



PALEOPATHOLOGY ASSOCIATION  
SCIENTIFIC PROGRAM

**HYBRID**

51st Annual North American Meeting

J.W. Marriott LA Live, 900 W Olympic Blvd, Los Angeles, CA

March 18-20, 2024

# PROGRAM NOTES

## 51st Annual North American Meeting of the Paleopathology Association

March 18-20, 2024

(all times PDT)

Time (PDT)	Session
<b>Monday, March 18</b>	
5:00 pm – 7:00 pm	Registration
<b>Tuesday, March 19</b>	
8:00 am – 10:45 am	Workshop (Dental histology)
10:45 am – 11:15 am	Coffee Break
11:15 am – 11:45 am	Virtual Poster Presentations
11:45 am – 1:15 pm	Lunch Break (Let's Do Lunch for Mentors and Mentees– El Cholo Restaurant)
1:15 pm – 1:45 pm	Plenary Lecture (Anne Grauer)
1:45 pm – 3:30 pm	In-Person Podium Presentations
3:30 pm – 4:15 pm	Coffee Break and In-Person Poster Presentations (Including the Costs of Migration Poster Symposium)
4:15 pm – 6:00 pm	In-Person Podium Presentations
6:00 pm – 6:30 pm	Break
6:30 pm – 8:00 pm	50 <sup>th</sup> Anniversary Reception
<b>Wednesday, March 20</b>	
8:00 am – 9:45 am	In-Person and Virtual Podium Presentations
9:45 am – 10:30 am	Coffee Break and In-Person Poster Session
10:30 am – 12:00 pm	In-Person Podium Presentations
12:00 pm – 1:00 pm	Lunch Break
1:00 pm – 3:00 pm	In-Person Symposium: 21 <sup>st</sup> Century Paleopathology I
3:00 pm – 3:30 pm	Coffee Break
3:30 pm – 5:15 pm	In-Person Symposium: 21 <sup>st</sup> Century Paleopathology II
5:15 pm – 5:30 pm	Break
5:30 pm – 6:15 pm	Awards and Closing

# PROGRAM NOTES

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**Symposia, all podium (virtual and in-person) and all virtual poster presentations:** All these presentations can be listened to in our meeting room at the J.W. Marriott Hotel in Los Angeles, CA, and are provided as a virtual element at a location of your choice.

**Dental Histology Workshop (Tuesday morning):** Please note that the dental histology workshop on Tuesday morning requires participant registration for both virtual and in-person attendees due to space limitations:

<https://forms.gle/EoK7t8HDj7N2aPJx5>

**In-Person Poster Presentations:** These sessions will take place during the coffee breaks and will **not** be available to the virtual audience. However, the presenters have been asked to put their poster on our virtual poster platform along with a brief presentation prior to the conference so they can be seen by the virtual participants as well.

**Virtual Poster Presentations:** The virtual poster sessions will require both virtual and in-person attendees to access the virtual poster platform to engage directly with the presenters. The presenters have been asked to put their poster on our virtual poster platform along with a brief presentation prior to the conference so that they may be viewed before interacting with the presenters online.

**Let's Do Lunch:** For those of you participating in-person we will have lunch on the 18th of April at El Cholo, 1037 S. Flower Street, Los Angeles. <https://www.elcholo.com/losocations.html>

Let's Do Lunch pairs students with more senior members for lunch, providing students an opportunity to meet a palaeopathology professional and ask questions relevant to their research and professional development. Pairing people at random gives students a chance to meet professionals who they might not otherwise have a chance to have a meaningful discussion at the meeting. The regular member is asked to "treat" the student member by buying them lunch. While regular members will be paired with a single student, the venue will seat multiple pairs together, so there will be opportunities for students to chat with more than one professional. To register for Let's do Lunch use the following link: <https://paleopathology-association.wildapricot.org/event-5609174>.

