



PALEOPATHOLOGY ASSOCIATION
SCIENTIFIC PROGRAM

HYBRID

50th Annual North American Meeting
Peppermill Resort, 2707 S Virginia St, Reno (Nevada)

April 18-19, 2023

PROGRAM NOTES

HYBRID

50th Annual North American Meeting of the Paleopathology Association

April 18-19, 2023
(all times PST)

Time (PST)	Session
April 17	
5:00 pm – 7:00 pm	Registration
April 18	
8:00 am – 10:00 am	Symposium (Commingled Remains)
10:00 am – 10:30 am	Coffee Break and Poster in-Person Session
10:30 am – 11:00 am	Virtual Poster Presentations
11:00 am – 12:15 am	Virtual Podium Presentations
12:15 am – 1:45 pm	Lunch Break
1:45 pm – 3:00 pm	Symposium (Paleo-oncology)
3:00 pm – 3:30 pm	Coffee Break and Poster in-Person Session
3:30 pm – 4:45 pm	In-person Podium Presentations
4:45 pm – 5:30 pm	In-person Poster Presentations
5:30 pm – 6:30 pm	Student Action Committee Meeting
5:30 pm – 7:30 pm	Cash Bar
April 19	
8:00 am – 11:00 am	Symposium (Disability and Care) and Symposium (Festschrift Della Cook)
11:00 am – 11:30 am	Coffee Break and Poster in-Person Session
11:30 am – 1:00 pm	Virtual Podium Presentations
1:00 pm – 3:00 pm	Association Annual Business & Awards Meeting + Lunch Break
3:00 pm – 4:30 pm	In-Person Podium Presentations
4:30 pm – 5:00 pm	Coffee Break and Poster in-Person Session
5:00 pm – 6:30 pm	In-Person Podium Presentations
6:30 pm	Closing Remarks

PROGRAM NOTES

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 Peppermill Resort in Reno, Nevada, and are provided as a virtual element at a location of your choice.

Poster in-person: 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 slides on our virtual poster platform so they can be seen by the virtual participants as well.

Let's Do Lunch: For those of you participating in-person we will have a Lunch on the 18th of April at Biscotti's Restaurant at the Reno Peppermill Resort. <https://www.peppermillreno.com/dining/casual-dining/biscottis/>

Let's Do Lunch pairs students with more senior members for lunch, providing students an opportunity to meet a palaeopathology professional and ask question important for 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. This is a very important event, so please consider participating and sponsoring a student in the Let's Do Lunch when you register.

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. Participants should expect an email with mentor partnering information from our Director-at-Large (Student Liaison), Sian Halcrow (sian.halcrow@otago.ac.nz) during the week prior to the meetings.

TUESDAY, April 18

8:00 am – 10:00 am SYMPOSIUM

**Mixing and Matching: Advances in Paleopathology and Commingled Remains.
Organized by J. Marla TOYNE and Margot SERRA**

- 8:00 Where to begin with this pile of bones? A review and discussion of the nature and complexities of paleopathological analyses of human remains.
J. Marla TOYNE, Margot SERRA
- 8:15 In sickness and in death: Insights from paleopathology in the analysis of a looted Prehispanic tomb in the Cordillera Negra, Peru.
Margot SERRA, Amandine FLAMMANG ***
- 8:30 How can we calculate meaningful lesion frequencies in commingled and fragmented assemblages?
Megan A. PERRY, Andrew R. MILLARD
- 8:45 Trauma, Trepanation, Developmental Conditions, Diet, and DNA: Multiple strategies to learn from commingled interments at Marcajirca, a Late Intermediate period (ca. AD 1020-1620) highland site in Ancash, Peru.
Anne TITELBAUM, Eden WASHBURN
- 9:00 Interpreting disease from commingled human remains: a literature review using Portugal as a case study.
Sandra ASSIS, Francisca ALVES CARDOSO, Sílvia CASIMIRO, Charlotte HENDERSON
- 9:15 "Death without a cause": Reconstructing children's morbidity and mortality patterns from the Graeco-Roman site of Kourion.
Delanie FETHER, Xenia Paula KYRIAKOU, Rebecca HERR, Michael GIVEN ***
- 9:30 Commingled remains and dental paleopathology: Discussing the limits and potentials in the study of oral health status in historical populations.
Dulce NEVES, Ana Maria SILVA, Sofia N. WASTERLAIN ***
- 9:45 Oral health and childhood stress during the Final Neolithic in Grotte de la Faucille, Belgium.
IJK VAN HATTUM, Joel. D. IRISH, Isabelle DE GROOTE
- 9:50 Extracting useful data in unideal contexts: Paleopathology of disturbed, incomplete, commingled human remains at Purun Llacta del Maino, northeast highland Peru.
Megann PHILLIPS, J. Marla TOYNE
- 9:55 Conclusion

