

- Collateral sprouting; if an axon dies, a nearby axon may sprout additional dendrites to take its place

↳ **Lamanchandran**; rearrangement of the sensory cortex is responsible for phantom limb pain

- The cortex won't receive any signal since the body part is missing but it is still able to function and could remain dormant

◦ **Tom - missing arm**

- Touching his face or upper arm brought about the sensation that his missing arm was being touched.
- Suggests that the area of the cortex has been re-mapped; neurons associated with the amputated limb have connected with those nearby.

◦ **MEG of an amputee**

- Area of cortex originally associated with the amputated limb has vanished but surrounding areas have grown and remapped over it

↳ **Mirror Treatment for phantom limb pain**

- Mirror box is used to create an image of the existing limb
- Since the patient can still control the existing limb, the patient can receive visual feedback if the phantom limb is being controlled so learned paralysis can sometimes be reversed

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