**Supplementary Material**

**Encoding of cerebellar dentate neuron activity during visual attention in rhesus macaques**

Nico A. Flierman1,2#, Sue Ann Koay3#, Willem S. van Hoogstraten2, Tom J.H. Ruigrok2, Pieter R. Roelfsema1,4,5, Aleksandra Badura2\* and Chris I. De Zeeuw1,2\*

1 Netherlands Institute for Neuroscience, Amsterdam, 1105 BA, The Netherlands

2 Department of Neuroscience, Erasmus MC, Rotterdam, 3015 CN, The Netherlands

3 Janelia Research Campus, Howard Hughes Medical Institute, Ashburn, VA 20174, USA

4 Department of Integrative Neurophysiology, VU University, Amsterdam, 1081 HV, The Netherlands

5 Department of Psychiatry, Academic Medical Centre, Amsterdam, 1105 AZ, The Netherlands

# These authors contributed equally to this work.

\***Correspondence**:

Aleksandra Badura ([a.badura@erasmusmc.nl](mailto:a.badura@erasmusmc.nl))

Department of Neuroscience, Erasmus MC

Wytemaweg 80, 3015 CN Rotterdam

tel: 0031-(0)10 7043589

Chris I De Zeeuw ([c.de.zeeuw@nin.knaw.nl](mailto:c.de.zeeuw@nin.knaw.nl))

Netherlands Institute for Neuroscience

Meibergdreef 47,1105 BA, Amsterdam

tel: 0031-(0)20- 5665500

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Mo** | | | | |
|  | | Gap L/R n-1 | Gap U/D n-1 | Sac n- 1 |
| LR | R | 0.27 | 0.03 | 0 |
| p | **0.03** | 0.47 | 0.98 |
| UD | R | 0 | 0.07 | 0 |
| p | 0.93 | 0.3 | 0.97 |
| **Mi** | | | | |
|  | | Gap L/R n-1 | Gap U/D n-1 | Sac n- 1 |
| LR | R | 0 | 0.05 | 0.32 |
| p | 0.86 | 0.37 | **0.016** |
| UD | R | 0.02 | 0.11 | 0.13 |
| p | 0.59 | 0.19 | 0.16 |

***Supplementary File 1.*** *Regression analyses applied to the data from Supplementary Figure1. Only two of the regression models do significantly better than a constant model (F-test, highlighted in bold). Both of those do not survive a Bonferroni correction (α = 0.0083 for 0.05/6 test per monkey).*