

CHEMICAL COMPOSITION OF CARICA PAPAYA FLOWER PAW PAW

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What is the chemical composition of Carica papaya? papaya contains alkaloids, glycosides, tannins, saponins, flavonoids and glycosides which may be responsible for its therapeutic activity.

What is the chemical composition of papaya seeds? The seed is a rich source of proteins (27.8% undefatted, 44.4% defatted), lipids (28.3% undefatted) and crude fibre (22.6% undefatted, 31.8% defatted). Of the toxicants estimated, glucosinolates occur in the highest proportion. The seed is low in free monosaccharides.

What is the composition of a papaya? The papaya fruit is composed of the skin, pulp and seeds (Fig. 11.4) with variable composition depending on varieties or cultivars. The seeds could vary between 5% and 9%; skin 12–25% and pulp from 70% to 80%.

What is the phytochemical composition of pawpaw leaf? The four-plant species were found to contain alkaloid, saponin, tannins, flavonoid and phenols in varying proportions. The phytochemical contents of *C. papaya* (Pawpaw) were as follows: alkaloid ($1.11 \pm 0.02\%$), saponins ($0.53 \pm 0.04\%$), tannin ($0.43 \pm 0.4\%$), flavonoid ($0.67 \pm 0.01\%$) and phenols ($0.91 \pm 0.03\%$).

What chemical is in pawpaw? The carotenoids, lutein and beta-carotene, are prominent in the yellow skin, while lycopene is dominant in the red flesh (table). Papaya seeds also contain the cyanogenic substance prunasin. The green fruit contains papain, a cysteine protease enzyme used to tenderize meat (see below).

What is the composition of pawpaw? Pawpaws are very nutritious fruits. They are high in vitamin C, magnesium, iron, copper, and manganese. They are a good source of potassium and several essential amino acids, and they also contain significant amounts of riboflavin, niacin, calcium, phosphorus, and zinc.

What does the papaya flower contain? The nutritional composition of male papaya flowers includes: gallic acid, beta carotene, calcium, protein, carbohydrates, phenol, phosphorus, vitamin A, vitamin B1, vitamin C, vitamin E and tannins.

What are the main ingredients in papaya? Papaya (Papita) contains alkaloids (like choline and nicotine), flavonoids, tannins, and saponins, all of which have been found to have a significant impact on chronic (long-term) inflammation. Proteolytic enzymes found in papayas, such as papain and chymopapain, might also have anti-inflammatory properties.

What is the proximate composition of papaya seeds? Papaya seeds are an excellent source of protein (27.95 %), oil (31.83 %), ash (7.86 %) and fibers (18.53 %).

What is the composition of Carica papaya leaves? The leaves of papaya plant are well known to have papain, cystatin, chymopapain, tocopherol, phenolic acids, cyanogenic glucosides, glucosinolates, and vitamin C as main phytochemicals [27].

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What are the phytochemical constituents of Carica papaya seeds? The proximate analysis showed that the seed contains protein, carbohydrate, fiber, ash. The phytochemical contents tested were alkaloids, saponin, phenol, flavonoids, glycoside, tannin, anthraquinone and steroid.

What are the phenolic compounds in Carica papaya? Several metabolic compounds such as phenolic compounds (particularly kaempferol, isorhamnetin, quercetin, ferulic acid, isoferulic acid, salicylic acid, sinapic acid, syringic acid, and

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vanillin), terpenoids (such as eucalyptol), glycosides, and indole were identified.

The Dynamics of Persuasion, Communication, and Attitudes in the 21st Century

Question 1: What are the key factors influencing persuasion in the digital age?

Answer: The rise of social media, data analytics, and AI have transformed the landscape of persuasion. Social media enables targeted messaging, while data analytics helps identify and segment audiences. AI can personalize messages and create tailored experiences.

Question 2: How have attitudes changed in the 21st century?

Answer: Attitudes are influenced by rapid cultural and technological changes. Social media has facilitated the formation of echo chambers, where individuals are exposed to opinions that reinforce their own. This can lead to polarization and a decrease in critical thinking.

Question 3: What are the ethical implications of persuasion in the modern era?

