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Title: Effects of Ca^{2+} ions on bestrophin-1 surface films

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Highlights

1. hBest1 secondary structure consists of 3_{10} -helices, α -helices, β -turns and loops
2. Ca^{2+} ions induce conformational changes in the hBest1 secondary structure
3. Ca^{2+} ions cause changes in π/A isotherms and hysteresis of hBest1 monolayers
4. Ca^{2+} ions cause oligomerization, molecular and macro-organization in hBest1 films
5. Ca^{2+} -induced functional switch could be related to protein macro-organization

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