AJA ONLINE PUBLICATIONS

Osteological Research in Classical Archaeology: Extended Bibliography

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The following bibliographic list supplements my article "State of the Discipline: Osteological Research in Classical Archaeology" published in the *AJA* (2007) 473–504. Although extensive, this list is very much a work in progress, with its content reflecting my particular geographic and temporal research interests. Consequently, Italy, Greece, and North Africa receive more attention than other regions. My hope is that, in the spirit of collaboration, gaps in this list will be filled by other researchers who have greater familiarity with other regions and time periods of the ancient world. The current list is also shaped by accessibility of reports, the scale of dissemination of material, and other factors, including language biases. Consquently, it reflects in large part the English, Italian, French, German, and Spanish literature on osteology in the classical context, and in turn those reports that have been published in journals, edited books, conference proceedings, etc., as opposed to less widely disseminated laboratory research reports and other types of "gray" literature. Nevertheless, one important intention of this bibliography is to show the great depth and breadth of osteological research in classical archaeology. Bones can tell us much about ancient life, and their study can involve a wide gamut of investigative techniques.

Compiling this bibliography would not have progressed so smoothly without the assistance of others. In particular, I would like to acknowledge the diligent work of the following University of Winnipeg students: Maureen Babb, Cheryl Denley, Koreena Johnson, Amanda Reinisch, Jodi Schmidt, Nicole Skalesky, and Pam Turney. These students spent many hours collecting, organizing, and entering data. Their efforts are very much appreciated. In addition, I would like to thank Gill Campbell, Andy Hammon, Sue Stallibrass, and Fay Worley for their helpful comments, direction, and assistance with bibliographic entries for zooarchaeological research in Britain.

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Human Osteology: Synthetic Works and Larger Integrative Works

The following list includes a selection of works that incorporate large regional, temporal, or topical issues in human osteology in the classical context. Many take a comparative approach, synthesizing data from several sites, regions, and/or time periods to assess patterns for ancient cultures. Several of the time period and geographic locations considered among the works below include Etruscan Italy, Roman Egypt, Mycenaean Greece, Iron Age and Hellenistic Sicily, Minoan Crete, and Roman Italy. Topics run a wide gamut, from investigative issues such as paleonutrition, mortuary practices, cremation, demography, and osteometric to methodological considerations in data recording and analysis. Supplemental materials can also be found in the databases for individual sites and paleopathology included below, as many of these also touch upon larger comparative aspects in their analyses.

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Becker, M.J. 1982a. "Human Skeletal Analysis and the Study of the History and Prehistory of Southern Italy: The Development of a Program of Study." *Studi di Antichità* 3:133–53.

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Belcastro, M.G., E. Rastelli, V. Mariotti, C. Consiglio, F. Facchini, and B. Bonfiglioli. 2007. "Continuity or Discontinuity of the Life-Style in Central Italy During the Roman Imperial Age–Early Middle Ages Transition: Diet, Health and Behavior." *American Journal of Physical Anthropology* 132:381–94.

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Bisel, S.C., and J.L. Angel. 1985. "Health and Nutrition in Mycenaean Greece: A Study in Human Skeletal Remains." In *Contributions to Aegean Archaeology: Studies in Honor of W.A. McDonald*, edited by N.C. Wilkie and W.D.E. Coulson, 197–209. Minneapolis: University of Minnesota Press.

Borgognini Tarli, S.M., and F. Mazzotta. 1986. "Physical Anthropology of Italy from the Bronze Age to the Barbaric Age." In *Ethnogenese Europaischer* Volker, edited by W. Bernard and A. Kandler-Palsson, 147–72. Stuttgart: Gustav Fischer Verlag.

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* no skeletal data presented, but appendices contain detailed information on sites that form the basis of study

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Cucina, A., D. Mancinelli, and A. Coppa. 1998. "Demography, Nutrition and Stress in the Italian Peninsula from the Copper Age to the Roman Imperial Age." *Rivista di Antropologia (Roma)* Suppl. 76:135–38.

