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The World's Oldest Tattoos

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The World's Oldest Tattoos

Aaron Deter-Wolf\textsuperscript{a}, Benoît Robitaille\textsuperscript{b}, Lars Krutak\textsuperscript{c}, and Sébastien Galliot\textsuperscript{d}

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Highlights

- Although tattooing has been practiced by cultures across the globe and throughout human history, the precise antiquity of the practice is unknown.
- There has been a discrepancy between popular and scholarly sources regarding the identity of the oldest tattooed human remains.
- Through reexamination of radiocarbon data we are able to identify the source of this confusion.
- This research conclusively determines that the oldest preserved tattoos known to date belong to the Tyrolean Iceman, also known as Ötzi.

Keywords

Tattoo; radiocarbon; Chinchorro; Ötzi; mummies

Abstract

The practice of tattooing has been documented in cultures across the globe and throughout recorded history. While there are several lines of archaeological evidence through which to study ancient tattooing, the marks identified on naturally and deliberately preserved human skin provide the only direct evidence of tattooing in antiquity. Until recently there was a discrepancy regarding the identity of the oldest tattooed human remains, with popular and scholarly sources alternately awarding the honor to the Tyrolean Iceman known as Ötzi, or to an unidentified South American Chinchorro mummy. Through a reexamination of the identity of the South American specimen and the associated radiocarbon data, we are able to identify the source of this confusion, and confirm that Ötzi presents the world's oldest preserved tattoos.

1. Introduction

Tattooing, the practice of inscribing the skin with permanent designs and patterns, is a global and indefinably ancient practice. Historical and archeological evidence show tattooing was practiced throughout the world in antiquity, and Indigenous cultures from every continent except Antarctica included tattooing as an essential element of their cultural fabric. Both the body marks and the tattooing process acted to negotiate relationships between individuals and their society, nature, and the spiritual realm. Depending on the culture and time period, Indigenous tattoo traditions have functioned to signal entry into adulthood, reflect social status, document martial achievement, demonstrate lineage and group affiliation, and to channel and direct preternatural forces (see Krutak, 2007, Krutak, 2012 and Krutak, 2014a).
Cultural contacts, exchanges, missionization, acculturation, and the formation of colonial empires had a widespread negative impact on Indigenous tattoo practices. As a consequence of these factors and the relative biases and inaccuracies of early ethnographic and ethnohistorical accounts, many Indigenous tattoo designs and practices have been forgotten, banned, or disconnected from their prior context and appropriated into modern tattoo culture. Traditional tattooing tools, pigments, and rituals that once held strong cultural values have given way to modern technologies, health regulations and the consumer marketplace.

In today's global, Westernized society tattooing has both proliferated rapidly and become less collectively regulated, if not entirely culturally unanchored. Rather than specific marks and the circumstances of their application being mandated by social codes, individuals are now largely free to select what, where, and how they are tattooed according to their own intentions. Nevertheless, there exists interest among the tattoo community in documenting and understanding the history of the practice, particularly in regard to the iconography, techniques, and origins of this ancient art.

Despite increasing scholarly and public interest in ancient tattooing over the past decade, there has been ongoing confusion regarding the identity of the oldest preserved tattoos. Popular texts and online sources typically identify the oldest tattoos as belonging to the naturally-mummified European body known as Ötzi. More scholarly sources have alternatively proposed that the oldest tattoos are found on mummified remains from the Chinchorro culture of South America. Following recent research into the identity of the Chinchorro mummy and reexamination of radiocarbon dates we are now able to identify the cause of this discrepancy and conclusively identify what are, to date, the oldest tattoos in the world.

2. Background

Although written records of tattooing date back to at least the 5th century BC in Greece (Jones, 1987 and Jones, 2000), and possibly several centuries earlier in China (Reed, 2000), the actual antiquity of the practice, both on a regional basis and as a worldwide phenomenon, remain unknown. In an effort to understand the time depth associated with tattooing, scholars must instead turn to the archeological record. There are three principal lines of archeological evidence for tattooing in ancient and pre-literate societies: Anthropomorphic art, tattoo tools, and preserved human skin (Deter-Wolf, 2013 and Tassie, 2003). The first two lines of evidence allow for some conjecture as to the antiquity of tattooing and suggest the practice may have originated at least as early as the Upper Paleolithic. However, interpreting possible permanent body decoration in ancient art is difficult, and methods for differentiating between tattoo tools and similar implements that may have served different functions are not yet refined (e.g., Deter-Wolf, 2013, Piprani, 2010, Renault, 2004b, Hendrix, 2003, Tassie, 2003 and Zidarov, 2009). Consequently, the best evidence, and only direct archeological proof, for the antiquity of tattooing is found on preserved human skin.

