



## **Comparative Anatomy - Respiratory System**

Dr. Girish Chandra

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In this book you find comprehensive information on the respiratory systems of animals, illustrated by beautiful hand-drawn diagrams. Some of the broader topics included in the book are:

Gills and external gills

Air Bladder

Accessary respiratory organs in fishes

Lungs

Sound Producing Organs in Vertebrates

An short excerpt to help you know what to expect: "GILLS OF ELASMOBRANCHS -

Most elasmobranchs possess 5 pairs of gill slits and a pair of spiracles, except that the primitive shark Hexanchus has 6 pairs and Heptanchus 7 pairs of gills plus the usual paired spiracles. Gill slits are lateral in sharks and dogfishes (Pleurotremata) and ventral in skates and rays (Hypotremata). There is no operculum covering the gill slits in cartilaginous fishes. In frilled shark (Chlamydoselachus) skin of each front gill slit covers the posterior gill opening. The anterior and posterior walls of the first four gill chambers carry pretrematic as well as post-trematic demibranchs, while the last gill chamber lacks post-trematic demibranch. A demibranch is a bunch of gill lamellae attached on one side of the interbranchial septum. Hence, there are altogether 9 pairs of demibranchs in elasmobranchs, of which 4 pairs are holobranchs (two demibranchs attached on the anterior and posterior sides of the gill chamber make a holobranch). Between the two demibranchs lies the interbranchial septum, which is supported by gill cartilages. Anterior to the first gill slit is a spiracle or pseudobranch."

The book has been written and the diagrams drawn by entomologist, Dr. Girish Chandra.



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