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The effect of 20 hydroxyeicosatetraenoic acid antagonism on myocardial infarction of metabolic syndrome rats

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O-hydroxyeicosatetrae-∠ noic acid (20-HETE) is an eicosanoid metabolite of that has a wide range of effects on the vascular system such as collateral cell growth, the vascular rebuilding of the heart. Metabolic syndrome and significant decrease in 48hour 20-HETE have been shown to be correlated together. There is a higher concentration of 20- levels in all tissue samples HETE in Metabolic Syndrome patients. With a higher concentration of 20-HETE patients with metabolic syndrome have symptoms that are more severe. The effect of elevated 20-HETE is negative and can influence cell growth after a myocardial infarction. Myocardial Infarction (MI) is another term for a heart attack. In previous studies. it shows an MI

size increases with an elevated level of 20-HETE. During the study, the metabolic syndrome rats and a control group of rats will be induced with an MI for about 30minutes. After rats from both groups are given an MI and 20-HETE antagonist named 20-SOLA which counteracts 20-HETE levels will be given. 20-SOLA treatment was given to the rats at 48hours. 1 week and 8 weeks. The results indicated that the AMPK antibody for both total and phosphorylated showed a samples. 20-SOLA was found to in which has been bettered by create equilibrium in 20-HETE and significantly more in JCR MI rats. 20-SOLA aided the decrease in ischemia for both rats, but again results indicate a more reliable significance in JCR MI rats. These findings are relevant to the epidemic of car- effects of 20-HETE. diovascular diseases plaguing populations globally.

Biography

Corinna Lozano is a junior and a second year in the Science

Research program run through SUNY Albany. She is a member of peer leadership in which she is the secretary and the town of Pawling's interact club. She is an active participant in soccer and dance team. When Corinna is out of school she enjoys spending time with her family and volunteering in her community. She is very dedicated to working hard in school and in her sports. She is very friendly and enjoys meeting new people through school programs. Pawling High School is a great environment her bright and cheery spirit. The teachers of Pawling High School all enjoy having her as she is super helpful when her fellow peers have a problem. She is currently working with her mentor on her research project that focuses on the

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