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Title:	Investigating the potential role of Cadherin-23 as a Calcium sensor
Authors:	Mishra, Shweta
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Abstract:	Cadherin-23, a non-classical Cadherin protein with twenty seven extracellular domains, is well studied for its role in hearing loss. It is involved in both homophilic and heterophilic interactions depending on the concentration of extracellular Calcium ions. In this thesis we standardise and try to utilise a physical chemistry based technique, to visualise the changes in the transmembrane domain of this membrane spanning protein upon ligand binding. In the scope of this thesis, we also attempt at understanding how this signal is further transmitted to the cell cytoskeleton.
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