Hundreds of ancient naturally and deliberately mummified tattooed human bodies have been recovered from throughout the world, including the American Arctic, Greenland, Siberia, Western China, the Philippines, Africa, Europe, Mexico, and the Andes. Table 1 presents a selected list of these remains as well as information on associated dates, cultures, and sites. This accounting is by no means comprehensive, as it does not include unpublished and unprovenanced specimens from museums and private collections. In addition, many of the examples included here were collected prior to modern archeological practices, have not been extensively reported, or are from regions with emerging cultural chronologies. In these cases, the approximate ages provided in Table 1 are assigned according to associated artifacts or general culture ranges rather than through direct dating.
Table 1. Tattooed human mummies, with associated cultures, dates, and sites.

<table>
<thead>
<tr>
<th>Date</th>
<th>Culture</th>
<th>Site</th>
<th>Identifier</th>
<th>Sex</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>3370–3100 BC</td>
<td>Tamiris-Carassos-Islera 5</td>
<td>Tiksi</td>
<td>Özi</td>
<td>M</td>
<td>See discussion, this article</td>
</tr>
<tr>
<td>2600–2400 BC</td>
<td>Catacomb Culture</td>
<td>Temna III, Russia</td>
<td>Tomb 2, Grave 1</td>
<td>M</td>
<td>Shishlina et al. (2013)</td>
</tr>
<tr>
<td>2600–2400 BC</td>
<td>Catacomb Culture</td>
<td>Primorsky I, Russia</td>
<td>Tomb 1, Grave 10</td>
<td>M</td>
<td>Shishlina et al. (2013)</td>
</tr>
<tr>
<td>2563–1972 BC</td>
<td>Chinchorro</td>
<td>El Morro</td>
<td>Mo-I T28 C22</td>
<td>M</td>
<td>See discussion, this article</td>
</tr>
<tr>
<td>2300–1500 BC</td>
<td>C-Group</td>
<td>Kubban Cemetery 110, Egypt</td>
<td>Grave 271</td>
<td>F</td>
<td>Firth (1927)</td>
</tr>
<tr>
<td>2134–1991 BC</td>
<td>Dynasties XI</td>
<td>Deir el Bahari, Egypt</td>
<td>Amunet, Pit 23, Pit 26 (total 3 individuals)</td>
<td>F</td>
<td>Daressy (1983)</td>
</tr>
<tr>
<td>2100–1500 BC</td>
<td>Gumugou</td>
<td>Qawawikh, China</td>
<td>Loulan Beauty</td>
<td>F</td>
<td>Barber (1999); Romgard (2008)</td>
</tr>
<tr>
<td>2055–1700 BC</td>
<td>C-Group</td>
<td>Nakhen Cemetery HK27, Egypt</td>
<td>Tomb 9, Tomb 10, Tomb 36 (total 3 individuals)</td>
<td>F</td>
<td>Friedman (2004); Pieri and Antoine (2014)</td>
</tr>
<tr>
<td>1250 BC–AD 100</td>
<td>Subeici</td>
<td>Yanghai, China</td>
<td>Multiple individuals?</td>
<td>–</td>
<td>Li (2010) (as cited in Parkovka, 2013)</td>
</tr>
<tr>
<td>1250 BC–AD 100</td>
<td>Subeici</td>
<td>Shengindian, China</td>
<td>Multiple individuals?</td>
<td>–</td>
