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# RADIUM, X RAYS AND THE LIVING CELL

With Physical Introduction



by  
Hector A. Colwell

Forgotten Books

# Radium Xrays The Living Cell With Phys

**Roentgen Society of London**



## **Radium Xrays The Living Cell With Phys:**

Radium, X Rays and the Living Cell Hector Alfred Colwell, Sidney Russ, 1915      *Radium, X Rays and the Living Cell* Hector A. Colwell, 2015-07-21 Excerpt from Radium X Rays and the Living Cell With Physical Introduction Our object in the present book is to describe some of the main experimental facts which have been established as to the effects that the X rays and the rays from radium have upon living cells In order to make the subject generally intelligible a description of the properties of these radiations was necessary and Part I is designed not only to provide information in this respect but to meet the needs of those who approach the subject with a view to experimental investigation A large amount of interest centres around the action which the rays have upon malignant cells and some of the most detailed studies have been made by investigators in this connection The results which have so far been reached are we may venture to hope a good augury for the foundations of a rational basis of radio therapy This however is but one aspect of the effect of the rays upon the living cell and we believe that an increased knowledge of the reactions exhibited by normal healthy cells and tissues is necessary before the real nature of the processes set up by these rays is revealed The subject is not approached from the clinical aspect but data have frequently been selected from the details of clinical observations when these have borne upon the subject matter in question About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books Find more at [www.forgottenbooks.com](http://www.forgottenbooks.com) This book is a reproduction of an important historical work Forgotten Books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy In rare cases an imperfection in the original such as a blemish or missing page may be replicated in our edition We do however repair the vast majority of imperfections successfully any imperfections that remain are intentionally left to preserve the state of such historical works      **Radium, X Rays and the Living Cell, with Physical Introduction** H. A. Colwell, 1915      *Physics of Radioactivity* Noah Ernest Dorsey, 1921      Nature Sir Norman Lockyer, 1916      **X Rays and Crystal Structure** William Henry Bragg, Sir William Lawrence Bragg, 1918      **The Journal of the Röntgen Society**, 1915      *Index Medicus. Third Series*, 1925      *Combined Subject and Author Indexes to Radiobiology Bibliographies* U.S. Atomic Energy Commission. Division of Technical Information, 1967      **The Lancet**, 1914      **Radiation Evangelists** Jeffrey Womack, 2020-03-17 Radiation Evangelists explores X ray and radium therapy in the United States and Great Britain during a crucial period of its development from 1896 to 1925 It focuses on the pioneering work of early advocates in the field the radiation evangelists who motivated by their faith in a new technology trust in new energy sources and hope for future breakthroughs turned a blind eye to the dangers of radiation exposure Although ionizing radiation effectively treated diseases like skin infections and cancers radiation therapists who did not need a medical education to develop or administer procedures or sell tonics containing radium operated in a space of uncertainty about exactly how radiation worked or would affect human bodies And yet radium once a specialized medical treatment would eventually become a consumer health

product associated with the antibacterial properties of sunlight This book raises important questions about medical experimentation and the so called Golden Rule of medical ethics issues of safety and professional identity and the temptation of a powerful therapeutic tool that also posed significant risks in its formative years In this cautionary tale of technological medical progress Jeffrey Womack reveals how practitioners and their patients accepted uncertainty as a condition of their therapy in an attempt to alleviate human suffering

**X-rays and X-ray Apparatus** John Kellock Robertson,1924     **The Medical Herald and Physiotherapist** ,1925     **The London, Edinburgh and Dublin Philosophical Magazine and Journal of Science** ,1916     *The Elements of Physics* Alpheus Wilson Smith,1927     *Journal of Morphology and Physiology* ,1926     *X-rays and Radium in the Treatment of Diseases of the Skin* George Miller MacKee,1921     **Philosophical Magazine** ,1916     *A Comprehensive Treatise on Inorganic and Theoretical Chemistry* Joseph William Mellor,1923     *A Comprehensive Treatise on Inorganic and Theoretical Chemistry: Ra and Ac families, Be, Mg, Zn, Cd, Hg* Joseph William Mellor,1923

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