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Gallou, C. 2005. *The Mycenaean Cult of the Dead*. *BAR-IS* 1372. Oxford: Archaeopress.
*analysis of tombs, no skeletal data presented, but catalogue of sites and data on archaeological materials recovered (architecture, pottery, ritual remains)
Houby-Nielson, S. 2000. "Child Burials in Ancient Athens." In *Children and Material Culture*, edited by J. Sofaer Derevenski, 151–66. London: Routledge.
Jones, R.F.J. 1983. "Cemeteries and Burial Practice in the Western Provinces of the Roman Empire." Ph.D. diss., Institute of Archaeology, University of London.
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Keita, S.O.Y. 1990. "Studies of Ancient Crania from Northern Africa." *American Journal of Physical Anthropology* 83:35–48.
Killgrove, K. 2005. "Bioarchaeology in the Roman World." M.A. thesis, University of North Carolina at Chapel Hill.
King, A.C. 1994. *British and Irish Archaeology: A Bibliographical Guide*. Manchester: Manchester University Press.
*good survey list of archaeology sites, including cemetery sites
Macchiarelli, R., L. Salvadei, and L. Bondioli. 1995. "Odontometric Variation and Biological Relationships Among Italic (Latins, Samnites, Paeligni, Picens) and Imperial Roman Populations." In *Aspects of Dental Biology: Paleontology, Anthropology and Evolution*, edited by J. Cecchi-Moggi, 419–36. Florence: International Institute for the Study of Man.
MacKinnon, M. 2007. "Peopling the Mortuary Landscape of North Africa: An Overview of the Human Osteological Evidence." In *Mortuary Landscapes of Roman North Africa*, edited by D. Stone and L. Stirling, 204–40. Toronto: University of Toronto Press.
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Musgrave, J.H., and S.P. Evans. 1980. "By Strangers Honor'd: A Statistical Study of Ancient Crania from Crete, Mainland Greece, Cyprus, Israel and Egypt." *Journal of Mediterranean Anthropology and Archaeology* 1:22–40.
Pearce, J. 1994. "The Romanisation of the Dead: A Contextual Study of the Burial Practice of Verulamium in the First and Second Centuries AD." M.A. thesis, University of Durham.
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Anthropology Association 15:89–111.
Philpott, R. 1991. *Burial Practices in Roman Britain: A Survey of Grave Treatments and Furnishing A.D. 43–410. BAR-BS* 219. Oxford: Tempus Reparatum.
*gazetteer of sites with listings of human and non-human skeletal material recovered from Iron Age burials in Britain
Rubini, M., and A. Coppa. 1991. "Studio antropologico sugli inumati della necropoli arcaica di Riofreddo (Lazio, VI sec. a.C.)." *Rivista di Antropologia* 69:153–66.
Rubini, M., E. Bonafede, and S. Mogliazza. 1999. "The Population of East Sicily During the Second and First Millennium B.C.: The Problem of Greek Colonies." *International Journal of Osteoarchaeology* 9:8–17.
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Triantaphyllou, S. 2001. *A Bioarchaeological Approach to Prehistoric Cemetery Populations from Central and Western Greek Macedonia. BAR-IS* 976. Oxford: Archaeopress.
Watts, D.J. 1989. "Infant Burials and Romano-British Christianity." *ArchJ* 146:372–83.
Whimster, R. 1981. *Burial Practices in Iron Age Britain: A Discussion and Gazetteer of the Evidence c. 700 B.C.–A.D. 43. BAR-BS* 90. Oxford: British Archaeological Reports.
*gazetteer of sites with listings of human and non-human skeletal material recovered from Iron Age burials in Britain

Human Osteology: Site Reports

The following site reports are separated by geographic region. Owing to my particular research interests, the bulk of these reports relate to Italy and Greece. This list is not intended to be exhaustive, and is very much a work in progress. Additions to the list would be appreciated in the spirit of collaboration.

Italy and Sicily

Angel, J.L. 1987. "Human Bones." In *The Roman Port and Fishery of Cosa*, edited by A.M. McCann, 315. Princeton: Princeton University Press.
Argenti, M., and G. Manzi. 1988. "Morfometria cranica delle popolazioni romane di età imperiale: Isola Sacra e Lucus Feroniae." *Rivista di Antropologia* 66:179–200.
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———. 1992a. *Cremated Human Bone from the A47 Norwich Southern By-Pass Excavations (1989–90): The Bixley and Harford Farm Sites*. Ancient Monuments Laboratory Reports 68. London: Ancient Monuments Laboratory, English Heritage.
———. 1992b. *Two Romano-British Burials from Godfrey's Yard, Chelmsford, Excavated in 1987*. Ancient Monuments Laboratory Reports 74. London: Ancient Monuments Laboratory, English Heritage.
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Zooarchaeology: Synthetic Works and Larger Integrative Works

The following list includes a selection of works that incorporate large regional, temporal, or topical issues in zooarchaeology in the classical context. Many take a comparative approach, synthesizing data from several sites, regions, and/or time periods to assess patterns for ancient cultures. Several of the time periods and geographic locations considered among the works below include Iron Age Britain and Europe, Bronze Age Greece, and the Roman empire in general. Included as well are specific regional studies of areas such as Roman Italy, Roman Britain, the Roman Northwest Provinces, Gaul, and Germany. Topics include an equally diverse mix, from investigations

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of dietary and husbandry patterns to comparisons of animal sizes through metric data to examinations of ritual use of animals across sites and cultures.

