

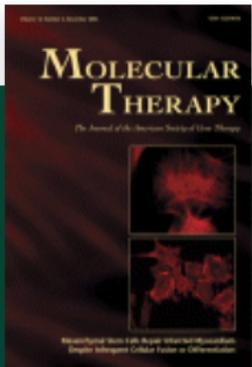


Hematology Journal Club

A Nuclear Long Non-Coding RNA LINC00618 Accelerates Ferroptosis in a Manner Dependent upon Apoptosis

**Advised by
Dr. Ahmad Fatemi**

**Presented by:
Mohammad Hosein
Ashoob**



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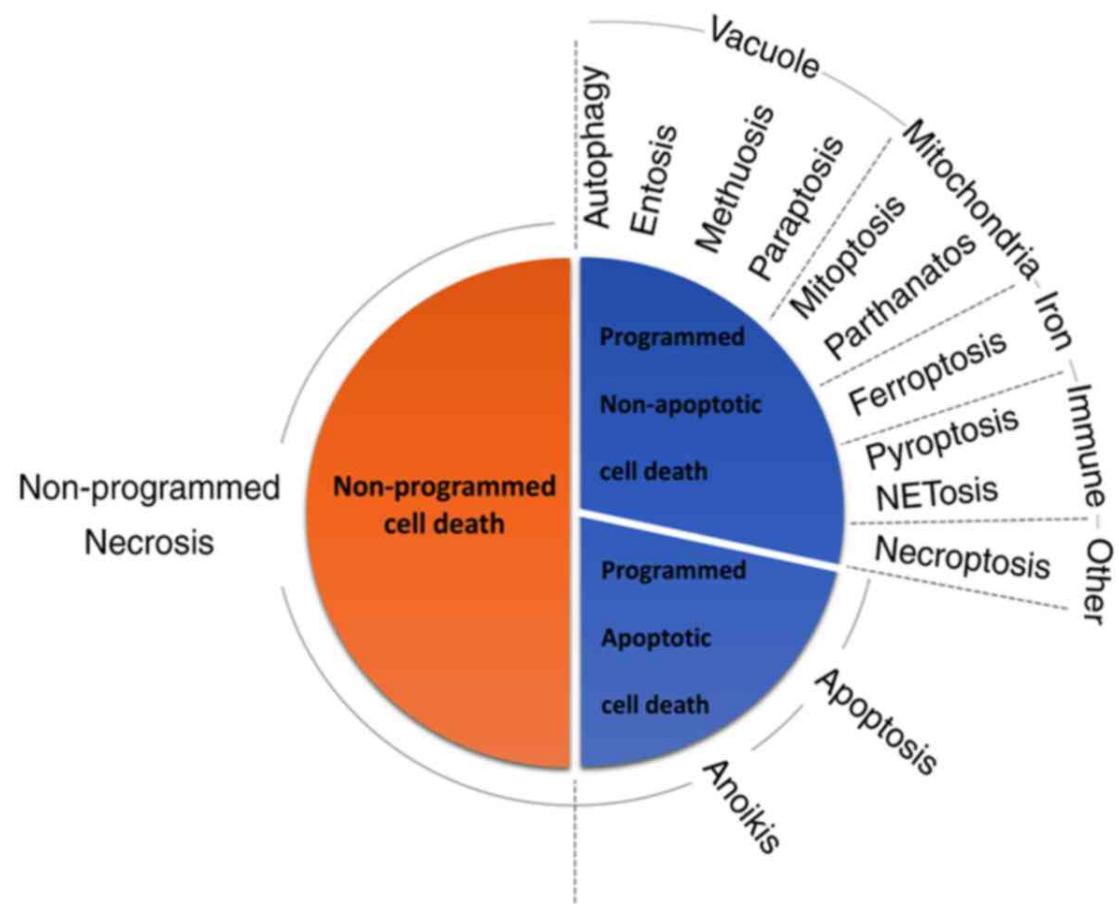
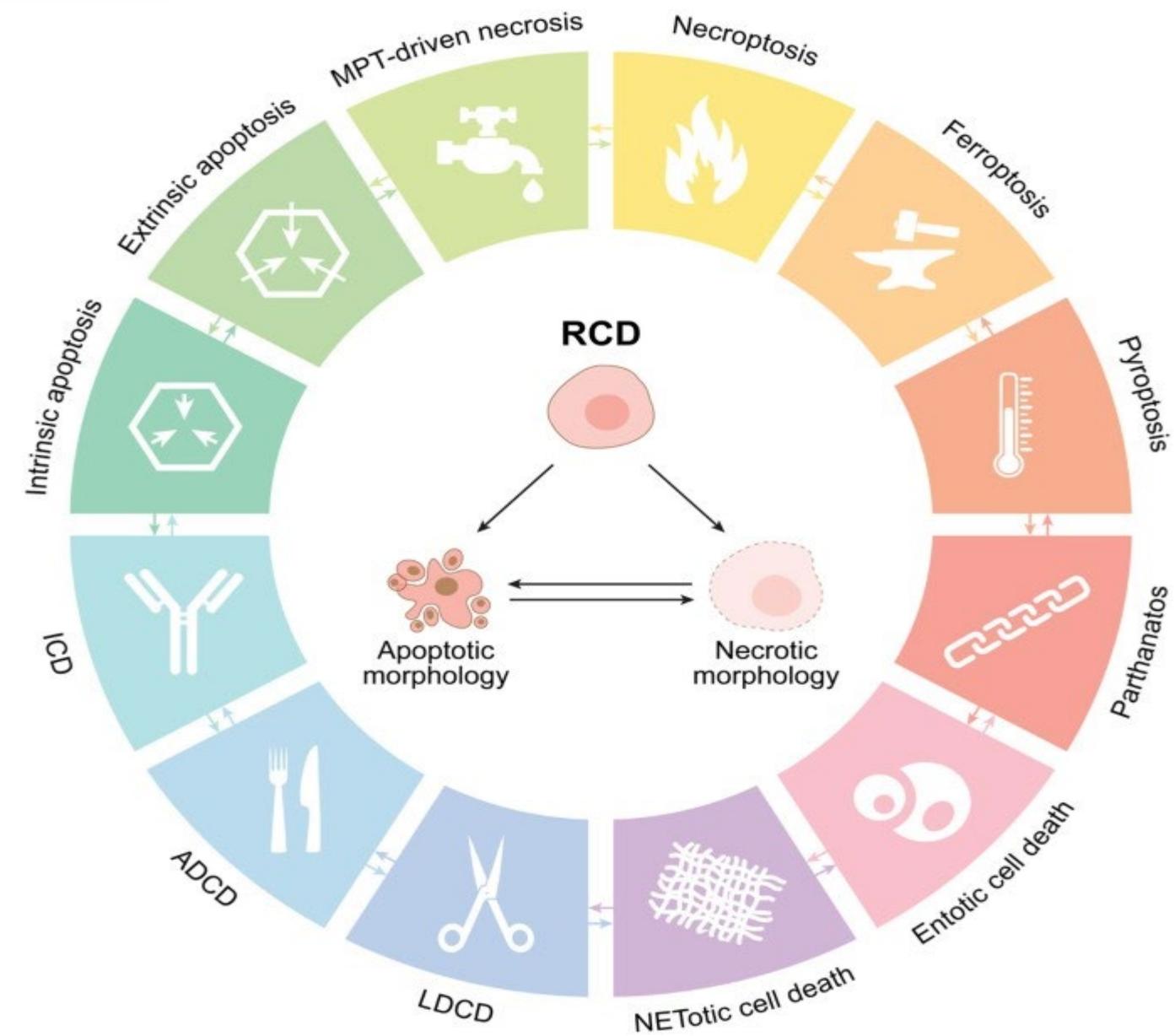
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Molecular Therapy is the leading international journal for research on the development of molecular and cellular therapeutics to correct genetic and acquired diseases, including but not limited to research on gene transfer and editing, vector development and design, stem cell manipulation, vaccine development, pre-clinical target validation, safety/efficacy studies, and clinical trials.

