

SUPPLEMENTARY TABLES 1 and 2

Supplementary Table 1. List of the Included Records (Authors A-L).

Study details	Title	Type of study	Keywords
Anastasiou & Mitchel (2013) <i>Gene</i>	Palaeopathology and genes: Investigating the genetics of infectious diseases in excavated human skeletal remains and mummies from past populations	Review	Ancient disease; Ancient DNA; Mummies; Palaeomicrobiology; Palaeoparasitology; Palaeopathology
Baker et al. (2015) <i>Tuberculosis</i>	Human tuberculosis predates domestication in ancient Syria	Original article	Paleopathology of TB; early neolithic; PPNB; agriculture cradle; domestication; lipid biomarkers; ancient DNA
Baker et al. (2017) <i>Paléorient</i>	Prehistory of human tuberculosis: Earliest evidence from the onset of animal husbandry in the near east	Original article	Syria; neolithic; domestication; early PPNB; Tuberculosis; Paleopathology
Baron et al. (1996) <i>J Archaeol Sci</i>	<i>Mycobacterium Tuberculosis</i> Complex DNA in Ancient Human Bones	Original article	Not available
Borówka et al. (2019) <i>Gigascience</i>	Screening methods for detection of ancient <i>Mycobacterium tuberculosis</i> complex fingerprints in next-generation sequencing data derived from skeletal samples	Original article	Ancient DNA; aTB; ancient tuberculosis; NGS
Bouwman et al. (2012) <i>PNAS</i>	Genotype of a historic strain of <i>Mycobacterium tuberculosis</i>	Original article	Biomolecular archaeology; paleopathology
Bianucci et al. (2012) <i>Int J Paleopath</i>	Eleonora of Toledo (1522–1562): Evidence for tuberculosis and leishmaniasis co-infection in Renaissance Italy	Case study	<i>Mycobacterium tuberculosis</i> complex; visceral leishmaniasis; ancient DNA; Renaissance; Italy
Boros-Major et al. (2011) <i>J Archaeol Sci</i>	New perspectives in biomolecular paleopathology of ancient tuberculosis: a proteomic approach	Original article	Biomarker discovery; biomolecular archaeology; MALDI TOF mass spectrometry; <i>Mycobacterium tuberculosis</i> ; paleopathology; proteomics
Brosch et al. (2002) <i>Proc Natl Acad Sci U S A</i>	A New Evolutionary Scenario for the <i>Mycobacterium tuberculosis</i> Complex	Original article	Not available
Cole et al. (1998) <i>Nature</i>	Deciphering the Biology of <i>Mycobacterium tuberculosis</i> from the Complete Genome Sequence	Letter to the editor	Not available
Crubezy et al. (1998) <i>Anthropologie</i>	Identification of <i>Mycobacterium</i> DNA in an Egyptian Pott's disease of 5,400 years old	Original article	Ancient DNA; paleopathology; tuberculosis; anthropology
Darling & Donoghue (2014) <i>Mem Inst Oswaldo Cruz</i>	Insights from paleomicrobiology into the indigenous peoples of pre-colonial America - a review	Review	Ancient DNA; <i>Helicobacter pylori</i> ; <i>Mycobacterium tuberculosis</i> ; <i>Trypanosoma cruzi</i> ; <i>Coccidioides immitis</i>
Dawson et al. (2012) <i>Int J Paleopathol</i>	Childhood Tuberculosis: A Probable Case from Late Mediaeval Somerset, England	Case Study	Not available
Donoghue et al. (2004) <i>Lancet</i>	Tuberculosis: from prehistory to Robert Koch, as revealed by ancient DNA	Review	Not available