**Meet-a-Mentor:** For those of you participating virtually and in-person, regular members and students will be partnered and each pairing will arrange a 1-hour chat at a time convenient to them, ideally during conference week or the week following. This will occur both virtually and in-person depending on the preference of the participants. This provides students (and regular members) who are participating virtually to still have the opportunity to participate in this mentorship exercise. Please register by using the following link: <https://paleopathology-association.wildapricot.org/event-5609348>. Participants should expect an email with mentor partnering information from our Director-at-Large (Student Liaison), Sian Halcrow ([sian.halcrow@otago.ac.nz](mailto:sian.halcrow@otago.ac.nz)) during the week prior to the meetings.

**COVID-19 safety policies:** To minimize the risk of Covid-19 infections during our meeting, please attend the conference online if you feel unwell. We want to ask participants attending in person to wear a mask if possible, and please be mindful of the variety of comfort levels with physical proximity. Ask colleagues before reaching out for a handshake or hug, and please pay attention to body language. Take a few steps back if someone looks uncomfortable. We would ask all participants to be conscientious and aware of the risk for vulnerable members of our community.

## MONDAY, March 18

5:00 pm – 7:00 pm      **REGISTRATION**      *Plaza II Foyer*

## TUESDAY, March 19

7:45 am – 5:00 pm      **REGISTRATION**      *Plaza II Foyer*

8:00 am – 10:45 am      **WORKSHOP: Dental Histology Disclosed: how to explore life-histories through analysis of dental tissues and microstructures**      *Plaza II*  
**LED BY: Anne Marie SOHLER-SNODDY, Marie WEALE, Chris ARIS, Barbara VESELKA, Lucy KAVALE-HENDERSON**

10:45 am – 11:15 am      **COFFEE BREAK**      *Diamond*

11:15 am – 11:30 am      **VIRTUAL POSTER PRESENTATIONS I**      *Virtual*

A possible case of crucifixion from Roman-period Fenstation, Cambridgeshire, England.  
 Francesco M. GALASSI, Elena VAROTTO, Corinne DUHIG

Unveiling ancient afflictions: traumatic pathology in the skeletal remains of Barcelona's laity buried at the Santa Caterina friary archaeological site in Barcelona (13<sup>th</sup>- early 16<sup>th</sup> centuries).  
 Antony CEVALLOS, Carme RISSECH, Xavier TOMÀS, Alexandre TARRAGÒ, Jordi NADAL, Lluís LLOVERAS

An archaeoparasitology study from southwestern China: first-ever-attempted case study from a Bronze-Age Yunnan site (17<sup>th</sup> – 3<sup>rd</sup> Century BCE).  
 Xiaoya ZHAN, Dong-Yue ZHAO, Ranchao ZHOU, Hui-Yuan YEH      \*\*\*

External auditory exostosis: exploring environmental factors and prevalence in ancient southern South American populations.      ++  
 Cynthia Daniela PANDIANI, Paula NOVELLINO, Gabriela DA PEÑA ALDAO, Daniela GUEVARA, Jorge SUBY

Demonstration of the existence of spinal tuberculosis in ancient Sicily (ca. 7<sup>th</sup>-5<sup>th</sup> centuries BCE): the first morpho-radiological evidence.  
 Claudia FIORENTINO, Elena VAROTTO, Francesco Maria GALASSI, Luca SINEO

An overview of blast trauma in World War I soldiers from selected cases of the Italian front.  
 Daniel GAUDIO

11:30 am – 11:45 am      **VIRTUAL POSTER PRESENTATIONS II**      *Virtual*

A comprehensive literature review of Pectus Excavatum.  
 Leon CORNEILLE-COWELL, Francesco Maria GALASSI, Elena VAROTTO, Paola PONCE      \*\*\*

Bipartite patella and vastus notch: an examination of prevalence and etiological factors in late Holocene human skeletons from southern Patagonia, Argentina.  
 Rodrigo ZUÑIGA-THAYER, Gustavo FLENSBORG, Jorge Alejandro SUBY

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Caring for their teeth: dental health in nonadults from two Roman Imperial age communities from Italy.  
Federica GUERRA, Vittoria BIANCHI, Alessandra SPERDUTI

Lethal congenital defects: different expressions of anencephaly in infants from S. Domingos necropolis, Lisbon (17<sup>th</sup>-19<sup>th</sup> century).