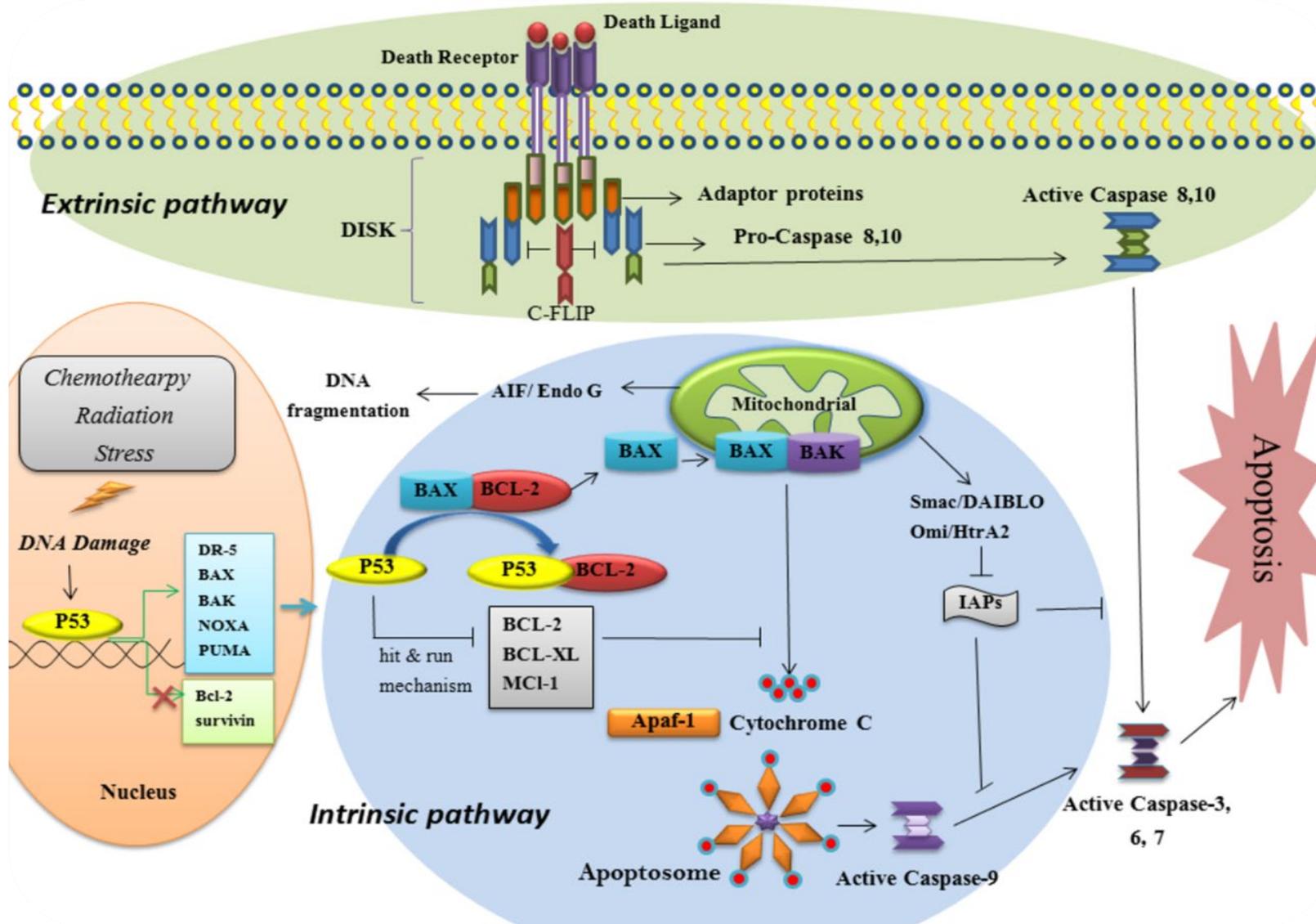
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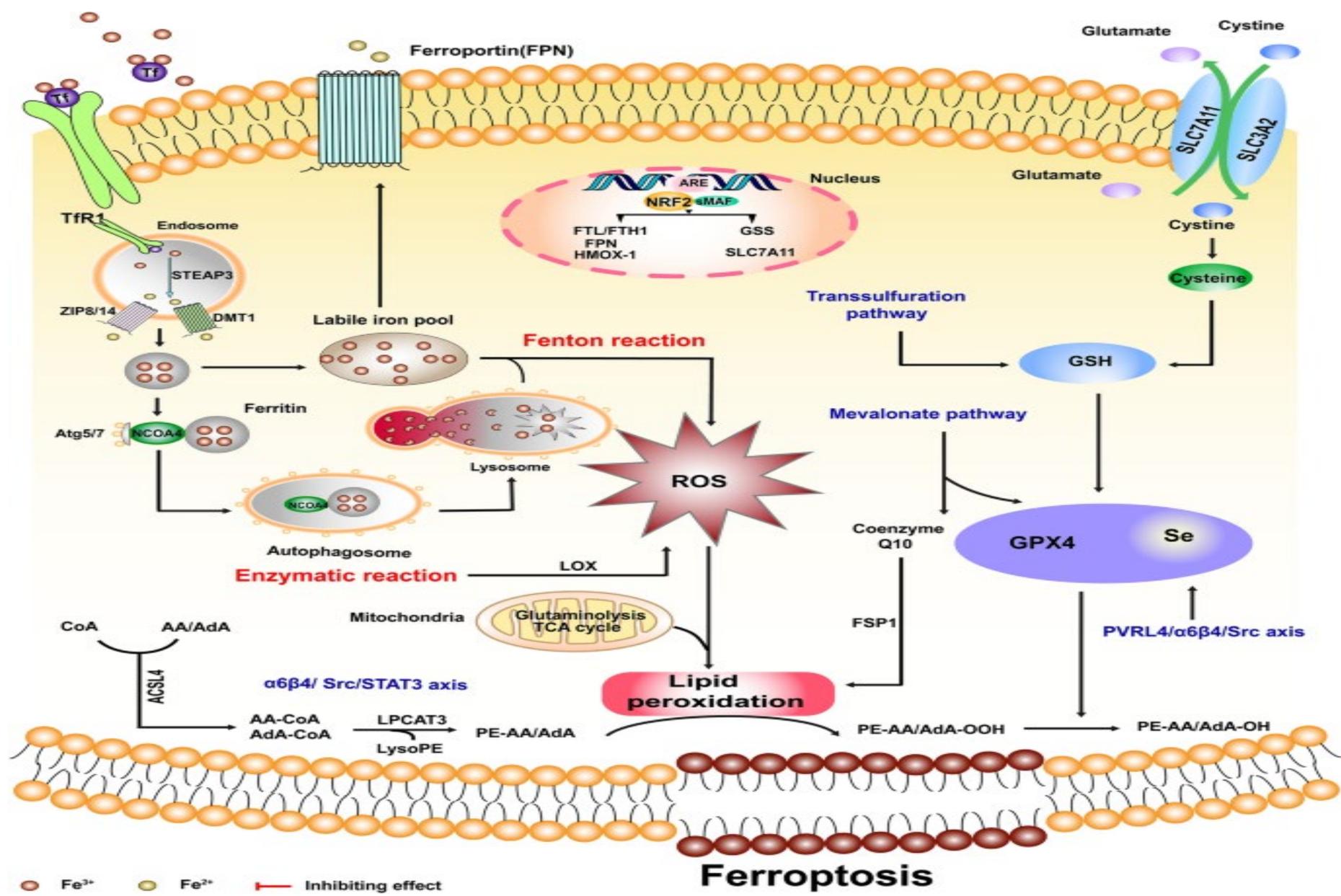
INTRODUCTION