10:00 am – 10:30 am COFFEE BREAK and POSTER IN-PERSON PRESENTATIONS

- 10:05 Osteological analysis of a subset of teaching skeletons in West Virginia.
Alyssa PETTRY, Kristy HENSON, Jay BOW ***
- 10:10 Anatomization and medicalization of subadult remains from the Milwaukee County Poor Farm Cemetery (1882-1925).
Katharine C. WOOLLEN, Cole N. WHITE, Jennifer F. BYRNES ***
- 10:15 Prevalence rates of otitis media in medieval Scotland and Ireland: Preliminary results.
Irmine ROSHEM, Jenna DITTMAR, Stine CARLSSON, Rebecca CROZIER, Marc OXENHAM, Eileen MURPHY ***

*** Cockburn Student Prize Entrant

++ Jane E. Buikstra Early Career Prize Entrant

10:20 Mapping structural vulnerability through nutritional deficiencies, infection, and burial location at the Colonial Maya site of Tipu (1543-1707 AD).
Amy HAIR ***

10:25 Assessing skeletal stress throughout life history and its relationship to systemic racism.
Kendra B. ISABLE, Marin A. PILLOUD ***

10:30 am – 11:00 am VIRTUAL POSTER PRESENTATIONS Chair Jorge SUBY

10:30 Osteonecrosis of the femoral head and unilateral hip dislocation: A case study from early medieval Romania.
Robin L. QUATAERT ***

10:35 Pre- and perinatal stress in infants from 18th-19th century Pointe-aux-Trembles, Québec: Evidence from enamel hypoplasia.
Sydney HOLLAND, Isabelle RIBOT, Andrea WATERS-RIST ***

10:40 Congenital Odontoid Process Abnormalities from Early China.
Ziyi LI, Tina JAKOB, Wenquan FAN, Kejia HUANG, Chong YU

10:45 A case of epidermoid cyst from the 19th-century Cortese's crania collection of the University of Padua.
Michael Allen BECK DE LOTTO, Giovanni MAGNO, Gaetano THIENE, Fabio ZAMPIERI, Alberto ZANATTA

10:50 Genetic and radiographic (un)diagnosis of a purported case of Trisomy-21 in a Thule Culture Greenlandic mummy.
Niels LYNNERUP, Ulf BIRKEDAL, Jeppe DYRBERG ANDERSEN, Chiara VILLA, Helle Smidt MOGENSEN, Hans HARMSEN, Christian KOCH MADSEN, Marie-Louise KAMPMANN

10:55 Discussion

11:00 am – 12:15 pm VIRTUAL PODIUM PRESENTATIONS Chair Emmanuele PETITI

11:00 Trabecular bone health at the Nubian site of Tombos (1440-660 BC), Sudan.
Kaitlyn SANDERS ***

11:15 Investigating relationships between early-life stress, physiological phenotype and length of life.
Ben WIGLEY, Elizabeth CRAIG-ATKINS, Eleanor STILLMAN ***

11:30 Comparing Intestinal parasite infection in town residents and clergy at St. Baafs Cathedral in Ghent, Belgium (13th-18th century).
Tianyi WANG, Koen DEFORCE, Piers D. MITCHELL ***

11:45 "Hidden pathologies" revealed by paleoimaging in Mesolithic Muge, Portugal.
Dany COUTINHO-NOGUEIRA, Rosa RAMOS GASPAS, Ricardo Miguel GODINHO, Cláudia UMBELINO ++

12:00 Intersectional patterns of pleural disease in industrializing England estimated using Bayesian inference.
Derek BOYD ++

*** Cockburn Student Prize Entrant

++ Jane E. Buikstra Early Career Prize Entrant

12:15 pm – 1:45 pm **LUNCH BREAK**

1:45 pm – 3:00 pm **SYMPOSIUM**

Lurking in the Shadows: Potential intersections between clinical imaging, dry bone and mummified human remains in palae-oncology.