Donoghue (2009) <i>Microbes Infect</i>	Human tuberculosis--an ancient disease, as elucidated by ancient microbial biomolecules	Review	Ancient DNA; Lipid biomarkers; <i>Mycobacterium tuberculosis</i> ; Paleogenetics; Paleomicrobiology
Donoghue (2011) <i>Clin Microbiol Infect</i>	Insights gained from palaeomicrobiology into ancient and modern tuberculosis	Review	Ancient DNA, lipid biomarkers, <i>Mycobacterium tuberculosis</i> , paleomicrobiology, paleopathology
Donoghue et al. (2015) <i>Tuberculosis</i>	Ancient DNA analysis - An established technique in charting the evolution of tuberculosis and leprosy	Review	Ancient DNA
Donoghue (2016) <i>Microbiol Spectrum</i>	Paleomicrobiology of human tuberculosis	Review	Not available
Donoghue (2017) <i>Int J Infect Dis</i>	Insights gained from ancient biomolecules into past and present tuberculosis—a personal perspective	Review	Ancient DNA (aDNA); Bacterial cell wall lipids; Evolution
Donoghue et al. (2017) <i>Diversity</i>	Positive Diagnosis of Ancient Leprosy and Tuberculosis Using Ancient DNA and Lipid Biomarkers	Review	aDNA; cell wall lipids; evolution; genotyping; <i>Mycobacterium leprae</i> ; <i>Mycobacterium tuberculosis</i> ; palaeopathology
Dutour (2016) <i>Microbiol Spectr</i>	Paleopathology of Human Infections: Old Bones, Antique Books, Ancient and Modern Molecules	Perspective	Not available
Fletcher et al. (2003) <i>Am J Physical Anthropol</i>	Widespread Occurrence of <i>Mycobacterium tuberculosis</i> DNA From 18th–19th Century Hungarians	Original article	<i>Mycobacterium tuberculosis</i> ; ancient DNA; PCR; paleomicrobiology; history of disease
Forst & Brown (2016) <i>PLoS ONE</i>	Inability of ‘Whole Genome Amplification’ to Improve Success Rates for the Biomolecular Detection of Tuberculosis in Archaeological Samples	Original article	Not available
Gad et al. (2021) <i>Hum Mol Genet</i>	Insights from Ancient DNA Analysis of Egyptian Human Mummies: Clues to Disease and Kinship	Review	Not available
Garnier et al. (2003) <i>Proc Natl Acad Sci U S A</i>	The Complete Genome Sequence of <i>Mycobacterium bovis</i>	Original article	Not available
Gernaey et al. (2001) <i>Tuberculosis (Edinb)</i> .	Mycolic Acids and Ancient DNA Confirm an Osteological Diagnosis of Tuberculosis.	Original article	Not available
Gordon et al. (1999) <i>Microbiology</i>	New Insertion Sequences and a Novel Repeated Sequence in the Genome of <i>Mycobacterium tuberculosis</i> H37Rv	Original article	<i>Mycobacterium tuberculosis</i> ; insertion sequence; prophage
Gordon et al. (2001) <i>Tuberculosis</i>	Genomics of <i>Mycobacterium bovis</i>	Original article	Not available
Groenen et al. (1993) <i>Mol Microbiol</i>	Nature of DNA Polymorphism in the Direct Repeat Cluster of <i>Mycobacterium tuberculosis</i> ; Application for Strain Differentiation by a Novel Typing Method	Original article	Not available
Guichón et al. (2015) <i>Int J Palaeopath</i>	Pre-Columbian tuberculosis in Tierra del Fuego? Discussion of the paleopathological and molecular evidence	Case study	Tuberculosis; ancient DNA; tierra del Fuego; bioarchaeology

Hajdu et al. (2012) <i>Mem Inst Oswaldo Cruz</i>	Bone tuberculosis in Roman Period Pannonia (western Hungary)	Original article	Spinal tuberculosis; mycolic acid analysis; proteomic analysis
Hajdu et al. (2012) <i>Spine</i>	A case of spinal tuberculosis from the Middle Ages in Transylvania (Romania)	Case study	Not available
Harkins et al. (2015) <i>Phil Trans R Soc B</i>	Screening ancient tuberculosis with qPCR: challenges and opportunities	Original article	Ancient DNA; tuberculosis; bioarchaeology; qPCR
Hershkovitz et al. (2008) <i>PLoS ONE</i>	Detection and Molecular Characterization of 9000-Year-Old <i>Mycobacterium tuberculosis</i> from a Neolithic Settlement in the Eastern Mediterranean	Original article	Not available
Hershkovitz et al. (2015) <i>Tuberculosis</i>	Tuberculosis origin: The Neolithic scenario	Original article	Ancient DNA; neolithic; origin of tuberculosis; paleopathology
Jaeger et al. (2012) <i>Infect Genet Evol</i>	<i>Mycobacterium tuberculosis</i> Complex Detection in Human Remains: Tuberculosis Spread since the 17th Century in Rio de Janeiro, Brazil	Original article	Tuberculosis; ancient DNA; human mtDNA
Jaeger et al. (2013) <i>Emerg Infect Dis</i>	<i>Mycobacterium tuberculosis</i> Complex in Remains of 18th–19th Century Slaves, Brazil	Letter to the editor	Not available
Kalová et al. (2019) <i>Int J Paleopath</i>	Serious chronic disease of the cervical spine and trauma in a young female from the middle ages (Czech Republic)	Original article	Paleopathology; tuberculosis; osteomyelitis; mycosis; trauma; fracture; Pohansko; early middle ages
Kamerbeek et al. (1997) <i>J Clin Microbiol</i>	Simultaneous Detection and Strain Differentiation of <i>Mycobacterium tuberculosis</i> for Diagnosis and Epidemiology	Original article	Not available
Konomi et al. (2002) <i>J Clin Microbiol</i>	Detection of Mycobacterial DNA in Andean Mummies	Original article	Not available
Lee et al. (2015) <i>Tuberculosis (Edinb)</i>	Lipid Biomarkers Provide Evolutionary Signposts for the Oldest Known Cases of Tuberculosis	Original article	Ancient tuberculosis; lipids; biomarkers
Luna et al. (2020) <i>Tuberculosis</i>	Oldest evidence of tuberculosis in Argentina: A multidisciplinary investigation in an adult male skeleton from Saujil; Tinogasta; Catamarca (905–1030 CE)	Original article	Infectious diseases; pre-hispanic populations; paleopathology; Pott's disease; <i>M. tuberculosis</i> complex; tuberculous spondylitis

