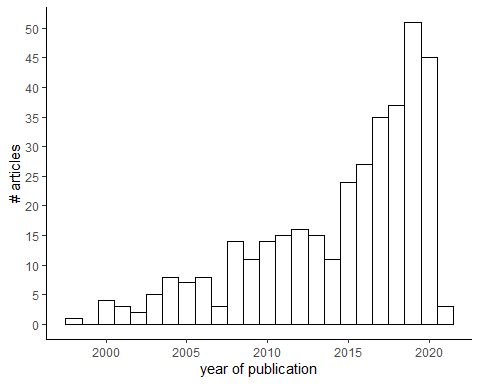
Análises descritivas

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## ── Attaching core tidyverse packages ──────────────────────── tidyverse 2.0.0 ──  
## ✔ dplyr 1.1.4 ✔ readr 2.1.5  
## ✔ forcats 1.0.0 ✔ stringr 1.5.1  
## ✔ ggplot2 3.5.1 ✔ tibble 3.2.1  
## ✔ lubridate 1.9.3 ✔ tidyr 1.3.1  
## ✔ purrr 1.0.2   
## ── Conflicts ────────────────────────────────────────── tidyverse\_conflicts() ──  
## ✖ dplyr::filter() masks stats::filter()  
## ✖ dplyr::lag() masks stats::lag()  
## ℹ Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to become errors

Depois da limpeza, importamos dados de volta para análises.

# Sample description



## Saving 5 x 4 in image

Os artigos foram publicados entre 1998 e 2021

Article-level info:

| Feature | Count | Percent |
| --- | --- | --- |
| Studies testing reversal | 250 | 69.6 |
| Provides sample size calculation | 0 | 0.0 |
| Includes conflict of interest statement | 183 | 51.0 |
| Has pre-registered | 10 | 2.8 |

Número de comparacoes por artigo:

## [1] 1

## [1] 52

## [1] 2

Experiment-level info

Assay

| Assay | n | Percent |
| --- | --- | --- |
| MTT | 1004 | 84.2 |
| WST | 81 | 6.8 |
| CCK-8 | 51 | 4.3 |
| MTS | 32 | 2.7 |
| XTT | 15 | 1.3 |
| Resazurin | 7 | 0.6 |
| EZ4U | 2 | 0.2 |

| Assay | n() | Percent |
| --- | --- | --- |
| MTT | 299 | 83.3 |
| WST | 23 | 6.4 |
| MTS | 17 | 4.7 |
| CCK-8 | 12 | 3.3 |
| XTT | 5 | 1.4 |
| EZ4U | 2 | 0.6 |
| Resazurin | 1 | 0.3 |

Cell line QC

| Cell\_source | n | Percent |
| --- | --- | --- |
| Cell bank | 644 | 54.0 |
| Donation | 82 | 6.9 |
| Unclear | 466 | 39.1 |

| Cell\_source | n() | Percent |
| --- | --- | --- |
| Cell bank | 182 | 50.7 |
| Donation | 17 | 4.7 |
| Unclear | 160 | 44.6 |

| Cell\_bank | n |
| --- | --- |
| American Type Culture Collection (ATCC) | 301 |
| Chinese Academy of Sciences | 43 |
| European Collection of Authenticated Cell Cultures (ECACC) | 192 |
| Institute of Biochemistry and Cell Biology | 7 |
| Invitrogen | 5 |
| Korean Cell Line Bank | 4 |
| LGC Promo-chem | 1 |
| Leibniz Institute DSMZ - German Collection of Microorganisms and Cell Cultures GmbH | 29 |
| National Centre for Cell Science (NCCS) | 15 |
| Pasteur Institute of Iran | 5 |
| Riken Cell Bank | 28 |
| Sigma-Aldrich | 8 |
| The Cell Resource Centre of Institute of Basic Medicine | 1 |
| cells were purchased from Zhong Qiao Xin Zhou Biotec Co., Ltd (Shanghai, China) | 2 |
| NA | 3 |

| Cell\_bank | n() | Percent |
| --- | --- | --- |
| American Type Culture Collection (ATCC) | 109 | 30.4 |
| Chinese Academy of Sciences | 15 | 4.2 |
| European Collection of Authenticated Cell Cultures (ECACC) | 30 | 8.4 |
| Institute of Biochemistry and Cell Biology | 1 | 0.3 |
| Invitrogen | 1 | 0.3 |
| Korean Cell Line Bank | 3 | 0.8 |
| LGC Promo-chem | 1 | 0.3 |
| Leibniz Institute DSMZ - German Collection of Microorganisms and Cell Cultures GmbH | 7 | 1.9 |
| National Centre for Cell Science (NCCS) | 5 | 1.4 |
| Pasteur Institute of Iran | 2 | 0.6 |
| Riken Cell Bank | 3 | 0.8 |
| Sigma-Aldrich | 2 | 0.6 |
| The Cell Resource Centre of Institute of Basic Medicine | 1 | 0.3 |
| cells were purchased from Zhong Qiao Xin Zhou Biotec Co., Ltd (Shanghai, China) | 1 | 0.3 |
| NA | 1 | 0.3 |

