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FRANCE

AMERICA

APRIL 17, 1996

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ABSTRACTS

Department of Biology

Due to the Apoptotic inhibition of C-Netron in *Drosophila* embryonic neuroblasts

Overexpression of the *hsc70* in the *Drosophila* embryo

Kimberly D. Burnett

Faculty Mentor: Dr. Steve Runge

in the body of *Drosophila* embryos, *hsc70* is a naturally occurring cell death that
is observed in the *Drosophila* embryo. *hsc70* is a member of the *hsp70* family
and is expressed in many tissues, such as the brain, heart, and gut. In the
embryo, *hsc70* is expressed in the neuroblasts, which are the precursors of
the nervous system. The expression of *hsc70* in neuroblasts is regulated by
the *C-Netron* gene, which encodes a transcription factor. Overexpression of
hsc70 in neuroblasts leads to a reduction in the number of neuroblasts
and a corresponding reduction in the size of the nervous system. This
phenomenon is known as *hsc70*-induced neuroblast death. The mechanism
of *hsc70*-induced neuroblast death is not fully understood, but it is thought
to involve the activation of the *p53* pathway. The *p53* pathway is a
key regulator of cell death and is activated in response to DNA damage and
other stressors. In neuroblasts, the *p53* pathway is thought to be activated
by the overexpression of *hsc70*, leading to the activation of the *p53*-
dependent pathway and the subsequent induction of cell death.

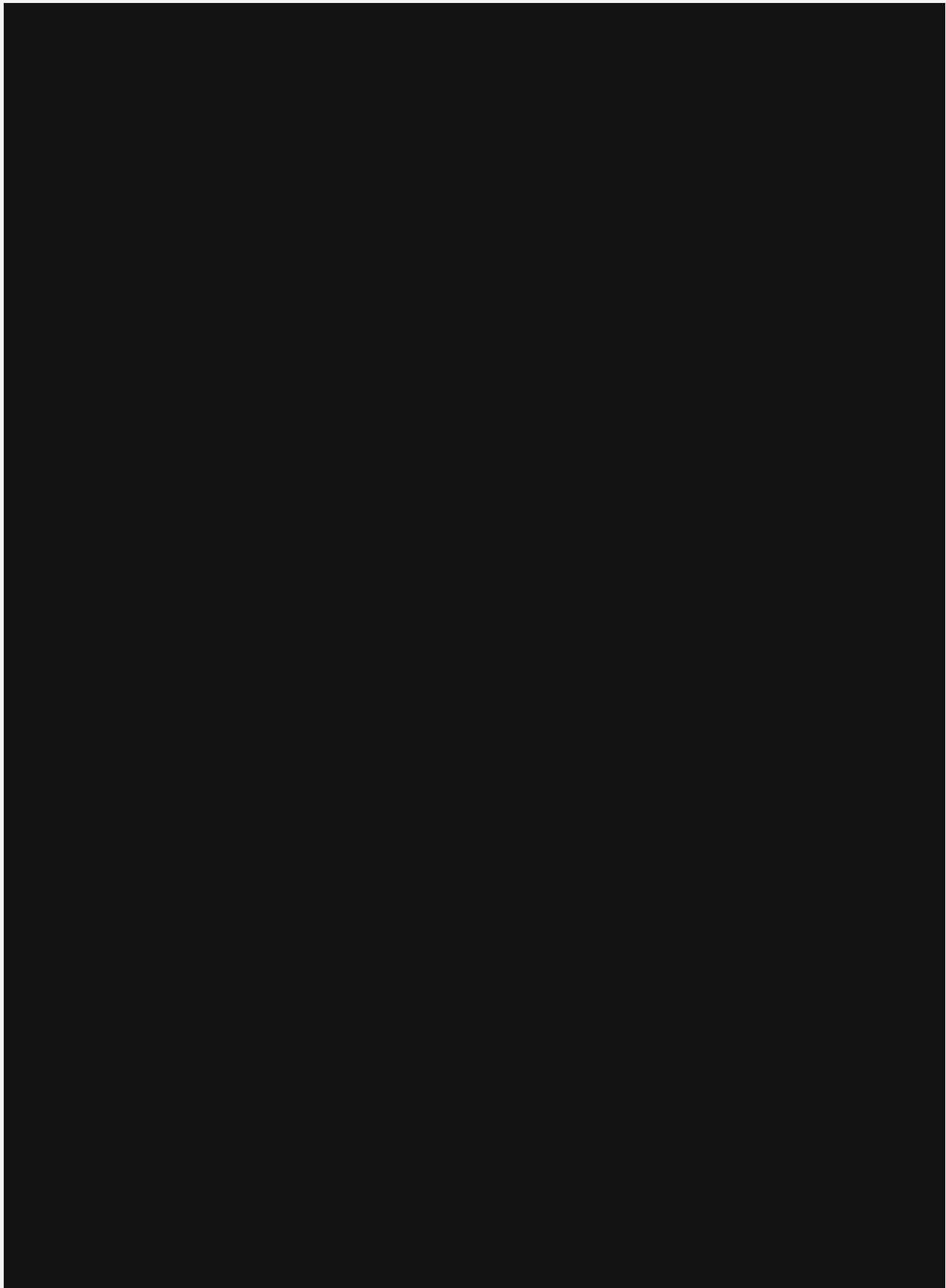
Effect of *hsc70* on *C-Netron* expression in neuroblasts