<td>Jiang et al. (2015)</td>
</tr>
<tr>
<td>1000–600 BC</td>
<td>Zaghrunlq</td>
<td>Zaghrunlq, China</td>
<td>Unnamed woman*</td>
<td>F</td>
<td>Mallory and Mair (2008); Romgard (2008)</td>
</tr>
<tr>
<td>800–550 BC</td>
<td>Qizilchhoq</td>
<td>Qizilchhoq, China</td>
<td>Multiple individuals?</td>
<td>F</td>
<td>Mallory and Mair (2008); Romgard (2008)</td>
</tr>
<tr>
<td>400–200 BC</td>
<td>Pazyryk</td>
<td>Pazyryk burial ground, Russia</td>
<td>Burial 2 (two individuals), Burial 5 (two individuals)</td>
<td>M/F</td>
<td>Barkova and Parkovka (2005)</td>
</tr>
<tr>
<td>400–200 BC</td>
<td>Pazyryk</td>
<td>Ak-Alakha 3, Russia</td>
<td>Princess of Ukok (Tomb 1)</td>
<td>F</td>
<td>Polosmak (2000)</td>
</tr>
<tr>
<td>500 BC–AD 100</td>
<td>Paracas</td>
<td>Wari Kayan Necropolis, Peru</td>
<td>M12, M28, M29, M30, M32, M66, M67, M70, M73, M81, M85, M86, M87, M110, M199, M234, M319, M355, M420, M437, M451 (total 20 individuals)</td>
<td>M/F</td>
<td>Malta and Minaya (2014)</td>
</tr>
<tr>
<td>332 BC–AD 395</td>
<td>Graeco-Roman Period</td>
<td>Akhmim, Egypt</td>
<td>Multiple individuals</td>
<td>F</td>
<td>Strohual (1992)</td>
</tr>
<tr>
<td>300 BC–AD 400</td>
<td>Meroitic Period</td>
<td>Semma South, Sudan</td>
<td>N-247</td>
<td>–</td>
<td>Akvus (2001)</td>
</tr>
<tr>
<td>300 BC–AD 400</td>
<td>Meroitic Period</td>
<td>Aksha, Egypt</td>
<td>Multiple individuals</td>
<td>F</td>
<td>Vila (1967)</td>
</tr>
<tr>
<td>300 BC–AD 400</td>
<td>Meroitic Period</td>
<td>Various cemeteries</td>
<td>Multiple individuals</td>
<td>–</td>
<td>Shinnie (1967)</td>
</tr>
<tr>
<td>AD 250</td>
<td>Mixtec</td>
<td>Santa Maria Camotlan, Oaxaca</td>
<td>Momia Tolteca</td>
<td>F</td>
<td>Leboereio et al. (2013)</td>
</tr>
<tr>
<td>AD 282–405</td>
<td>Old Bering Sea</td>
<td>St. Lawrence Island, Alaska</td>
<td>–</td>
<td>F</td>
<td>Smith and Zimmerman (1975)</td>
</tr>
<tr>
<td>AD 372–402</td>
<td>Tashktyk</td>
<td>Oglakhtynsky, Russia</td>
<td>Tomb 4</td>
<td>M</td>
<td>Pankova (2013)</td>
</tr>
<tr>
<td>AD 450</td>
<td>Mochica</td>
<td>El Brjou, Peru</td>
<td>La Señora de Cao</td>
<td>F</td>
<td>Franco (2008)</td>
</tr>
<tr>
<td>AD 500–1000</td>
<td>Huari</td>
<td>Department of Ica, Peru</td>
<td>Multiple individuals</td>
<td>–</td>
<td>Allison (1996)</td>
</tr>
<tr>
<td>AD 700–800</td>
<td>Mochica</td>
<td>Pacatnamu, Peru</td>
<td>H28 Burial 5</td>
<td>F</td>
<td>Verano (1997)</td>
</tr>
<tr>
<td>AD 850–1470</td>
<td>Chimu</td>
<td>Huaura Valley, Peru</td>
<td>Multiple individuals</td>
<td>–</td>
<td>Krutak (2007)</td>
</tr>
<tr>
<td>AD 675–1025</td>
<td>Tiwanaku</td>
<td>Azapa 71, Chile</td>
<td>AZ-71 HMT.3</td>
