

MACRO-STRUCTURE

The Cell's Internal Framework

An elaborate network of filamentous proteinaceous structures present in the cytoplasm.



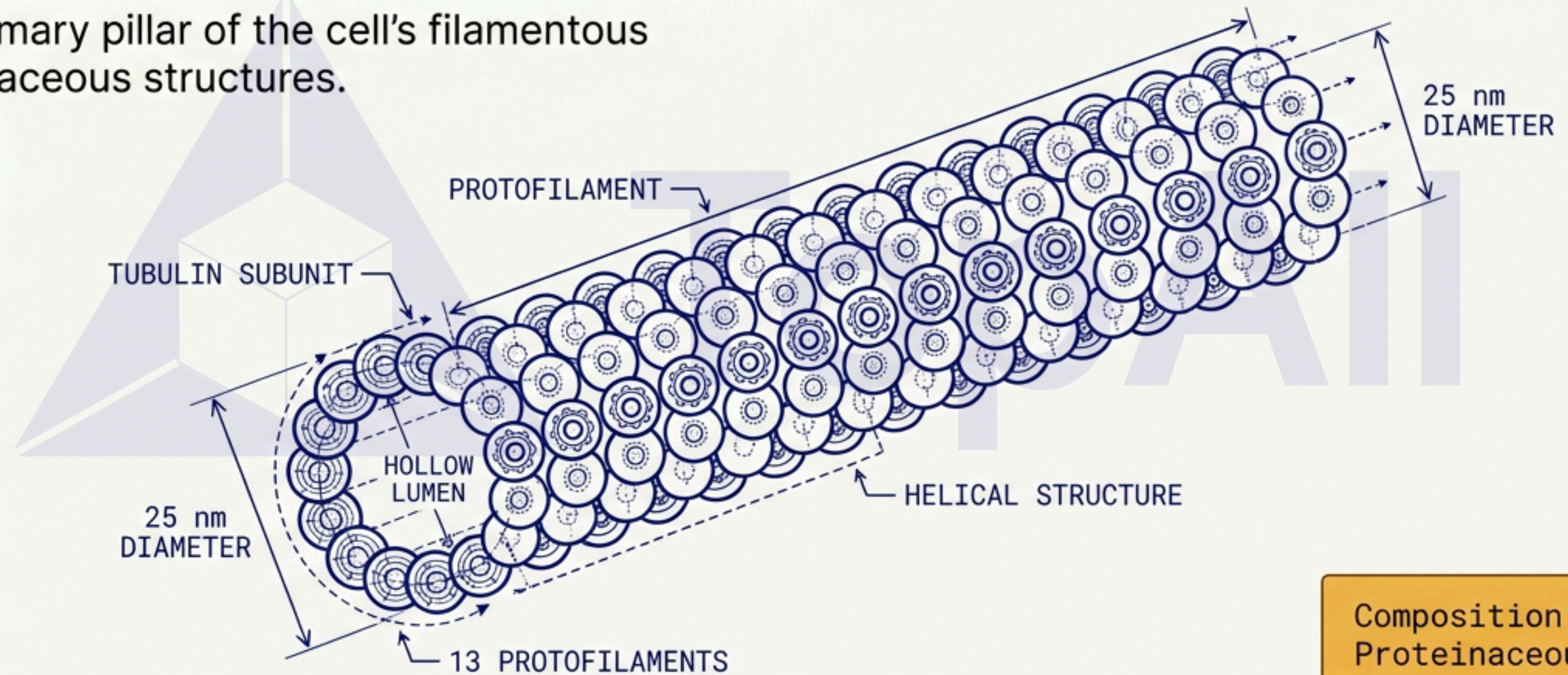
CYTOPLASM

PROTEINACEOUS
NETWORK



Microtubules