Audoin-Rouzeau, F. 1991a. *La taille du boeuf domestique en Europe de l'Antiquité aus temps modernes*. Fiches d'ostéologie animale pour l'Archéologie. Ser. B. Mammifères 2. Juan-les-Pins: Éditions APDCA.

*comparisons of bone measurement data and withers height estimates for cattle across archaeological sites in Europe

———. 1991b. *La taille du mouton en Europe de l'Antiquité aus temps modernes*. Fiches d'ostéologie animale pour l'Archéologie. Ser. B. Mammifères 3. Juan-les-Pins: Éditions APDCA.

*comparisons of bone measurement data and withers height estimates for sheep across archaeological sites in Europe

———. 1993. *Hommes et animaux en Europe de l'époque antique aux temps modernes: Corpus de données archéozooloqiues et historiques*. Dossier de documentation archéologique 16. Paris: Centre National de la Recherche Scientifique.

*corpus of sites with zooarchaeological data; covers Europe, includes NISP and MNI data where available

Baker, P., and G. Clark. 1993. "Archaeozoological Evidence for Medieval Italy: A Critical Review of the Present State of Research." *Archeologia Medievale* 20:45–78.

Bökönyi, S. 1974. *A History of Domestic Mammals in Central and Eastern Europe*. Budapest: Akadémiai Kiadó.

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Chevallier, R., ed. 1995. *Homme et animal dans l'antiquité romaine*. Tours: Centre de recherches André Piganiol.

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Fernández Rodrîguez, C. 2003. *Ganadería, caza y animals de compañia en la Galicia Romana: Estudio arqueozoológico*. Brigantium 15. Corunna: Museo Arqueolóxico e Histórico.

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Jourdan, L. 1976. *La faune du site gallo-romanin et paléochrétien de la Bourse (Marseille)*. Marseille: Centre National de la Recherche Scientifique.

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Lepetz, S., and V. Matterne. 2003. "Elevage et agriculture dans le nord de la Gaule durant l'époque gallo-romaine: Une confrontation des données archéozoologiques et carpologiques." In *Cultivateurs, éleveurs et artisans dans les campagnes gallo-romaines Matrières premières et produits transformés: Actes VIè Colloque Ager (Compiègne, 5–6 juin 2002)*, edited by S. Lepetz and V. Matterne, 23–35. Amiens: Révue Archéologique de Picardie.
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———. 1996. "Importation de grands animaux romain et amelioration du cheptel à la fin de l'âge du Fer en Gaule Belgique." *Revue Archéologique de Picardie* 3–4:113–22.
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Payne, S. 1985. "Zooarchaeology in Greece: A Reader's Guide." In *Contributions to Aegean Archaeology: Studies in Honor of William A. McDonald*, edited by N.C. Wilkie and W.D.E. Coulson, 211–44. Dubuque, Iowa: Kendall/Hunt.
Peters, J. 1998. *Römische Tierhaltung und Tierzucht: Eine Synthese aus archäozoologischer Untersuchung und schriftlich-bildicher Überlieferung*. Rahden: Marie Leidorf.
Reese, D.S. 1994. "Recent Work in Greek Zooarchaeology." In *Beyond the Site: Regional Studies in the Aegean Area*, edited by P.N. Kardulis, 191–221. Lanham, Md.: University Press of America.
Reidel, A. 1994. "Archaeozoological Investigation in North-Eastern Italy: The Exploitation of Animals Since the Neolithic." *Preistoria Alpina* 30:43–94.
Richardson, J.E. 1997. "Economy and Ritual: The Use of Animal Bone in the Interpretation of the Iron Age to Roman Cultural Transition." In *TRAC 96: Proceedings of the Sixth Annual Theoretical Roman Archaeology Conference*, edited by K. Meadows, C. Lemko, and J. Heron, 82–90. Oxford: Oxbow.
Thomas, R.N.W. 1989. "Cattle and the Romano-British Economy: A Metrical Analysis of Size Variation." Ph.D. diss., University of Southampton.