<td>F</td>
<td>Armaza (1988)</td>
</tr>
<tr>
<td>AD 950</td>
<td>Casma</td>
<td>Casma Valley, Peru</td>
<td>Multiple individuals</td>
<td>–</td>
<td>Allison (1996)</td>
</tr>
<tr>
<td>AD 1000</td>
<td>Chiribaya Alta</td>
<td>Unknown, Peru</td>
<td>–</td>
<td>F</td>
<td>Pabol et al. (2010)</td>
</tr>
<tr>
<td>AD 1000</td>
<td>Ychma</td>
<td>Cemetery 1, Pachacamac, Peru</td>
<td>Multiple individuals</td>
<td>–</td>
<td>Herrmann and Meyer (1993); Owens and Eeckhout (2015)</td>
</tr>
<tr>
<td>1100 AD</td>
<td>–</td>
<td>Ancón, Peru</td>
<td>Multiple individuals</td>
<td>–</td>
<td>Reiss and Stübel (1880–1887); Hambly (1925)</td>
</tr>
<tr>
<td>AD 1100–1250</td>
<td>Mitas Chiribaya</td>
<td>Azapa 140, Chile</td>
<td>AZ-140 T.41</td>
<td>F</td>
<td>Armaza (1988)</td>
</tr>
<tr>
<td>AD 1100–1400</td>
<td>Chancay</td>
<td>Cerro Colorado, Peru</td>
<td>El hombre tatuado de Huacho</td>
<td>M</td>
<td>Ruiz (1998)</td>
</tr>
<tr>
<td>AD 1100–1400</td>
<td>Chancay</td>
<td>La Centinela, Peru</td>
<td>–</td>
<td>M</td>
<td>Vivar (2009)</td>
</tr>
<tr>
<td>AD 1100–1500</td>
<td>Iraly</td>
<td>Benguet, Philippines</td>
<td>Apos Anno (multiple additional individuals)</td>
<td>M</td>
<td>Außerheide (2003); Piombino-Mascal et al. (2013)</td>
</tr>
<tr>
<td>AD 1200</td>
<td>San Miguel</td>
<td>Arica area, Chile</td>
<td>Multiple individuals</td>
<td>M</td>
<td>Allison (1996); Armaza (1988)</td>
</tr>
<tr>
<td>AD 1250</td>
<td>Ica</td>
<td>Department of Ica, Peru</td>
<td>17, 25, Cateo 2A, Cateo 12 (total 4 individuals)</td>
<td>F</td>
<td>Allison et al. (1981)</td>
</tr>
<tr>
<td>AD 1263–1287</td>
<td>–</td>
<td>Ancon, Peru?</td>
<td>La Mexicana</td>
<td>F</td>
<td>Alteraue et al. (2013)</td>
</tr>
<tr>
<td>AD 1319–1361</td>
<td>Chiu-Chiu (Solar Phase)</td>
<td>Chiu-Chiu, Chile</td>
<td>–</td>
<td>F</td>
<td>Gill-Ferking et al. (2013)</td>
</tr>
<tr>
<td>AD 1350</td>
<td>Chimu-Casma</td>
<td>Casma Valley, Peru</td>
<td>SP 292, SP 293, SP 294, SP 295, SP 296, SP 297, SP 298, SP 299, SP 300A, SP 300B, SP 301, SP 302, SP 303 (total 13 individuals)</td>
<td>M/F</td>
<td>Allison et al. (1981)</td>
</tr>
<tr>
<td>AD 1450</td>
<td>Inca</td>
<td>Department of Ica, Peru</td>
<td>53</td>
<td>F</td>
<td>Allison et al. (1981)</td>
</tr>
<tr>
<td>AD 1475</td>
<td>Inuit</td>
<td>Qalikassoq, Greenland</td>
<td>I/3, I/4, I/5, I/6, I/8 (total 5 individuals)</td>
<td>F</td>
<td>Hansen et al. (1991)</td>
</tr>
<tr>
<td>AD 1600</td>
<td>Ica Colonial</td>
<td>Department of Ica, Peru</td>
<td>AIM 8, AIM 12, Cateo 2A, Cateo 10, HMS (total 5 individuals)</td>
<td>F</td>
<td>Allison et al. (1981)</td>
</tr>
</tbody>
</table>

