (Pursat) | 1011 |
| 108 | ERS010328 | Cambodia (Pursat) | 1011 |
| 109 | ERS010329, ERS010346 | Cambodia (Pursat) | 1011 |
| 110 | ERS010330 | Cambodia (Pursat) | 1011 |
| 111 | ERS010331 | Cambodia (Pursat) | 1011 |
| 112 | ERS010332 | Cambodia (Pursat) | 1011 |
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| 118 | ERS010598 | Cambodia (Pursat) | 1011 |
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| 122 | ERS010591 | Cambodia (Pursat) | 1011 |

| Num | ENA Accession | Origin | Study Code |
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| 124 | ERS010503 | Cambodia (Pursat) | 1011 |
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| 178 | ERS032029 | Cambodia (Pursat) | 1044 |
| 179 | ERS032249 | Cambodia (Pursat) | 1044 |
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| 183 | ERS032018 | Cambodia (Pursat) | 1044 |
| 184 | ERS032026 | Cambodia (Pursat) | 1044 |
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| 186 | ERS032686 | Cambodia (Pursat) | 1044 |
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| 245 | ERS017693 | Cambodia (Ratanakiri) | 1044 |
| 246 | ERS017695 | Cambodia (Ratanakiri) | 1044 |
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| 248 | ERS017697 | Cambodia (Ratanakiri) | 1044 |

| Num | ENA Accession | Origin | Study Code |
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| 250 | ERS025278 | Cambodia (Ratanakiri) | 1044 |
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| 252 | ERS025280 | Cambodia (Ratanakiri) | 1044 |
| 253 | ERS025281 | Cambodia (Ratanakiri) | 1044 |
| 254 | ERS025260 | Cambodia (Ratanakiri) | 1044 |
| 255 | ERS025282 | Cambodia (Ratanakiri) | 1044 |
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| Num | ENA Accession | Origin | Study Code |
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| 798 | ERS010349, ERS010350 | Thailand | 1010 |
| 799 | ERS010310 | Thailand | 1010 |
| 800 | ERS010352, ERS010351 | Thailand | 1010 |
| 801 | ERS010339, ERS010340, ERS010338, ERS010341 | Thailand | 1010 |
| 802 | ERS010342, ERS010343, ERS010344, ERS010345 | Thailand | 1010 |
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| 810 | ERS010364, ERS010363 | Thailand | 1010 |
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| 812 | ERS010356, ERS014194, ERS010624, ERS010623, ERS010355, ERS010622, ERS010634 | Thailand | 1010 |
| 813 | ERS010190 | Thailand | 1010 |
| 814 | ERS003020, ERS010034 | Vietnam | 1020 |
| 815 | ERS003022, ERS010036 | Vietnam | 1020 |
| 816 | ERS003021, ERS010035 | Vietnam | 1020 |
| 817 | ERS013102 | Vietnam | 1020 |
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| 823 | ERS013087 | Vietnam | 1020 |
| 824 | ERS013088 | Vietnam | 1020 |
| 825 | ERS013089 | Vietnam | 1020 |