Zooarchaeology: Site Reports

The following site reports are separated by geographic region and are meant to supplement reports that are already included in the synthetic works listed above. Again, owing to my particular research interests, most of these reports relate to Italy and Greece. This list is not intended to be exhaustive and is very much a work in progress. Additions to the list are appreciated in the spirit of collaboration.

Italy and Sicily

The following zooarchaeological reports supplement the lists already provided in King (1999a) and MacKinnon (2004) above.

Aimar, A. 1992. "I resti faunistici." In *Locri Epizefri IV–lo scavo di Marasa Sud. Il sacello tardo arcaico e la "casa dei leoni,"* edited by M. Barra Bagnasco, 371–75. Florence: Casa Editrice le Lettere.
———. 1993. "Le Faune." In *Archeologia nella Valle del Curone*, edited by G. Panto, 181–92. Quaderni della soprintendeza archeologica del Piemonte Monografie 3. Alessandria: Edizioni del'Orso.
Aimar, A., F. D'Errico, and G. Giacobini. 1991. "Analisi dei resti faunistici." In *Montaldo di Mondoui un insediamento protobtouico un castello*, edited by E. Micheletto and M. Venturino Gambari, 237–44. Rome: Leonardo De Luca.
Albarella, U., F. Manconi, P. Rowley-Conwy, and J. Vigne. 2006. "Pigs of Corsica and Sardinia: A Biometrical Re-Evaluation of Their Status and History." In *Archaeozoological Studies in Honour of Alfredo Riedel*, edited by U. Tecchiati and B. Sala, 285–302. Bolzano: Ripartizione Beni Culturali.
Bedini, E. 1999. "I resti faunistici." In *Oppido Mamertina, Calabria, Italia: Ricerche archeologiche nel territoriae in contrada Mella*, edited by L. Costamagna and P. Visonà, 393–95. Rome: Gangemi.

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Biasotti, M., and R. Giocinazzo. 1991. "Reperti faunistici." In *Scavi MM3: Ricerche di Archeologia urbana a Milano durante la construzione dello linea 3 della metropolitana 1982–1990*. Vol. 3, pt. 2, edited by D. Caporusso, 167–84. Milan: Edizioni ET.

———. 1993. "Resti animali." In *Mercato e città dalla tarda età repubblicana a Diocleziano dagli scavi del Colle di Castello*, edited by M. Milanese, 263–74. Rome: L'Erma di Bretschneider.

D'Errico, F., and A.M. Moigne. 1985. "La faune classique-hellénistique de Locres: Écologie, élevage, dépeçage." M*ÉFRM* 97:19–50.

Dobney, K. 2000. "The Faunal Remains from the Early Iron Age Levels." In *Botromagno Excavation and Survey at Gravine in Puglia 1979–1985*, edited by R.D. Whitehouse, J.B. Wilkins, and E. Herring, 45–52. Accordia Specialist Studies on Italy 9. London: Accordia Research Institute, University of London.

Farello, P. 2006. "Equidi dalla fogna di classe (RA)–(IV–V secolo d.C.)." In *Archaeozoological Studies in Honour of Alfredo Riedel*, edited by U. Tecchiati and B. Sala, 269–84. Bolzano: Ripartizione Beni Culturali.

Giusberti, G. 1983. "Note preliminari sulle faune dell'abitato di Monte Bibele." In *Monterenzio e la valle dell'Idice. Archeologia e storia di un territouo: Catalogo della mostra, Monterenzio, Casa della Cultura*, edited by D. Vitali, 135–37. Bologna: Banca del Monte de Bologna e Ravenna.

Marconi, S. 2006. "I resti faunistici di epoca romana rinvenuti del corso delle campagne di scavo a SanCandido–Cantiere Boden (BZ)." In *Archaeozoological Studies in Honour of Alfredo Riedel*, edited by U. Tecchiati and B. Sala, 217–30. Bolzano: Ripartizione Beni Culturali.

Mazzorin, J. 2006. "Cammelli nell'antichita: Le presenze in Italia." In *Archaeozoological Studies in Honour of Alfredo Riedel*, edited by U. Tecchiati and B. Sala, 231–42. Bolzano: Ripartizione Beni Culturali.

Prummel, W. 1996. "The Sacrificial Animals in Deposit II of Borgo le Ferriere (Satricum)." In *Religio Votiva: The Archaeology of Latial Votive Religion*, edited by J.W. Bouma, 419–81. Groningen: University of Groningen.