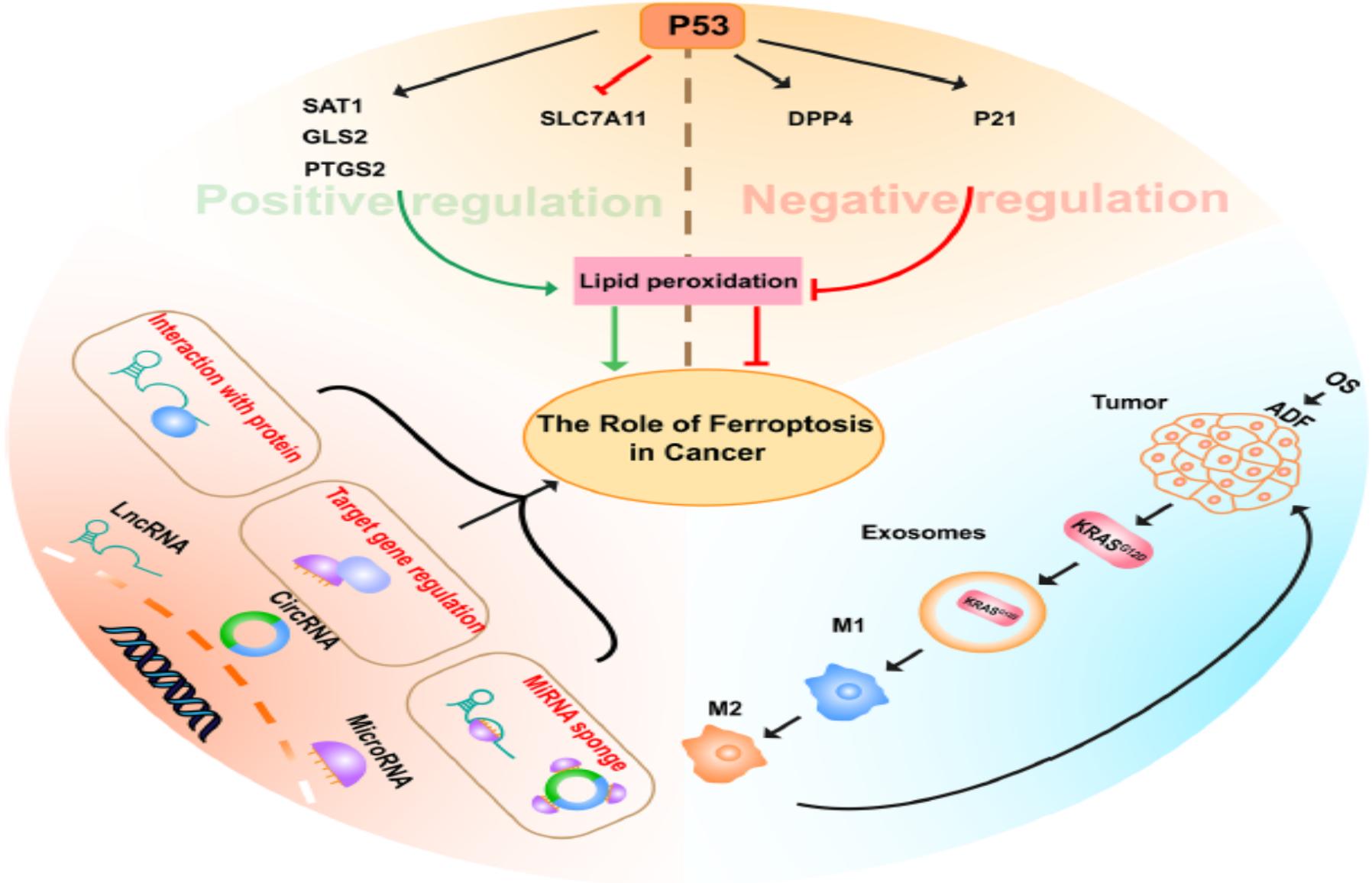
INTRODUCTION



INTRODUCTION



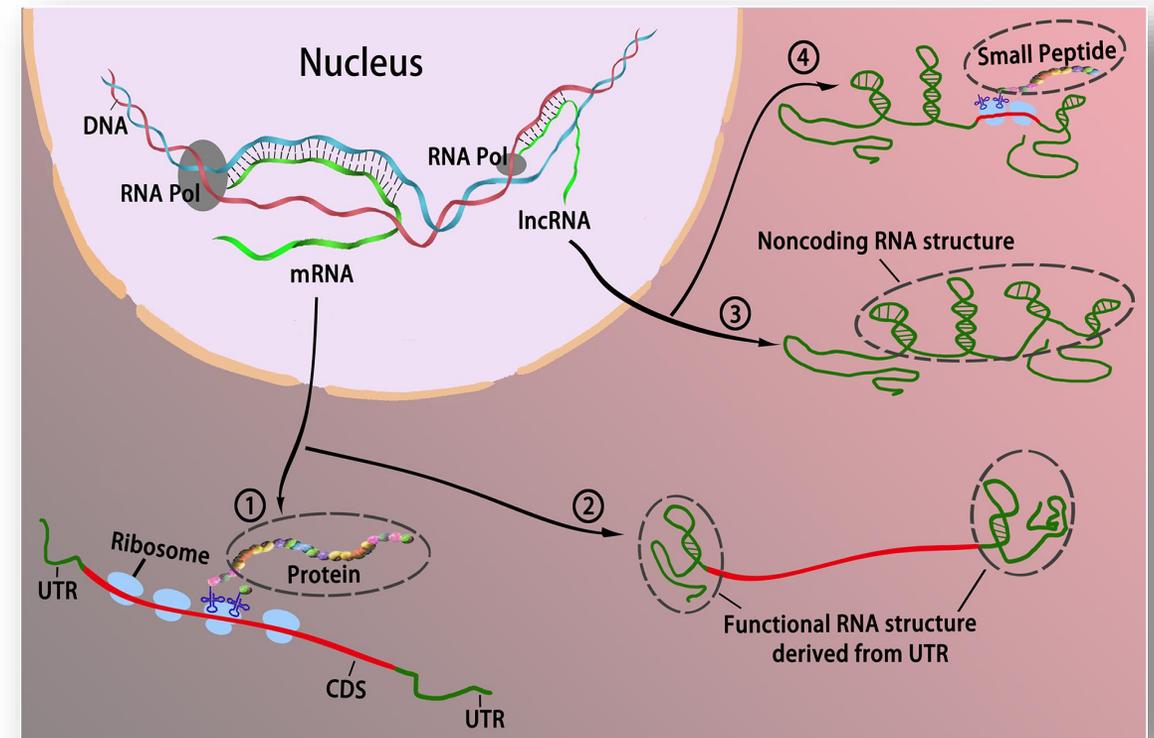
INTRODUCTION



INTRODUCTION

Long non-coding RNAs (lncRNAs)

- I. Protein synthesis
- II. RNA processing
- III. Survival of cancer cells
- IV. DNA damage responses
- V. embryonic development



Materials and Methods

- I. Cell Viability Assays
- II. Gene therapy
- III. Quantitative Real-Time PCR
- IV. Western Blot Analysis
- V. Annexin V and PI staining
- VI. Transmission Electron Microscopy
- VII. Measurement of Total ROS, Lipid ROS, and Iron