a. Facial markings on “Chärchän Man” and “Chärchän Woman,” (Tomb 2) are popularly reported as tattooing but are likely paint.
Of these numerous finds, by far the best-known example of a tattooed mummy is the naturally preserved remains of the Tyrolean Iceman known as Ötzi. Following his death around 3250 BC (Kutschera and Müller, 2003) Ötzi was entombed beneath an alpine glacier, where a combination of glacial meltwater and extreme cold resulted in the natural mummification of his body and preservation of his clothes and tools. Following his accidental discovery in 1991 Ötzi became an international archeological sensation, and more than two decades of scientific analysis have generated a fantastic body of data on his life, health, environment, and the circumstances surrounding his death (e.g., Capasso, 1998, Ermini et al., 2008, Fowler, 2000, Gostner et al., 2011, Höpfel et al., 1992, Janko et al., 2012, Keller et al., 2012, Kutschera et al., 2014, Maixner et al., 2013, Müller et al., 2003, Murphy et al., 2003, Spindler, 1993 and Spindler et al., 1995).

Ötzi bore 61 tattoo marks across his body (Samadelli et al., 2015), including on his left wrist, lower legs, lower back, and torso (Figure 1). These include 19 groups of lines, ranging from 1 to 3 mm in thickness and 7 to 40 mm in length. The greatest concentration of markings is found on his legs, which together bear 12 groups of lines. As with other aspects of the Iceman, these marks have been extensively examined in regard to their placement, composition, and possible function as therapeutic treatments (e.g., Capasso, 1993, Dorfer et al., 1998, Dorfer et al., 1999, Gaber et al., 1995, Pabst et al., 2009, Sjøvold, 2003, Krutak, 2012 and Renaut, 2004a).

Figure 1. Locations of tattoos on the Iceman (Image courtesy the South Tyrol Museum of Archaeology, copyright South Tyrol Museum of Archaeology/EURAC/Samadelli/Staschitz).
Many popular and online discussions of tattoo history identify Ötzi as exhibiting the world’s oldest preserved tattoos (e.g., Gay and Whittington, 2002, Guinness World Records, 2015, Levin, 2009 and Smith, 2011). However, until recently more scholarly studies on the history of tattooing, including works by the authors and others (DeMello, 2014, Deter-Wolf, 2013, Diaz-Granados and Deter-Wolf, 2013, Krutak, 2007, Krutak, 2013, Krutak, 2014b and Pabst et al., 2010) bestowed this title instead on the mummified remains of a man belonging to the Chinchorro culture of South America. This preceramic fishing society inhabited coastal regions of modern Chile and Southern Peru between about 7000 and 1100 BC. Chinchorro burials exhibit both natural and deliberate mummification beginning very early in the cultural sequence, making them the oldest human mummies identified to date (Arriaza, 1995b and Standen, 1997).

In his contribution to the third volume of The Man in the Ice, Marvin Allison (1996:126) writes “The oldest tattoo that we have found was from the Chinchorro culture and was a thin pencil mustache tattooed on the upper lip of a male adult probably about 6000 BP.” This find of preserved tattoos therefore appears to predate Ötzi by around 700 years. Although Allison does not specify the identity or provenience of the mummy in question, further research has allowed us to identify the individual to whom Allison refers.

### 3. The Identity of the Chinchorro mummy

In October of 1983, water line construction in a sandy bluff overlooking the city of Arica, Chile unexpectedly encountered multiple graves containing naturally and deliberately mummified remains from the Chinchorro culture. A total of 96 bodies were subsequently recovered from the site, known as El Morro, by staff from the University of Tarapacá's San Miguel de Azapa Archaeological Museum (Arriaza, 1995c). In the initial analysis of these remains Allison and colleagues (1984:170) identified only a single example of tattooing, which they describe as “un bigotito formado por una serie de puntos con carbón abajo de la piel.” No sex or specific identifying information was reported for the tattooed individual.

In his 1988 examination of social organization among prehistoric populations of Northern Chile, Arriaza reports that only four mummies in the San Miguel de Azapa collection exhibit tattooing. These include a single Chinchorro male recovered from El Morro, and three female mummies from the later Maitas Chiribaya, Tiwanaku, and San Miguel cultures (Arriaza, 1988)(see also Table 1). In the 1988 study and subsequent works the naturally-mummified Chinchorro male is identified as Mo-1 (or Morro 1) T28 C22, and assessed as being 35–40 years old at the time of death (Arriaza, 1988, Arriaza, 1994, Arriaza, 1995a and Arriaza, 1995b). The tattoos Arriaza describes on this individual consist of single lines of black dots across the upper lip to either side of the nose “a modo de bigotes” (Arriaza, 1988:21) (Figure 2).

The lines of discrete dots along the upper lip of Mo-1 T28 C22 initially described by Allison et al. (1984) and illustrated by Arriaza (1988: Figure 4a), do not precisely match with Allison's later description of a “pencil thin mustache” (Allison, 1996:126). However, so far as our research has been able to determine no other similarly tattooed Chinchorro mummies have been recovered to date. In his comprehensive study of Chinchorro mummies, Arriaza (1995a: 120) writes that “Within the natural Chinchorro mummies, only one body was found to be decorated: the face has a dotted
mustache-like tattoo.” It therefore appears that Mo-1 T28 C22 is the tattooed Chinchorro mummy that Allison (1996:126) reported originating “probably about 6000 BP.”

