**Virologica Sinica**

**Supplementary Data**

**Viral metagenomics reveals diverse viruses in the fecal samples of children with diarrhea**

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**Supplementary Fig. S1** The composition of fecal virome detected in diarrheal children. The percentage of virus sequences in different virus genera was shown.

**Supplementary Table S1** The summary of library information of diarrheal children.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Library ID | Sample type | No. of sample | Healthy status | Total no. of raw reads | No. of viral reads with E value < 10−5 |
| 1 | Feces | 10 | Diarrhea | 207,772 | 93,011 |
| 2 | Feces | 10 | Diarrhea | 141,866 | 21,687 |
| 3 | Feces | 10 | Diarrhea | 536,357 | 280,253 |
| 4 | Feces | 10 | Diarrhea | 291,565 | 158,285 |
| 5 | Feces | 10 | Diarrhea | 1,051,185 | 327,022 |
| 6 | Feces | 10 | Diarrhea | 223,336 | 49,758 |
| 7 | Feces | 10 | Diarrhea | 221,869 | 106,711 |
| 8 | Feces | 10 | Diarrhea | 517,793 | 100,183 |
| 9 | Feces | 10 | Diarrhea | 300,505 | 41,050 |
| 10 | Feces | 10 | Diarrhea | 120,462 | 6,103 |

*E-value*, expected value.

**Supplementary Table S2** The sequence numbers of eukaryotic viruses in family level in different libraries of this study.

|  |  |
| --- | --- |
| Virus Families | No. of viral reads with E value < 10−5 |
| L1 | L2 | L3 | L4 | L5 | L6 | L7 | L8 | L9 | L10 |
| *Adenoviridae* | 0 | 0 | 0 | 0 | 0 | 0 | 26,422 | 0 | 0 | 0 |
| *Anelloviridae* | 0 | 0 | 0 | 0 | 0 | 111 | 0 | 0 | 0 | 14 |
| *Astroviridae* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,823 | 671 | 0 |
| *Caliciviridae* | 0 | 2,015 | 0 | 14,471 | 123,887 | 8,615 | 74,359 | 2,747 | 5,387 | 168 |
| *Parvoviridae* | 0 | 0 | 0 | 0 | 0 | 616 | 0 | 7,680 | 0 | 0 |
| *Picobirnaviridae* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 0 |
| *Picornaviridae* | 0 | 384 | 615 | 16,393 | 2,939 | 4,354 | 0 | 0 | 0 | 22 |
| *Reoviridae* | 60 | 116 | 0 | 0 | 0 | 164 | 0 | 102 | 47 | 107 |

*L1–L10*: the abbreviation of library names.

**Supplementary Table S3** The sequence numbers of eukaryotic viruses in genus level in different libraries of this study.

|  |  |
| --- | --- |
| Virus Genus | No. of viral reads with E value < 10−5 |
| L1 | L2 | L3 | L4 | L5 | L6 | L7 | L8 | L9 | L10 |
| *Norovirus* | 0 | 2,015 | 0 | 14,471 | 123,887 | 8,615 | 74,359 | 2,747 | 499 | 168 |
| *Sapovirus* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4,888 | 0 |
| *Mamastrovirus* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,823 | 671 | 0 |
| *Enterovirus* | 0 | 0 | 0 | 609 | 0 | 0 | 1,495 | 0 | 0 | 19 |
| *Parechovirus* | 0 | 379 | 0 | 16,343 | 2,726 | 2,841 | 0 | 0 | 0 | 0 |
| *Mamastrovirus* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,393 | 597 | 0 |
| *Bocaparvovirus* | 0 | 0 | 0 | 0 | 0 | 607 | 0 | 7,680 | 0 | 0 |
| *Rotavirus* | 60 | 116 | 0 | 0 | 0 | 164 | 0 | 102 | 47 | 107 |
| *Mastadenovirus* | 0 | 0 | 0 | 0 | 0 | 0 | 26,410 | 0 | 0 | 0 |

*L1–L10*: the abbreviation of library names.