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**W & W**

## THE BIOLOGY OF RESPIRATION

By *Sir Victor Negus, F.R.C.S., Consulting Surgeon to the Ear, Nose, and Throat Department, King's College Hospital; Trustee of the Hunterian Collection.*

An expertly written monograph recording the personal interpretation of a complex subject, the book discusses the respiratory tract of animals and man from an anatomical and physiological standpoint.

Here are presented the fundamental principles of respiration, without which the interpretation of disordered states is difficult and often impossible.

### CONTENTS BY PARTS:

Respiration in water. The use of gills. Transition to breathing air. Evolution of a respiratory cavity within the body. The mechanics of respiration. Protection of the lungs. Anatomy of the air passages. Elimination of points of friction. Specialized methods of respiration. Hibernation and aestivation. Warming and moistening of air. Respiratory exchanges. Carbonic anhydrase and respiration. Control of respiration. Effects of obstruction in the air passages. Summary of respiratory mechanisms. Tissue metabolism. Illustrations. Glossary. Sources of information. References. Index.

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29-2. American Assoc. of Clinical Chemists, 17th natl., Chicago, Ill. (M. E. Hanke, 8424 Rhodes Ave., Chicago)

29-2. Illuminating Engineering Soc., New York, N.Y. (A. D. Hinckley, 345 East 47 St., New York 10017)

29-3. AAAS, Laurentian Hormone Conf., Mont Tremblant, Quebec, Canada. (J. C. Foss, Laurentian Hormone Conf., 222 Maple Ave., Shrewsbury, Mass.)

29-10. Forest Hydrology, intern. symp., Pennsylvania State Univ., University Park. (W. E. Sopper, School of Forestry, Pennsylvania State Univ., University Park)

30-31. Past and Future of Science, symp., Krakow, Poland. (B. Suchodolski, Polish Acad. of Sciences, Palace of Culture and Sciences, Warsaw)

30-1. Antennas and Propagation, intern. symp., Washington, D.C. (R. J. Adams, Code 5330, U.S. Naval Research Laboratory, Washington 20390)

30-1. Applied Mechanics, West Coast conf., Univ. of California, Los Angeles. (P. M. Naghdi, Div. of Applied Mechanics, Univ. of California, Berkeley 94720)

30-1. Rare Earth Research, 5th conf., Iowa State Univ., Ames. (S. Legvold, Dept. of Physics, Iowa State Univ., Ames)

30-1. Structural Dynamics and Aeroelasticity, conf., Boston, Mass. (F. C. Hung, Space Information Systems Div., North American Aviation, Inc., Downey, Calif.)

30-2. Fluorine Chemistry, 3rd intern. symp., Munich, Germany. (F. Weygand, Inst. für Organische Chemie, Technische Hochschule München, Arcisstr. 21, 8 Munich 2)

30-2. Mathematical Assoc. of America, 46th summer, Cornell Univ., Ithaca, N.Y. (H. M. Gehman, State University of New York at Buffalo, Buffalo 14214)

30-2. Regional Science Assoc., 5th European congr., Krakow, Poland. (H. Wood, Dept. of Regional Science, Univ. of Pennsylvania, Philadelphia 19104)

30-2. American Sociological Assoc., Chicago, Ill. (G. M. Sykes, ASA, 1755 Massachusetts Ave., NW, Washington, D.C.)

30-3. Neuropathology, 5th intern. congr., Zurich, Switzerland. (O. T. Bailey, 912 S. Wood St., Chicago, Ill. 60612)

30-3. Nuclear Materials Management, intern. symp., Vienna, Austria. (J. H. Kane, Div. of Special Projects, U.S. Atomic Energy Commission, Washington, D.C.)

30-3. Society for Applied Spectroscopy, 4th natl., Denver, Colo. (M. W. Skougstad, 215 Hewitt Bldg., Denver 80202)

30-4. Ionization Phenomena in Gases, 7th intern. conf., Belgrade, Yugoslavia. (Organizing Committee, Studentski trg. 16/C/IV, P.O.B. 699, Belgrade)

30-4. Macromolecular Chemistry, intern. symp., Prague, Czechoslovakia. (O. Wichterle, 1888 Petřiny, Prague 6)

30-4. Organometallic Chemistry, 2nd intern. symp., Madison, Wis. (R. West, Dept. of Chemistry, Univ. of Wisconsin, Madison)

30-10. Population, 2nd world conf., Belgrade, Yugoslavia. (United Nations Population Commission, United Nations, New York)

30-10. International Inst. of Refrigeration, symp., Prague and other cities,

Czechoslovakia. (Organizing Committee, Prague 5-Smíchov, Ostrovského 34, Czechoslovakia)

31-11. Information Theory, Statistical Decision Functions and Random Processes, 4th conf., Prague, Czechoslovakia. (F. Hrabal, Foreign Relations Dept., Czechoslovak Acad. of Sciences, Narodni tr. 3, Prague 1)

### September

1-3. American Geophysical Union, 5th western natl. mtg., Dallas, Tex. (AGU, 1145 19th St., NW, Washington, D.C.)