Organized by Carina MARQUES and Xenia Paula KYRIAKOU

1:45 Paleo-oncology: State of the art.
Carina MARQUES and Xenia Paula KYRIAKOU

1:55 The Cancer Imaging Archive: An open science data resource.
Fred PRIOR, Kirk SMITH

2:05 Paleopathological diagnosis of malignant tumors – Radiological differential diagnosis and strategies for the most probable diagnosis.
Andreas G. NERLICH

2:15 Use of radiographic methods for the detection of metastatic cancer in skeletal remains.
Sara FATULA, Dawnie STEADMAN

2:25 Imaging and biopsy of skeletal remains for the biomolecular investigation of malignancy.
Piers D. MITCHELL, Jenna M. DITTMAR

2:35 Macroscopic bone lesions induced by histologically diagnosed tumors in animals.
Elizabeth UHL

2:45 Discussion and Q&A

3:00 pm – 3:30 pm **COFFEE BREAK and POSTER IN-PERSON PRESENTATIONS**

3:05 Differential diagnosis of a probable neoplastic lesion from an isolated non-adult femur (North-Central Andes, Peru, AD 600-1532).
Eva-Maria CULOT, Margot SERRA, Amandine FLAMMANG

3:10 A probable case of metastatic carcinoma from nineteenth century Utah.
Meghan BANTON, Derinna KOPP

3:15 Bioarchaeology of Disaster Beyond Death: Resilience and Survivability in the post-earthquake Graeco-Roman site of Kourion in Cyprus.
Sarah E. BLESSING, Natasha HEAP, Delanie FETHER, Anna LA VALLEY, Michael GIVEN, Xenia Paula KYRIAKOU***

3:20 Exploring periodontal recession among the Colonial Maya of Tipu.
Amanda R. HARVEY

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3:25 Atypical multiple burial from a 2nd – 4th century AD cemetery in Stanwick, England.
Sarah STARK, Vicky CROSBY

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3:30 pm – 4:45 pm **IN-PERSON PODIUM PRESENTATIONS** **Chair Claire HODSON**

- 3:30 Rachitic at Birth: The identification and theoretical interpretation of nutritional rickets transported across the maternal-infant dyad in three English archaeological populations.
Marie C. WEALE, Hannah KOON, Jo BUCKBERRY ***
- 3:45 Breath-taking Athens – Evidence of pulmonary stress from Archaic Phaleron, Athens (700-480 BCE).
Hannah LIEDL, Rebecca GOWLAND, Aviva CORMIER, Stella CHRYSOULAKI, Jane E. BUIKSTRA ***
- 4:00 Presence of spinal pathology in a random sub-set of the Hamann-Todd osteological collection.
Kristy HENSON ***
- 4:15 Intestinal parasites in the playground: an archaeoparasitology of school latrines in 19th century New Orleans, USA.
Aida R. BARBERA, Nathanael HELLER, Emily MEADE ***
- 4:30 Parasite Burden, Prevalence, Aggregation and Distribution: Assessing Disease Risk.
Karl J. REINHARD

