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# Pictographic representation of the first dawn and its association with entheogenic mushrooms in a 16th century Mixtec Mesoamerican Codex

## Representación pictográfica del primer amanecer y su asociación con hongos enteógenos en un Códice Mesoamericano Mixteco del siglo XVI

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### SUMMARY

**Background:** In Mexico, before the arrival of the Spaniards in the sixteenth century, mushrooms had a paramount ceremonial and sacred importance as substantiated by linguistic and archaeological evidence and documented in various pre-Hispanic codices and colonial writings.

**Objective:** To describe a fascinating and paradoxically little known story linked to the conception of the first appearance of the sun and its relationship with entheogenic mushrooms according to the Mixtec codex “Yuta Tnoho” or “Vindobonensis Mexicanus I”, produced in the XVI century.

**Methods:** An exhaustive bibliographic review of the publications related to Codex studied was carried out in several digital databases at the University of Sheffield, the British Library both in England, and in Colegio de Postgraduados, Mexico.

**Results and conclusions:** A detailed interpretation of the pictograms that register the use of entheogenic fungi is presented from a ritual and sacred perspective for the Mixtec group in pre-Hispanic times prior to the birth of the first sun. This evidence constitutes a unique indication of the cultural and ceremonial importance of mushrooms in Mesoamerica, which survives in southeastern Mexico today in groups geographically close to the Mixtecs.

**Keywords:** Cultural identity, *Psilocybe*, hallucinogenic mushrooms, pre-Hispanic codices.

### RESUMEN

**Antecedentes:** En México, antes de la llegada de los españoles en el siglo XVI, los hongos tenían una importancia ceremonial y sagrada de gran relevancia, lo cual está sustentado en evidencias lingüísticas y arqueológicas, y documentado en códices prehispánicos y escritos coloniales.

**Objetivos:** Describir una historia fascinante y, paradójicamente poco conocida, vinculada a la concepción de la primera aparición del sol y su relación con los hongos enteógenos según el Códice mixteco “Yuta Tnoho” o “Vindobonensis Mexicanus I”, producido en el siglo XVI.

**Métodos:** Se realizó una exhaustiva revisión bibliográfica de las publicaciones relacionadas con el Códice estudiado en diversas bases de datos digitales de la Universidad de Sheffield, la British Library ambas en Inglaterra y el Colegio de Postgraduados de México.

**Resultados y conclusiones:** Se presenta una interpretación detallada de los pictogramas que registran el uso de hongos enteógenos desde una perspectiva ritual y sagrada para los grupos Mixtecos en épocas prehispánicas previas al nacimiento del primer sol. Esta evidencia constituye una pieza única de la importancia cultural y ceremonial de los hongos en Mesoamérica, la cual pervive actualmente en el sureste de México en grupos cercanos geográficamente a los mixtecos.

**Palabras clave:** Identidad cultural, *Psilocybe*, hongos alucinógenos, códices prehispánicos.

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## INTRODUCTION

Mushrooms are a characteristic element of Mexican culture. Although we do not know when they first started to be consumed, it is possible to conjecture that it began with the first groups of hunter-gatherers that inhabited the country, arriving at least 13,000 years ago from the Beringia region in Northeast Asia (Balter, 2014; Chatters *et al.*, 2014). What is known with certainty is that at the beginning of the 16th century, when the Spaniards arrived, the knowledge of wild mushrooms was widespread, diverse and extremely detailed. This can be verified through archaeological and linguistic evidences, pre-Hispanic codices and Mesoamerican colonial writings. For example, over five thousand common names are known for edible wild fungi in different Mexican languages (Guzmán, 1997). Additionally, Mexico is currently one of the most important reservoirs of edible wild mushrooms internationally with over 450 species consumed, of which around half are sold in the markets in the centre and southeast of the country (Pérez-Moreno *et al.*, 2008; Pérez-Moreno *et al.*, 2010; Pérez-Moreno and Martínez-Reyes, 2014). A significant number of these fungi have bioactive compounds, which include antioxidant, anticancer, antidiabetic, antimicrobial, anti-inflammatory, and antiviral metabolites (Pérez-Moreno and Martínez-Reyes, 2014). In Mexico, more than 200 species of mushrooms used as medicine have been reported (Bautista-González, 2013). Mushrooms are also of enormous importance ceremonially (Schultes and Hoffman, 2000; Guzmán, 2008) as well as in the creation of artisanal goods and for ludic use (Garibay Orijel *et al.*, 2006; Ruan-Soto *et al.*, 2009; Hernández-Santiago *et al.*, 2016).

