



# Lehrbuch der Tierphysiologie (German Edition)

*Heinz Penzlin*

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## Lehrbuch der Tierphysiologie (German Edition) Heinz Penzlin

Seit mehr als drei Jahrzehnten ist der "PENZLIN" ein Standardlehrbuch, welches alle Aspekte der Tierphysiologie ausgewogen und gut lernbar für die Studenten der Biologie und verwandter Studiengänge darstellt. Für die jetzt vorliegende 7. Auflage wurde der gesamte Stoff überarbeitet und modernisiert. Die Illustrationen wurden vereinheitlicht, erweitert und durchweg zweifarbig gestaltet. Neben der vergleichenden Tierphysiologie wird der allgemeinen Physiologie, d.h. den molekularbiologischen, biophysikalischen und biochemischen Grundlagen, viel Raum gewidmet. Erstmals wurden für die Bearbeitung einiger Kapitel Spezialisten herangezogen. Der Stoff ist didaktisch gegliedert in die sechs Themengruppen: - Physikalische und chemische Grundlagen des Lebendigen; - Ernährung, Atmung, Zirkulation, Energiestoffwechsel; - Homöostase (Regulation von Stoffgleichgewichten und Temperatur); - Integrative Funktionen des endokrinen, des neuronalen und des Immunsystems; - Sinnesleistungen; - Produktion von Energie, Signalen und Abwehrstoffen.

Völlig neu in der **7. Auflage** sind Abschnitte über: "Stoff- und Energietransfer an Membranen", "Ionenkanäle", "Metabolismus", "Inter- und intrazellulärer Informationstransfer", "Energiehaushalt", "Hormonsystem der Mollusken", "Produktion akustischer Signale" und - erstmalig in einem Lehrbuch der Tierphysiologie überhaupt: "Immunologie der Evertebraten".

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