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| --- | --- |
| **Inclusion** | **Exclusion** |
| Bronchopulmonary Dysplasia determined by concomitant definition | Animal studies: in vivo, ex vivo, in vitro, primary cells, in vitro cell lines |
| Human studies: in vivo, in vitro, primary human cells, in vitro human cell lines | Candidate in vitro or in vivo gene, transcript or protein studies and screens—defined here as < 50 genes, transcripts or proteins investigated |
| Accepted experimental designs in Supp. Table [3](https://www.nature.com/articles/s41598-020-79033-3#Tab2) | Candidate-gene human genetic studies |
|  | < 5 hosts in case group or control group in patient studies |
|  | Meta-analyses, in silico analyses, re-analysis of data published elsewhere |
|  | Insufficient data available or data not retrievable |
|  |  |

Supplementary Table 1 Entry criteria for human studies.

Supplementary Table 2 Entry criteria for non-human mammal studies.

|  |  |
| --- | --- |
| **Inclusion** | **Exclusion** |
| Studies of hyperoxia in neonates | Candidate in vitro or in vivo gene, transcript or protein studies and screens—defined here as < 50 genes, transcripts or proteins investigated |
| Studies of dietary restriction in dams | < 5 case group or control group |
| Animal studies: in vivo, ex vivo, in vitro, primary cells, in vitro cell lines | Meta-analyses, in silico analyses, re-analysis of data published elsewhere |
| Accepted experimental designs in Supp. Table [3](https://www.nature.com/articles/s41598-020-79033-3#Tab2) | Insufficient data available or data not retrievable |
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Supplementary Table 3: Methodologies accepted for inclusion in meta-analysis, associated labels and organism. H = Human, nH = Non-human mammal

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| --- | --- | --- |
| **Accepted methodologies** | **MAIC category** | **Organism** |
| Mass Spectrometry | Mass\_Spec | H, nH |
| Genome Wide Association Study | GWAS | H, nH |
| Microarray | Microarray | H, nH |
| Bulk RNA sequencing | RNAseq | H, RnH |
| Single-cell RNA sequencing | scRNAseq | nH |
| Methylation studies including ATAC-seq | Methylation | nH |
| Exome sequencing | ExomeSeq | H |