Janice Danrel

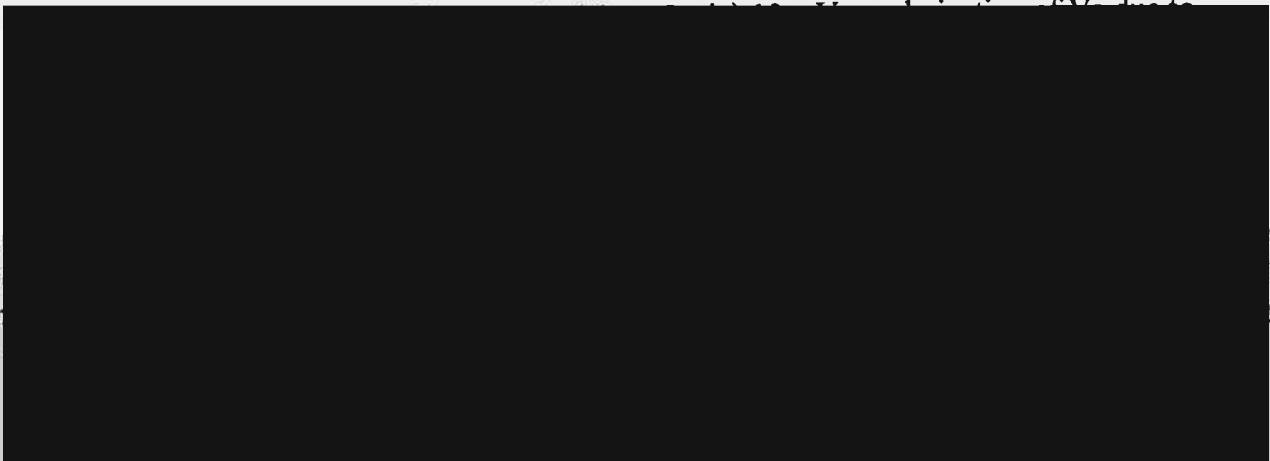
Faculty Mentor: Dr. Mike Moran

Emergency by Nat. Foodies: A lot of food, sugar and amino acids enter the cell, and
the cell is able to use them for energy. The cell is able to use them for energy
because it has a lot of mitochondria. The mitochondria are the powerhouses of
the cell, and they are able to use the food and amino acids to produce energy.
