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- (A) Myelin sheath is absent at the Nodes of Ranvier , each of which is about 2-3 microns (micrometer) wide.
- ✓ Therefore ionic flow (& consequently flow of ionic currents) can easily take place only at the Nodes of Ranvier .
- (B) Moreover , voltage-gated channels are present only at the Nodes of Ranvier .
- Therefore , APs can develop only at the Nodes of Ranvier → Where

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- (1) ions can relatively easily flow in & out
- (2) there are voltage-gated channels.

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