The table details the main features of the included records: authors, type of study and keywords. Abbreviations: PPNB, Pre-pottery Neolithic B; NGS, next-generation sequencing; PCR, polymerase chain reaction; qPCR, quantitative polymerase chain reaction; aDNA, ancient DNA; IS, insertion sequences.

Supplementary Table 2. List of the Included Records (Authors M-Z).

Study details	Title	Type of study	Keywords
Masson et al. (2013) <i>PLoS ONE</i>	Osteological and Biomolecular Evidence of a 7000-Year-Old Case of Hypertrophic Pulmonary Osteopathy Secondary to Tuberculosis from Neolithic Hungary	Original article	Not available
Masson et al. (2015) <i>Tuberculosis</i>	7000 year-old tuberculosis cases from Hungary - Osteological and biomolecular evidence	Original article	Tuberculosis; neolithic; Hungary; aDNA; lipid biomarkers
Mays et al. (2002) <i>Am J Phys Anthropol</i>	Investigation of the Link between Visceral Surface Rib Lesions and Tuberculosis in a Medieval Skeletal Series from England Using Ancient DNA	Original article	Palaeopathology; Wharram Percy; ancient biomolecules
McEvoy et al. (2007) <i>Tuberculosis</i>	The Role of IS6110 in the Evolution of <i>Mycobacterium tuberculosis</i>	Review	<i>Mycobacterium tuberculosis</i> ; IS6110; transposon; evolution
Minnikin et al. (2015) <i>Tuberculosis (Edinb)</i>	Ancient Mycobacterial Lipids: Key Reference Biomarkers in Charting the Evolution of Tuberculosis	Review	Tuberculosis; evolution; lipids; biomarkers; zoonosis
Muller et al. (2014) <i>Am J Physical Anthropol</i>	Biomolecular Identification of Ancient <i>Mycobacterium tuberculosis</i> Complex DNA in Human Remains From Britain and Continental Europe	Original article	Infectious disease; IS elements; PCR; skeletal pathology; visceral surface new bone
Muller et al. (2015) <i>Sci Technol Archaeol Res</i>	Complications in the Study of Ancient Tuberculosis: Non-Specificity of IS6110 PCRs	Original article	Ancient DNA; Britain; IS6110; <i>Mycobacterium tuberculosis</i> complex; roman period, tuberculosis
Muller et al. (2016) <i>J Archaeol Sci</i>	Complications in the Study of Ancient Tuberculosis: Presence of Environmental Bacteria in Human Archaeological Remains	Original article	Ancient DNA; authenticity of sequence data; Mycobacteria other than tuberculosis; <i>Mycobacterium tuberculosis</i> complex; polymerase chain reaction; tuberculosis
Neparáczi et al. (2011) <i>Acta Biologica Szegediensis</i>	Preliminary results from the paleomicrobiological studies of <i>Mycobacterium tuberculosis</i> infection in the Bácsalmás-Óalmás anthropological series	Original article	Paleopathology of tuberculosis; ancient DNA; Hungary; <i>Mycobacterium tuberculosis</i>
Posa et al. (2012) <i>Acta Biol Szeged</i>	Ancient Human Tooth Samples Used for TB Paleomicrobial Research	Original article	Paleopathology; paleomicrobiology; aDNA; skeletal tuberculosis; <i>Mycobacterium tuberculosis</i> ; teeth
Posa et al. (2015) <i>Tuberculosis</i>	Tuberculosis in Late Neolithic-Early Copper Age human skeletal remains from Hungary	Original article	skeletal tuberculosis; late neolithic; human samples; aDNA; <i>Mycobacterium tuberculosis</i> complex; Carpathian basin
Roberts (2015) <i>Tuberculosis</i>	Old World Tuberculosis: Evidence from Human Remains with a Review of Current Research and Future Prospects	Review	Europe; diagnosis; limitations; aDNA analysis; diet; mobility; vitamin D; agriculture; urbanism