1-3. Metallurgists, 4th annual conf., Ottawa, Ont. (Canadian Inst. of Mining and Metallurgy, 906 Drummond Bldg., 117 St. Catherine St., W., Montreal, Que.)

1-3. Biomedical Aspects of Shock and Vibration Technology, symp., Denver, Colo. (E. R. Wilson, 5745 S. Huron St., Littleton, Colo. 80120)

1-4. Aeronautics, 6th European congr., Munich, Germany. (Wissenschaftliche Gesellschaft für Luft und Raumfahrt, Martinstr. 40-42, 5 Cologne)

1-4. International Assoc. of Gerontology, European Clinical section, 4th congr., San Remo, Italy. (A. Zilli, Viale Morgagnin 85, Florence, Italy)

1-4. Immunological Methods, symp., Chantilly, France. (R. H. Regamey, Intern. Assoc. of Microbiological Societies, Inst. d'Hygiene, 1200 Geneva, Switzerland)

1-4. Society of General Physiologists, 20th annual, Marine Biological Laboratory, Woods Hole, Mass. (R. Milkman, Dept. of Zoology, Syracuse Univ., Syracuse, N.Y. 13210)

1-5. Regional Science Assoc., 5th European congr., Warsaw, Poland. (H. Wood, Dept. of Regional Science, Univ. of Pennsylvania, Philadelphia 19104)

1-8. History of Pharmacy, intern. congr., London, England. (A. L. Short, Pharmaceutical Soc. of Great Britain, 17 Bloomsbury Sq., London W.C.1)

1-9. Physiological Sciences, 23rd intern. congr., Tokyo, Japan. (G. Kato, Dept. of Physiology, Keio Univ. School of Medicine, Shinjuku-ku, Tokyo)

1-14. Cosmical Gas Dynamics, 5th symp., Nice, France. (M. Roy, Intern. Union of Theoretical and Applied Mechanics, 55, boul. Malesherbes, Paris 8<sup>e</sup>, France)

1-17. Algebraic Number Theory, instructional conf., Brighton, England. (R. R. Laxton, Mathematics Div., Physics Bldg., Univ. of Sussex, Brighton)

2-4. American Physical Soc., Honolulu, Hawaii. (K. K. Darrow, The Society, Columbia Univ., New York 10027)

2-5. International Medical Assoc. for the Study of Living Conditions and Health, 4th world congr., Karlovy Vary, Czechoslovakia. (Secretariat, Apolínarská 18, Prague 2)

2-9. German Mineralogical Soc., 43rd, Hanover, Germany. (F. Buschendorf, Mineralogisches Inst., Technische Hochschule Hanover, Welfengarten 1, 3 Hanover)

3-7. American Psychological Assoc., 73rd annual, Chicago, Ill. (The Association, 17th and Rhode Island Ave., NW, Washington, D.C.)

5-7. Water Pollution, 3rd intern. conf.,

Munich, Germany. (B. B. Berger, P.O. Box 1907, Washington, D.C.)

5-8. Federation of French-Speaking Societies of **Gynaecology and Obstetrics**, 21st congr., Lausanne, Switzerland. (P. Bloch, Hôpital Cantonal, Lausanne)

5-8. **Mathematics**, 7th Canadian congr., Quebec, Canada. (The Congress, 985 Sherbrook St. W., Montreal, Que.)

5-9. **Allergology**, 6th European congr., Stockholm, Sweden. (S. Kraepelien, Sachs Children's Hospital, Stockholm)

5-9. **Biochemistry of Lipids**, 9th intern. congr., Noordwijk, Netherlands. (J. Boldingh, Unilever Research Laboratorium, Mercatorweg 2, Vlaardingen, Netherlands)

5-9. **Luminescence**, symp., Munich, Germany. (N. Riehl, Arcisstr. 21, 8 München, Germany)

5-9. International League Against **Rheumatism**, 11th congr., Buenos Aires, Argentina. (A. Caruso, Juncal 1875, Planta Baja, Depto. 2, Buenos Aires)

5-9. Physics and Chemistry of **Scintillators**, intern. luminescence symp., Munich, Germany. (H. Kallman, Radiation and Solid State Laboratory, Dept. of Physics, New York Univ., New York 3)

5-10. International Committee of **Electrochemical Thermodynamics and Kinetics**, 16th mtg., Budapest, Hungary. (S. Lengyel, ELTE Fizikai-Kemial es Radiologiai Tanszek, Puskin u. 11-13, Budapest 8)

5-10. **Electromyography**, intern. mtg., Vienna. (K. Pateisky, Universitats Nervenlinik, 14 Lazarettgasse, Vienna 9)

5-10. **Neurology**, 8th intern. congr., Vienna, Austria. (Congress Office, Vienna Academy of Medicine, Alserstr. 4, Vienna 9)

5-10. Ecology of **Soil Bacteria**, symp., Liverpool, England. (N. A. Burges, Univ. of Liverpool, Hartley Botanical Laboratories, Liverpool)

5-12. **Electroencephalography and Clinical Neurophysiology**, 6th intern. congr., Vienna, Austria. (M. A. B. Brazier, Brain Research Inst., Univ. of California Medical Center, Los Angeles 24)

5-14. **Fertility and Sterility**, 5th intern. congr., Madrid, Spain. (J. Ascenzo Aabello, Parque Meliton Porras, 161, Miraflores, Lima, Peru)

6-9. **Organosilicon Chemistry**, intern. symp., Prague, Czechoslovakia. (Inst. of Chemical Process Fundamentals, Prague-Suchbátka 2)

6-9. **Thermal Analysis**, first intern. conf., Aberdeen, Scotland. (C. B. Murphy, Bldg. 5, General Electric Co., 1 River Rd., Schenectady, N.Y.)