4:45 pm – 5:30 pm **POSTER IN-PERSON PRESENTATIONS** **Chair Sarah BORGEL**

- 4:45 Grin and Bear It: A Comparison of Micro-CT and Macroscopic Analysis of Mineralization Defects in Bones and Teeth in Children from 18th-19th century Quebec.
Amanda COOKE, Brianne MORGAN, Julie NGUYEN, Lily GODAWA, Isabelle RIBOT, Megan BRICKLEY ***
- 4:50 Knee'd to Know; What exactly is a Charcot Joint? A Case Study from the Hamann-Todd Collection.
Alysha LIEURANCE, Kendra ISABLE ***
- 4:55 Two case studies of subadult cranial pathology from Durango, Mexico (600-1450 AD).
Emily R. EDMONDS, Kathleen D. STANSBURY, J. Cristina FREIBERGER, Katharine C. WOOLLEN, Katherine GADDIS, Jennifer F. BYRNES ***
- 5:00 Anatomy of a differential diagnosis: A case study of *Macaca fascicularis* in biomedical context.
Erin F.E. PINKSTON ***
- 5:05 Dis/abled: Amputees from the Erie County Poorhouse Cemetery (1851 - 1913), New York as an Example of Life-Saving Measures.
Dayanira LOPEZ, Jennifer BYRNES ***
- 5:10 Integrating paleopathology and osteoimmunology: does treponemal infection shift inflammatory responses and alter osteoclastogenesis in periodontal disease?
Michayla GATSOS, Elijah GARDNER, Sharon DEWITTE, Molly K. ZUCKERMAN, Fabian CRESPO
- 5:15 Endogenous Cortisol Production Before Ritual Execution from Huanchaquito Las-Llamas, Peru (~1450 CE).
Benjamin J. SCHAEFER, Gabriel O. PRIETO
- 5:20 Discussion

5:30 pm – 6:30 pm **STUDENT ACTION COMMITTEE MEETING**

WEDNESDAY, April 19

8:00 am – 11:00 am **SYMPOSIUM 1**

A Festschrift Celebrating the Career of Della Cook.
Organized by Marie DANFORTH and Gabriel WROBEL

8:00 Life in the Trenches with Della.
Gabriel WROBEL, Marie Elaine DANFORTH

8:10 The power of a case study: A celebration of Della Cook.
Larissa COLLIER

8:25 Interpretation of multi-person burial at the Papdomb site, a rural Transylvanian cemetery (~AD 1050-1750);
 avoiding a “just-so” story”.
Katie ZEJDLIK, Jonathan D. BETHARD, Zsolt NYÁRÁDI

8:40 Furna do Estrago”: about bioarcheology, adaptability & an amazing friendship.
Sheila M. de SOUZA

8:55 Oh, the stories they can tell: Enamel microdefect studies in paleopathology.
Marie Elaine DANFORTH

9:10 “Insights from Bone and Lives Lived: Sitting posture and femoral morphology in the Lower Illinois River Valley
 at the Klunk (AD 600-800) and Schild (AD 700- 1250) sites.
Erica L. AUSEL, Della COOK

9:25 “Remember, you can have ticks and fleas”: Challenges and pedagogical opportunities in the construction of
 complex differential diagnoses.
Allison FOLEY ++

9:40 Revisiting mound IU 13 at the Mann site: Hopewell ceremonialism in southwestern Indiana.
Michael STREZEWSKI

9:55 The Caribbean Mystery: Tracing the spread of treponematoses.
Ana Luisa SANTOS

10:10 Congenital Coalitions in the Foot as Evidence of Biological Affinity in Ancient Maya Cave and Rockshelter
 Burials, Central Belize.
Gabriel WROBEL, Jack BIGGS, Aubree MARSHALL, Amy MICHAEL

10:25 Paleopathology in Children of Ancient Greece: Hard Lives in Early Byzantine (6th -7th century CE) Chryssi
 Island.
Susan Kirkpatrick SMITH

10:40 “You know my methods. Apply them.” Della Cook, Sherlock Holmes, and a lasting impact.
Carlina DE LA COVA

10:55 Bonding over gummatous lesions: Explorations in paleopathology with my friend, Della.
Mary Lucas POWELL

8:00 am – 11:00 am SYMPOSIUM 2

Disability and care in bioarchaeology: A perspective on health-related practices at individual- and population-scale approach.

Organized by Ileana MICARELLI and Brenda J. BAKER

8:00 Introduction to the Symposium “Disability and care in Bioarcheology: a perspective on health-related practices at individual- and population-scale approach”.

