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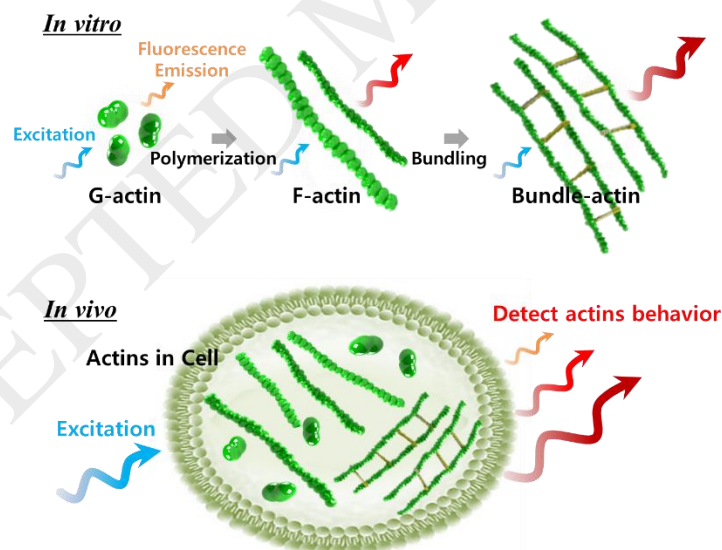
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Graphical abstract



Actin's structure and assembly behavior are determined by light absorption and photoluminescence characteristics under both *in vitro* and *in vivo* conditions.

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