

PHOTOSYNTHESIS

• Priestly (1733-1804) in 1770 used oxygen and revealed of air in growth of plants

Ingenhousz showed sunlight vital to plant process and green plants release O_2

1804, Julius von Sachs provided proof of glucose when plants which is stored as starch

Engelmann split light and chlorophylls grew in of red and blue light

Christiaan van Nieuwlandt studied purple green bacteria where photosynthesis is light-dependent and H_2 from compound oxidises which reduces CO_2 to carbohydrates. Comes from H_2O not from CO_2

H_2O is H donor and H_2S in H donor in green plants purple bacteria

Photosynthesis in chloroplast of eukaryotic cells along the walls of thylakoid system $\rightarrow$ trap light energy $\rightarrow$ (ATP + NADPH) photochemical

Carbohydrates $\rightarrow$ Enzyme synthesis $\downarrow$ Sugars $\downarrow$ form starch

Depend on products of light rxn (NADPH + ATP)

Chl a (bright or blue green)
Chl b (yellow green)

Xanthophylls (yellow)

Carotenoids (y to y-orange)

Necessary pigment protect from oxygen and enable wide range

• Max absorption of chl a in blue light region

Light Reaction

• Light absorption, water splitting, oxygen release
 $\downarrow$
formation of ATP + NADPH

• LHC (Light harvesting complex) made of **PSI** **PSII** hundred of pigments bound to proteins

• Each PS has all pigments except chl a forming an antenna

• Chl a makes green centre
PSI **PSII**
700nm P700 680nm P680

Electron Transport

In **PSII** chl a absorbs red

e^- picked up by acceptor and passed to ETs containing cytochromes (downhill)

e^- pass to **PSI**

excited when 700nm absorbed and passed to green acceptor

e^- move downhill $\rightarrow$ NADPH $_2$ formed
NADP $^+$



$H_2O \rightarrow 2e^- + 2H^+ + [O]$

• water splitting complex associated to **PSII** and **P** located on inner side of membranes of thylakoid

• Synthesis of ATP. Photo-phosphorylation in the of light

• Non-Cyclic — Z-Scheme Both **PSI** and **PSII** function ATP + NADPH $_2$ but membranes of thylakoid

• Cyclic — only **PSI** function in stroma lamellae but only ATP forms while 680nm light used over e^- + transport back no NADPH reduction

• Chemiosmotic Hypothesis ATP synthesis linked to H^+ gradient across membrane

• In mitochondria, H^+ accumulates in intermembrane space mitochondria

• In photosynthesis, H^+ accumulates in thylakoid

• 1 $^{\circ}$ e^- acceptor oxidises H_2O gives e^- to H carrier

• NADPH enzyme on stroma

• In stroma H^+ in thylakoid

• Protons move across stroma membrane using CFP

• ATP Synthase
CFP embedded in thylakoid membrane CFI protrudes out of thylakoid

• Melvin Calvin

use of radioactive ^{14}C by in algae
1st CO_2 fixation product
 $\downarrow$
3-C organic acid

• C₃ Pathway 1st CO_2 fixation 3C (PGA) $\rightarrow$ 1 $^{\circ}$ acceptor 5-C RuBP

• C₄ Pathway 1st CO_2 fixation 4C (OAA) $\rightarrow$ 1 $^{\circ}$ acceptor 3C (PEP)

Short Notes In Physiology

Edwards Crisp



Short Notes In Physiology:

Physiology of the Cladocera Nikolai N. Smirnov, 2017-06-01 *Physiology of the Cladocera* Second Edition is a much needed summary of foundational information on these increasingly important model organisms. This unique and valuable review is based on the world's literature including Russian research not previously widely available and offers systematically arranged data on the physiology of Cladocera assisting with explanation of their life and distribution. It features the addition of new sections and a vast amount of new information such as the latest data on feeding, nutrition, pathological physiology, chemical composition, neurosecretion and behavior as well as hormonal regulation, antioxidants and the biochemical background of effects of natural and anthropogenic factors. Additional expertly updated contributions in genetics and cytology and a new chapter in embryology round out the physiological chapters and provide comprehensive insight into the state of knowledge of Cladocera and their underlying mechanisms. Cladocera crustaceans have become globally studied for many purposes including genetic, molecular, ecological, environmental, water quality, systematics and evolutionary biology research. Since the genome of *Daphnia* was sequenced and published, that system has gained much wider exposure also leading to a rapidly growing awareness of the importance of understanding physiological processes as they relate to evolutionary and ecological genomics as well as ecogenomic toxicology. However, the physiological background on Cladocera has been fragmentary including on the other 700 known species besides *Daphnia* despite the extensive literature on species identification and morphology. This work addresses this issue by collecting and synthesizing from the literature the state of knowledge of cladoceran physiology including discussion on both adequately and inadequately investigated fields and thus directions of future research. Summarizes fundamental information obtained in recent years including on steroids, antioxidants, hormones, nanoparticles and impact of wastewater of pharmaceutical industries. Provides the foundational information needed for scientists and practitioners from a variety of fields including conservation and evolutionary biology, genomics, ecology, ecotoxicology, comparative physiology, limnology, zoology, carcinology and water quality assessment. Features coverage of both Daphniids and representatives of other families with attention drawn to little studied aspects of their physiology especially of those living in the littoral zone. Includes guidance to the literature on cladoceran physiology in four languages. Discusses advantages and shortcomings of Cladocera as experimental animals and indicators of water quality.

Short Notes on Physiology S. K. DATTA (Lecturer in Zoology, University of Allahabad.), 1938

A Manual for the College of Surgeons in London, Dublin, and Edinburgh ... By J. Steggall ... and M. W. Hilles, etc John STEGGALL (and HILLES (Malcolm W.)), 1853

On the Nature and Elements of the External World: Or, Universal Immaterialism Fully Explained and Newly Demonstrated Thomas Collyns Simon, 1862

A Treatise on the Structure, Diseases, and Injuries of the Bloodvessels Edwards Crisp, 1847

The Life of Sir William Osler Harvey Cushing, 1925

The Life of Sir William Osler, Volume 1 Harvey Cushing, 2013-05

William Osler 1849-1919 is widely regarded as one of the most influential physicians of the late 19th

and early 20th century and a key figure in the history of medicine Besides his research activities and his dedicated scientific work Osler s greatest contribution to the medical world has been the system of residency which he developed at the Johns Hopkins Hospital in Baltimore thus introducing a new and deeply humanistic approach to the strictly scientific realm of traditional medicine Harvey Cushing 1869 1939 a former student and close friend of Osler s and a pioneer of neurosurgery has himself become an icon of modern medicine He was one of the first physicians to use X rays for diagnosing brain tumours and he developed revolutionary methods of blood pressure measurement He also discovered Cushing s syndrome the first autoimmune disease identified in a human being This monumental biography earned him the Pulitzer Prize in 1926

Instruction in Chemical Analysis. (Quantitative). Edited by J. L. Bullock C. Remigius Fresenius, 1846 *A Manual for the College of Surgeons in London, Dublin, and Edinburgh, Intended for the Use of Candidates for Examination and Practitioners* John Steggall, 1853 **Index-catalogue of the Library of the Surgeon-General's Office, United States Army** National

Library of Medicine (U.S.), 1908 *Medical Physiology E-Book* Walter F. Boron, Emile L. Boulpaep, 2016-03-29 For a comprehensive understanding of human physiology from molecules to systems turn to the latest edition of Medical Physiology This updated textbook is known for its unparalleled depth of information equipping students with a solid foundation for a future in medicine and healthcare and providing clinical and research professionals with a reliable go to reference Complex concepts are presented in a clear concise and logically organized format to further facilitate understanding and retention Clear didactic illustrations visually present processes in a clear concise manner that is easy to understand Intuitive organization and consistent writing style facilitates navigation and comprehension Takes a strong molecular and cellular approach that relates these concepts to human physiology and disease Student Consult eBook version included with purchase This enhanced eBook experience includes access on a variety of devices to the complete text with thorough hyperlinking images 10 animations and copious linkout notes prepared by the Editors An increased number of clinical correlations provides a better understanding of the practical applications of physiology in medicine Highlights new breakthroughs in molecular and cellular processes such as the role of epigenetics necroptosis and ion channels in physiologic processes to give insights into human development growth and disease Several new authors offer fresh perspectives in many key sections of the text and meticulous editing makes this multi authored resource read with one unified voice **The**

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