| Cell\_authentication | n |
| --- | --- |
| No | 1169 |
| Yes, no protocol | 17 |
| NA | 6 |

| Cell\_authentication | n() | Percent |
| --- | --- | --- |
| No | 357 | 99.4 |
| Yes, no protocol | 2 | 0.6 |
| NA | 1 | 0.3 |

| Cell\_mycoplasma | n | Percent |
| --- | --- | --- |
| No | 1174 | 98.5 |
| Yes, no protocol | 18 | 1.5 |

| Cell\_mycoplasma | n() | Percent |
| --- | --- | --- |
| No | 356 | 99.2 |
| Yes, no protocol | 3 | 0.8 |

Cell culture protocol

| Serum\_type | n | Percent |
| --- | --- | --- |
| FBS | 769 | 64.5 |
| FCS | 234 | 19.6 |
| Unclear | 181 | 15.2 |
| FBS and HS | 3 | 0.3 |
| CS | 2 | 0.2 |
| FCS and FHS | 1 | 0.1 |
| FCS and HS | 1 | 0.1 |
| NO SERUM | 1 | 0.1 |

| Serum\_concentration | n | Percent |
| --- | --- | --- |
| 0.1 | 763 | 64.0 |
| 0.15 | 205 | 17.2 |
| NA | 188 | 15.8 |
| 0.05 | 7 | 0.6 |
| 0.18 | 7 | 0.6 |
| 0.17 | 6 | 0.5 |
| 0.02 | 4 | 0.3 |
| 0.2 | 4 | 0.3 |
| 5% of each | 3 | 0.3 |
| 5% or 10 % | 2 | 0.2 |
| 0.12 | 1 | 0.1 |
| 10% and 5% | 1 | 0.1 |
| 5% and 10% | 1 | 0.1 |

| Serum\_type | Serum\_concentration | n |
| --- | --- | --- |
| FBS | 0.1 | 683 |
| Unclear | NA | 181 |
| FCS | 0.15 | 146 |
| FCS | 0.1 | 78 |
| FBS | 0.15 | 59 |
| FBS | 0.18 | 7 |
| FBS | 0.17 | 6 |
| FCS | 0.05 | 6 |
| FBS | NA | 5 |
| FBS | 0.02 | 3 |
| FBS and HS | 5% of each | 3 |
| CS | 0.1 | 2 |
| FBS | 0.2 | 2 |
| FBS | 5% or 10 % | 2 |
| FCS | 0.2 | 2 |
| FBS | 0.05 | 1 |
| FBS | 0.12 | 1 |
| FCS | 0.02 | 1 |
| FCS | NA | 1 |
| FCS and FHS | 10% and 5% | 1 |
| FCS and HS | 5% and 10% | 1 |
| NO SERUM | NA | 1 |

| Culture\_medium\_corrected | n | Percent |
| --- | --- | --- |
| DMEM\_F12 | 439 | 36.8 |
| DMEM | 375 | 31.5 |
| MEM\_F12 | 118 | 9.9 |
| NA | 101 | 8.5 |
| MEM | 56 | 4.7 |
| RPMI | 47 | 3.9 |
| F12 | 24 | 2.0 |
| EMEM\_F12 | 21 | 1.8 |
| EMEM | 8 | 0.7 |
| OptiMEM | 3 | 0.3 |

| Antibiotics | n | Percent |
| --- | --- | --- |
| yes | 858 | 72.0 |
| NA | 318 | 26.7 |
| no | 16 | 1.3 |

| Glutamine | n | Percent |
| --- | --- | --- |
| yes | 472 | 39.6 |
| no | 460 | 38.6 |
| NA | 260 | 21.8 |

Treatment protocol

| Control\_description | n | Percent |
| --- | --- | --- |
| Unclear | 521 | 43.7 |
| Vehicle | 344 | 28.9 |
| Medium only | 286 | 24.0 |
| Other | 41 | 3.4 |

| Abeta\_sequence | n | Percent |
| --- | --- | --- |
| 1-42 | 963 | 80.8 |
| 1-40 | 217 | 18.2 |
| 1-43 | 10 | 0.8 |
| 1-38 | 2 | 0.2 |

| Abeta\_origin | n | Percent |
| --- | --- | --- |
| Unclear | 616 | 51.7 |
| synthetic | 524 | 44.0 |
| recombinant | 52 | 4.4 |

| Abeta\_species | n | Percent |
| --- | --- | --- |
| Unclear | 955 | 80.1 |
| Human | 232 | 19.5 |
| Rat | 5 | 0.4 |

| Abeta\_aggregation | n | Percent |
| --- | --- | --- |
| Unclear | 535 | 44.9 |
| Oligomers | 462 | 38.8 |
| Fibers | 103 | 8.6 |
| Monomers | 92 | 7.7 |

| Single\_exposure | n | Percent |
| --- | --- | --- |
| Yes, single | 1191 | 99.9 |
| Unclear | 1 | 0.1 |

