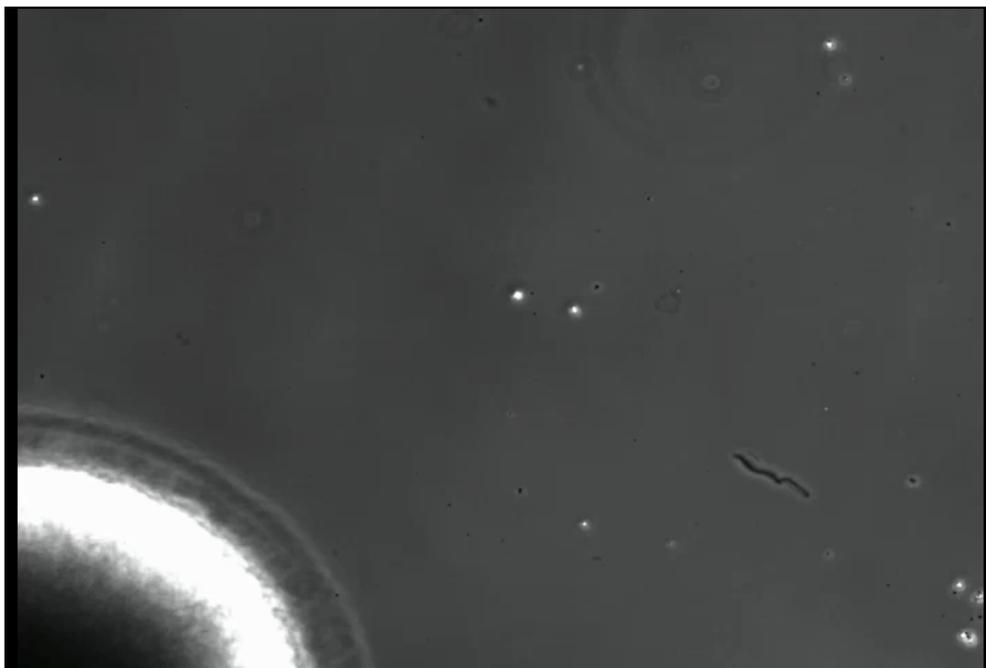
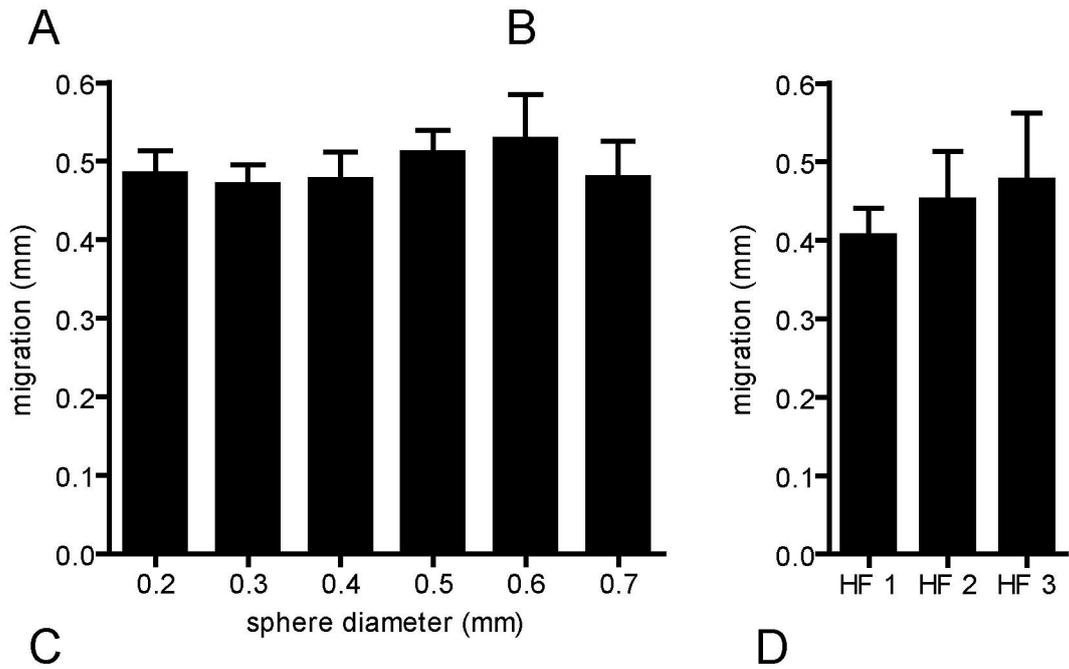
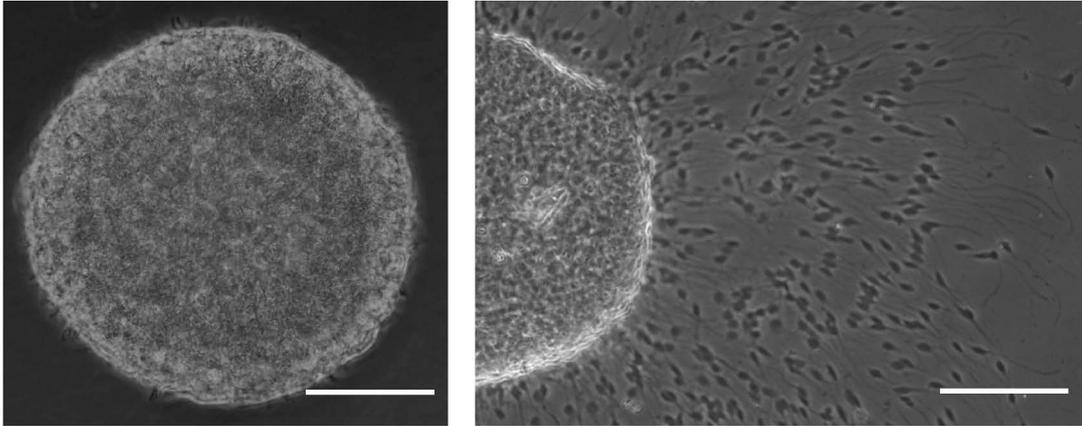


Supplemental Material, Figure 1. Migration of human neural progenitor cells. Migration was initiated under withdrawal of growth factors and plating onto poly-D-lysine/laminin matrices. (A) Phase contrast image of a proliferating neurosphere with a diameter of 0.3 mm. (B) Section of a neurosphere with migrating cells around the border of the sphere (Scale bar: 100 μ m). (C) Migration quantification in dependence on sphere diameter. (D) Comparison of migration behaviour in different neurosphere preparations (HF: human fetus). For quantification, the migration distance was determined at 4 positions/neurosphere 24 hours after plating. Data are shown as mean \pm SD of at least three independent experiments (3-5 spheres/experiment) and tested for statistical significance using ANOVA with the Bonferroni posttest.

Supplemental Material, Figure 2. Living cell analysis of migrating neural progenitor cells. Neurospheres were grown in a Focht Chamber System 2 installed in an inverted light microscope. Images were acquired every 2 minutes. During the first hours, the sphere settles onto the protein matrix. Subsequently, radial migration takes place. During the 24 hours of observation, cells of different morphology and migration speed can be followed. Furthermore, path finding with vast cell-cell- and cell-matrix interactions are visible.



Click image above to play video



Supplemental Material, Figure 1