Ileana MICARELLI

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8:15 Disability expertise in bioarchaeology: Making the case for Shanidar 1 as a disabled cripple ancestor.
Katherine M. KINKOPF

8:30 Long live the sick nobleman! New insights into the Nabataean society from the Israeli desert.
Sarah BORGEL, Samuel FRANCIS, Uzi AVNER, Guy STIEBEL, Hila MAY

8:45 Surviving multiple traumas in Medieval Sudan: The example of an older adult female from the Qinifab School site.

Brenda J. BAKER

9:00 Disability, Eunuchs and the Lived Experience in Greco-Roman Quesna, Egypt.
Sonia ZAKRZEWSKI, Stephanie EVELYN-WRIGHT

9:15 Stature, hidden heterogeneity, and the social determinants of health: A case study from Ancient Egypt.
Anne AUSTIN

9:30 Physically impaired individuals in medieval Ireland: Exploring biomechanics and care.
Jessica WHITE

9:45 The Bioarchaeology of Disability: Does Preservation Matter?
Katherine GADDIS

10:00 Severe spine kyphosis with extensive ankylosis: disability in 17th century Lucca (Italy).
Valentina GIUFFRÀ, Simona MINOZZI, Davide CAMELLA, DORIANA PUGLIESE, ANTONIO FORNACIARI

10:15 Misfortunes of a Miner: Provision of care on the 19th Century Otago Goldfields.
Anne Marie SOHLER-SNODDY, Charlotte KING, Lucy KAVALE HENDERSON, Rebecca KINASTON, Peter PETCHEY, Hallie BUCKLEY

10:30 Discussion and Conclusion

11:00 am – 11:30 am COFFEE BREAK and POSTER IN-PERSON PRESENTATIONS

11:05 Bone aches: extensive hands and feet joint ankylosis in a post-Medieval individual from Northern France.
Benoit BERTRAND, Carina MARQUES, Sophie VATTEONI, Sylvestre HAUSER PITON, Anne BÉCART, Valéry HÉDOUIN

11:10 Reconstruction of life and death: An example from grave 10 of the Pakrac-Stari grad site.
Juraj BELAJ, Tea KOKOTOVIĆ, Siniša KRZINAR

*** Cockburn Student Prize Entrant

++ Jane E. Buikstra Early Career Prize Entrant

11:15 Joint osteoarthritis and dislocation in Archaic Greece: An osteobiography of an adult male from the Phaleron Cemetery of Athens.

Aviva A. CORMIER, Stella CHRYSOULAKI, Jane E. BUIKSTRA

11:20 Leprosy in Ancient China: Paleopathological Evidence and Social Consequences (1750 BC-320 AD).

Christine LEE, Nikki WILCOX

11:30 am – 12:45 pm

VIRTUAL PODIUM PRESENTATIONS

Chair Niels LYNNERUP

11:30 Health and Nutrition in 18th century Portugal: Bioanthropological and isotopic data from the Royal Hospital of All Saints.

Francisca ALVES-CARDOSO, Mariana FERREIRA, Sílvia CASIMIRO, Rodrigo Banha da SILVA, Alexandra ESTEVES, Julia BEAUMONT

11:45 Reconstructing inflammatory phenotypes using osteological markers in medieval populations from Barcelona, Spain.

Laura PALLARÉS VIÑA, Laura CANALES, Laura CASTELLS NAVARRO, Fabian CRESPO, Núria ARMENTANO

12:00 Battlefield or barracks? A bioarcheological investigation of a possible 18th-19th century military mass grave in the Czech Republic.

Leslie QUADE, Laia SEVILLANO, Daniel GAUDIO

12:15 Communicable and non-communicable diseases: an approach to understanding pathological patterns in ancient hunter-gatherers from Patagonia, South America.

Jorge SUBY, Cynthia Daniela PANDIANI, Rodrigo ZÚÑIGA THAYER

12:30 Presenting the DAARD: Digital Atlas of Ancient Rare Diseases.