The energy is used for many things, such as moving the cell, growing the cell,
and repairing the cell. The cell is able to use the energy to do all these things
because it has a lot of mitochondria. The mitochondria are the powerhouses of
the cell, and they are able to use the food and amino acids to produce energy.
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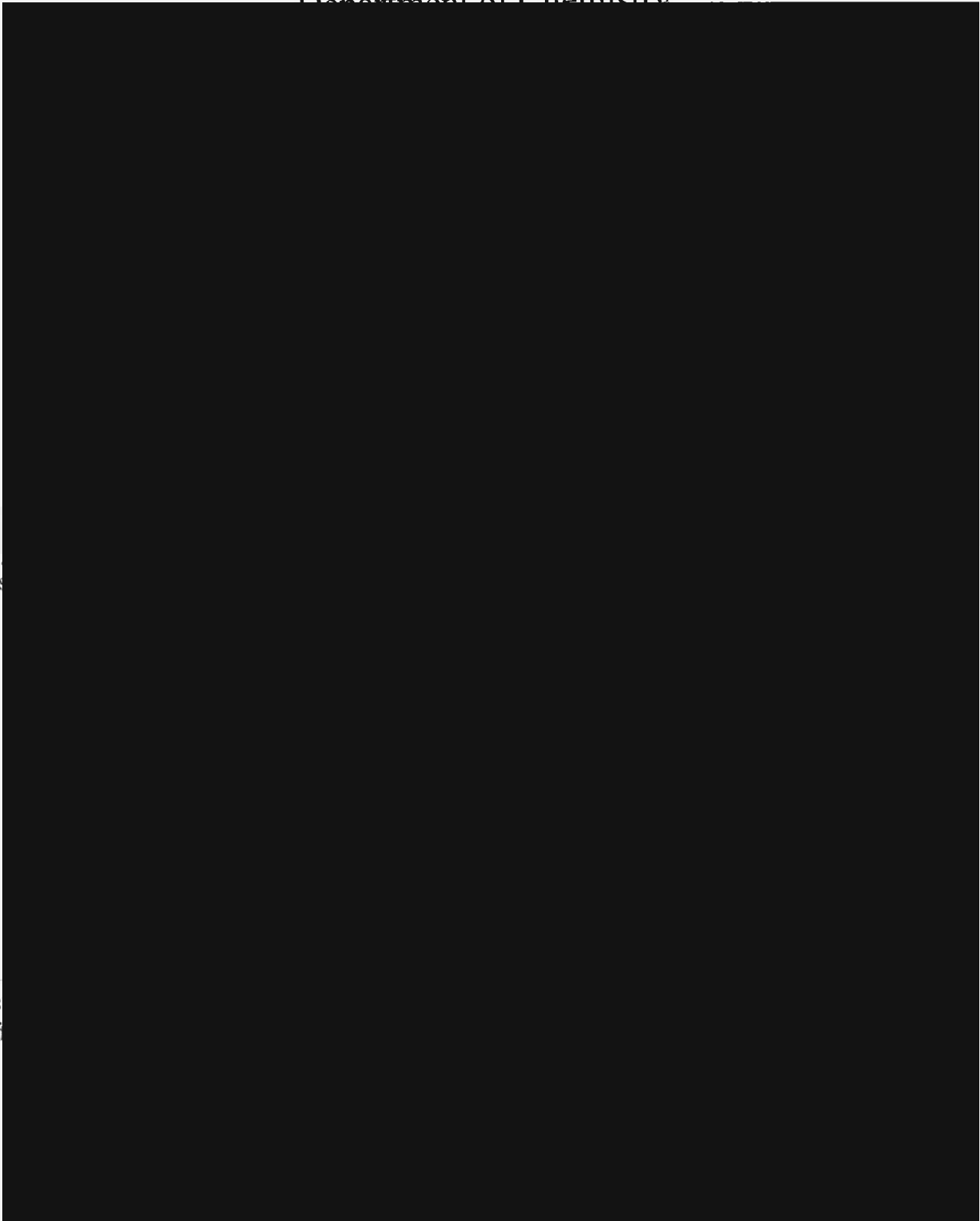