Paradoxically, one of the most interesting attributes of mushrooms, namely its sacred link with the creation of the universe, has been poorly studied. Throughout the history of humanity there have been multiple symbolic narratives of how the world began and how the first human beings inhabited it. In the Mesoamerican area, the following stand out: i) the story of the creation of the world according to the Maya written in the Popol Vuh (Scherzer, 1857; Recinos, 1960; Christenson, 2003; Krickeberg, 2012); and ii) the story of the fifth Sun, relating the creation of the universe according to the Nahuas (Leyenda de los Soles, 1558; Jonghe, 1905; Moreno de los Arcos, 1967; Garza, 1983; León-Portilla, 2006). Similarly to the Popol Vuh, which recounts that

the corn god was the progenitor of the cosmos and of human beings, the Nahua texts relate that the god Quetzalcoatl descended to the underworld, rescued the bones of ancient humanity and created new human beings from them. In both accounts, the creation of human beings is preceded by a battle between celestial deities – the divine twins in the Mayan story, and the god Quetzalcoatl and the gods of the underworld in the Nahua tale. Florescano (1997) mentioned that both in the Náhuatl myth and in the Popol Vuh, the supreme act of creation is not the appearance of human beings or cultivated plants but the birth of the Sun, the creative power that sets in motion the universe, which provides movement and warmth in the cosmos, initiates the passing of time and illuminates a new era in the world. In this article, we describe one of the most fascinating Mesoamerican stories, which survived countless vicissitudes over the centuries and which relates to the conception of the birth of the sun among the “na savi” (literally “the people of the rain”), also known as Mixtecs, and its relationship with entheogenic fungi.

## MATERIALS AND METHODS

An exhaustive bibliographic review of the publications related to studies of the pre-Hispanic Mixtec codex “Yuta Tnoho” or “Vindobonensis Mexicanus I” was carried out. This review was conducted in several digital databases at the University of Sheffield, England, and Colegio de Postgraduados, Mexico, which included, among others, the Web of Science, Scopus and the University of Sheffield library as well as the British Library in London, England. Unstructured interviews were conducted in Mixtec communities of Oaxaca, Mexico, which allowed us to clarify various concepts related to the conception that still survives in this ethnic group. This activity was facilitated by the fact that the first author is a native speaker of Mixtec language. Based on the literature review and ethnological information, a descriptive analysis of the pictograms that appear on pages 24 and 25 of the Yuta Tnoho codex is presented, for which a careful review of the facsimile version of said codex published by Adelhofer (1963) was also conducted.

## RESULTS

Among the few surviving stories related to the creation of the universe that were conceived in the pre-Hispanic era is the Mix-



tec story in the so-called Codex Yuta Tnoho (Figure 1) or Vindobonensis Mexicanus I (Table 1). On the obverse of this codex are related the rites of corn and pulque (a millenarian sacred beverage in Mesoamerica) and the creation of plants and animals. Standing out for its profound originality, in folios 24 and 25 is found the related story of the first emergence of the Sun and its relationship with entheogenic fungi, considered a sacred element by diverse ethnic groups, among which were the Nahuas, the Mixes, the Matlatzincas and the Mazatecs in addition to the Mixtecs, prior to the arrival of the Spaniards. The story begins on the banks of the Apoala River or Yuta Tnoho, with the meeting of two ñuhu (name the Mixtecs use for sacred beings even today), one red and the other golden. Then, there is a dialogue between two deities, a venerable old man and the hero of the Mixtecs people, 9-Wind or Coo Dzavui, who represents Quetzalcoatl the feathered serpent of the Mexicas. Next

