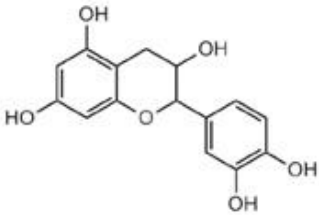
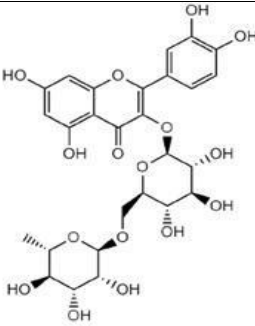
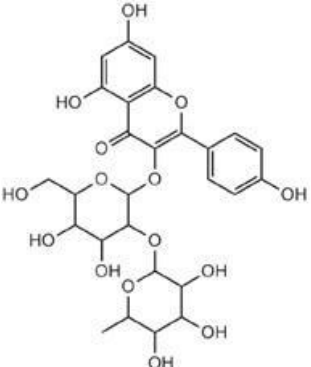


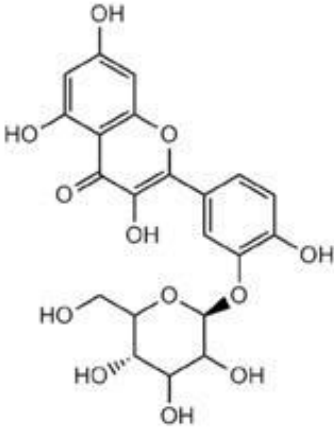
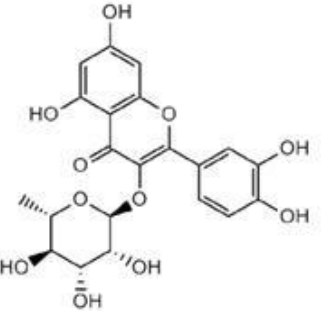
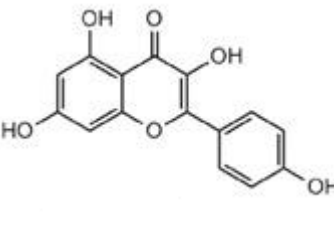
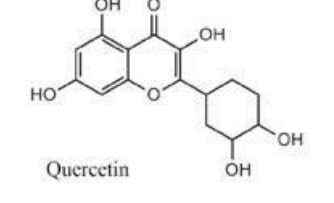
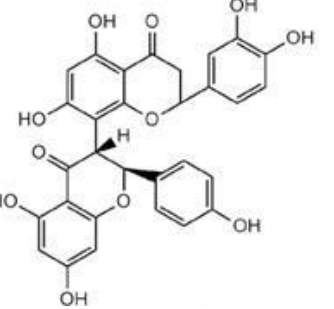
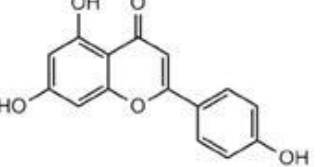
Supplemental file

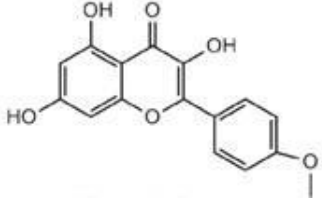
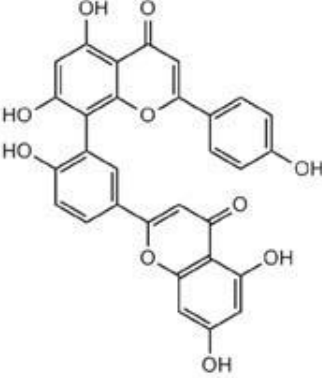
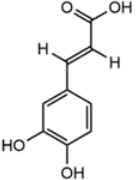
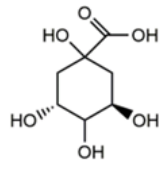
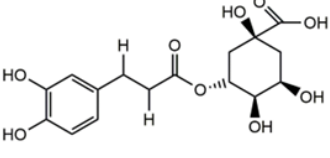
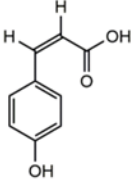
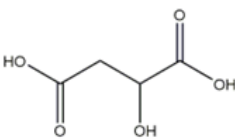
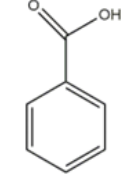
Chemical composition and antioxidant activity of crude extracts from *Pachira aquatica* leaves, flowers and seeds

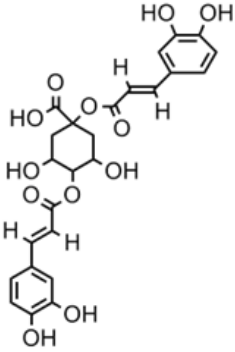
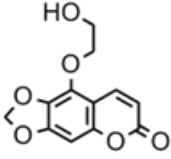
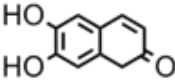
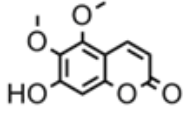
Isabelle Luiz Rahal, Herika Line Marko de Oliveira, Wanessa de Campos Bortolucci, Angelica Barbosa Dias, Gabriela Catuzo Canonico Silva, Rodrigo Sadao Inumaro, Maria Graciela lecher Faria Nunes, Suelen Pereira Ruiz Herrig, José Eduardo Gonçalves, Zilda Cristiani Gazim*.

