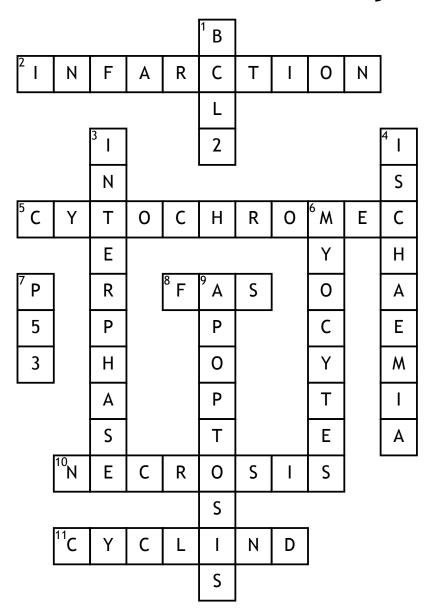
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## Cell life cycle



## <u>Across</u>

- 2. Necrosis of tissue, following ischaemia
- **5.** Mitochondrial inner membranes are loosely bound to this, which is released during apoptosis permeability of mitochondrial outer membrane in order to activate caspase enzymes
- 8. Binding of a ligand to this will induce apoptosis
- 10. Enzymes leak from lysosomes and digest cellular contents; local inflammatory response
- 11. This binds to CDK4 and CDK6, causing them to phosphorylate retinoblastoma protein

## Down

- 1. These proteins induce or inhibit apoptosis, and control apoptosis by regulating the permeability
- 3. G1, S and G2 are the phases of this
- 4. This is the result of impaired vascular perfusion, resulting in loss of nutrients (mainly oxygen)
- **6.** These cannot be replaced to the extent that myocardial infarction occurs
- **7.** A deficiency in this protein can lead to cancer, following DNA damage
- 9. Fragmented, membrane-bound bodies package cell contents