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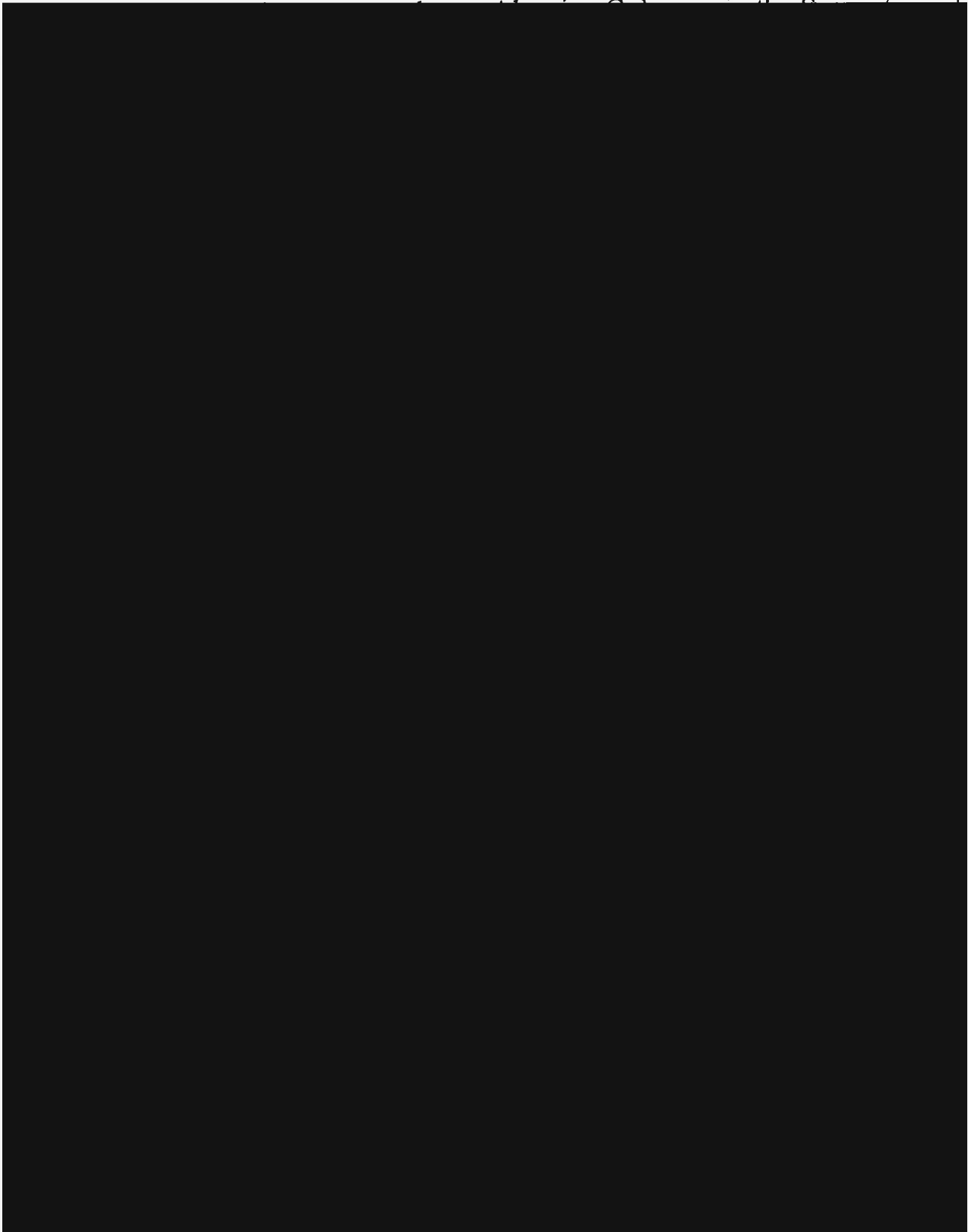
Department of Chemistry