Table S1: Biological activity of compounds found in *Pachira aquatica* leaves, flowers and seeds.

Compounds	Chemical structure*	Biological activity	References
Flavonoids			
Catechin		Antioxidant, antimicrobial, anticancer, antihypertensive, anticoagulant, antiulcer.	(Lambert and Elias, 2010; Ganeshpurkar and Saluja, 2020)
Rutin		Antioxidant, antiapoptotic, anti-inflammatory, neuroprotective.	(Enogieru et al., 2018)
Kaempferol-3-O-glucorhamnoside		Antioxidant, anti-inflammatory.	(Sun et al., 2019)

Quercetin-3-glucopyranoside	 <p>The structure shows a quercetin aglycone core (3,5,7-trihydroxyflavone) with a glucose molecule attached to the 3-position of the flavone ring via an ether linkage. The glucose is in its pyranose form with hydroxyl groups at C2, C3, C4, and C6.</p>	Antitumor, antioxidant.	(Vafadar et al., 2020)
Quercitrin	 <p>The structure shows a quercetin aglycone core with a glucose molecule attached to the 3-position of the flavone ring via an ether linkage. The glucose is in its pyranose form with hydroxyl groups at C2, C3, C4, and C6.</p>	Antioxidant, anti-inflammatory, antimicrobial, immunomodulation, analgesic, wound healing, vasodilation.	(Chen et al., 2022)
Kaempferol	 <p>The structure shows a kaempferol aglycone core (3,5,7-trihydroxyflavone) with a hydroxyl group at the 8-position and a p-coumaroyl group at the 6-position.</p>	Antioxidant, anti-inflammatory, antimicrobial, anticancer, cardioprotective, neuroprotective, antidiabetic, anti-osteoporotic, estrogenic/antiestrogenic, anxiolytic, analgesic, antiallergic.	(Calderon-Montano et al., 2011)
Quercetin	 <p>The structure shows a quercetin aglycone core (3,5,7-trihydroxyflavone) with a hydroxyl group at the 8-position and a p-coumaroyl group at the 6-position.</p> <p>Quercetin</p>	Antioxidant, anti-inflammatory, antitumor.	(Yang et al., 2020)
Morelloflavone	 <p>The structure shows a morelloflavone aglycone core (3,5,7-trihydroxyflavone) with a hydroxyl group at the 8-position and a p-coumaroyl group at the 6-position.</p>	Antioxidant, antiviral, anti-inflammatory.	(Pang et al., 2009)
Apigenin	 <p>The structure shows an apigenin aglycone core (5,7-dihydroxyflavone) with a hydroxyl group at the 8-position and a p-coumaroyl group at the 6-position.</p>	Anti-inflammatory, antioxidant, anti-carcinogenic.	(Patel et al., 2007)

Kaempferide		Antioxidant, anti-inflammatory, antimicrobial, anticancer, cardioprotective, neuroprotective, antidiabetic, anti-osteoporotic, estrogenic/antiestrogenic, anxiolytic, analgesic, antiallergic.	(Calderon-Montano et al., 2011)
Amentoflavone		Anti-inflammatory, antioxidant, antidiabetic.	(Yu et al., 2017)
Phenolic acids			
Caffeic acid		Antioxidant.	(Sato et al., 2011)
Quinic acid		Antioxidant, anticancer.	(Samimi et al., 2021)
Chlorogenic acid		Antioxidant.	(Sato et al., 2011)
p-coumaric acid		Antioxidant, antimicrobial.	(Boz, 2015)
Organic acids			
Malic acid		Antimicrobial, antioxidant.	(Gadang et al., 2008; Marques et al., 2020)
Benzoic acid		Antifungal, antioxidant.	(Castilho et al., 2020; Velika and Kron, 2012)
Coumarins			

Dicafeoylquinic acid		Antioxidant, anti-inflammatory.	(Danino et al., 2009; Hong et al., 2015)
5 hydroxyethoxy ayapin		Not found	
Esculetin		Antioxidant, anti-inflammatory, antiapoptotic, anticancer, antidiabetic, neuroprotective, cardioprotective, antibacterial.	(Zhang et al., 2022)
5 methoxyscopoletin		Anti-inflammatory, antioxidant, hepatoprotective, antidiabetic, neuroprotective, antimicrobial.	(Ding et al., 2008; Sakthivel et al., 2022)

* Chemical structures were drawn with the help of the ChemDraw program.