appears the deity 4-Lizard transformed into the sacred mushrooms to be consumed, following which 9-Wind is shown elaborately dressed and carrying on its back 4-Lizard, with three transparent mushrooms on its head. These deities go to a place where there is the precursor of corn, the god Tlaloc and the valley of the ancient dead (Figure 2). Below that is one of the most beautiful scenes of the story, where the god 9-Wind sings accompanied by music produced by scraping a bone against a human skull. In front of him, with tears in his eyes and holding in his hand two mushrooms, is the god 7-Wind or Pilzintecuhtli, the prince of flowers represented by Xochipilli among the Mexica. The tears are probably a result of the trance. In the background are shown the two ñuhu who started the story accompanied on this occasion by a nocturnal insect (Figure 3) suggesting that the mushroom ceremony was carried out at night, just as it is currently performed in Mexican ethnic groups.



Figure 1. Geographical location of Santiago Apoala (marked inside a circle as 1) and Santiago Tilantongo (marked inside a circle as 2) places of manufacture of the Yuta Tnoho or Vindobonensis Mexicanus I Codex and distribution of the Mixtec group in Oaxaca, Mexico (located in the map in the upper right corner).

Table 1. Cronological names assigned to the Yuta Tnoho or Vindobonensis Mexicanus I Codex

Date	Name	Author
1537	Codex Hieroglyphicorum Indiae Meridionalis	J. A. Widmanstetter
1655	Hyeroglyphica Mexicana	O. Worm
1679	Annalium Mexicanorum	P. Lambeck
1690	Codex MSts Mexicanus	D. Nessel y P. Lambeck
1777	Codex Mexicanus in the Imperial Library at Vienna	W. Robertson
1816	Recueil de Vienne	von Humboldt
1825	Original Mexican Painting preserved in the Imperial Library at Vienna	E.K. Kingsborough
1901	Mexicanische Hieroglyphen-Handschrift der k.k. Hofbibliothek in Wien	Anonymous
1902	Codex de Vienne	L. Lejeal
1902	Codex de la Bibliothèque de la Cour Impériale de Vienna	L. Lejeal
1903	Mexicanische Bilderschrift der k.k. Hofbibliothek in Wien	E. Seler
1905	Códice Clementino	W. Lehman
1906	Codex Vindobonensis	E. de Jonghe
1917	Große Wiener Handschrift aus Mexiko	P. Kreichgauer
1929	Codex Vindobonensis Mexicanus I	W. Lehman y O. Smital
1941	Codex Kreichgauer	F. Röck
1947	Vienna Codex	C.A. Burland
1963	Codex Mexicanus I	O. Adelhofer
		Signature of the Österreichische Nationalbibliothek
1995	Anales de Tepexic	G. Brotherston
2004	Códice Yuta Tnoho	M. Jansen y G.A. Pérez-Jiménez

According to Humboldt (1816); Lejeal (1902); Lehman (1905); Jonghe (1905); Adelhofer (1963); Jansen *et al.* (1992); Brotherston (1995); Jansen and Pérez-Jiménez (2004).



Figure 2. Representations of the mushroom deity 4-Lizard with serpentine mouth (a), and god 9-Wind carrying the goddess 11-Lizard with three transparent mushrooms on his head (b) walking towards the valley of the ancient death people where it lives the god Tlaloc and the primordial corn (c).