Reese, D.S. 1993. "Animal Bones." In *The Protohistoric Settlement on the Cittadella: Morgantina Studies*. Vol. 4, edited by R. Leighton, 91–5. Princeton: Princeton University Press.

Sorrentino, C. 1987. "Il materiale osteologico." In *Ricerche archeologiche a Napoli: Lo scavo in largo S. Aniello (1982–1983)*, edited by A. D'Onofrio and C. d'Agostino, 21–2. Naples: Arte.

———. 2006. "Il materiale osteologico animale degli scavi di Ficarolo-Gaiba (RO)." In *Archaeozoological Studies in Honour of Alfredo Riedel,* edited by U. Tecchiati and B. Sala, 243–52. Bolzano: Ripartizione Beni Culturali.

Sorrentino, C., Z. Giuseppe, and F. Manzi. 2000. "Materiale osteologico animale." In *Le navi antiche di Pisa: Ad un anno dell'inizio delle ricerche*, edited by S. Bruni, 329–42. Florence: Polistampa.

Tagliacozzo, A., and P. Cassoli. 2001. "Analisi dei resti ossei animali." In *Materiali veneti preromani e romani del santuario di Lagole de Calazo al Museo di Pieve di Cadore*, edited by G. Fogolari and G. Gambacurta, 77–86. Rome: Giorgio Bretschneider.

Tecchiati, U. 2006. "La fauna della casa del II–I secolo a.C. di San Giorgio di Valpolicella–Via Conca d'Oro (VR)." In *Archaeozoological Studies in Honour of Alfredo Riedel*, edited by U. Tecchiati and B. Sala, 181–216. Bolzano: Ripartizione Beni Culturali.

Toco Sciarelli, G. 1988. "I sanctuari." In *Poseidonia-Paestum: Atti del ventisettesimo Convegno di studi sulla Magna Grecia: Taranto-Paestum, 9–15 ottobre 1987*, 402–8. Taranto: Istituto per la storia e l'archeologia della Magna Grecia.

Villari, P. 1989. "Nature des offrandes animals du puits de Piazza della Victoria à Syracuse (milieu du IIe s. av. J.-C.), etude archéozoologique." *Anthropozoologica* 11:9–30.

Wilkens, B. 1991. "I resti faunistici." In *L'alimentazione nell'abitato etrusco di montecatino in Val Freddana*, edited by G. Ciampoltrini, O. Rendini, and B. Wilkens, 280–84. *StEtr* 56:271–84.

———. 1998. "Il cane di eta tardo romana di S. Martino." *Quaderni del Museo di Storia Naturale di Livorno* 2:43–5.

———. 2000. "I resti ittici dal magazzino del IV–III sec.a.C di Olbia." *Rivista di Studi Punici* 1:81–8.

Wilkens, B., and F. Delussu. 2002. "I resti faunistici." In *L'agorà di Eraclea Lucana*, edited by G. Pianu, 299–342. Rome: Carocci.

Greece, Aegean, Cyprus, and Asia Minor

Early bibliographic lists of zooarchaeological work on ancient sites in this area include Payne (1985) and Reese (1994). Both consider Bronze Age and earlier material to some degree, although for the purposes of this list, I concentrate chiefly on post–Bronze Age faunal samples. King (1999a) surveys some sites of this period in his list. Updated entries not included in these earlier lists are included below. I divide my list into two components: (1) a collection of assemblages that deal with sacrificial material, an especially prolific component of zooarchaeological work among ancient sites in this area; and (2) general faunal sites reports.

Greece, Aegean, Cyprus, and Asia Minor: Reports for Sacrificial Assemblages

Bammer, A. 1998. "Sanctuaries in the Artemision of Ephesus." In *Ancient Greek Cult Practice from the Archaeological Evidence*, edited by R. Hägg, 27–47. *SkrAth* 8°, 15. Stockholm: Paul Åströms Förlag.

Bammer, A., F. Brein, and P. Wolff. 1978. "Das Tieropfer am Artemisaltar von Ephesos." In *Studien zur Religion und Kultur Kleinasiens: Festschrift für Friedrich Karl Dörner zum 65. Geburtstag am 28. Februar 1976,* edited by S. Şahin, E. Schwertheim, and J. Wagner, 107–57. Études preliminaires aux religions orientales dans l'Empire romain 66. Leiden: Brill.

