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Answers

Multiple sclerosis: unlocking its evolutionary history

Answers to practice exam questions on pp. 8–11

Martin Rowland

- 1 Displays (foreign) antigen on its surface membrane.
 Stimulates activation of T helper cells.
- 2 Look for repeated base sequences in shorter DNA fragments.
 Align these base sequences to find the new uncommon base sequences.

Can whales get the bends?

Answers to practice exam questions on pp. 16–19

Martin Rowland

- 1 It contracts its internal intercostal muscles, which reduces volume of thoracic cavity.
 (Reduced volume) increases pressure of air in thoracic cavity above that of atmosphere.
- 2 Reduces buoyancy so making diving easier/less energy consuming.
 Reduces uptake of nitrogen into blood so reduces risk of the bends.