4. Radiocarbon dates

Ötzi has been the subject of extensive radiocarbon dating efforts. In addition to 14C samples from his bones and tissue (e.g., Bonani et al., 1994 and Prinot-Fornwagner and Niklaus, 1994), investigators have also processed samples from his wooden bow, pannier, ax shaft, quiver, and clothing, as well as mosses, leather, and animal hair recovered from the gully where Ötzi was entombed (Rom et al., 1999). The 14C dates for Ötzi have been extensively reported in these and other sources, and confirm that Ötzi died during the time period ca. 3370–3100 cal BC.

During the 1980s, a sample of lung tissue from the Chinchorro mummy Mo-1 T28 C22 was submitted to Teledyne Isotopes laboratory of New Jersey (lab sample number I-13652) for radiocarbon dating. That sample returned an uncalibrated date reported both as 1880 ± 100 BC and 3830 ± 100 BP (Allison et al., 1984, Arriaza, 1988, Arriaza, 1994 and Arriaza, 1995b). These dates present the radiocarbon age for the sample, the calibrated range for which was reported as 2563–1972 cal BC (Arriaza, 1995b: Table 2)(Figure 3).

<table>
<thead>
<tr>
<th>Site</th>
<th>Mummy Type</th>
<th>Radiocarbon Date (B.C.)</th>
<th>Calibrated Age (B.C.)</th>
<th>Sample</th>
<th>Lab Number</th>
<th>References</th>
</tr>
</thead>
<tbody>
<tr>
<td>Morro 1 T28 C22</td>
<td>Natural</td>
<td>1,880 ± 100</td>
<td>2563 (2280) 1972</td>
<td>lung</td>
<td>I-13652</td>
<td>Allison et al. (1984)</td>
</tr>
</tbody>
</table>

Figure 3. Excerpt of Arriaza 1995b Table 2 showing the radiocarbon date for Mo-1 T28 C22.

5. Conclusions

The radiocarbon dates discussed above clearly identify Ötzi as the oldest tattooed human remains discovered to date, antedating the Chinchorro mummy Mo-1 T28 C22 by at least 500 years. Previous scholarly misidentifications of the Chilean specimen as the oldest tattooed remains appear to be the result of misreading the radiocarbon data. Specifically, this is the result of confusing the date of 3830 ± 100 radiocarbon years BP obtained from the lung tissue of Mo-1 T28 C22 as instead presenting 3830 ± 100 years BC. The mistaken date is subsequently transposed as 5780 BP, thereby matching Allison’s (1996) account of the mummy originating ca. 6000 BP.

This initial error has been compounded by more recent studies that further misinterpret the age of Mo-1 T28 C22. Citing Allison (1996); Pabst and al. (2010:3259) write that “The oldest known tattoos date from 6000 BC from the Chinchorros [sic] culture. They show a thin pencil mustache tattooed on the upper lip of a male adult.” (emphasis ours). By transposing Allison’s mistaken 6000 BP to 6000 BC – effectively 8000 BP – this source and others (e.g., Deter-Wolf, 2013, Diaz-Granados and Deter-Wolf, 2013, Friedman, 2015, Gill-Frerkling et al., 2013 and Krutak, 2007) have pushed the date of the Chinchorro mustache tattoo back some 4000 years earlier than the actual radiocarbon date for the mummy. Although naturally mummified remains are indeed present in the archeological record of the Chinchorro culture by around 6000 BC (Arriaza, 1994, Arriaza, 1995b and Aufderheide et al., 1993), Mo-1 T28 C22 appears to be the only documented example of Chinchorro tattooing to date.

Although Ötzi can now be demonstrated to be the oldest tattooed human so far discovered, it is highly unlikely that he represents the first tattooed person on earth. Instead, Ötzi’s 61 marks represent physical actions performed on his body as part of established social or therapeutic...
practices that almost certainly existed within his culture well before his birth. While other lines of archeological evidence hint that permanent body marking may extend significantly earlier into human history (e.g., Deter-Wolf, 2013, Péquart and Péquart, 1962, Piprani, 2010 and Renaut, 2004b), conclusive proof of the antiquity of tattooing has yet to be uncovered. We anticipate that future research including new archeological finds, reanalysis of existing collections, advanced dating techniques, and the application of new imaging technologies in the study of mummified human remains will provide additional data through which to further evaluate this ancient and global practice, and likely provide direct evidence of tattooing antedating 3200 BC.

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