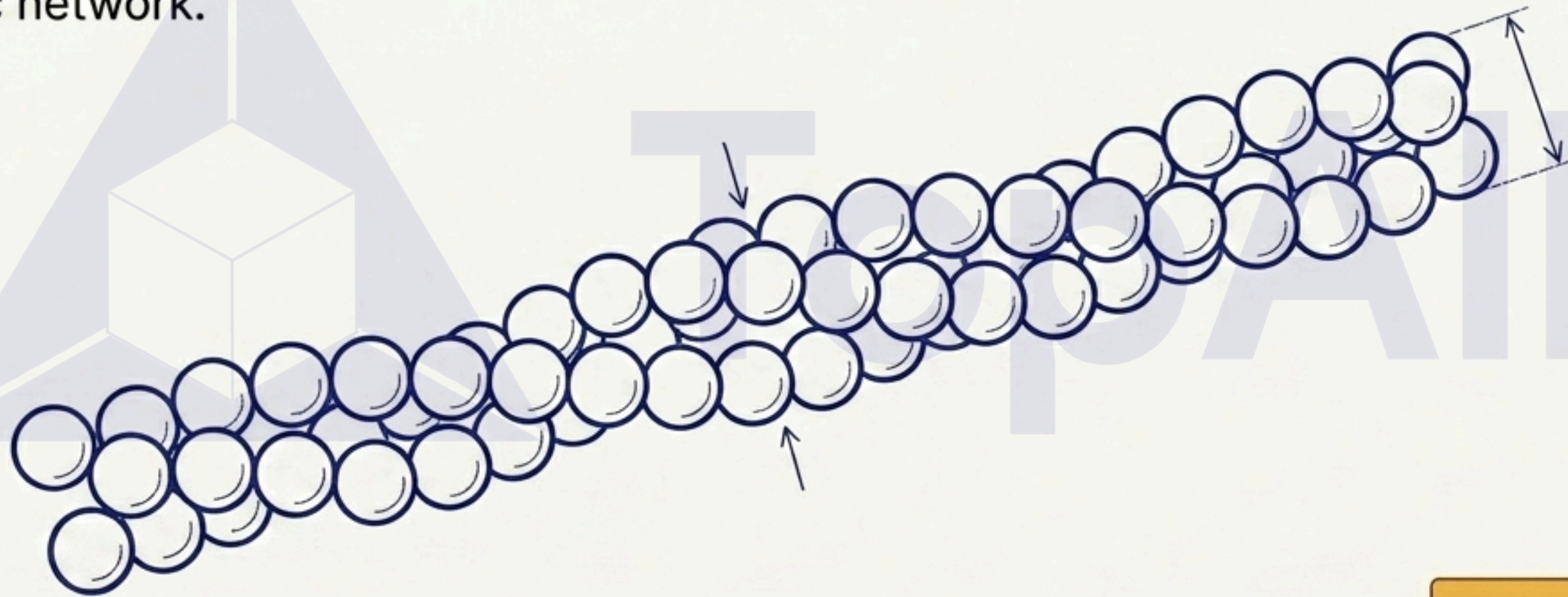
The primary pillar of the cell's filamentous proteinaceous structures.



Composition:
Proteinaceous

Microfilaments

The secondary structural thread within the cytoplasmic network.





