

## Supplementary Materials

**Table 1.** Cell culture media compositions utilized for neural induction and differentiation.

<b>I. Neural induction of hiPSC</b>	<b>II. Neural differentiation</b>	<b>III. Proliferation</b>
<p>1 x N2 Supplement (Gibco),      1 x B27 supplement (Gibco),      20% (v/v) Knockout serum replacement      (#10828028, Gibco),      16 ng/mL EGF,      20 µM TGF-β RI kinase inhibitor VI      (SB-431542, #616461),      0.5 µM BMP receptor antagonist      (LDN-193189, #SML0559,      both Sigma-Aldrich, St. Louis, USA).        [+/- ROCK-inhibitor      +/- human FGF – see explanation in      main text]</p>	<p>Basic medium for all steps:      DMEM high glucose/Ham's F12 (2:1      ratio, #31966-021/#31765-027, Gibco),      1 x penicillin/streptomycin (PAN-      Biotech),      ta</p> <p>1 x N2 Supplement (Gibco),      for hiNPC only supplemented with:      1 x B27 supplement (Gibco),      100 U/mL Interferon-γ,      20 ng/mL neurotrophin-3      (both PeproTech, Germany),      300 µM dibutyryl-cAMP,      20 µM ascorbic acid,</p> <p>5 mM creatine monohydrate (all Sigma      Aldrich, St. Louis, USA)</p>	<p>1 x B27 supplement (Gibco),      20 ng/mL human recombinant      epidermal growth factor EGF      (#PHG0313, Gibco),        for hNPC/hiNPC only supplemented      with:      human recombinant FGF (# 233-FB,      20 ng/mL, R&amp;D Systems),</p>