6-10. **Embryology**, 7th intern. conf., Edinburgh, Scotland. (A. S. G. Curtis, Dept. of Zoology, University College London, Gower St., London W.C.1, England)

6-10. **Plasma Physics and Controlled Nuclear Fusion Research**, 2nd conf., Abingdon, England. (H. H. Storhaug, Div. of Scientific and Technical Information, Intern. Atomic Energy Agency, Kärrntner Ring 11, Vienna 1, Austria)

6-10. European Organization for **Quality Control**, 9th conf., Rotterdam, Netherlands. (Secretariat, Weena 700, Rotterdam)

6-10. International Union of Directors of **Zoological Gardens**, annual, Berlin, Germany. (E. M. Lang, Zoologischer Garten, Basel, Switzerland)

6-11. **Electromagnetic Distance Measurement**, symp., London, England. (R. C.

A. Edge, Field Survey, Ordnance Survey, Leatherhead Rd., Chessington, Surrey)

6-11. **Electromagnetic Wave Theory**, Intern. Scientific Radio Union, symp., Delft, Netherlands. (R. Timman, Technological Univ., Julianalaan 132, Delft)

6-11. **Polarization Phenomena of Nucleons**, 2nd intern. conf., Karlsruhe, Germany. (H. Schopper, Institut für Experimentelle Kernphysik, Kernforschungszentrum Karlsruhe, Postfach 947, 75 Karlsruhe)

6-11. Basic Problems in **Thin Film Physics**, intern. symp., Clausthal-Göttingen, Germany. (R. Nossek, Physikalisches Institut, Technische Hochschule, Clausthal)

6-12. International Soc. for Research on **Nutrition and Vital Substances**, Salzburg, Austria. (H. A. Schweigart, The Society, Bemeroderstr., 61, Hanover-Kirchrode, Germany)

6-12. **Photosynthesis**, Western European conf., Zeist, Netherlands. (J. C. Goedheer, Physica Inst., State Univ., Bijlhouwerstraat 6, Utrecht, Netherlands)

6-17. **Cosmic Rays**, 9th intern. conf., London, England. (C. J. Hatton, Physics Dept., Leeds Univ., Leeds 2, England)

6-17. **Equatorial Aeronomy**, 2nd intern. symp., Brazilian Space Commission, São José dos Campos, Brazil. (F. de Mendonca, Comissão Nacional de Atividades Espaciais, São José dos Campos)

6-17. **Laboratory Animal Husbandry**, symp., Dublin, Ireland. (M. L. Conalty, Medical Research Council Laboratories, Trinity College, Dublin 2)

7-9. **Electronic Materials**, conf., San Francisco, Calif. (American Inst. of Mining, Metallurgical and Petroleum Engineers, 345 E. 47 St., New York 17)

7-9. **Internal Friction in Solids**, conf., Manchester, England. (G. M. Leak, Dept. of Metallurgy, Univ. of Manchester, Manchester 13)

7-9. **Minerals**, Soc. of Mining Engineers fall mtg., Phoenix, Ariz. (American Inst. of Mining, Metallurgical and Petroleum Engineers, 345 E. 47 St., New York 17)

7-9. **Biology of Parasites of Veterinary Importance**, World Assoc. for the Advancement of Veterinary Parasitology, 2nd intern. conf., Univ. of Pennsylvania, Philadelphia. (S. M. Gaafar, Dept. of Veterinary Microbiology, Pathology, and Public Health, Purdue Univ., Lafayette, Ind.)

7-10. **Virus and Vector on Perennial Hosts**, intern. conf., Davis, Calif. (B. Hewitt, Dept. of Plant Pathology, Univ. of California, Davis 95616)

7-14. **Acoustics**, 5th intern. congr., Liège, Belgium. (J. Frenkiel, 33 rue St. Gilles, Liège)

8-10. **Automation in Analytical Chemistry**, intern. symp., New York, N.Y. (E. C. Whitehead, Technicon, Research Park, Chauncey, N.Y.)

8-10. **Biochemistry of Copper**, intern. symp., Harriman, N.Y. (J. Peisach, Dept. of Pharmacology, Albert Einstein College of Medicine, Yeshiva Univ., New York 61)

8-10. **Genetics**, Soc. of America, Colorado State Univ., Fort Collins. (R. P. Wagner, Univ. of Texas, Austin)

8-10. **Magnet Technology**, intern. symp., Stanford Univ., Stanford, Calif. (R. H. Moulton, Jr., Stanford Linear Accelerator Center, P.O. Box 4349, Stanford Univ., Stanford)

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