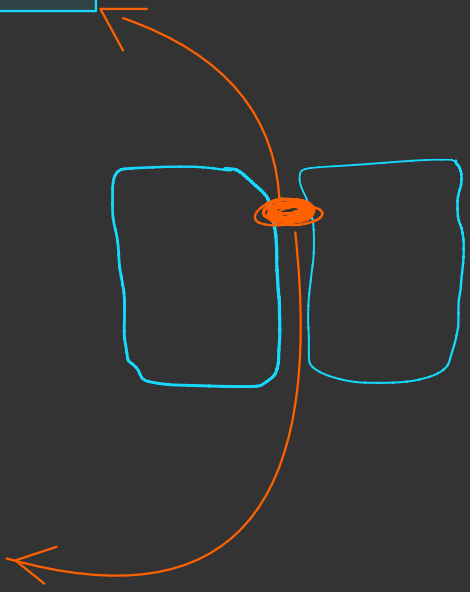
# Tight junctions

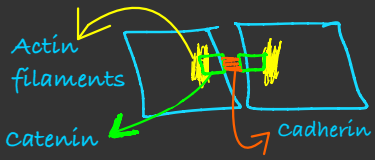
- there's another name for it which is : zonula occludans
- Barrier to para cellular movement
- maintain the polarity
- zonula occludans found near the epical surface
- proteins that form the tight junction is ( claudins / occludins )



# Anchoring

## Adherens

- Another name for it (zonula adherens)
- It is located below the tight junction
- It's mea'n job is attaching two cells together by :
  - *cadherin
  - *catenin

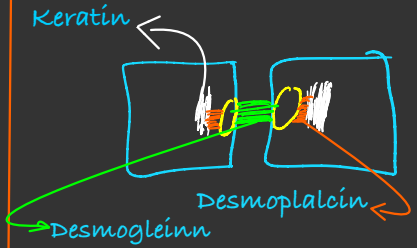



## Desmosomes

- It has two names:
  - * spot Desmosomes
  - * macula aldherens
- It's also located below the tight Junction
- It's job also attaching two sells together by:-

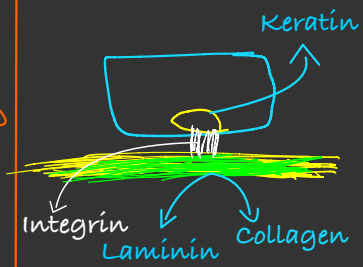
-Cadherin-

Desmogleinn | Desmoplalcin




## Hemi-desmosomes

- It is located at the lowest point on the cell
- It's main job is to connect cells with basement membrane by
  - *keratin : it's found on cells
  - *laminin (glycoprotein) : it is found on basement membrane
  - *collagen : that links with laminin



# Channel forming

- It's main job is to transport molecules between the cells. Why channels
- It's name is gap junction
- This gap made of protein :- connexin
- Six molecules of protein connexin make the channel it's name is :- CONNEXON
- The kind of molecules that these channels transport between cells is :-

1-electrical
2-chemical

The cells