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## Correction: MN15: A Kohn–Sham global-hybrid exchange–correlation density functional with broad accuracy for multi-reference and single-reference systems and noncovalent interactions

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Correction for 'MN15: A Kohn–Sham global-hybrid exchange–correlation density functional with broad accuracy for multi-reference and single-reference systems and noncovalent interactions' by Haoyu S. Yu *et al.*, *Chem. Sci.*, 2016, DOI: 10.1039/c6sc00705h.

There were errors in some of the rankings in Table 11 and a corrected table is provided here. This correction does not affect the conclusions of the paper.

Table 11 The rankings (out of 83 functionals) of 12 selected functionals for 28 atomic and molecular databases

| Name         | BP86 | PBE | B3LYP | TPSS | HSE06 | M06-L | $\tau$ -HCTHhyb | $\omega$ B97X-D | M06-2X | M06 | MN15-L | MN15 |
|--------------|------|-----|-------|------|-------|-------|-----------------|-----------------|--------|-----|--------|------|
| SR-MGM-BE9   | 27   | 19  | 53    | 13   | 39    | 32    | 9               | 14              | 3      | 35  | 20     | 18   |
| SR-MGN-BE107 | 75   | 69  | 48    | 46   | 33    | 29    | 20              | 11              | 2      | 8   | 12     | 1    |
| SR-TM-BE17   | 52   | 49  | 20    | 22   | 11    | 37    | 38              | 3               | 58     | 18  | 2      | 6    |
| MR-MGM-BE4   | 48   | 46  | 23    | 13   | 33    | 7     | 4               | 49              | 57     | 3   | 1      | 2    |
| MR-MGN-BE17  | 73   | 74  | 30    | 13   | 34    | 3     | 15              | 44              | 37     | 10  | 1      | 2    |
| MR-TM-BE13   | 61   | 62  | 16    | 43   | 23    | 18    | 2               | 7               | 69     | 5   | 8      | 9    |
| IsoL6/11     | 51   | 44  | 57    | 74   | 10    | 61    | 32              | 5               | 20     | 11  | 12     | 31   |
| IP23         | 75   | 63  | 55    | 38   | 32    | 29    | 27              | 7               | 15     | 52  | 2      | 4    |
| EA13/03      | 72   | 27  | 30    | 31   | 45    | 67    | 6               | 9               | 19     | 8   | 22     | 1    |
| PA8          | 21   | 17  | 2     | 66   | 8     | 44    | 47              | 61              | 34     | 40  | 55     | 9    |
| $\pi$ TC13   | 33   | 27  | 38    | 67   | 44    | 49    | 61              | 45              | 1      | 16  | 20     | 8    |
| HTBH38/08    | 76   | 77  | 39    | 70   | 40    | 37    | 47              | 25              | 5      | 21  | 8      | 3    |
| NHTBH38/08   | 72   | 70  | 43    | 75   | 37    | 39    | 42              | 38              | 3      | 21  | 15     | 13   |
| NCCE30       | 65   | 57  | 46    | 56   | 33    | 19    | 39              | 8               | 2      | 10  | 22     | 3    |
| AE17         | 57   | 73  | 60    | 59   | 70    | 22    | 17              | 16              | 1      | 5   | 21     | 23   |
| ABDE13       | 51   | 38  | 57    | 69   | 36    | 41    | 34              | 10              | 9      | 19  | 33     | 14   |
| HC7/11       | 48   | 11  | 67    | 49   | 37    | 7     | 35              | 19              | 1      | 6   | 12     | 9    |
| 3dAEE8       | 47   | 32  | 20    | 44   | 54    | 27    | 66              | 18              | 17     | 41  | 1      | 12   |
| 4dAEE5       | 23   | 12  | 35    | 27   | 24    | 51    | 63              | 58              | 70     | 62  | 1      | 30   |
| pEE5         | 19   | 30  | 11    | 6    | 56    | 66    | 28              | 69              | 40     | 50  | 42     | 35   |
| DC9/12       | 62   | 60  | 46    | 55   | 33    | 40    | 36              | 21              | 7      | 2   | 8      | 16   |
| 2pIsoE4      | 47   | 36  | 73    | 58   | 31    | 43    | 48              | 18              | 16     | 13  | 20     | 1    |
| 4pIsoE4      | 50   | 28  | 75    | 37   | 38    | 51    | 49              | 29              | 40     | 23  | 68     | 12   |
| S6x6         | 69   | 38  | 60    | 55   | 28    | 8     | 45              | 1               | 5      | 13  | 20     | 2    |
| NGDWI21      | 79   | 18  | 66    | 44   | 17    | 27    | 46              | 40              | 21     | 51  | 3      | 2    |
| MR-TMD-BE3   | 16   | 29  | 50    | 12   | 59    | 1     | 19              | 56              | 75     | 46  | 25     | 31   |
| SMAE3        | 67   | 65  | 62    | 45   | 49    | 21    | 15              | 24              | 35     | 2   | 6      | 1    |
| MS10         | 54   | 46  | 50    | 29   | 9     | 2     | 18              | 33              | 66     | 35  | 7      | 1    |
| Lowest       | 79   | 77  | 75    | 75   | 70    | 67    | 66              | 69              | 75     | 62  | 68     | 35   |
| Average      | 53   | 43  | 44    | 43   | 34    | 31    | 32              | 26              | 26     | 22  | 17     | 11   |

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The final sentences of Section 6.1 are corrected as follows: “The MN15 functional gives the best average ranking, which is 11, with MN15-L being second with an average ranking of 17. The average ranking of the other functionals in the table is in the range of 22–53. Furthermore, every other functional in the table has at least one ranking of 62 or lower, whereas MN15 ranks lower than 35th in none of the 28 categories and lower than 25th in only four. MN15-L also ranks lower than 25th in only four categories; M06, M06-2X, and  $\omega$ B97X-D rank lower than 25th in 9–11 categories each; M06-L and  $\tau$ -HCTHhyb rank lower than 25th in 18 categories; and the other functionals in the table rank lower than 25th in 21–24 categories”.

In the last sentence of the first paragraph of Section 7, “9” should be “11”.

The Royal Society of Chemistry apologises for these errors and any consequent inconvenience to authors and readers.