Benecke, N. 2006. "Animal Sacrifice at the Late Artemision of Olympia: The Archaeozoological Evidence." In *Archaeozoological Studies in Honor of Alfredo Riedel*, edited by U. Tecchiati and B.

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Sala, 153–60. Bolsena: Ufficio Beni Archaeologici, Ripartizione Beni Culturi.
Bookidis, N., J. Hansen, L. Synder, and P. Goldberg. 1999. "Dining in the Sanctuary of Demeter and Kore at Corinth." *Hesperia* 68:1–54.
Chenal-Velarde, I. 2001. "Des festins à l'entrée du temple? Sacrifices et consummation des animaux à l'époque géométrique dans le sanctuaire d'Appollon à Erétrie, Grèce." *Archaeofauna* 10:25–35.
Chenal-Velarde, I., and J. Struder. 2003. "Archaeozoology in a Ritual Context: The Case of the Sacrificial Altar in Geometric Eretria." In *Zooarchaeology in Greece: Recent Advances*, edited by E. Kotjabopoulou, Y. Hamilakis, P. Halstead, C. Gamble, and V. Elefanti, 215–20. London: British School at Athens.
Columeau, P. 1996. "Les restes de faune du sanctuaire d'Aphrodite à Amothonte." *BCH* 120:784.
———. 2000. "Sacrifice et viande dans les sanctuaries grecs at chypriotes (VIIe s./Ier s. av. J.-C.) et l'apport de l'habitat de Kassopè." *Pallas* 52:147–66.
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The Netherlands and Belgium

For larger surveys of ancient sites in the Netherlands, see Lauwerier 1988. Sites here and in Belgium are also listed in Luff (1982), King (1984, 1999a), and Peters (1998).

R. Lauwerier has helped increase the profile of zooarchaeology on Roman sites in the Netherlands, and continues to research this topic. In Belgium, the work of zooarchaeologists such as W. Van Neer, A. Ervynck, and A. Lentacker has been instrumental for our understanding of ancient sites in the area. Some additional publications, not listed in the surveys above, are listed below.

De Cupere, B., and W. Van Neer. 1993. "La Faune du site de l'hospice Saint-Gilles à Namur: Résultats Préliminaires." In *Première Journée d'Archéologie Namuroise*, edited by M.H. Corbiau and J. Plumier, 87–104. Namur: Facultés Universitaires Notre-Dame de la Paix.

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Danube and Balkan Provinces

Earlier syntheses of zooarchaeological remains from classical sites in the Danubian and Balkan provincial areas include Bökönyi (1974, 1984). Several sites are also listed in King (1999a). L. Bartosiewicz and A. Choyke have been instrumental in promoting current zooarchaeological investigations, especially in Hungary. Research there, as well as on ancient sites in regions such as Bulgaria and Romania, is developing rapidly. A further publication on material from Bulgaria is listed below.

Hammon, A. 2002. "The Mammal and Bird Bones from Dichin (Gradishteto): Assessment and Potential." In *The Roman and Late Roman City: The International Conference, Veliko Turnovo, 26–30 July 2000*, edited by L. Slokoska and A. Poulter, 51–8. Sofia: Professor Marin Drinov Academic Publishing House.

Germanic Provinces

Earlier reviews of zooarchaeological data from ancient sites in the Germanic provinces (here, largely encompassing Germany, Switzerland, and Austria) include Luff (1982), King (1984, 1999a), and Peters (1998). There is a long history of faunal research in Germany, especially under the auspices of the zooarchaeological laboratory in Munich, which has been the center for numerous student dissertations on animal bone material from ancient sites. Researchers such as J. Boessneck, A. von den Driesch, and, more recently, J. Peters have helped promote zooarchaeology in Germany. Several publications, not listed in the surveys above, on ancient sites in the Germanic provinces appear below.

Barthel, H.-J. 1987. "Tierknochenfunde aus Siedlungen der Römischen Kaiserzeit bei Dienstedt und Haarhausen, Kr. Arnstadt." *Beiträge zur Archäozoologie* 6:36–90.
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Pfannhauser, R. 1980. "Tierknochenfunde aus der spätrömischen Anlage auf der Burg Sponeck bei Jechtingen, Kreis Emmendingen." Ph.D. diss., University of Munich.
Prilloff, K. 1993. "Tierknochenfunde aus der frühen römischen Kaiserzeit von Borstel, Kr. Stendal, und Magdeburg-Cracau." *ZfA* 27:293–322.
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Zawatka, D., and H. Reichstein. 1977. "Untersuchungen an Tierknochenfunden von den römerzeitlichen Siedlungsplätzen Bentumersiel und Jemgumkloster an der unteren Ems/Ost-