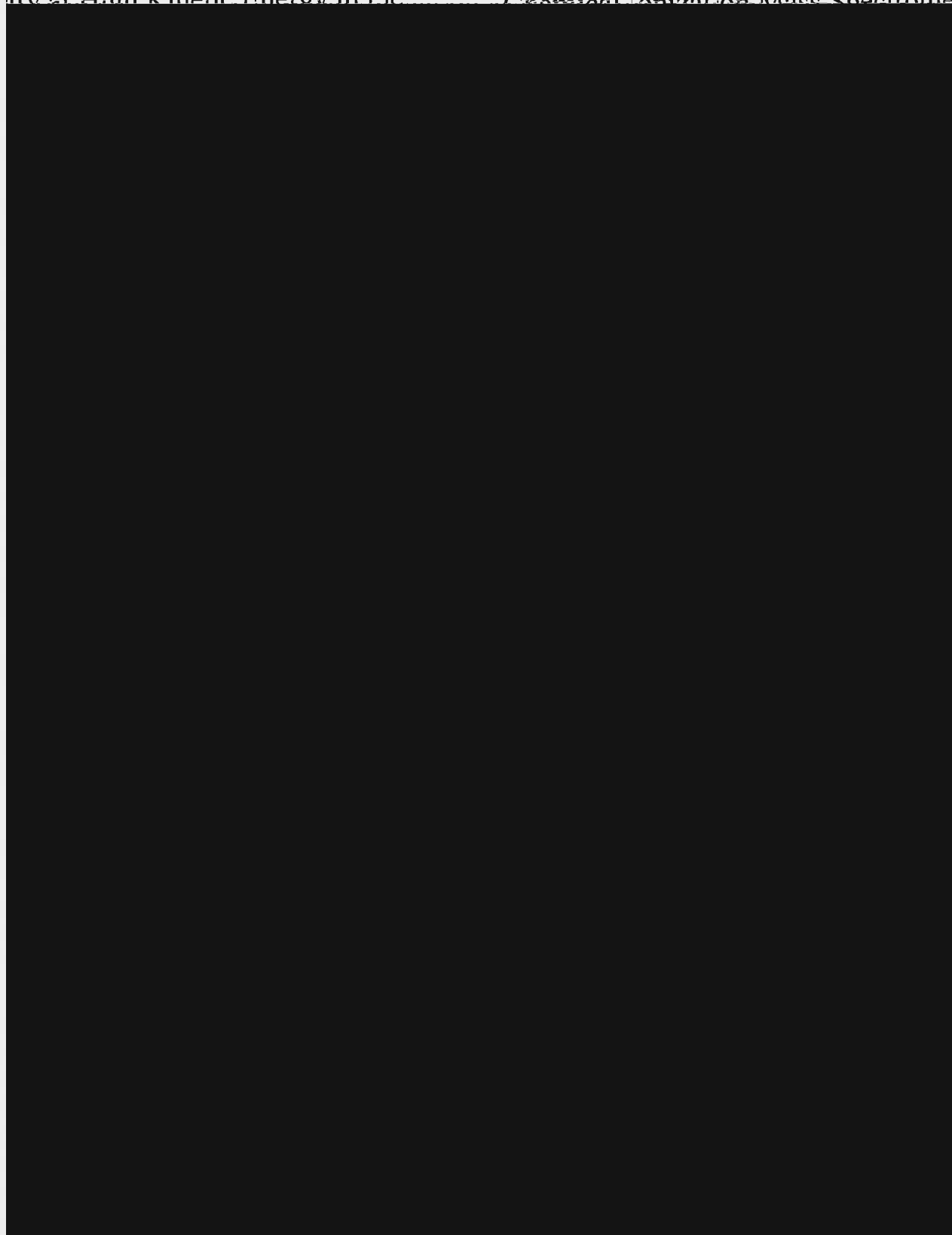


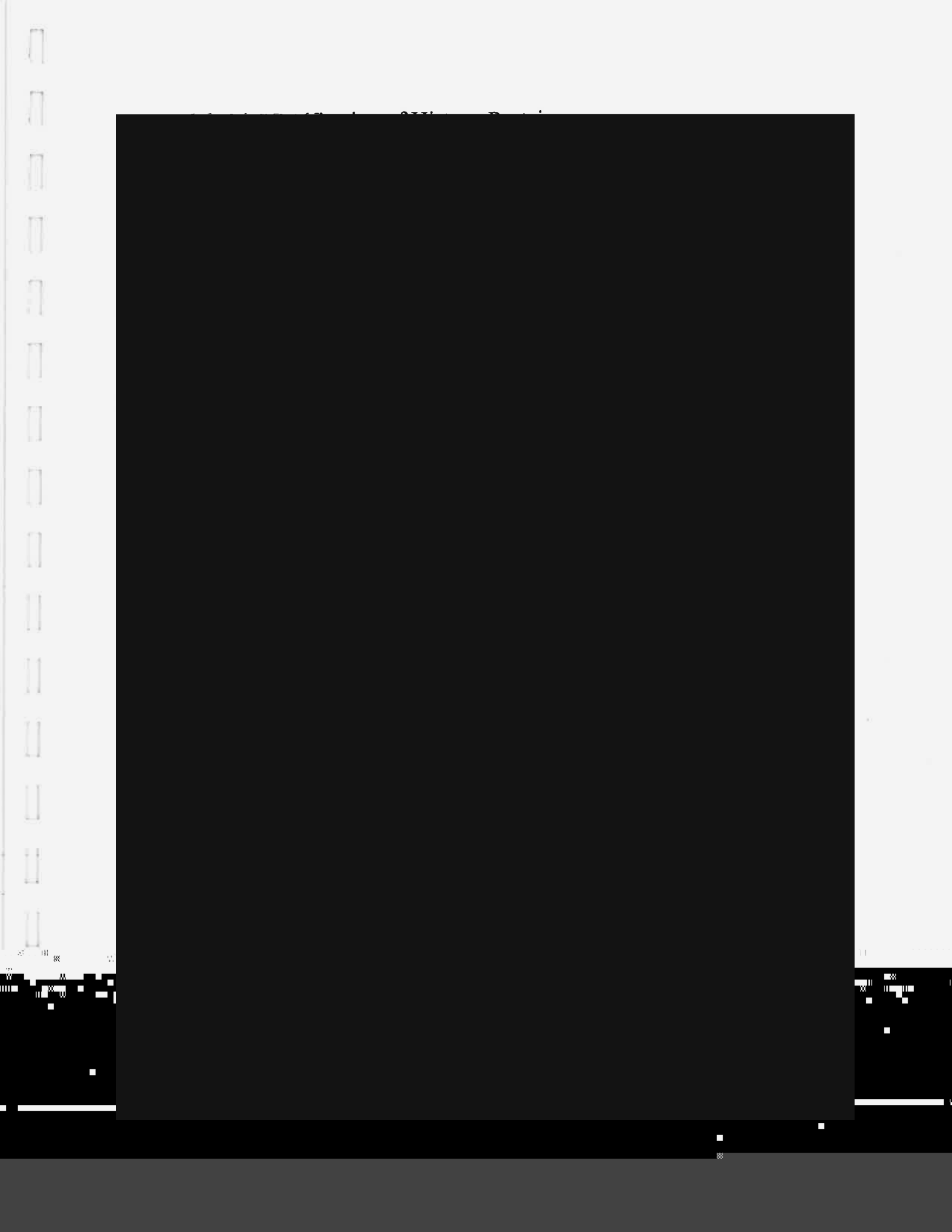
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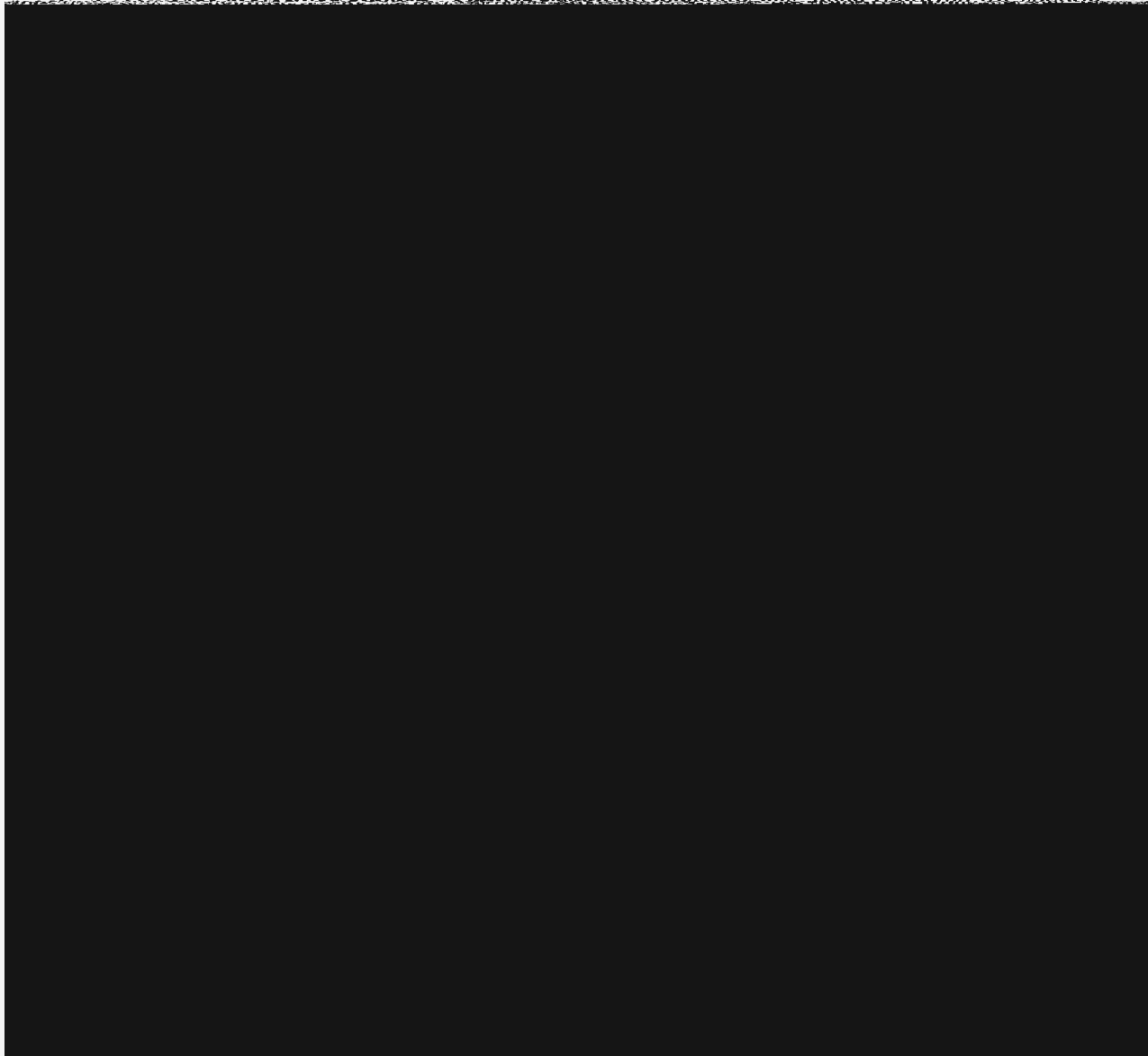
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Similar sensitivity behavior has been reported for several



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Department of Physics and Astronomy

Investigation of the Fluorescence of the γ Rays from the ^{238}U Decay Series

Author: Dr. Rahul Mehra
Faculty Member: Dr. [Name]

We explored the use of ^{238}U in determining the composition of the meteorite. ^{238}U and ^{235}U were used to measure the activity of the ^{238}U decay series with a ^{20}Tl and ^{20}Pb window. The activity of the ^{238}U decay series was determined by measuring the number of photons through the detector. The activity of the ^{238}U decay series was determined by measuring the number of photons through the detector.

