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A simple smartphone-based thermochemiluminescent immunosensor for valproic acid detection using 1,2-dioxetane analogue-doped nanoparticles as a label

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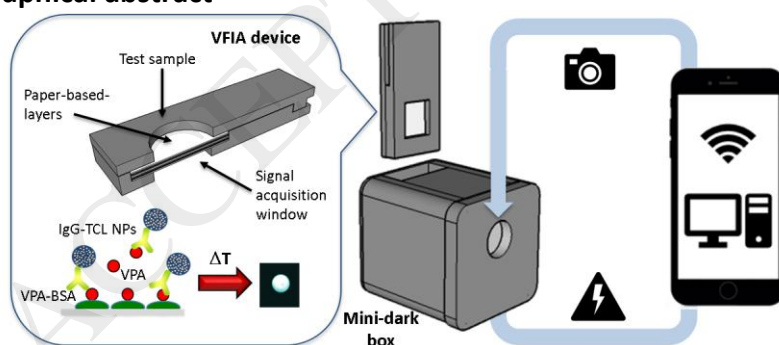
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Graphical abstract



Highlights

- A biosensor based on thermochemiluminescent Vertical Flow Immunoassay was developed
- Smartphone's camera was used as a detector for thermochemiluminescent signals
- Smartphone was used as power supply for triggering thermochemiluminescent reaction

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