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Britain

There has been considerable zooarchaeological activity among Iron Age and Roman sites in Britain. The following supplement the extended lists of reports already published in King (1978, 1984, 1999a), Maltby (1981, 1984, 1987a), Luff (1982), Grant (1989), Huntley and Stallibrass (1995), Peters (1998), Hambleton (1999), and Thomas (1989). In addition, there are several databases of bibliographic entries for British sites, many of which are searchable for key terms such as "osteology," etc. These databases include The British and Irish Archaeological Bibliography (BIAB Online) (http://www.biab.ac.uk), Archaeology Data Service (http://ads.ahds.ac.uk), and English Heritage (http://test.english-heritage.org.uk/researchreports). Supplemental faunal reports, with special attention given to Romano-British contexts, include the following list.

Albarella, U. 1997a. *The Iron Age Animal Bone Excavated in 1991 from Outgang Road, Market Deeping (MAD 91), Lincolnshire*. Ancient Monuments Laboratory Reports 5. London: Ancient Monuments Laboratory, English Heritage.

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Paleopathology, Health, and Disease

There is a large body of literature on health and disease in antiquity examining the topic from a variety of angles—literary, iconographic, sociological, skeletal, and so forth. The following publications investigate aspects of paleopathology, health, and disease in classical civilizations (generally Greek and Roman contexts), chiefly on the basis of osteological data. Included in the list are a number of publications addressing aspects of ancient medicine, medical and dental surgery, and unique skeletal deformities or conditions. More research has focused on human paleopathology, as is evident from their predominance in the list below; however, several key publications examining cases of skeletal injuries and trauma in animal bones from Greek and Roman sites are also included. The list is not meant to be exhaustive on all literature pertaining to health and disease in antiquity. It focuses on those studies incorporating excavated skeletal data in their investigations. Further key resources and bibliographic entries (not related specifically to classical archaeology) are available at the following:

Paleopathology Association (http://www.paleopathology.org)

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Animal Palaeopathology Working Group (http://www.apwg.supanet.com)

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Aging, Sexing, and Osteometrics

The following list represent a selection of works dealing with issues about aging, sexing, or measuring human bone remains from classical archaeological sites. Many early analyses in physical anthropology concentrated on measuring bones, in particular human crania, and using these data to infer population categories and "races" of humans.

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Tocheri, M.W., and J.E. Molto. 2002. "Aging Fetal and Juvenile Skeletons from Roman Period Egypt Using Basiocciput Osteometrics." *International Journal of Osteoarchaeology* 12:356–63.
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Ritual and Sacrifice

The following investigate aspects of ritual and sacrifice in classical archaeology on the basis of recovered osteological materials. In many cases they represent analyses of votive deposits or cemetery deposits, which presumably have some ritual or ceremonial connection.

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Also included in the list are several articles with a larger theoretical or methodological perspective, outlining criteria to help identify and analyze ritual osteological assemblages. Several articles deal with controversial aspects such as infanticide and human sacrifice.

Bagnall, S.J. 1995. "Interim Report on the Votive Material from Romano-Celtic Temple Sites." *Oxoniensia* 60:177–205.

Becker, M.J. 1993. "Human Sacrifice in Iron Age Italy: Evidence from the 'Tombe Principesce' Number 926 and 928 at Pontecagnano (Salerno)." *OWAN* 16(2):23–30.

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Diet Reconstruction

Examination of ancient diets is a particularly huge topic that can be approached from many angles—literary, epigraphical, iconographical, social historical, environmental, etc.

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The following list is only a short sample of the works addressing osteological evidence in this reconstruction, in particular the component of meat to the ancient diet. Many of the zooarchaeological works listed above in the sections on synthesis and individual site reports also deal with aspects of dietary reconstruction in their analyses.

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Toplyn, M.R. 1994. "Meat for Mars: Livestock, *Limitanei* and Pastoral Provisioning for the Roman Army on the Arabian Frontier (A.D. 284–551)." Ph.D. diss., Harvard University.

Butchery

There are many publications on animal butchery practices across cultures, and a great deal of ethnoarchaeological and taphonomic research on this topic. The references below provide a sample of works with direct relevance to ancient Roman butchery techniques as understood from zooarchaeological assemblages.

