|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Cell R=1 | Period A (s) | Period R (s) | Average A | Average R | Lagtime (s) |
| ODE | 24.99 | 24.99 | 211.42 | 396.05 | 6.5 |
| Gillespie | 24.12 ±4.72 | 24.81 ± 1.76 | 231.99 ± 15.76 | 406.56 ± 14.24 | 6.63 ± 0.17 |
| PDE | 24.99 | 24.99 | 210.65 | 395.74 | 7 |
| PDE fixed promoter | 24.99 | 24.99 | 292.99 | 594.86 | 7 |
| Smoldyn | 21.99±6.32 | 22.49 ± 4.02 | 285.03 ± 44.34 | 420.82 ± 30.19 | 6.71 ± 0.17 |
| Smoldyn fixed promoter | 20.84 ± | 23.16 ± 4.01 | 269.99 ± 16.83 | 429.80 ± 49.90 | 6.81 ± 0.20 |
| Cell R=5 | Period A (s) | Period R (s) | Average A | Average R | Lagtime (s) |
| ODE | 33.33\* | 28.56\* | 118.05 | 53.47 | 10.5\* |
| Gillespie | 26.29±13.81 | 27.85±14.47 | 138.99±9.13 | 61.18±3.29 | 11.40±6.83 |
| PDE | 33.33\* | 28.56\* | 117.41 | 53.48 | 11\* |
| PDE fixed promoter | 33.33\* | 24.99\* | 116.3957 | 83.3324 | 10\* |
| Smoldyn | 25.26±3.18 | 20.86±4.94 | 166.85±16.68 | 70.95±7.76 | 17.16±12.71 |
| Smoldyn fixed promoter | 27.30±6.75 | 79.99±103.91 | 195.92±42.14 | 80.90±9.86 | 8.33±1.33 |

\*Not periodic.

-The periodicity of signals was calculated using Fourier transform.

-Lagtime was calculated by picking the time that maximizes the cross-correlation of the two time series A and R.