

STUDY NOTES

CHAPTER 4 – CELL MEMBRANES & TRANSPORT

CELL SIGNALLING

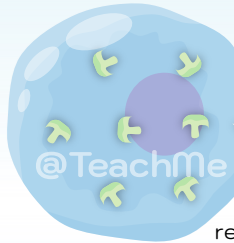
Teach Me

CELL SIGNALLING

Cell Signalling is how cells detect and respond to external stimuli (cell communication)

SOURCE CELL

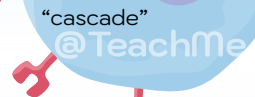
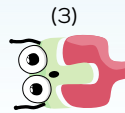
The cell which sends out the signal



A molecule that binds reversibly to another molecule

TARGET CELL

The cell receiving the signal



RECEPTOR

A molecule to which a ligand binds

SPECIFICITY

Each receptor is specifically made for one kind of ligand.



No receptor = No response

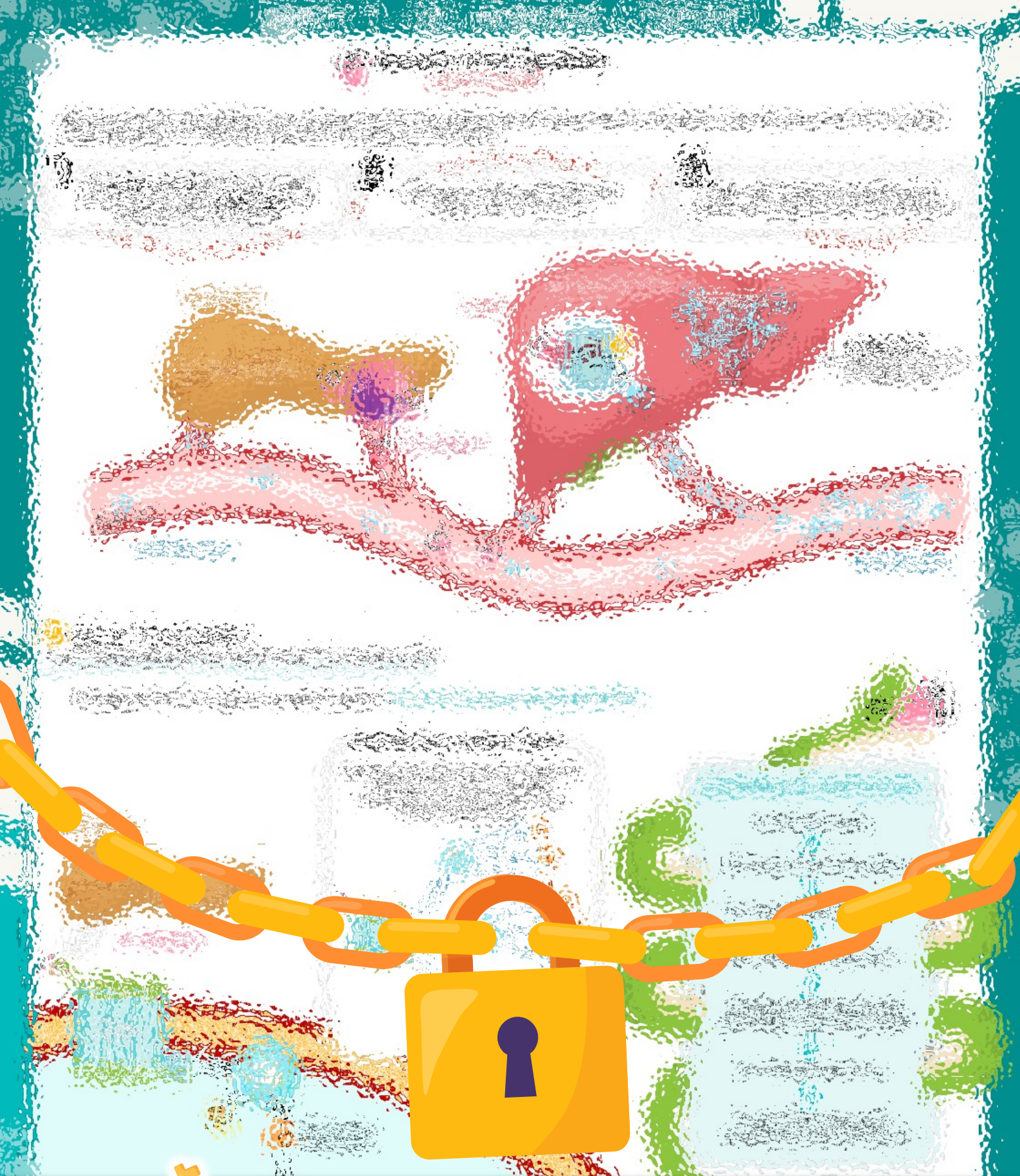
BASIC STEPS:

- 1** A **ligand** is secreted by a cell.
- 2** The ligand is **transported** to a target cell.
- 3** The ligand binds to its **receptor**.
- 4** Signal is **transmitted** to within the cell.
- 5** Specific **consequence** follows (**RESPONSE**).

Signal transduction - Conversion of the original signal to a message the cell can understand.



For full access → [teachmebio.org](https://www.teachmebio.org)



For full access → teachmebio.org

10113

10113



For full access → teachmebio.org

10113