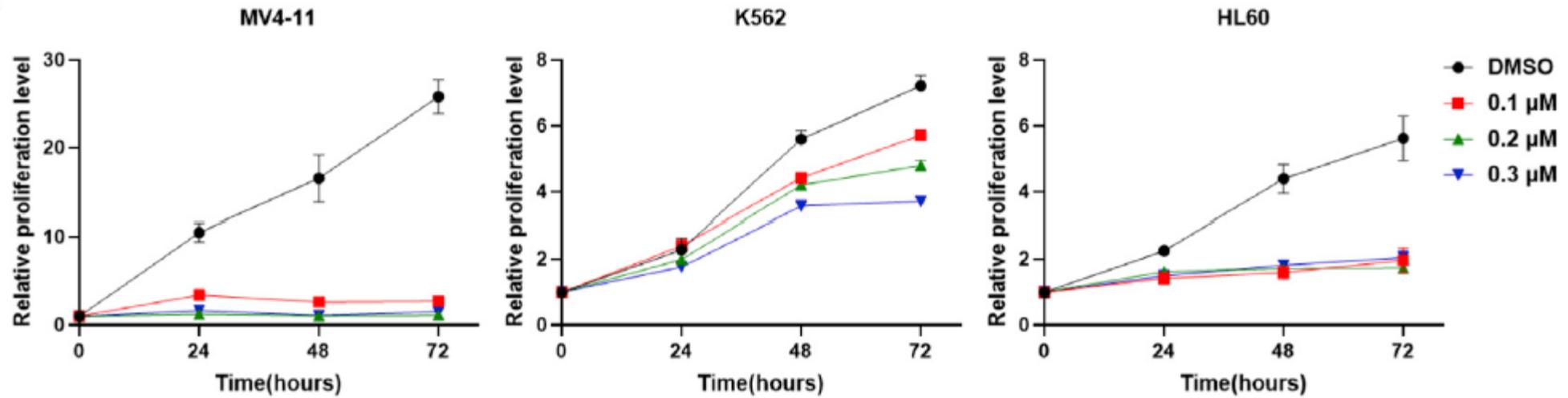


Results

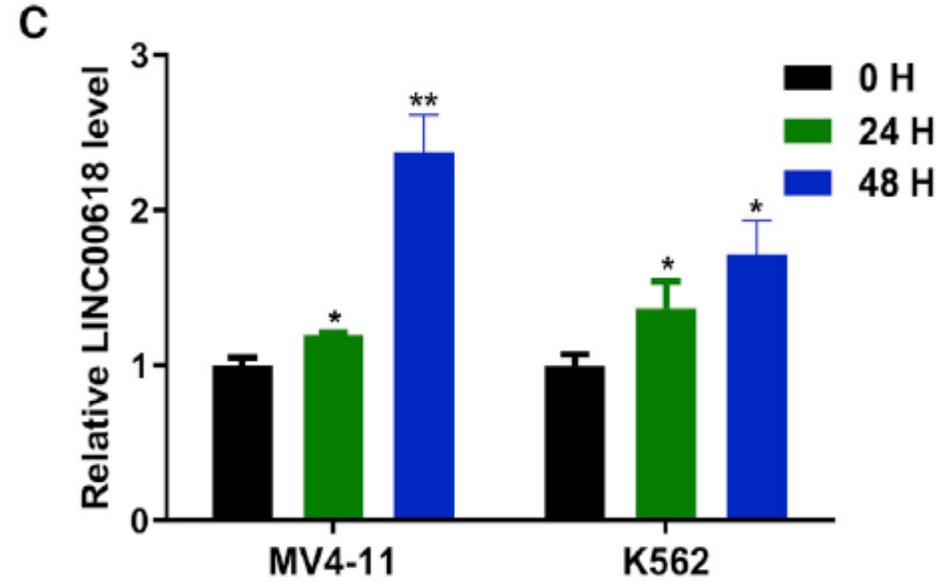
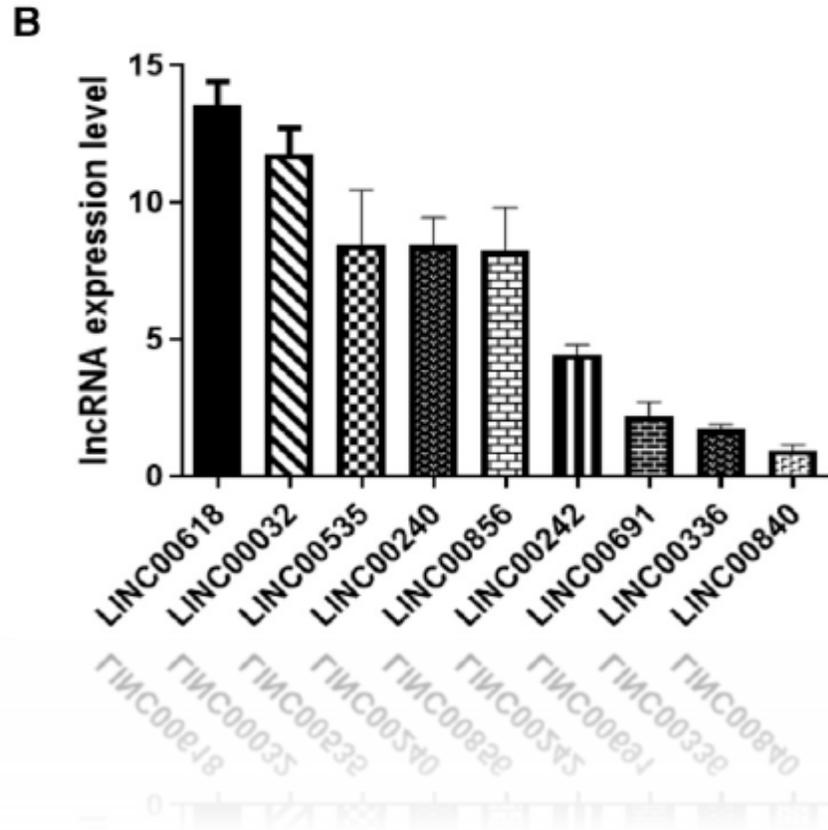


