|  |  |
| --- | --- |
| Type of DNA methylation assessment  | Number of interventional studies |
| Global | 23 |
| Gene specific | 18 |
| Genome wide | 9 |
| Global, Gene specific  | 7 |
| Global, genome wide | 1 |
| Genome wide, gene specific | 1 |
| Genome-wide, global and gene specific | 1 |

 Supplementary Table 1: Number of trials according to different types of DNA methylation assessment

Supplementary Table 2: Number of trials according to DNA methylation assessment technique

|  |  |  |
| --- | --- | --- |
|  | DNA methylation assessment technique | Number of interventional studies |
| 1 | [3H] methyl acceptance assay | 9 |
| 2 | Sequenom’s MassARRAY EpiTyper | 7 |
| 3 | PyroMark Q24 | 6 |
| 4 | HumanMethylation450 BeadChip | 5 |
| 5 | Methylation Specific PCR (MSP)-Q | 5 |
| 6 | Liquid chromatography–mass spectrometry | 4 |
| 7 | PSQ HS 96 | 4 |
| 8 | PSQ 96 MA | 3 |
| 9 | Epigenetic Sequencing Methylation (ESME) | 2 |
| 10 | Illumina's Infinium Bead Array (27K) | 2 |
| 11 | LUMA | 2 |
| 12 | MassARRAY | 2 |
| 13 | MethylFlash | 2 |
| 14 | MethyLight | 2 |
| 15 | Pyromark Q96 ID | 2 |
| 16 | PyrosequncingTM | 2 |
| 17 | 3H deoxyCTP | 1 |
| 18 | 3H-cytosine extension assay. | 1 |
| 19 | Agilent 1100 Series liquid chromatograph | 1 |
| 20 | COBRA | 1 |
| 21 | CpG-island 15K microarray, | 1 |
| 22 | EpiTect Fast | 1 |
| 23 | HumanMethylation27 BeadChip | 1 |
| 24 | MBDCap-seq | 1 |
| 25 | MCIp and array hybridization, | 1 |
| 26 | Modified alkaline comet assays | 1 |
| 27 | Phosphoimager | 1 |
| 28 | RLGS assays | 1 |
| 29 | universal bead array system | 1 |
| 30 | UVIband- intensities quantification (DNA SYBR green fluorescence) | 1 |

Supplementary Table 3: Number of trials according to different categories of DNA methylation assessment methods

|  |  |
| --- | --- |
| Categories representing DNA methylation assessment methods | Number of interventional studies |
| Bisulphite sequencing | 17 |
| bisulphite microarray | 7 |
| Enrichment Based  | 6 |
| Bisulphite microarray, Others | 3 |
| Bisulphite sequencing, Enrichment based | 2 |
| Bisulphite sequencing, bisulphite microarray | 2 |
| Others  | 23 |