



# Phenolic Composition and Cytotoxic Activity of *Prosopis laevigata* Humb. et Bonpl. ex Willd Wood Extract

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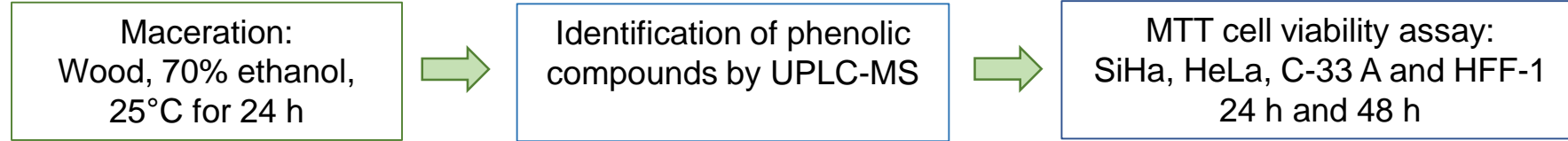
## Introduction

*Prosopis laevigata* is a native tree from México. The Wood of *P. laevigata* contain several phenolic compounds with cytotoxic properties



Fig 1. *Prosopis laevigata* Humb. et Bonpl. ex Willd

## Methodology



## Results

Table 1. Phenolic compounds identification

Compound	RT (min)	% area
Catechin	3.7	36.1
Taxifolin	6.4	28.0
Eriodictyol	8.6	13.9
Protocatechuic acid	2.6	5.4

Table 2. Inhibitory concentrations (IC<sub>50</sub>) of *P. laevigata* in cervical cell lines

<i>P. laevigata</i>	24 h IC <sub>50</sub> (µg/mL)	48 h IC <sub>50</sub> (µg/mL)
SiHa	83.02 ± 6.28	72.92 ± 1.25
HeLa	210.4 ± 1.22	185.7 ± 1.21
<b>C-33 A</b>	<b>22.58 ± 1.10</b>	<b>14.26 ± 1.11</b>
HFF-1	67.55 ± 1.18	176.50 ± 1.10

Table 3. Selectivity index of *P. laevigata* in cervical cell lines

Cell line	24 h	48 h
SiHa	0.81	2.42
HeLa	0.32	0.95
<b>C-33A</b>	<b>2.99</b>	<b>12.37</b>

In this moment we are investigating the mechanism of action and toxicity

**Conclusion:** The extract of *P. laevigata* wood contains phenolic compounds and demonstrated a cytotoxic effect against cervical cancer cell lines with no damage in normal cell line