Figure 3. Beginning of the mushroom ceremony, where it is possible to appreciate the god 9-Wind, equivalent to Quetzalcoatl among the Aztecs, seated, singing and making music by scraping a bone on a human skull (d) in front of the god 7-Flower, also seated, holding in his right hand two transparent mushrooms while crying (e). At the back of the scene it is possible to see a red “ñuhu” and a black insect (f).

The story continues with the inclusion of the following elements: a mat, a throne, a cradle, a walled city, and barely perceptible to the right a singing deity, which have been interpreted as elements of a message as to how to create a good kingdom (Figure 4). Facing these elements are seven deities holding transparent mushrooms in their hands. The first one is a nameless deity painted black, which holds a pair of mushrooms. The following deities holding a pair of fungi are 1-Death, a deity not clearly identified; 9-Herb; and 1-Eagle (the lady of the rivers). In con-

trast, two of the deities, 5-Flint and 4-Movement, hold only one mushroom (Figure 5). This is the only pre-Hispanic representation of a mushroom ceremony, which has survived in Mesoamerica. Then, there is a character painted black that is thrown into a cave on the Apoala River or Yuta Tnoho, to later emerge as 7-Wind, holding in his hand yellowish-brown plants or sacred mushrooms. 7-Wind is now wearing an eagle mask and two faces, each looking to another side. In front of him is 7-Movement, beautifully adorned with a jaguar head.



Figure 4. As a central part of the mushroom ceremony, it is possible to appreciate the participation of eight deities. Only one of them, which hold two transparent mushrooms, has no name and is painted in black (h); in front of this deity we can observe the elements that represent the new kingdom to be formed: a mat, a throne, a cradle and a walled city. At the end the symbol of a song is also appreciated (g).



Figure 5. In the scene related to the “mushroom nocturnal meeting” the deities 1-Death (i), 4-Movement (j), a deity not clearly identified (k), 5-Flint (l), 9-Grass (m) and 1-Eagle (n) participate. All of them hold two transparent mushroom, except 5-Flint and 4-Movement, which hold only one mushroom. The best preserved is the goddess 1-Eagle (n).

Subsequently, six deities appear, but now without mushrooms. In pre-Hispanic Mexico it was believed that mushrooms could be a path to spiritual growth or rebirth. Perhaps for that reason the deities now appear changed after consuming them; some of them appear larger, others with new clothes or with additional ornaments. The story continues with what seems from the calendrical signs to be a long wait. There are now three elements. The first is a pyramid that sings, a unique representation in its type in Mesoamerica. The second is the Apoala River but now with its waters beautifully red, yellow and blue; on the bank of the river two elements emerge – on the left the glyph of a mountain and on the right the glyph of an incipient sun. The third element is a corral of stones.

The story continues with the birth of the sun, on a pyramid that now contains its songs, to let the new sun shine in all its splendour, represented by the glyph 1-flower. However, when it reaches the zenith, it is represented as a powerful warrior, who throws powerful rays like arrows. The new sun has been born, through a sacred ceremony involving the hero of the Mixtecs, 9-Wind, which brought the sacred mushrooms that were consu-

med in total by eight deities of the highest rank. The story concludes with the element of duality of light and darkness, or night and day, which is characteristic of the worldview of the Mesoamerican world. The element of day and night appears first on a mountain, then on a plain, and finally, in an element full of profound symbolism, on a path.

The Codex Yuta Tnoho or Vindobonensis Mexicanus I is a pictographic document of Mixtec origin, and although it is not possible to determine precisely the date and place of its elaboration, based on its techniques of preparation and content, it is considered to date from the beginning of the 16th century, and its origin is definitely deemed pre-Hispanic. The Codex is a long screen of tanned deer hide, treated with layers of stucco such that it can be drawn on. It has 52 sheets that are approximately 22 cm wide by 26 long, painted on both sides. It is the most extensive pre-Hispanic document of the Mixtec culture.

