ELECTORECEPTORS

Specialised electro sensitive Calls Collad the electrorecoptors. In teleosts it is well depend. These specialised organs Serve as an additional Sensory System to the ordinary dateral line systeen , and are used to detect electric stimule produced by inarimate Source Such as electric fieled caused by earth magnete field or by other organisms: These electroreceptors are of two types: A Ampullary organs: Consisting of a single or Several ampullere opening to the exterior by a large or short canal. The Sensory Epethelium lies at the bottom of the compula and Consists of hair Cells and Supporting Cells. The ampulla and the caral are filled of Jelly dixo material and are sensitive to weak low frequency potential charge

B Tuberous organs:

This is consisting of an empula withich does not open to the exterior and the sensory colls possess microvilli = tooks like Stereocilia along the long luminal serface. These cells are innervated by an afferent nerve there being no efferent nerve. These cells are sensitive to weak high frequency potential charges

the electrorecaptors vary considerably in their morphology in different species and occurs all over the skin of the fish They are found in both electric and non-electric teleosts both in fresh water and marine fishes. But the types may occur in the same fish but the types tuberous organs are found in electric fishes only. Bling highly sensitive to the electric field they are used in electric communication and electro to coation.