Marina LOURENÇO, Francisco CURATE, Eugénia CUNHA

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Osteoarthritis in Mendoza, Argentina, during the late Holocene: anatomical specificity and links to economic changes.

Daniela GUEVARA, Jorge SUBY, Paula NOVELLINO

The association between osteoarthritis and osteoporosis in the Coimbra Identified Skeletal Collection (late 19<sup>th</sup> – early 20<sup>th</sup> centuries).

Francisco CURATE, Sara SILVA, Ana Maria SILVA

**11:45 am – 1:15 pm**

**LUNCH BREAK**

**1:15 pm – 1:45 pm**

**PLENARY LECTURE**

**Plaza II**

Celebrating our 50<sup>th</sup> anniversary: why looking back is a great way forward

Anne L. GRAUER

**1:45 pm – 3:30 pm**

**IN-PERSON PODIUM PRESENTATIONS**

**Plaza II**

**CHAIR: Derek BOYD**

1:45 Thinking out of the casebook. 50 Years of case studies in paleopathology: a matter of how rather than what?

Emmanuele PETITI, Katharina FUCHS, Julia GRESKY, Nivien SPEITH

2:00 Life and death in a provincial capital: paleopathology of the Late Roman period Salona (Solín, Croatia).

Mario NOVAK, Nebojša CINGELI, Mario CARIĆ

2:15 Communicating paleopathological research to the public via artistic representation: experience as a participant in an artist-researcher collaboration.

Anne R. TITELBAUM, Mary K. LUCKING, Cynthia A. STANDLEY

2:30 An intersectional analysis of maxillary sinusitis in industrializing England.

Derek BOYD

2:45 Possible evidence for treponemal disease in Early Byzantine (ca. 500 AD) Olympia, Greece.

Julia GRESKY, Oliver PILZ

3:00 An exploration of early life stress, socioeconomic status, and longevity in post-Medieval Netherlands.

Sarah SCHRADER

3:15 Discussion

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3:30 pm – 4:15 pm

COFFEE BREAK AND IN-PERSON POSTER PRESENTATIONS

*Diamond*

CHAIR: Amy ANDERSON

Periostosis prevalence, activity, and severity in the colonial Andes: a new look at inflammation and stress in Mórrope and Eten, Lambayeque Valley complex, Peru (1535-1750 CE).

Elyse ADAMS, Haagen KLAUS, Fabian CRESPO, Gretá KÜHNE, Liliana LEYVA, Kayley McPHAIL, Rut REYES, Jordan SHAFFER \*\*\*

Possible hereditary osteochondromas in a historical Chinese population.

Elizabeth BERGER, Wa YE SHAANXI, Liping YANG

Exploring disability and disease in early 20th century California: recent research on the Sonoma Developmental Center cemetery.

Alexis T. BOUTIN, Serena CHAN, Benjamin SMITH, Tristan NILES, Fernando PIMENTEL, Ursula SENGHAS-POLES

Preliminary insights into the relationship between vertebral neural canal size and mortality in late Roman and early Anglo-Saxon non-adults from England.

Devyn CALDWELL \*\*\*

Bioarchaeological approaches to female tobacco consumption in two skeletal populations from the Netherlands (1300-1829 CE).

Maia CASNA, Anna M. DAVIES-BARRETT, Sarah A. SCHRADER \*\*\*

Near total ankylosis of carpal and carpometacarpal joints linked to a traumatic injury.

Rachael HALL, Sarah SCHRADER \*\*\*

Nutritional disease in early China: a bioarchaeological analysis of scurvy in people from Shaanxi (2800 BC to AD 220).

Mocen LI, Charlotte ROBERTS, Peter ROWLEY-CONWY, Liang CHEN, Qinggang GENG, Dongyue ZHAO, Hanqing ZHAO

Detecting cribra orbitalia in post-mortem CT scans: implications for paleopathology.

Niels LYNNERUP, Chiara VILLA, Marie Louise SCHAADT ILSBY

Shadows of blood: diagnostic limits of hematologic malignancies informed from the Lisbon Identified Skeletal Collection, 20th century.