Originally, the manuscript must have belonged to a ruler or high priest of “Ñuu Tnoo” (“Black City” or “Black Place”), now Santiago Tilantongo, prior to the arrival of the Spaniards. By 1521 according to some historians or 1523 according to others,



the Codex had already arrived in Europe, which implies that it was seized and sent by the conquistadors shortly following the conquest (Jansen, 1982). After arriving in Spain, probably with Seville as the entry point, the Codex went through the hands of at least 12 different owners, in 5 countries, including popes, kings, cardinals, dukes and collectors, until after a history full of vicissitudes, including inheritance, wars, gifts and diplomacy, it was finally deposited in what is now the Austrian National Library in Vienna (Jansen *et al.*, 1992) (Table 2).

With regard to its destination after its arrival in Spain there are two hypotheses: i) the first states that it could have been delivered by the Dominican friars to Cardinal Adriano Florensz, also known as Adriano de Utrecht, who would become Pope Adriano VI, who at the end of his Papacy would bequeath it to Pope Clement VII; ii) the second hypothesis based on an inscrip-

tion of the owner that appears at the end of the Codex indicates that the first European owner was King Manuel of Portugal, who probably obtained it directly from Carlos V, who in turn would have received it as part of the Mexican treasures sent to him by Hernán Cortés. After the death of King Manuel of Portugal, in 1521, the codex became property of Giulio dei Medici who would become Pope Clement VII. However, it is known that upon his death in 1534, Pope Clement VII bequeathed the Codex to his son, Cardinal Ippolito dei Medici. Barely a year after his father's death, on August 10, 1535, the cardinal died as well. The codex then passed into the hands of a Dominican of German origin, the Cardinal of Capua, Nikolaus von Schömberg, who had it until his death in 1537. It then passed into the hands of his secretary, the German humanist and philologist Johann Albrecht Windmanstetter, who took it to Bavaria, the

Table 2. Historical record of ownership changes of the *Yuta Tnoho* or *Vindobonensis Mexicanus I* Codex and geographical locations

Date of ownership	Owner	City and Country	Reason of change of ownership
Before 1521	Governor or supreme priest	Santiago Tilantongo, Oaxaca, Mexico	Unknown with certainty, probably gift
c. 1523	Dominic friars *	Sevilla, Spain	Heritage
	Cardinal Adriano of Utrecht, who become later Pope Adriano VI *	Rome, Italy	
	Spanish King Carlos V**	Sevilla, Spain	
	King Manuel of Portugal**	Lisboa, Portugal	
	Giulio de Medici, who became later Pope Clement VII	Rome, Italy	
1534 to 1535	Cardinal Ippolito dei Medici	Rome, Italy	Unknown with certainty, probably heritage
1535 to 1537	Cardinal of Capua Nikolaus von Schömberg	Capua, Italy	Unknown
1537 to 1557	Johann Albrecht Widmanstetter	Baviera, Germany	Unknown
1558	Duke Alberto V	Baviera, Germany	Obtained by purchase
1632	Duke Guillermo V and Maximiliano I	Munich, Germany	Obtained by purchase
1632 to 1662	Duke Wilhelm IV	Sajonia-Weimar, Germany	Taken during the looting of the Thirty Years' War in Munich
1662 to 1667	Juan Jorge I	Sajonia-Eisenach, Germany	Unknown with certainty, probably heritage
1667	Leopoldo I	Habsburgo, Austria	Obtained as a gift
1667 to date	National Library of Austria	Vienna, Austria	Unknown with certainty, probably gift or donation

\* owners according to the first hypothesis mentioned in the text; \*\* owners according to the second hypothesis mentioned in the text. Based in Adelhofer (1963); Furst (1978); Jansen (1982) and Jansen *et al.* (1992).



present republic of Germany. After his death on March 28, 1557, his library, including the Codex, was bought by Duke Albert V of Bavaria. Thus, the Codex arrived in Munich into the ownership of the dukes Guillermo V and Maximiliano I. Munich was sacked in 1632, during the Thirty Years' War, and the Codex ended up in the hands of Duke Wilhelm IV of Sachsen-Weimar. His son Prince Juan Jorge of Saxony-Eisenach presented the Codex as a gift to Emperor Leopold I of Habsburg in 1677. Since then, it has been in the Imperial Library, now the National Library of Austria, in Vienna (Adelhofer, 1963; Furst, 1978; Jansen *et al.*, 1992).