Emmanuele PETITI, Juliane DORN, Kristina SCHEELEN-NOVÁČEK, Toni SCHÖNBUCHNER, Benjamin DUCKE, Julia GRESKY

12:45 pm – 2:45 pm

ASSOCIATION BUSINESS MEETING and AWARDS PRESENTATION + LUNCH BREAK

2:45 pm – 4:15 pm

IN-PERSON PODIUM PRESENTATIONS

Chair Susan Kirkpatrick SMITH

2:45 A new high-coverage *Treponema pallidum* genome from the 17th century highlights the importance of recombination in *T. pallidum*'s evolutionary history.

Verena SCHUENEMANN, Gülfirde AKGÜL, Marta PLA-DIAZ, Martyna MOLAK, Louis DU PLESSIS, Hanna PANAGIOTOPOULOU, Karolina DOAN, Wiesław BOGDANOWICZ, Paweł DĄBROWSKI, Maciej OZIEMBŁOWSKI, Joanna GRZELAK, Natasha ARORA, Fernando GONZALEZ-CANDELAS, KERTTU MAJANDER

3:00 Contextualizing plague mortality in 14th century England: A demographic analysis of the Black Death mass graves and associated parish cemetery from Hereford Cathedral.

Emilia R. FRANKLIN, Piers D. MITCHELL, John E. ROBB

3:15 A close look at a paleopathological absentee: Ectopia cordis with cleft sternum found in the Coimbra University Hospitals archives (19th century, Portugal).

Vítor M.J. MATOS, Carina MARQUES, Maria Torres MANSO, Carlos BRANCO, Vasco GÓIS

3:30 Frequency and distribution of fibro-osseous processes (FOPs) in the craniofacial skeleton of individuals from the Bronze Age, Southern Russia.

Julia GRESKY, Natalia BEREZINA, Katharina FUCHS

3:45 A case report of solitary osteochondroma from 4th c. BC Pontecagnano (southern Italy) and review of the literature.

Giulia RICCOMI, Giacomo ARINGHIERI, Antonia SERRITELLA, Valentina GIUFFRA

4:00 Identifying pathological periosteal new bone formation (PNBF) in non-adults: Utilising macroscopic and radiological methods in fetal, perinatal, and infant individuals to examine palaeopathological interpretations.

Claire HODSON

4:15 pm – 4:45 pm COFFEE BREAK and POSTER IN-PERSON PRESENTATIONS

4:20 Maternal nutritional stress and early child development in the Neolithic Near East.

Ashley N. BAEZA, Marin A. PILLOUD

4:25 Playthings and companions: Evaluating historic attitudes toward skeletal dysplasias through analysis of hypochondroplasia at Durdevac-Sosice (Croatia).

Daniel D. DILLON, Anna J. OSTERHOLTZ, Robert ČIMIN, Ivan VALENT

4:30 Maxillary sinusitis in Avar period communities: Cases from Croatia and Serbia.

Ksenija ĐUKIĆ, Mario NOVAK, Mario CARIĆ, Veda MIKAŠINOVIĆ

4:35 A Possible Case of Cerebral Palsy from 16th-18th Century Greenland.

Marie Louise S. JØRKOVI, Chiara VILLA, Jens F. JENSEN, Christian Kock MADSEN

4:45 pm – 6:30 pm IN-PERSON PODIUM PRESENTATIONS Chair Erica L. AUSEL

4:45 Reevaluating the bioarchaeological evidence for massacre at a Basketmaker II cave site in southeastern Utah.

Patricia LAMBERT

5:00 Trauma at Phaleron? Differentiation of trauma and taphonomy at an Archaic Greek site.

Dawnie W. STEADMAN, Jane E. BUIKSTRA

5:15 A Comparison of Field in situ and Laboratory Analyses of human skeletons from the Archaic Period at the Site of Phaleron, Greece.

Jane E. BUIKSTRA, Anne INGVARSSON

5:30 To err is human... The question of observer error in palaeopathology.

Simon MAYS

5:45 Head shaping and biocultural identity in ancient Panama.

Nicole E. SMITH-GUZMÁN, Ashley E. SHARPE, Richard G. COOK

6:00 pm CLOSING REMARKS

Megan B. BRICKLEY

*** Cockburn Student Prize Entrant

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