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(71) Applicant *(for all designated States except US)*: **GE HEALTHCARE UK LIMITED** [GB/GB]; Amersham Place, Little Chalfont, Buckinghamshire, HP7 9NA, United Kingdom (GB).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **TATNELL, Peter James** [GB/GB]; GE Healthcare UK Limited, The Maynard Centre, Forest Farm Estate, Whitchurch, Cardiff South Glamorgan CF 14 7YT United Kingdom (GB). **HORTON, Jeffrey Kenneth** [GB/GB]; GE Healthcare UK Limited, The Maynard Centre, Forest Farm, Whitchurch, Cardiff South Glamorgan CF14 7YT United Kingdom (GB).

(74) Agent: **BRYAN, Ian Bennett**; GE Healthcare, Pollards Wood, Nightingales Lane, Chalfont St Giles, Buckinghamshire HP8 4SP United Kingdom (GB).

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(54) **Title**: METHODS FOR PREDICTING THE TOXICITY OF A CHEMICAL

(57) **Abstract**: The invention relates to methods and kits for predicting the effect of a chemical on a developmental pathway. In particular, the invention relates to methods and kits for predicting the toxicity of a chemical on human developmental pathways. The methods and kits of the invention can be used for predicting changes in a cellular biomap or a developmental pathway during human foetal development.