| Protocol\_variable | Estimate | Data |
| --- | --- | --- |
| Duration of exposure, in hours | n | 1180.00000 |
| Duration of exposure, in hours | mean | 33.15644 |
| Duration of exposure, in hours | sd | 16.82891 |
| Duration of exposure, in hours | median | 24.00000 |
| Duration of exposure, in hours | min | 0.00000 |
| Duration of exposure, in hours | max | 144.00000 |
| Concentration, in uM | n | 1175.00000 |
| Concentration, in uM | mean | 41.53203 |
| Concentration, in uM | sd | 875.40561 |
| Concentration, in uM | median | 10.00000 |
| Concentration, in uM | min | 0.00000 |
| Concentration, in uM | max | 30000.00000 |

Diferenciacao

| Diferentiation\_method | n |
| --- | --- |
| No differentiation | 922 |
| ATRA | 139 |
| ATRA plus | 80 |
| Unclear | 26 |
| Other | 25 |

| Differentiation\_serum\_type | n | Percent |
| --- | --- | --- |
| NA | 922 | 77.3 |
| Unclear | 128 | 10.7 |
| FBS | 120 | 10.1 |
| No serum | 15 | 1.3 |
| FCS | 7 | 0.6 |

| Differentiation\_serum\_concentration | n | Percent |
| --- | --- | --- |
| NA | 922 | 77.3 |
| Unclear | 128 | 10.7 |
| 10% | 41 | 3.4 |
| 1% | 29 | 2.4 |
| 2% | 18 | 1.5 |
| 0 | 15 | 1.3 |
| 5% | 9 | 0.8 |
| 3% | 8 | 0.7 |
| 0.1 | 7 | 0.6 |
| 2.5% | 6 | 0.5 |
| 0.5% | 5 | 0.4 |
| 0.01 | 3 | 0.3 |
| 0.02 | 1 | 0.1 |

| Differentiation\_serum\_type | Differentiation\_serum\_concentration | n |
| --- | --- | --- |
| NA | NA | 922 |
| Unclear | Unclear | 128 |
| FBS | 10% | 41 |
| FBS | 1% | 28 |
| FBS | 2% | 16 |
| No serum | 0 | 15 |
| FBS | 5% | 9 |
| FBS | 3% | 8 |
| FBS | 0.1 | 7 |
| FBS | 2.5% | 6 |
| FCS | 0.5% | 4 |
| FBS | 0.01 | 3 |
| FCS | 2% | 2 |
| FBS | 0.02 | 1 |
| FBS | 0.5% | 1 |
| FCS | 1% | 1 |

| Differentiation\_medium | n | Percent |
| --- | --- | --- |
| NA | 922 | 77.3 |
| DMEM\_F12 | 111 | 9.3 |
| Unclear | 96 | 8.1 |
| DMEM | 38 | 3.2 |
| MEM | 7 | 0.6 |
| MEM\_Neurobasal | 6 | 0.5 |
| N2 | 5 | 0.4 |
| Neurobasal | 4 | 0.3 |
| MEM\_F12 | 2 | 0.2 |
| RPMI | 1 | 0.1 |

| Differentiation\_antibiotics | n | Percent |
| --- | --- | --- |
| NA | 943 | 79.1 |
| Unclear | 183 | 15.4 |
| yes | 66 | 5.5 |

| Differentiation\_glutamine | n | Percent |
| --- | --- | --- |
| NA | 943 | 79.1 |
| Unclear | 190 | 15.9 |
| yes | 38 | 3.2 |
| no | 21 | 1.8 |

| Protocol\_variable | Estimate | Data |
| --- | --- | --- |
| Duration of differentiation, in days | n | 222.000000 |
| Duration of differentiation, in days | mean | 6.576577 |
| Duration of differentiation, in days | sd | 3.193743 |
| Duration of differentiation, in days | median | 6.000000 |
| Duration of differentiation, in days | min | 1.000000 |
| Duration of differentiation, in days | max | 14.000000 |
| Concentration of RA, in uM | n | 218.000000 |
| Concentration of RA, in uM | mean | 9.209404 |
| Concentration of RA, in uM | sd | 3.419787 |
| Concentration of RA, in uM | median | 10.000000 |
| Concentration of RA, in uM | min | 0.000000 |
| Concentration of RA, in uM | max | 20.000000 |

Reporting

| Feature | Count | Percent |
| --- | --- | --- |
| Describes cell source | 726 | 60.9 |
| Describes cell authentication | 17 | 1.4 |
| Describes mycoplasma testing | 18 | 1.5 |
| Control group is clear | 671 | 56.3 |
| Describes Abeta sequence | 1192 | 100.0 |
| Describes Abeta origin | 576 | 48.3 |
| Describes Abeta species | 237 | 19.9 |
| Describes Abeta aggregation | 657 | 55.1 |
| Has single exposure | 1191 | 99.9 |
| Describes duration of Abeta exposure | 1180 | 99.0 |
| Describes concentration of Abeta | 1175 | 98.6 |