Burke, A. 2000. "Butchery of Sheep in Rural Tunisia (North Africa): Repercussions for the Archaeological Study of Patterns of Bone Disposal." *Anthropozoologica* 32:3–9.

Grant, A. 1987. "Some Observations on Butchery in England from the Iron Age to the Medieval Period." In *La Découpe et le Partage du Corps à Travers le Temps et l'Espace*, edited by J.-D. Vigne, 53–8. *Anthropozoologica* Premier Numéro Spécial. Paris: Anthropozoologica.

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Rodet-Belarbi, I., and J.-H. Yvinec. 1990. "Boucheries et dépotoirs de boucherie Gallo-Romains." *Anthropozoologica* 13:19–25.

Seetah, K. 2002. "Techniques and Implement Use in Urban Romano-British Cattle-Butchery." M.Sc. thesis, Bournemouth University.

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Worked Bone and Industrial Use

The references listed below represent only a few key publications on worked-bone products

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and manufacturing. Although worked astragali (i.e., ankle bones) of cattle, ovicaprids, and other animal taxa are common finds at many classical archaeological sites (as gaming pieces or with ritual connections), all cases of their occurrence are not reported below.

A valuable resource for worked-bone materials in general is the French bibliographic publication *Instrumentum (Bulletin du Groupe de travail européen sur l'artisanat et les productions manufacturées dans l'Antiquité)*. For further information, consult their Web site (http://www.instrumentum.net).

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McGregor, A. 1989. "Bone, Antler and Horn Industries in the Urban Context." In *Diets and Crafts in Towns: The Evidence of Animal Remains from the Roman to Post-Medieval Periods*, edited by D. Serjeanson and T. Waldron, 107–28. *BAR-BS* 199. Oxford: British Archaeological Reports.

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Serjeantson, D. 1989. "Animal Remains and the Tanning Trade." In *Diet and Crafts in Towns*, edited by D. Serjeanson and T. Waldron, 129–46. *BAR-BS* 199. Oxford: British Archaeological Reports.

St. Clair, A. 2003. *Carving as Craft: The Palatine East Discoveries and the Greco-Roman Carving Tradition*. Baltimore: The Johns Hopkins University Press.

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DNA and Genetic Research

The following represent a selection of works that incorporate techniques from molecular genetics to help understand aspects such as population demography, species identification, and familial relationships among ancient sites. Genetic investigation is a rapidly developing field with great potential for classical archaeology.

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Cappellini, E., B. Chiarelli, L. Sineo, A. Casoli, A. De Giola, C. Vernesi, M.C. Biella, and D. Caramelli. 2004. "Biomolecular Study of the Human Remains from Tomb 5839 in the Etruscan Necropolis of Monterozzi, Tarquinia (Viterbo, Italy)." *JAS* 31:603–12.

Caramelli, D. 2001. "Caratterizzazione genetica della popolazione etrusca." Ph.D. diss., University of Florence.

Cipollaro, M., G. Di Bernardo, A. Forte, G. Galano, L. De Masi, U. Galderisi, F.M. Guarino, F. Angelini, and A. Cascino. 1999. "Histological Analysis and Ancient DNA Amplification of Human Bone Remains Found in Caius Iulius Polybius House in Pompeii." *Croatian Medical Journal* 40(3):392–97.

Cipollaro, M., G. Di Bernardo, G. Galano, U. Galderisi, F. Guraino, F. Angelini, and A. Cascino. 1998. "Ancient DNA in Human Bone Remains from Pompeii Archaeological Site." *Biochemical and Biophysical Research Communications* 247(3):901–4.

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Di Bernardo, G., U. Galderisi, S. Del Gaudio, A. D'Aniello, C. Lanave, M.T. De Robertis, A. Cascino, and M. Cipollaro. 2004. "Genetic Charaterization of Pompeii and Herculaneum Equidae Buried by Vesuvius in 79 A.D." *Journal of Cellular Physiology* 199:200–5.

Evison, M.P. 2001. "Ancient DNA in Greece: Problems and Prospects." *Journal of Radioanalytical and Nuclear Chemistry* 247(3):673–78.

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Lucotte, G., N. Yanakakis, and F. Diéterlen. 2006. "Y-Chromosome Haplotypes in the Greek-Turkish Area." *International Journal of Anthropology* 21(2):123–29.

Mays, S., and M. Faerman. 2001. "Sex Identification in Some Putative Infanticide Victims from Roman Britain Using Ancient DNA." *JAS* 28:555–59.

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