The Codex has had 20 different names, of which the most commonly used to date has been Codex Vindobonensis Mexicanus I. However, it seems incongruous to give a Mexican codex of Mixtec origin a Latin name. The reverse side of the Codex was the last to be painted, with a pictorial tradition different from that of the obverse. The pictorial text, incomplete and made with haste and inaccuracy, contains the genealogy of the kings of Ñuu Tnoo, now Santiago Tilantongo, in the Mixteca Alta of the State of Oaxaca. This place-name means “Black City”, and its hieroglyph consists of a board with frets (the sign for ñuu, “city, town, people”) coloured black (tnoo). This toponymic hieroglyph is mentioned as the first site on the first page, folio 52, on the obverse. Due to these elements, the genealogy on the reverse and the first place on the obverse, it is likely that the Codex originated in Ñuu Tnoo, which was a very important city-state in the post-classical era. Additionally, a central scene in the Codex is the birth of the founders of the Ñuu Dzauí dynasties of Iyadzehe Yutnu Nuú, the great mother ceiba or pochote tree, in the sacred valley of Yuta Tnoho. Given this main theme, it is preferable to call this document Codex Yuta Tnoho (pronounced in the region as Yutsa Tohon) or Apoala Codex, and this is now the officially recognized name (Jansen and Pérez-Jiménez, 2004; 2008; Wikifilologia, 2017).

In the present work, it was possible to record two pieces of evidence of the use of entheogenic fungi among the Mixtecs at present. Residents of the community of Santa Catarina Estetla mentioned that in San Antonio Huitepec, healers or shamans use mushrooms for divination or healing (Santiago *et al.*, 2016). Additionally, Mr Domingo Hernández, also an inhabitant of the community of Santa Catarina Estetla, mentioned that Mr.

Felipe Neri Santiago, healer and inhabitant of the community of San Antonio Huitepec, once consumed hallucinogenic mushrooms or xi'i ndoto, which can translate as “fungus that awakens”, to consult and solve a personal problem.

## DISCUSSION

The Mixtecs are the heirs of a rich history and culture that is reflected in various codices and archaeological monuments that have survived to date. Currently, the Mixtec group is the third largest in Mexico, after the Nahuas and Mayas, with around half a million speakers (INEGI, 2010). Since pre-Hispanic times, the Mixtecs were settled in a vast territory that includes the northwest of the state of Oaxaca, the southern tip of the state of Puebla and a strip in the eastern state of Guerrero. The word mixteca comes from Nahuatl, and its meaning is “inhabitants of the Mixtlan or the place of the clouds”. In the Mixtec language, they call themselves ñuu savi ó yucu ñuu dau (davi), which means “people of the rain or place of rain” (Alavez, 1988, Mindék, 2003). The language belongs to the Otomangue language group, which also includes Zapotec, Otomi, Mazatec and Chinantec. Mixtec is a tonal language, meaning that the meaning of a word changes according to the tone used, and it has 81 linguistic variants (INALI-DOF, 2008). The Mixtecs were great creators of codices, of which the following survived destruction by the conquistadors: Yuta Tnoho, Nutall and Selden. These codices present the Mixtec worldview and its dynastic history from the seventh to the sixteenth century (Terrazas, 2017). In the Codex Yuta Tnoho, it is mentioned how the Mixtec lords performed rituals associated with corn, pulque and mushrooms that would lead to the dawn or first sunrise in the current era.