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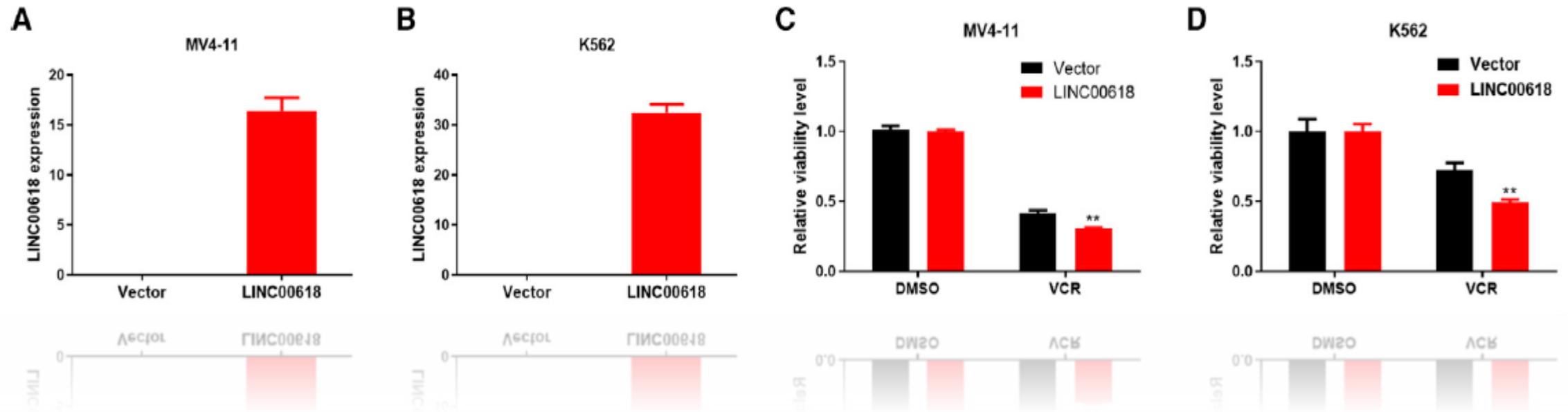
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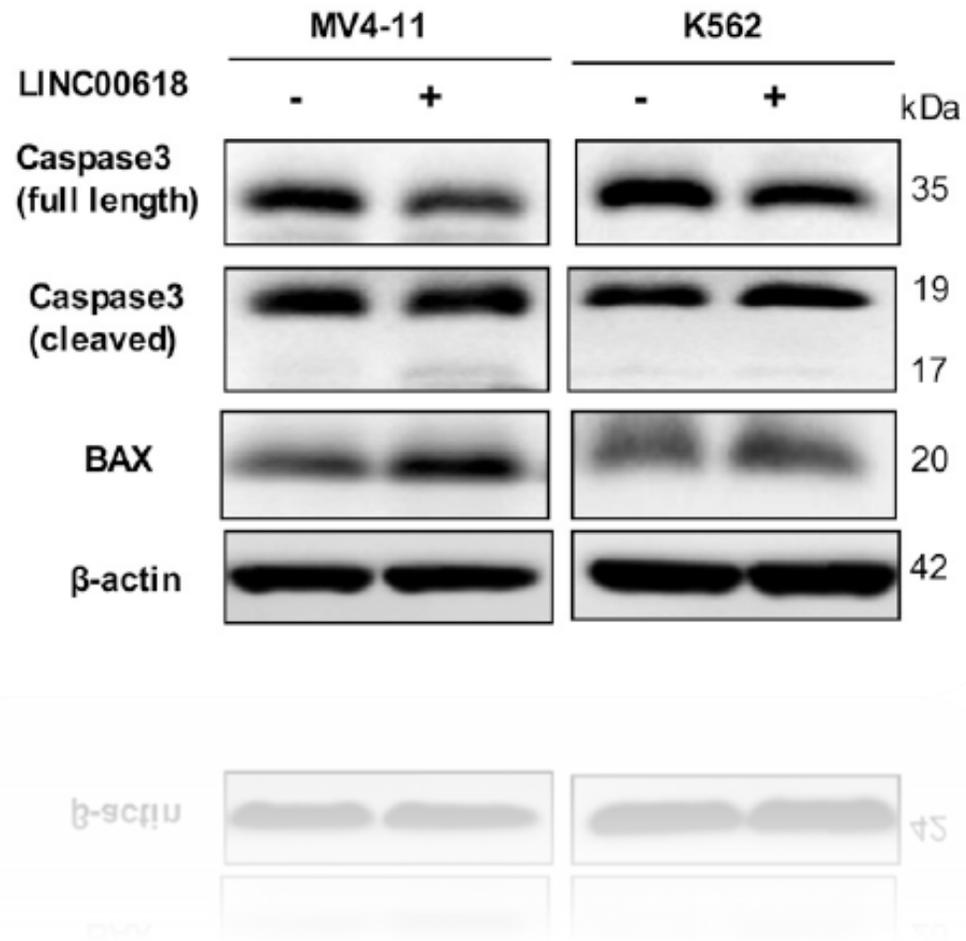


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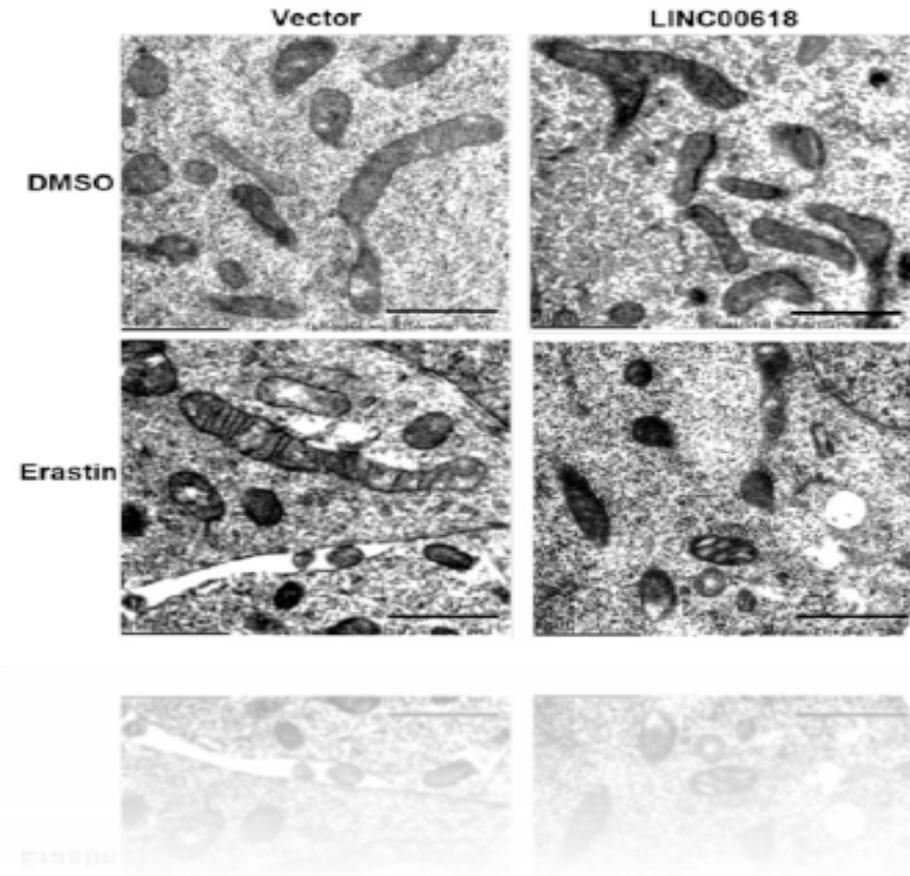


