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## ‡ Electronic Supplementary Information (ESI): Abbreviations

## Optogenetic modulation of real-time nanoscale dynamics of HCN channels using photoactivated adenylyl cyclases

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BLUF Blue Light Using FAD
cAMP Adenosine 3',5'-cyclic monophosphate
CHD Cyclase Homology Domain
CNBD Cyclic nucleotide binding domain
dSTORM Direct stochastic optical reconstruction microscopy
HCN Hyper polarization-activated cyclic nucleotide
MSD Mean Square Displacement
N2a Neuro-2a
PAC Photoactivated adenylyl cyclases
PALM Photoactivation Localization Microscopy
P2A- Self-cleaving 2A peptide derived from Porcine Teschovirus-1
SPT Single particle tracking
SRRF Super-Resolution Radial Fluctuations
TIRF Total Internal Reflection Fluorescence
T2A- Self-cleaving 2A peptide derived from Thosea asigna virus