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Contact Information:	studyinmexico@itesm.mx

Undergraduate Research Program

Project Name	Effect of Instant Controlled Pressure Drop (DIC) on the phytochemicals of legumes and fruits
Campus & Location in Mexico	Querétaro
Faculty	Engineering and Sciences
Research Area	Bioengineering: Nutraceutical compounds analysis
Research Responsible	Ma Anaberta Cardador Martí-nez
Description of the Project	Extraction and quantifications of phytochemicals such as phenolics, flavonoids, oligosaccharides, phytates among others from legume seeds previously treated with DIC. Evaluation antioxidant capacity of phenolic compounds by means of DPPH and ABTS methods. Statistical analysis and interpretation of the results.
Training Provided	Yes, about spectrophotometry and liquid chromatography.

Offered during:

SUMMER

WINTER

SEMESTER

Student

Tasks/Responsibilities	To extract phytochemicals, analyze them and analyze the antioxidant capacity.
Required Language Proficiency	English. Spanish may be needed to communicate outside the Campus.
Required Skills and Abilities	Basic knowledge of chemistry laboratory.
Other Documents	<ol style="list-style-type: none"> 1) Being at least in your 2nd year of bachelor 2) Accumulative grade point average (GPA) 2.5 3) Official Transcript 4) 2 letters of recommendation of faculty members 5) Resume 6) Letter of intention explaining the reason why you would like to participate in the research program