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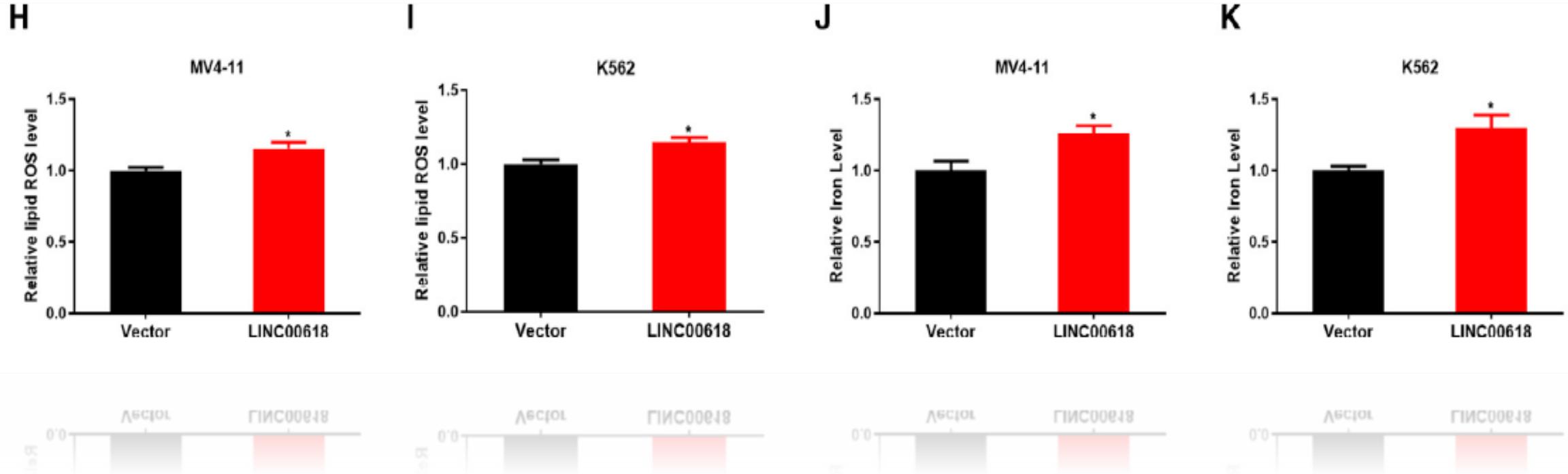
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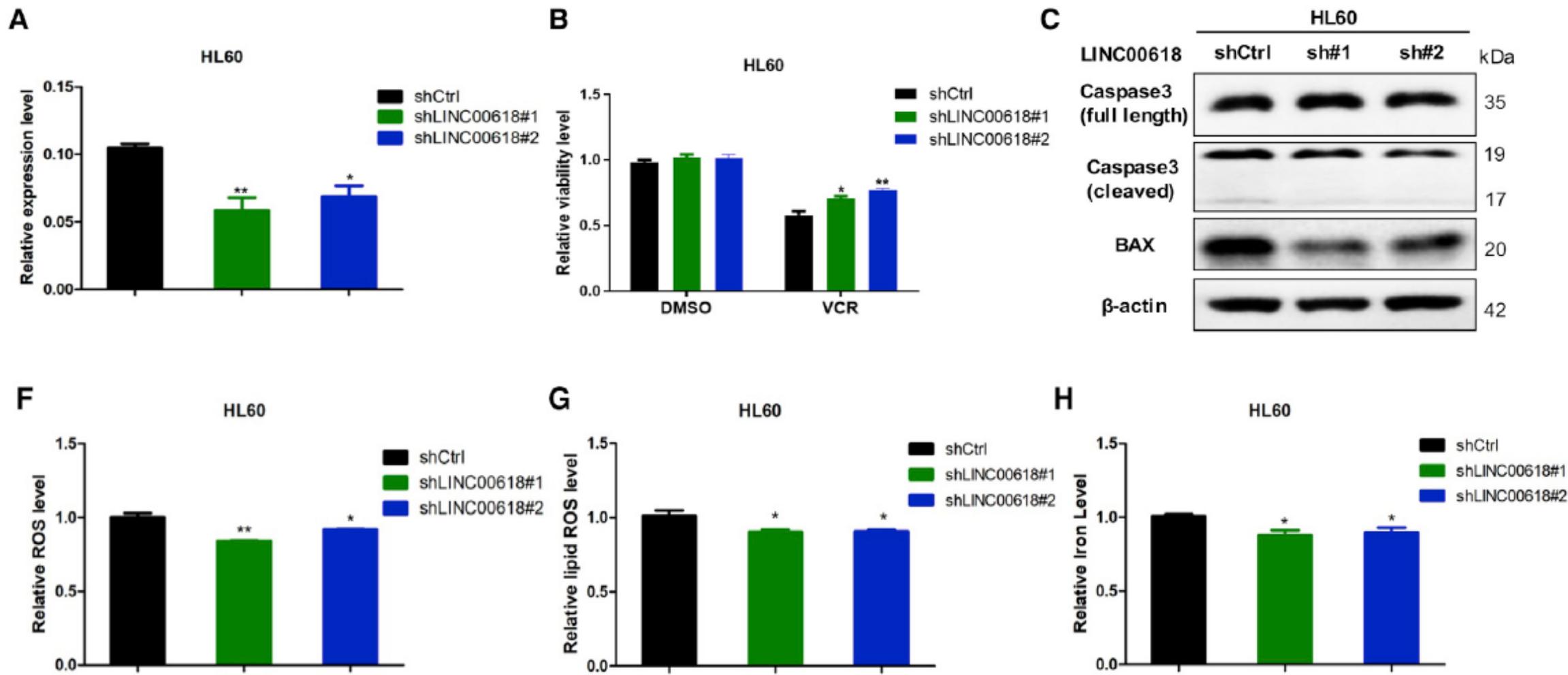
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