## Table 1 – source data 1. List of within-host studies included in the analysis.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Author, year | PMID | N independent  episodes | N sequences | Ref |
| Gao W, 2015 | 28348811 | 1 | 18 | (1) |
| Howden BP, 2011 | 22102812 | 5 | 10 | (2) |
| Young BC, 2012 | 22393007 | 3 | 167 | (3) |
| Golubchik, 2013 | 23658690 | 13 | 120 | (4) |
| Burd EM, 2014 | 24850355 | 1 | 3 | (5) |
| Rishishwar L, 2016 | 27446992 | 1 | 3 | (6) |
| Trouillet-Assant S, 2016 | 26918656 | 3 | 6 | (7) |
| Young BC, 2017 | 29256859 | 105 | 1078 | (8) |
| Rouard C, 2018 | 30275089 | 1 | 3 | (9) |
| Langhanki L, 2018 | 30348081 | 1 | 2 | (10) |
| Altman DR, 2018 | 30061376 | 10 | 23 | (11) |
| Giulieri SG, 2018 | 30103826 | 49 | 111 | (12) |
| Benoit JB, 2018 | 29723202 | 8 | 42 | (13) |
| Suligoy CM, 2018 | 29456969 | 1 | 3 | (14) |
| Harkins CP, 2018 | 28951239 | 27 | 248 | (15) |
| Tan X, 2019 | 30753350 | 4 | 8 | (16) |
| Loss G, 2019 | 31696062 | 1 | 2 | (17) |
| Kuroda M, 2019 | 31474962 | 1 | 16 | (18) |
| Azarian T, 2019 | 31244886 | 3 | 44 | (19) |
| Wuethrich D, 2019 | 30726929 | 1 | 5 | (20) |
| Ji S, 2020 | 32176794 | 3 | 20 | (21) |
| Miller CR, 2020 | 31932377 | 1 | 2 | (22) |
| Liu J, 2020 | 31919223 | 2 | 12 | (23) |
| Petrovic Fabijan A, 2020 | 32066959 | 12 | 57 | (24) |
| Tong SYC, 2020 | 32044943 | 138 | 585 | (25) |

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