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$$E=mc^2$$



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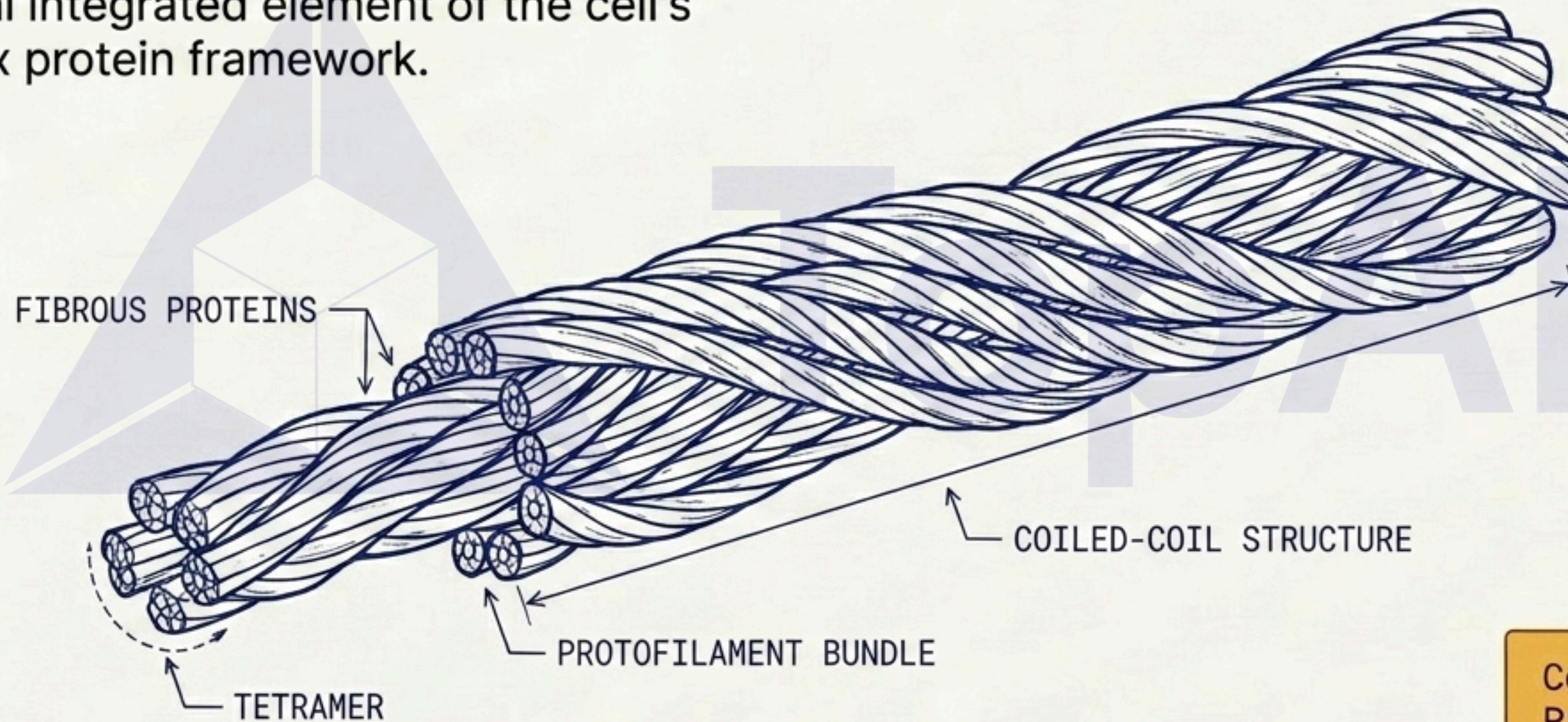
Key Highlights

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Intermediate filaments

The final integrated element of the cell's complex protein framework.