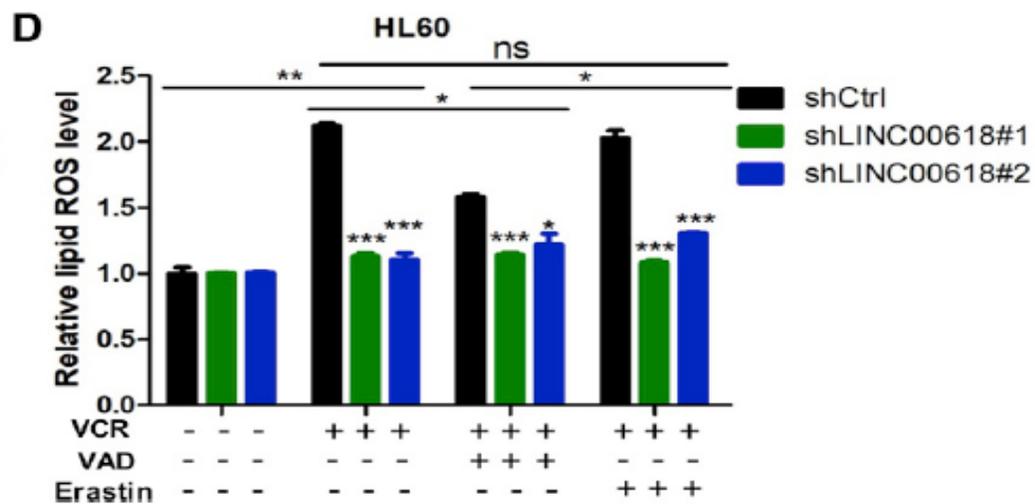
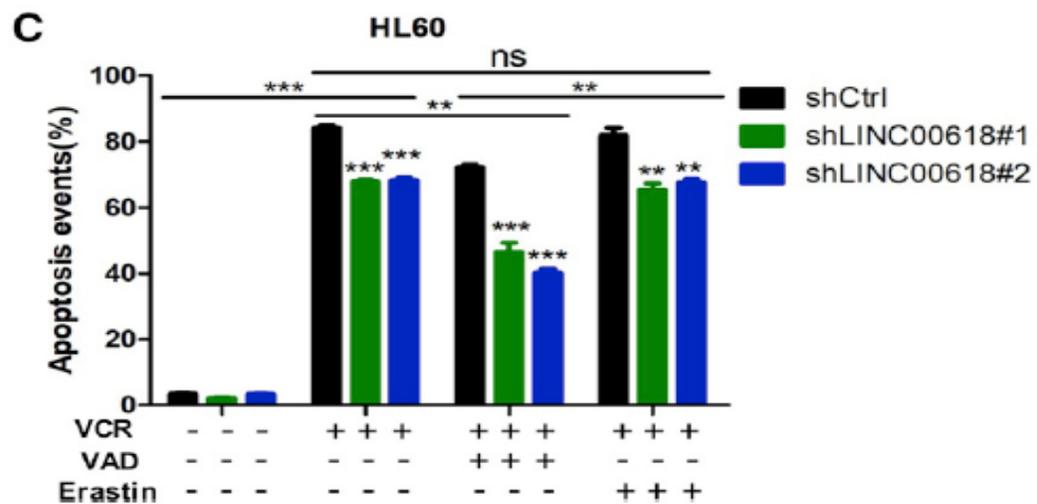
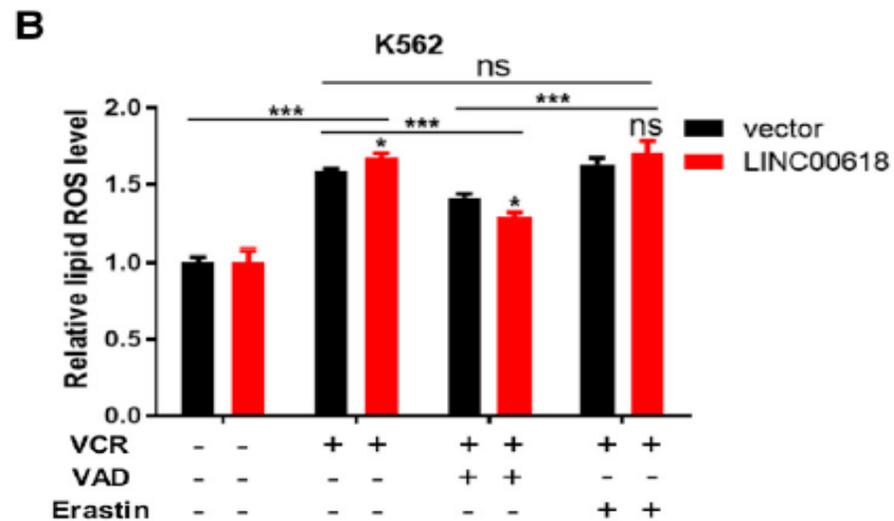
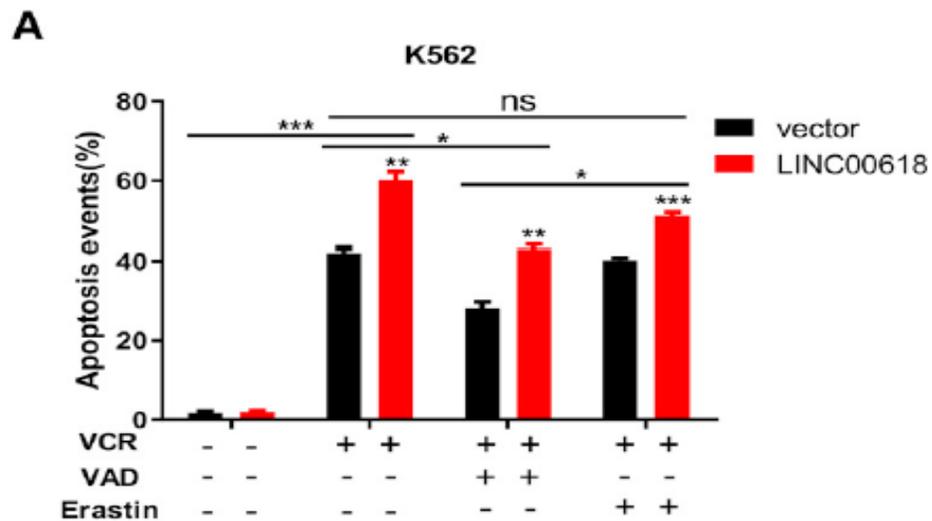
Results



Results



Results





Thank
you