Answer: Persuasion techniques can be used for both positive and negative purposes. Ethical considerations include privacy concerns, the potential for manipulation, and the spread of misinformation. It is crucial to ensure that persuasion is used responsibly and ethically.

Question 4: How can communication professionals effectively use persuasion in the 21st century?

Answer: Effective persuasion requires understanding the target audience, using evidence and research, and tailoring messages to resonate with specific groups. Communication professionals should also consider the ethical implications and strive to communicate transparently and accurately.

Question 5: What are the emerging trends in persuasion and communication research?

Answer: Researchers are exploring the impact of artificial intelligence on persuasion, the role of virtual and augmented reality, and the influence of

neuroscience on understanding human communication. These advancements will continue to shape the dynamics of persuasion and communication in the years to come.

The Art of Urban Sketching: Drawing on Location Around the World with Gabriel Campanario

Gabriel Campanario, a renowned urban sketcher, has captured the essence of cities around the world through his captivating drawings. Join us for an interview with Campanario as he reveals the secrets and techniques behind his evocative works of art.

1. What is the essence of urban sketching?

Gabriel Campanario: Urban sketching is an immersive experience that allows you to connect with the environment and observe it through the lens of an artist. It involves capturing the unique character and atmosphere of cities, from their bustling streets to their hidden corners.

2. What are the challenges and rewards of sketching on location?

GC: Sketching on location presents challenges such as changing light, unpredictable weather, and crowds. However, these obstacles also offer opportunities to hone your observation skills and experiment with different approaches. The reward of capturing a moment in time and sharing it with others is unparalleled.

3. How do you approach the process of sketching a city?

GC: I start by observing the overall composition and identifying focal points. I then break down the scene into smaller elements, focusing on angles, perspective, and relationships between objects. I use a loose and fluid style, allowing the energy of the city to flow into my drawings.

4. What are your top tips for aspiring urban sketchers?

GC: Practice regularly to improve your hand-eye coordination and observation skills. Experiment with different drawing techniques and materials to find what suits you best. Don't be afraid of failure; it's part of the creative process. And most importantly,

have fun and enjoy the journey.

5. What are your favorite cities to sketch?

GC: Each city has its own unique charm, but I particularly enjoy sketching in historic and vibrant places like Rome, Paris, and Istanbul. The rich architecture, lively streets, and cultural diversity provide endless inspiration.

Chapter 11: The Yescad: A Pivotal Moment in World History

Introduction: The Yescad was a significant event in world history, marking a turning point in the relationship between the Mongols and other civilizations. In this chapter, we explore the causes, consequences, and far-reaching impact of this momentous encounter.

Question 1: What was the Yescad? Answer: The Yescad was a general assembly summoned by Genghis Khan in 1206 CE. It brought together the leaders of the various Mongol tribes to establish a unified Mongol Empire and create a new legal code known as the Yassa.

Question 2: What were the contributing factors to the Yescad? Answer: By the early 13th century, the Mongols had become a powerful nomadic confederation, united under the leadership of Genghis Khan. Internal rivalries, the need for a central authority, and the desire to expand their territories prompted him to convene the Yescad.

Question 3: What were the major decisions made at the Yescad? Answer: The Yescad established a centralized government, with Genghis Khan as the supreme ruler. It also created the Yassa, a comprehensive legal code that regulated all aspects of Mongol life, from military strategy to religious practices. The assembly also formalized the division of the empire into administrative units known as "ulus."

Question 4: What was the impact of the Yescad on Mongolia and the world? Answer: The Yescad transformed the Mongols from a loosely organized tribal federation into a formidable empire. It unified their military forces, established a legal framework, and promoted cultural exchange. The rise of the Mongol Empire under Genghis Khan would subsequently have a profound impact on the political, social, and economic landscape of Eurasia.

Conclusion: The Yescad was a pivotal event that marked a new era in world history. It united the Mongols under a single leadership, established a centralized government, and created a legal code that governed their vast empire. The consequences of the Yescad extended beyond Mongolia's borders, influencing the course of international relations and shaping the political landscape of Eurasia for centuries to come.

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