## The ASBMB celebrates Women in STEM



Peggy Whitson, a biochemist, becomes the first resident scientist aboard the



and hypertension.

at the Naval Research Laboratory in crystallography. She invented practical applications to prove that the theoretical "direct methods"

woman president of the New York Cancer Society.

leveloped by her husband, Jeron Karle, could analyze the structure of crystals.

1933

1918

1915

1912

1910

1908

1903

Ruth Ella Moore earns a Ph.D. in bacteriology, making her the first Black woman in the U.S. to earn a doctorate in a natural science. She went on to publish work on tuberculosis, dental caries and blood typing.



Alice Ball is hired as the first woman chemistry instructor at University of Hawaii. Ball developed the most effective leprosy treatment at the time using chaulmoogra oil.



Abbie Lathrop begins developing inbred mouse strains, including Black 6 mice, the most commonly used strain of lab mouse.



Alice Hamilton publishes her first paper on industrial medicine. She is credited with transforming the health of industry workers in the U.S. and abroad, especially those poisoned by metals.





Maud Menten and Leonor Michaelis publish their work on how reaction rate is affected by enzyme and substrate concentrations. This relationship is known as the Michaelis-Menten equation.

Marie Curie wins a shared Nobel Prize in physics for the discovery of radioactivity. She then goes on to win a Nobel Prize in chemistry in 1911 for her discoveries of the radioactive elements

radium and polonium.



Mary Stark is the first to publish support for the presence of heritable tumors in Drosophila melanogaster. Because of her work, fruit flies become an invaluable model organism for genetics, including in cancer research.



Mary Engle Pennington becomes chief of the USDA's Food Research Lab. Her research on sanitary methods for perishable food led to the first standards for milk safety and refrigeration of other food products.





Rachel Holloway Lloyd earns a Ph.D. from the University of Zurich, making her the first American woman to earn a doctorate in chemistry.