Redman et al. (2009) <i>Tuberculosis (Edinb)</i>	Mycocerosic Acid Biomarkers for the Diagnosis of Tuberculosis in the Coimbra Skeletal Collection	Original article	Archaeology; skeletons; tuberculosis; lipid biomarkers; mycocerosates
Salo et al. (1994) <i>Proc Natl Acad Sci U S A</i>	Identification of <i>Mycobacterium tuberculosis</i> DNA in a Pre-Columbian Peruvian Mummy	Original article	Not available
Spekker et al. (2023) <i>Tuberculosis (Edinb)</i> .	Lumbosacral tuberculosis, a rare manifestation of Pott's disease - How identified human skeletons from the pre-antibiotic era can be used as reference cases to establish a palaeopathological diagnosis of tuberculosis.	Original article	Spinal tuberculosis; lumbosacral junction; pre-antibiotic era; identified human skeletons; palaeopathological diagnosis; macromorphological examination
Spigelman et al. (1993) <i>Int J Osteoarchaeol</i>	The Use of the Polymerase Chain Reaction (PCR) to Detect <i>Mycobacterium tuberculosis</i> in Ancient Skeletons	Original article	Polymerase chain reaction (PCR); DNA; <i>Mycobacterium tuberculosis</i> ; ancient, bones
Spigelman et al. (2002) <i>Int J Osteoarchaeol</i>	Confirmation of the presence of <i>Mycobacterium tuberculosis</i> complex-specific DNA in three archaeological specimens	Original article	Ancient DNA; <i>Mycobacterium tuberculosis</i> ; PCR
Sreevatsan et al. (1997) <i>Proc Natl Acad Sci U S A</i>	Restricted Structural Gene Polymorphism in the <i>Mycobacterium tuberculosis</i> Complex Indicates Evolutionarily Recent Global Dissemination	Original article	Not available
Szikossy et al. (2015) <i>Tuberculosis</i>	Two positive tuberculosis cases in the late Nigrovits family; 18th century; Vac; Hungary	Original article	<i>Mycobacterium tuberculosis</i> ; Vac; Hungary; mummies; paleopathology; paleomicrobiology
Taylor et al. (2007) <i>Microbiology</i>	First report of <i>Mycobacterium bovis</i> DNA in human remains from the Iron Age	Original article	Not available
Taylor et al. (2010) <i>Int J Osteoarchaeol</i>	Ancient DNA (ADNA) Studies of Man and Microbes: General Similarities, Specific Differences	Original article	Ancient DNA; PCR; validation
Teschler-Nicola et al. (2015) <i>Tuberculosis</i>	The Early Mediaeval manorial estate of Gars/Thunau, Lower Austria: An enclave of endemic tuberculosis?	Original article	Early mediaeval Austria; demography; pathology; tuberculosis; DNA sequencing isotopes; diet; mobility
Thierry et al. (1990) <i>J Clin Microbiol</i>	Characterization of a <i>Mycobacterium tuberculosis</i> Insertion Sequence, IS6110, and Its Application in Diagnosis	Original article	Not available
Váradi et al. (2021) <i>Acta Biol Szeged</i>	Lipid Biomarker-Based Verification of TB Infection in Mother's and Daughter's Mummified Human Remains (Vác Mummy Collection, 18th Century, CE, Hungary)	Original article	High-performance liquid chromatography; lipid biomarkers; mass spectrometry; mummies; mycocerosates; tuberculosis
Vargová et al. (2017) <i>Tuberculosis</i>	Brief History of Tuberculosis in the Czech Lands	Review	Specific inflammation; skeletal remains; central Europe; <i>Mycobacterium tuberculosis</i> ; paleopathology
Wilbur et al. (2009) <i>J Archaeol Sci</i>	Deficiencies and challenges in the study of ancient tuberculosis DNA	Review	Ancient DNA; biomolecular archaeology; paleopathology; polymerase chain reaction; spoligotyping; tuberculosis
Witas et al. (2015) <i>Eur J Clin Microbiol Infect Dis</i>	Molecular studies on ancient <i>M. tuberculosis</i> and <i>M. leprae</i> : methods of pathogen and host DNA analysis	Review	Not available

Wooding et al. (2019) <i>Int J Osteoarchaeol</i>	Reviewing the palaeopathological evidence for bovine tuberculosis in the associated bone groups at Wetwang Slack, East Yorkshire	Original article	ancient DNA; bovine tuberculosis; Britain, faunal remains; human osteology; human remains; Iron Age; <i>Mycobacterium bovis</i> (bTB); palaeopathology; zooarchaeology; zoonoses
Zink et al. (2001) <i>J Med Microbiol</i>	Molecular Analysis of Skeletal Tuberculosis in an Ancient Egyptian Population	Original article	Not available
Zink et al. (2003) <i>J Clin Microbiol</i>	Characterization of <i>Mycobacterium tuberculosis</i> Complex DNAs from Egyptian Mummies by Spoligotyping	Original article	Not available

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