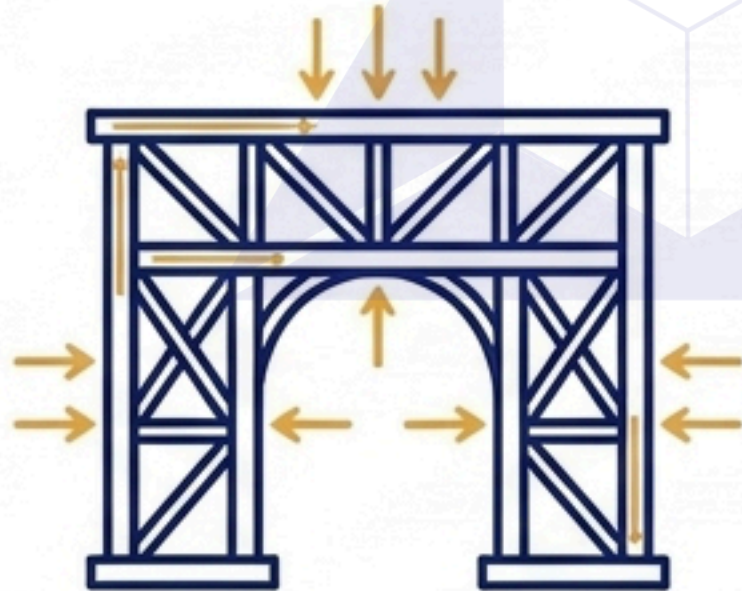


Composition:
Proteinaceous

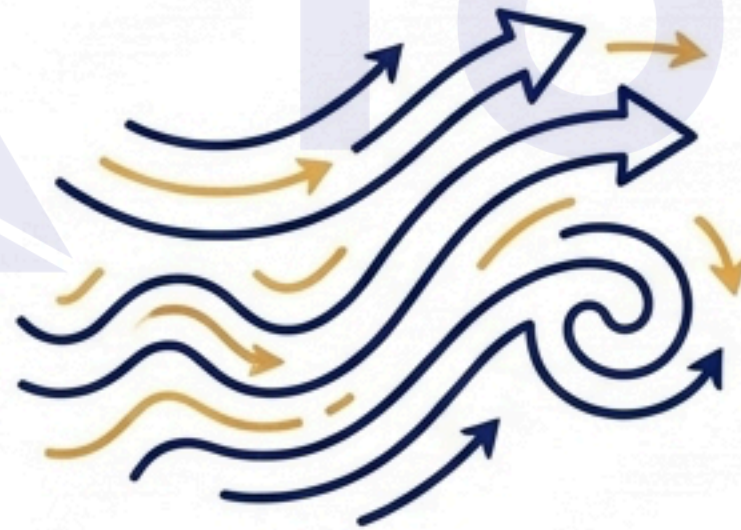
Mechanical support and motility

The cytoskeleton network actively drives three core cellular functions.

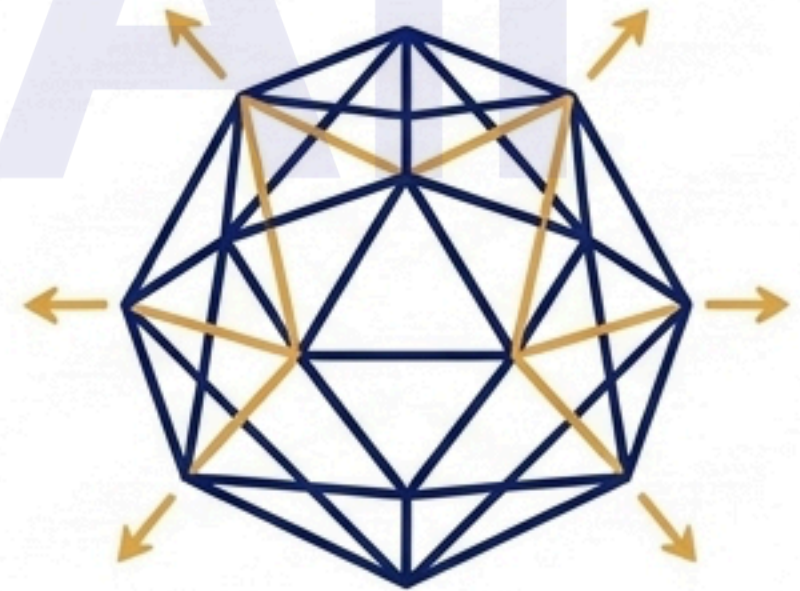
Mechanical Support



Motility



Maintenance of Shape



Key takeaway

The cytoskeleton is an elaborate, proteinaceous network in the cytoplasm that combines three filamentous structures to provide essential mechanical support, motility, and shape.

[MICROTUBULES + MICROFILAMENTS + INTERMEDIATE FILAMENTS] = FORM & FUNCTION



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