Role of the chemokine SDF-1 as the meningeal attractant for embryonic cerebellar neurons

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Supplemental Methods (Figure 2)

For (**a**) to (**g**), embryonic EGL explants were co-cultured with aggregates of control or SDF-1 expressing HEK cells[1]. For (**h**) to (**n**), embryonic and postnatal EGL explants were co-cultured with collagen blocks containing proteins. E17 was chosen because normal inward EGL migration has not occurred in rats at that stage whereas inward migration has started by P0.

For the statistical analysis of EGL responses in (**g**), 61 explants were used for control HEK cells, 20 for HEK cells expressing RANTES and 80 for HEK expressing SDF-1. P/D ratios were calculated from numbers of cells in the proximal quadrant divided by numbers of cells in the distal quadrant.

For the statistical analysis of EGL responses toward proteins contained in collagen blocks in (**n**), 18 embryonic EGL explants were used for control blocks, 12 for SDF-1 blocks and 16 for BDNF blocks. For postnatal EGL explants, 10 were used for control blocks, 26 for SDF-1 blocks and 17 for BDNF blocks. SDF-1 may also increase the number of migrating EGL cells, suggesting an effect on cell motility (Y.Z., T.Y. and Y.R., unpublished observations).

1. Zhu, Y., Li, H. S., Zhou, L., Wu, J. Y. & Rao, Y. *Neuron* **23**, 473–485 (1999).