Carina MARQUES, Vitor MATOS, Eugenia CUNHA

Periodontitis prevalence and severity in Colonial Peru: a first approximation from Mórrope and Eten, Lambayeque Valley Complex (1535-1750 CE).

Kayley MCPHAIL, Haagen KLAUS, Fabian CRESPO, Elyse ADAM, Gretá KÜHNE, Liliana LEYVA, Rut REYES, Jordan SHAFFER \*\*\*

Cranial and postcranial cribrous lesions in two early medieval non-adult skeletal collections from Thuringia, Germany.

Jana Valesca MEYER

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Presence of pelvic features in biological mothers shown by genetic relatedness in early Medieval Austrian cemeteries (7th-9th c. CE).

Doris PANY-KUCERA, Margit BERNER, Bendeguz TOBIAS, Ke WANG, Zuzana HOFMANOVÁ, Paul, KLOSTERMANN, Katharina LUFTENSTEINER, Karin WILTSCHKE-SCHROTTA, Falko DAIM, Johannes KRAUSE, Walter POHL, Sabine EGGERS

From the High Seas to the Low Countries: a likely case of scurvy in a post-Medieval Dutch non-adult.

Alex TUTWILER

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Two probable cases of syphilis during the Qing Dynasty (1644-1912 CE) in Shanxi, China.

Sen YOU, He DONG, Zejian JING, Xinyu LI, Quanchao, ZHANG

Multiple osteochondromas in a Qing period individual from Shandong, China.

Yawei ZHOU, Fanhao XI, Elizabeth BERGER, Yanmei LIU

**4:15 pm – 6:00 pm**

**IN-PERSON PODIUM PRESENTATIONS**

**Plaza II**

**CHAIR: Qian WANG**

4:15 Combined macroscopic and microscopic evidence of vitamin D deficiency during growth and development using multiple teeth and ribs in a collection from 17th-19th century Netherlands.

Amanda COOKE, Brianne MORGAN, Meghan LANGLOIS, Andrea WATERS-RIST, Alie VAN DER MERWE, Rachel SCHATS, Megan BRICKLEY

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4:30 Vitamin D deficiency and pregnancy in early medieval Milan: study of two cases from the Ad Martyres and San Vittore al Corpo necropolises.

Lucie BIEHLER-GOMEZ, Valentina LUCCHETTI, Elisa PERA, Laura SISTO, Beatrice DEL BO, Alessandro PORRO, Lucrezia RODELLA, Mirko MATTIA, Anna Maria FEDELI, Cristina CATTANEO

4:45 A histological exploration of enamel formation disruption in 19th century settlers of Otago, New Zealand.

Lucy KAVALE-HENDERSON, Carolina LOCH, Peter PETCHEY, Hallie BUCKLEY, Annie SOHLER-SNODDY\*\*\*

5:00 Early childhood stress and puberty: Assessing the relationship between linear enamel hypoplasia and delayed pubertal timing in medieval London.

Melinda ELSER, Sharon DEWITTE, Mary LEWIS

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5:15 Investigating child abuse using bioarchaeological evidence: the potential of integrating finite element analysis into an interdisciplinary approach.

Roberta MARINO, Melanie JEGU, Xinshan LI, Chris MILLARD, Elizabeth CRAIG-ATKINS

5:30 How the Developmental Origins of Health and Disease (DOHaD) hypothesis can aid understanding of infant and maternal health in Iron Age and Roman Britain.

