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(71) Applicant: **Max-Planck-Gesellschaft zur**
Förderung der
Wissenschaften e.V.
80539 München (DE)

(72) Inventors:
• **REISCHAUER, Sven**
61231 Bad Nauheim (DE)
• **STAINIER, Didier**
61381 Friedrichsdorf (DE)
• **VILLASENOR, Alethia**
61231 Bad Nauheim (DE)
• **STONE, Oliver Andrew**
61231 Bad Nauheim (DE)

(74) Representative: **Vossius & Partner**
Patentanwälte Rechtsanwälte mbB
Siebertstrasse 3
81675 München (DE)

(54) **MEANS AND METHODS FOR CELL DIFFERENTIATION**

(57) The present invention relates to a method for producing endothelial cells from progenitor cells, said method comprising inducing NPAS4 function in the progenitor cells. The present invention also encompasses a method for producing hematopoietic cells from progen-

itor cells, said method comprising inducing NPAS4 function in the progenitor cells. The present invention furthermore pertains to a method for producing cardiomyocytes from progenitor cells, said method comprising inhibiting NPAS4 function in the progenitor cell.

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