### Table S2. Relevant information of the selected GEO series dataset

| GEO datasets | Platform  | Sample | Total (N) | Country | Year |
|--------------|-----------|--------|-----------|---------|------|
| GSE13195     | GPL5175   | GC     | 25        | China   | 2009 |
|              |           | Non-GC | 25        |         |      |
| GSE13911     | GPL570    | GC     | 38        | Italy   | 2008 |
|              |           | Non-GC | 31        |         |      |
| GSE26899     | GPL6947   | GC     | 96        | USA     | 2016 |
|              |           | Non-GC | 12        |         |      |
| GSE27342     | GPL5175   | GC     | 80        | USA     | 2011 |
|              |           | Non-GC | 80        |         |      |
| GSE29272     | GPL96     | GC     | 134       | USA     | 2013 |
|              |           | Non-GC | 134       |         |      |
| GSE33335     | GPL5175   | GC     | 25        | China   | 2012 |
|              |           | Non-GC | 25        |         |      |
| GSE37023     | GPL96     | GC     | 112       | Singapore | 2012 |
|              |           | Non-GC | 39        |         |      |
| GSE54129     | GPL570    | GC     | 111       | China   | 2017 |
|              |           | Non-GC | 21        |         |      |
| GSE63089     | GPL5175   | GC     | 45        | China   | 2014 |
|              |           | Non-GC | 45        |         |      |
| GSE64591     | GPL570    | GC     | 63        | USA     | 2015 |
|              |           | Non-GC | 31        |         |      |
| GSE65801     | GPL14550  | GC     | 32        | China   | 2015 |
|              |           | Non-GC | 32        |         |      |