Rebecca PITT, Mary LEWIS, Hella ECKARDT

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5:45 Discussion

**6:30 pm – 8:00 pm**

**PPA 50<sup>th</sup> ANNIVERSARY CELEBRATION AND BUFFET**

**Gold**

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## WEDNESDAY, March 20

- 8:00 am – 12:00 pm**      **REGISTRATION**      *Plaza II Foyer*
- 8:00 am – 9:45 am**      **VIRTUAL AND IN-PERSON PODIUM PRESENTATIONS**      *Plaza II*  
**CHAIRS: Angela LIEVERSE and Kelly BLEVINS**
- 8:00    A slow death: the paleopathological investigation of the impact of environmental pollutants on health in southern England, from the Roman to post-medieval period. VIRTUAL  
 Paige FALCO, Mary LEWIS, Gundula MUELDNER      \*\*\*
- 8:15    Health and environmental contaminants of Prehistoric Iberian communities: insights from ancient dental calculus analysis. VIRTUAL  
 Dulce NEVES, Ana Maria SILVA, António Faustino CARVALHO, Emanuela Cristiani DANTE      \*\*\*
- 8:30    Traumas of life – exploring the traumatic lesions in individuals from collective burials from the Military Hospital of São Jorge Castle, Lisbon (16th-18th centuries). VIRTUAL  
 Carina LEIRIÃO, Liliana MATIAS DE CARVALHO, Ana AMARANTE, Susana HENRIQUES CIDEHUS, Rosa RAMOS GASPAS, Ana CURTO HERCULES, Sofia N. WASTERLAIN
- 8:45    Ageing well!? 50 years of age-related disease in paleopathology. VIRTUAL  
 Katharina FUCHS, Jo APPLEBY, Fabian A. CRESPO, Julia GRESKY, Kathryn E., MARKLEIN, George R., MILNER, Katherine D., VAN SCHAİK, Molly, ZUCKERMAN, Niels LYNNERUP, Marie Louise SCHJELLERUP-JØRKOV
- 9:00    Visualizing orbital porosity using different imaging modalities.  
 Jo BUCKBERRY, Hannah KOON, Ashim ALI, Michael HEBDA, Adrian EVANS, Tom SPARROW, Andrew S. WILSON
- 9:15    The ethnoarchaeology of porous cranial lesions: Insights into cribra orbitalia, porotic hyperostosis, and health in living adults from a contemporary population of tropical forager-horticulturalists.  
 Amy ANDERSON, Aaron BLACKWELL, Jonathan STIEGLITZ, Benjamin TRUMBLE, Thomas KRAFT, Daniel EID RODRIGUEZ, Raul QUISPE GUTIERREZ, Andrei IRIMIA, Ellen WALTERS      ++
- 9:30    Discussion
- 9:45 am – 10:30 am**      **COFFEE BREAK AND IN-PERSON POSTER PRESENTATIONS**      *Diamond*  
**CHAIR: Kathryn MARKLEIN**
- Anatolian trepanation in context: the case of a trepanned skull from Classical period Karaman, Turkey.  
 Elizabeth BEWS, Alper Yener YAVUZ, Ahmet Ihsan AYTEK, Büşra ALADAG, Alpago Göksenin GÜZEL      \*\*\*
- Occupational stress and sex disparities in Schmorl's Nodes: An analysis of a historic skeletal sample.  
 João Tiago BRITO, Ana Luisa SANTOS
- Sharing a 'short-form' version of the Index of Care.  
 Alyson CAINE, Ihuixaya TAPIA, Christopher CANZONIERI, Tony CAMERON, Lorna TILLEY      ++

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Paleodemographic representation indices of the Medieval / Early Modern Age city cemetery (N > 22,000) in St. Pölten, Austria.

Fabian KANZ, Ronald RISY, Karl GROSSSCHMIDT, Christoph REISINGER, Barbara, RENDL

Postcranial trauma in the Middle Holocene Cis-Baikal.

Angela LIEVERSE, Rick SCHULTING, Vladimir BAZALIISKII, Artur KHARINSKII, Andrzej WEBER

Evaluating risks of mortality for individuals with concurrent versus non-concurrent bilateral linear enamel hypoplasias in Postmedieval London.

Kathryn MARKLEIN, Samantha YAussy

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A case of gout on spontaneously mummified remains from Kėdainiai, Lithuania (17th-18th centuries AD).

Dario PIOMBINO-MASCALI, Rimantas JANKAUSKAS, Algirdas TAMOŠIŪNAS, Rokas GIRČIUS, Rūta BRINDZAITĖ, Justina KOZAKAITĖ

Changing health in North China's past populations: a preliminary paleodemographic and paleopathological investigation from Neolithic to Iron ages.