The obverse of the Codex Yuta Tnoho, painted with great precision and artistic mastery, is the only pre-Hispanic Mixtec story unmistakably related to the creation of the universe, the birth of its gods, its sacred plants and rituals, the first dawn and the order of the Mixtec world. In contrast, the reverse is elaborated with much lower quality and narrates the genealogies and historical Mixtec characters from the year 7-Flint until the year 7-House, equivalent to the years 720 to 1305 of our era (Caso, 1950). The obverse can be divided into clear narrative sections. A detailed description of these was provided by Furst (1978), who distinguished the following parts: i) the story of the 1-Deer



couple representing the mother and father of the gods and their offspring; ii) the creation of stone objects and the birth of the deity 9-Wind or Coo Dzavui (literally the serpent of the rain), the Mixtec hero, from a flint or stone blade; iii) the birth of the Mixtec gods and nobles from a tree in Apoala or Yute Tnoho; iv) the first meeting of the gods to witness the first organization of the Mixtec world; v) the birth of corn; vi) the pulque ritual; vii) the ritual with the sacred mushrooms prior to the first dawn; and viii) the organization of the Mixtec world by the gods.

There is scant evidence on the use of hallucinogenic mushrooms by the Mixtec group. Heim and Wasson (1958) and Ravicz (1960) mentioned the use of neurotropic fungi (*Psilocybe mexicana* Heim) in the Mixteca Alta region; however, these authors did not indicate the communities studied. The scarcity of current use of entheogenic mushroom species of the genus *Psilocybe* for sacred or divinatory purposes in the Mixtec group contrasts with: i) the enormous diversity of these species in the state of Oaxaca, which includes 27 species of the 53 hallucinogenic *Psilocybe* species known in Mexico (Ramírez-Cruz *et al.*, 2006), and ii) the evidence in pictographic documents such as the Yuta Tnoho Codex or Vindobonensis Mexicanus I, in which a sacred ceremony is recounted where diverse Mixtec deities consume sacred mushrooms prior to the first dawn (Caso, 1963; Furst, 1978; Jansen *et al.*, 1992; Jansen and Pérez-Jiménez, 2007) described in detail in the present manuscript, and the Lienzo de Zacatepec or Codex Mixteco Martínez Gracida, made between 1540 and 1560 (Smith, 1973), in which a glyph shows a man with mushrooms on his head on the top of a hill, in what has been interpreted as a sacred place where ceremonies were held with mushrooms (Wasson, 1983).

A factor that could have influenced the decrease in the use of sacred mushrooms could be the religious persecution to which pre-Hispanic practices were subjected upon the arrival of Christianity in the region. The Book of Yodzo Cahi or Codex of Yanhuatlán demonstrates the use of fungi among the Mixtecs in the colonial era, a practice that led to persecution by the Catholic Church. There is a documented account of an inquisition, from 1544 to 1546, where three Mixtec Indians converted to Christianity and testified about their ostentatious worship of the pre-Hispanic gods. The most important of them rendered his declaration in Mixtec, indicating that he had ingested

entheogenic mushrooms to invoke divine help on several occasions (Jiménez and Mateos, 1940).

At present, the Mixtec group has scarcely been studied from the ethnomycological point of view. The first formal study related to the biocultural importance of wild mushrooms in this group was published only recently, indicating that this group's traditional knowledge is very accurate and comparable to current scientific knowledge (Santiago *et al.*, 2016).

## CONCLUSIONS

The pictograms that appear in folios 24 and 25 of the Codex Yuta Tnoho constitute unequivocal evidence of the importance of entheogenic fungi in the Mesoamerican worldview prior to the arrival of the Spaniards. This evidence constitutes a unique piece of the cultural and ceremonial importance of said fungi in the Mixtec group. The ceremonial use of fungi currently survives in groups that are geographically close to the Mixtecs, such as the Mixes, Mazatecs and Zapotecs.

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