

Discover the Intriguing Life of Arthur Kornberg: A Pioneer Biochemist and Nobel Laureate



Arthur Kornberg, a name that resonates with greatness in the field of biochemistry, left an indelible mark on the scientific community. As an American researcher and educator, Kornberg contributed significantly to our understanding of DNA replication, ultimately leading to his deserved Nobel Prize in Physiology or Medicine in 1959.

Early Life and Education

Born on March 3, 1918, in Brooklyn, New York, Arthur Kornberg grew up in an environment that fostered intellectual curiosity. His parents encouraged his passion for science from a young age, nurturing his inquisitive nature. Kornberg attended Abraham Lincoln High School, where his scientific prowess quickly became apparent.



Emperor Of Enzymes: A Biography Of Arthur Kornberg, Biochemist And Nobel Laureate

by Errol C Friedberg(Kindle Edition)

★★★★★ 5 out of 5

Language : English

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Word Wise : Enabled

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Kornberg's unwavering determination led him to enroll at City College of New York, where he studied chemistry. It was during his time at City College that his interest in biochemistry truly flourished. Kornberg's insatiable desire for knowledge drove him to excel, leading him to graduate with honors in 1937.

Journey into Biochemistry

Following his undergraduate studies, Kornberg delved deeper into the world of biochemistry. In 1941, he obtained his medical degree from the University of Rochester School of Medicine and Dentistry. It was shortly after receiving his

medical degree that Kornberg enlisted in the United States Army Medical Corps, where his scientific expertise was put to significant use during World War II.

Kornberg's time in the army further solidified his dedication to scientific research. After the war, he joined the Washington University School of Medicine as a faculty member. It was in this esteemed institution that Kornberg began his groundbreaking work on DNA replication, which would later earn him international acclaim.

Making Strides in DNA Replication

In the 1950s, Arthur Kornberg made a groundbreaking discovery that would revolutionize the scientific understanding of DNA replication. Through meticulous experimentation, Kornberg isolated and characterized DNA polymerase, an enzyme responsible for synthesizing new DNA strands based on existing templates.

This discovery had profound implications for various fields, including genetics, medicine, and biotechnology. Kornberg's work provided critical insights into DNA replication, elucidating the complex mechanisms behind it and opening up possibilities for further research and applications.

Awarded Nobel Prize

Arthur Kornberg's noteworthy contributions to biochemistry and DNA replication did not go unnoticed. In 1959, he was awarded the prestigious Nobel Prize in Physiology or Medicine for his discovery of the enzymatic synthesis of DNA.

This honor solidified Kornberg's position as a luminary in the scientific community. His research not only deepened our understanding of DNA replication but also

paved the way for advancements in fields such as genetics, biotechnology, and medicine.

Legacy and Later Life

Following his groundbreaking contributions, Arthur Kornberg continued to make significant strides in the field of biochemistry. He became a professor at Stanford University School of Medicine in 1959, where he furthered his research on nucleic acids.

Kornberg's dedication to science extended beyond his own research. Passionate about education, he mentored numerous aspiring scientists throughout his career, sharing his wealth of knowledge and nurturing the next generation of scientific pioneers.

Arthur Kornberg's legacy continues to inspire and guide scientists around the world. His contributions to the field of biochemistry have opened up new vistas of possibilities and have played an integral role in shaping our understanding of DNA replication and its significance in various disciplines.

Arthur Kornberg's incredible journey from a young boy in Brooklyn to a Nobel Laureate serves as a testament to his unwavering passion for unlocking the mysteries of life. His immense contributions to biochemistry and DNA replication have had a profound and lasting impact on scientific research, elevating him to an iconic status within the scientific community.

As we continue to unravel the complexities of the human genome and strive towards breakthroughs in medicine and biotechnology, Arthur Kornberg's pioneering work remains a beacon of inspiration.



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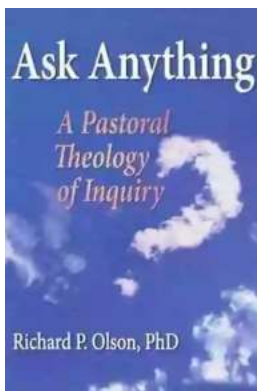
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This book chronicles the life and work of the late Arthur Kornberg, one of the premier biochemists in the world, who discovered the enzyme DNA polymerase, a key enzyme required for the biosynthesis of DNA. The book provides readers with a view of the personality and character of one of the great biochemists of the late 20th century, as well as insights into the origin and growth of the discipline of nucleic acid biochemistry, especially the biosynthesis of DNA. The book consists of 17 chapters that trace the life and work of Arthur Kornberg.



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