Mark SIMON, Qian WANG

An individual with congenital orofacial defect from the Ming-Qing period Wenchi cemetery in Shanxi province (1368-1911 CE): First case of cleft lip and palate from archaeological settings in China.

Xiaofan SUN, Yan LIU, Xiaoxiao TENG, Xueying REN, Quanchao ZHANG, Qian WANG

An interpretable machine learning model to predict age-at-death from a single radiograph of any large bone from archaeological contexts.

Katherine VAN SCHAİK, Moustafa ABDALLA

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Evaluating risks of mortality for individuals with unilateral versus bilateral linear enamel hypoplasias in Postmedieval London.

Samantha YAussy, Kathryn MARKLEIN

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**10:15 am – 10:30 am**

**POSTER SYMPOSIUM: The Costs of Migration**

***Diamond***

**CHAIRS: Marianne HOBBS and Alecia SCHRENK**

Migration, movement, and identity in the precontact Four Corners region in the U.S.

Ryan HARROD, Anna OSTERHOLTZ

The Osteological Paradox as applied to migration: an example from Point of Pines Pueblo (A.D. 1200-1450).

Maryann HOBBS

Migration and disease: exploring the lived experiences of a young adult female with paralytic poliomyelitis from the Bronze Age, Tell Abraq, United Arab Emirates (UAE).

Alecia SCHRENK

**10:30 am – 12:00 pm**

**IN-PERSON PODIUM PRESENTATIONS**

***Plaza II***

**CHAIR: Mario NOVAK**

10:30 The significance of the oroantral fistula for understanding the cause of maxillary sinusitis.

Simon MAYS, Sarah STARK, Sonia ZAKRZEWSKI, Anna VERKONY

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- 2:45 Squirreling away: characterizing and understanding skeletal pathology in *Sciurus vulgaris* as a baseline for leprosy studies.  
Elliot ELLIOTT \*\*\*
- 3:00 pm – 3:30 pm**                      **COFFEE BREAK** *Diamond*
- 3:00 pm – 5:00 pm**                      **SYMPOSIUM: 21<sup>st</sup> Century Paleopathology II** *Plaza II*  
**CHAIRS: Jane BUIKSTRA and Elizabeth UHL**
- 3:00 Ancient pathogen research in the context of colonization of Mexico.  
María C. ÁVILA-ARCOS, Miriam BRAVO-LÓPEZ, Laura CARRILLO-OLIVAS, Jean CURY, Alejandro MERAZ MORENO, Maria DE LA LUZ MORENO CABRERA, Lourdes MÁRQUEZ MORFIN, Marcela SANDOVAL-VELASCO, Julie K. WESP, Flora JAY, Emilia HUERTA SANCHEZ
- 3:15 Zoonotic tuberculosis was an infection of inequality in a pre-conquest Mesoamerican city (Tlatelolco 1300-1521 CE).  
Kelly E. BLEVINS, Josefina MANSILLA LORY, Jane E. BUIKSTRA
- 3:30 Occupational health in the Viceroyalty of Peru: a possible case of massive poisoning with mercury.  
Elsa TOMASTO-CAGIGAO
- 3:45 Pathogens between the seas: paleoecological and human historical co-production of Chagas' disease and American cutaneous leishmaniasis in Panama.  
Robert G. WALLACE, Nicole GOTTDENKER, José CALZADA, Azael SALDAÑA, Luke R. BERGMANN, Luis F. CHAVES
- 4:00 Humans are animals too: towards a unified standard of recording in zooarchaeological paleopathology.  
Ellen GREEN
- 4:15 Ancient pathogens, microbes, and ONE Health: using paleogenomics and paleopathology to inform our understanding of present-day infectious disease risks within the ONE Paleopathology paradigm.  
Molly K. ZUCKERMAN, Courtney A. HOFMAN, Sabrina B. SHOLTS, Kristen M. RAYFIELD, Rita M. AUSTIN
- 4:30 ONE Health and palaeopathology: more than just adding animals.  
Caitlin SMITH, Judith LITTLETON
- 5:30 pm – 6:30 pm**                      **AWARDS AND CLOSING** *Plaza II*  
**CHAIR: Mary LEWIS**

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