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(71) Applicant: **ILLUMINA CAMBRIDGE LIMITED**
[GB/GB]; 19 Granta Park, Great Abington, United Kingdom, Cambridge Cambridgeshire CB21 6DF (GB).

(72) Inventors: **WU, Xiaolin**; c/o Illumina Cambridge Limited, 19 Granta Park, Great Abington, United Kingdom, Cambridge Cambridgeshire CB21 6DF (GB). **ANAS-TASI, Carole**; c/o Illumina Cambridge Limited, 19 Granta Park, Great Abington, United Kingdom, Cambridge Cambridgeshire CB21 6DF (GB). **EVANS, Geraint**; c/o Illumina Cambridge Limited, 19 Granta Park, Great Abington, United Kingdom, Cambridge Cambridgeshire CB21 6DF (GB). **LIU, Xiaohai**; c/o Illumina Cambridge Limited, 19 Granta Park, Great Abington, United Kingdom, Cambridge Cambridgeshire CB21 6DF (GB).

(74) Agent: **MURGITROYD & COMPANY**; Murgitroyd House, 165-169 Scotland Street, Glasgow Strathclyde G5 8PL (GB).

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(54) Title: METHODS AND COMPOSITIONS FOR NUCLEIC ACID SEQUENCING

(57) Abstract: Embodiments of the present disclosure relate to methods, kits and compositions for two-channel nuclei acid sequencing using blue and violet light excitation (e.g., lasers at 450-460 nm and 400-405 nm respectively). In particular, the nucleotides may be directly labeled with a blue dye, a violet dye, or both a blue dye and a violet dye. Alternatively, one or more nucleotides for incorporation may be unlabeled and affinity reagents containing a blue dye, a violet dye, or both a blue dye and a violet dye may be used to bind specifically to each type of nucleotides incorporated.