

Anthocyanin-Enriched Fraction from *Callistemon citrinus* Modulates Leydig Cell Function: Insights into Cytotoxicity and Metabolic Impact

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MEET OUR GROUP!!

INTRODUCTION

AIMS

Lifestyle factors with positive impact on male fertility

Lifestyle factors with negative impact on male fertility

Dual Role of Oxidative Stress in Male (In)fertility

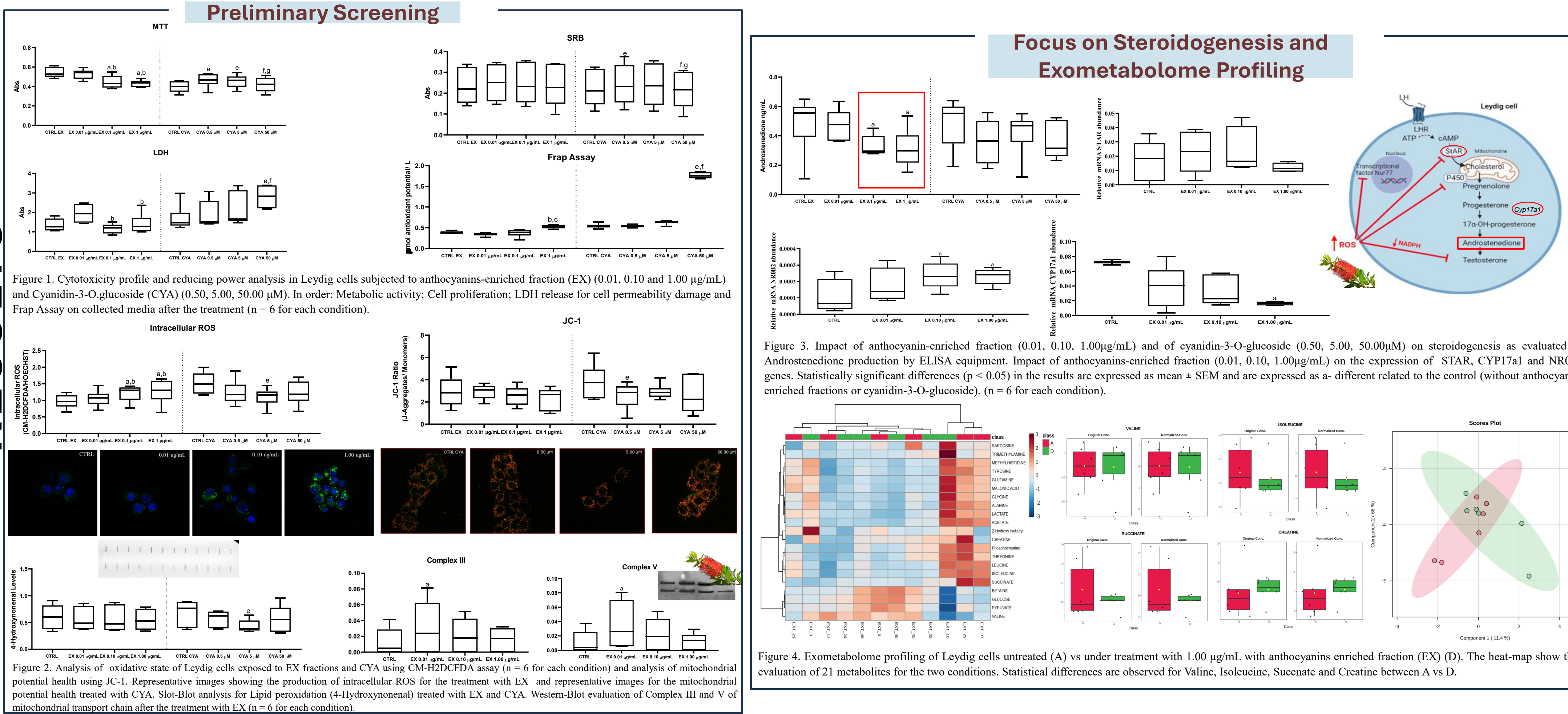
Evaluate the effects of Anthocyanins-enriched fraction (EX) from *Callistemon citrinus* flower and Cyanidin-3-O-glucoside (CYA) on Leydig cells

In vitro Cells Model: TM3 Leydig cell (n=6)

Conditions Group: EX (0.01, 0.10, 1.00 µg/mL); CYA (0.50, 5.00, 50.00 µM)

Focus on Steroidogenesis: All the samples were treated with human Chorionic Gonadotropin (3 nM) to stimulate physiological testosterone production

RESULTS



CONCLUSIONS

Our results reveal that this concentrations of anthocyanins from *Callistemon citrinus* decrease androstenedione production in a ROS-dependent way!

We will move inside the proteomic profile of Leydig cells to understand better where anthocyanins work!

References:

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