

## **Migration assay**

Cells (in case of NMuMG cells) are seeded at  $1.5 \times 10^5$  cells/well in six-well tissue culture plates.

After cells reached >80% confluency, a wound is incised with a pipette tip in the central area of culture and 100 pM TGF- $\beta$  or 1.4 nM BMP-4 is added (if necessary).

Photographs are taken under phase-contrast microscopy immediately after the incision, and after 18–24 h of ligand stimulation.

When a wound is incised, an edge of the wound is marked with a thin line on the bottom of each well. After 18–24 h, the migration of wound edges (healing the wound area) from the line is measured at three random points.