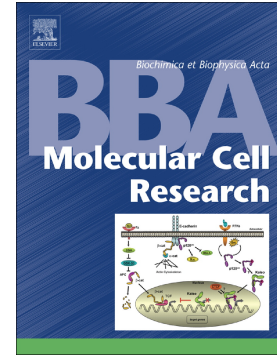


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**Far-red acclimating cyanobacterium as versatile source for bright fluorescent
biomarkers**

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Key words: Biliprotein, fluorescence biomarker, tissue penetration, protein engineering, far-red spectral range

Abbreviations: ApcF, apo-protein of phycobilisome core; BDFP, FR and NIR FP derived from ApcF2; BPhy, bacteriophytochrome; BV, biliverdin; FP, fluorescent protein; FR, far-red; KPB, potassium phosphate buffer; NIR, near-infrared

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