

12. REFERENCES

- Abdelgadir, W S, Ahmed, T K & Dirar, H A 1998 'The traditional fermented milk products of the Sudan', *International Journal of Food Microbiology* 44(1–2): 1–13. [https://doi.org/10.1016/S0168-1605\(98\)00090-7](https://doi.org/10.1016/S0168-1605(98)00090-7)
- Ballin, T B 1999 'Bipolar cores in Southern Norway: Classification, chronology and geography', *Lithics* 20: 13–22.
- Ballin, T B 2000 'Classification and description of lithic artefacts: A discussion of the basic lithic terminology', *Lithics* 21: 9–15.
- Ballin, T B 2009 'The lithic assemblage from the Kingfisher Industrial Estate, Aberdeen City', unpublished report commissioned by the Aberdeen City Council Archaeological Unit.
- Ballin, T B 2012 'The lithic assemblage', in Johnson, M 'An early Bronze Age unenclosed cremation cemetery and Mesolithic pit at Skilmafilly, near Maud, Aberdeenshire', *Scottish Archaeological Internet Reports* 53. <https://doi.org/10.9750/issn.1773-3808.2012.53>
- Ballin, T B forthcoming 'Neolithic and Bronze Age lithic industries from eastern Scotland: a comparative study', *Tayside and Fife Archaeological Journal*.
- Barber, J (ed.) 1997 *The Archaeological Investigation of a Prehistoric Landscape: Excavations on Arran 1978–81*. Edinburgh: STAR Monograph 2.
- Berry, R C & Berry, R J 1967 'Epigenetic Variation in the Human Cranium', *Journal of Anatomy* 101: 361–79.
- Birck, J L 1986 'Precision K-Rb-Sr Isotopic Analysis: Application to Rb-Sr Chronology', *Chemical Geology* 56(1–2): 73–83. [https://doi.org/10.1016/0009-2541\(86\)90111-7](https://doi.org/10.1016/0009-2541(86)90111-7)
- Boast, R 1995 'Fine pots, pure pots, Beaker pots', in Kinnes, I & Varndell, G (eds) *'Unbaked Urns of Rudely Shape': Essays on British and Irish Pottery for Ian Longworth*, 69–80. Oxford: Oxbow Monograph 55.
- Bradley, R 2005 *The Moon and the Bonfire*. Edinburgh: Society of Antiquaries of Scotland.
- Brickley, M & McKinley, J (eds) 2004 *Guidelines to the Standards for Recording Human Remains*. Southampton: IFA Technical Paper No. 7, BABAO.
- Brickley, M, Miles, A & Stainer, H 1999 *The Cross Bones Burial Ground, Redcross Way, Southwark, London: Archaeological excavations (1991–1998) for the London Underground Limited Jubilee Line Extension Project*. London: Museum of London Archaeology Service Monograph 3.
- Brindley, A 1999 'Irish Grooved Ware', in Cleal, R & MacSween, A (eds) *Grooved Ware in Britain and Ireland*, 23–35. Oxford: Oxbow Books.
- British Geological Survey, [nd] *Geology of Britain Viewer*. <http://mapapps.bgs.ac.uk/geologyofbritain/home.html>. Accessed February 2019.
- Bronk Ramsey, C 2017 'Methods for Summarizing Radiocarbon Datasets', *Radiocarbon* 59(2): 1809–33. <https://doi.org/10.1017/RDC.2017.108>
- Brothwell, D R 1981 *Digging up Bones*. Oxford: Oxford University Press.
- Brown, G C, Ixer, R A, Plant, J A & Webb, P C 1988 'Geochemistry of Granites beneath the North Pennines and Their Role in Orefield Mineralization – Reply', *Transactions of the Institution of Mining and Metallurgy Section B – Applied Earth Science* 97: B47–B49.
- Brück, J 2004 'Material metaphors: The relational construction of identity in Early Bronze Age burials in Ireland and Britain', *Journal of Social Archaeology* 4(3): 307–33. <https://doi.org/10.1177%2F1469605304046417>
- Buikstra, J E & Ubelaker, D H (eds) 1994 *Standards for Data Collection from Human Skeletal Remains*. Arkansas: Arkansas Archaeological Survey Research Series No. 44.
- Case, H 2001 'The Beaker culture in Britain and Ireland: groups, European contacts and chronology', in Nicolis, F (ed.) *Bell Beakers Today: Pottery, People, Culture, Symbols in Prehistoric Europe*, 361–77. Trento: Officio Beni Archeologici.
- Charters, S, Evershed, R P, Goad, L J, Leyden, A, Blinkhorn, P W & Denham, V 1993 'Quantification and distribution of lipid in archaeological ceramics: implications for sampling potsherds for organic residue analysis and the classification of vessel use', *Archaeometry* 35: 211–23. <https://doi.org/10.1111/j.1475-4754.1993.tb01036.x>
- Charters, S, Evershed, R P, Quye, A, Blinkhorn, P W & Reeves, V 1997 'Simulation experiments for determining the use of ancient pottery

- vessels: the behaviour of epicuticular leaf wax during boiling of a leafy vegetable', *Journal of Archaeological Science* 24: 1–7. <https://doi.org/10.1006/jasc.1995.0091>
- Chenery, C, Müldner, G, Evans, J, Eckardt, H & Lewis, M 2010 'Strontium and stable isotope evidence for diet and mobility in Roman Gloucester, UK', *Journal of Archaeological Science* 37(1): 150–63. <https://doi.org/10.1016/j.jas.2009.09.025>
- Childe, V G 1944 'Two cist burials at Kirkcaldy and their contents', *Proc Soc Antiq Scot* 78: 109–14.
- Clarke, C M & Hamilton, J E 1999 'Excavation of a cist burial on Doons Law, Leetside Farm, Whitsome, Berwickshire, Borders Region', *Proc Soc Antiq Scot* 129: 189–201.
- Clarke, D L 1970 *Beaker Pottery in Great Britain and Ireland*, 2 vols. Cambridge: Cambridge University Press.
- Clarke, D V, Cowie, T & Foxon, A 1985 *Symbols of Power at the Time of Stonehenge*. Edinburgh: HMSO and National Museum of Antiquities of Scotland.
- Copley, M S, Evershed, R P, Rose, P J, Clapham, A, Edwards, D N & Horton, M C 2001 'Processing palm fruits in the Nile Valley: biomolecular evidence from Qasr Ibrim', *Antiquity* 75: 538–42. <https://doi.org/10.1017/S0003598X00088761>
- Copley, M S, Berstan, R, Dudd, S N, Docherty, G, Mukherjee, A J, Straker, V, Payne, S & Evershed, R P 2003 'Direct chemical evidence for widespread dairying in prehistoric Britain', *Proceedings of the National Academy of Sciences* 100(4): 1524–9. <https://doi.org/10.1073/pnas.0335955100>
- Copley, M S, Bland, H A, Rose, P, Horton, M & Evershed, R P 2005a 'Gas chromatographic, mass spectrometric and stable carbon isotopic investigations of organic residues of plant oils and animal fats employed as illuminants in archaeological lamps from Egypt', *Analyst* 130: 860–71. <https://doi.org/10.1039/B500403A>
- Copley, M S, Berstan, R, Dudd, S N, Aillaud, S, Mukherjee, A J, Straker, V, Payne, S & Evershed, R P 2005b 'Processing of milk products in pottery vessels through British prehistory', *Antiquity* 79: 895–908. <https://doi.org/10.1017/S0003598X00115029>
- Coutts, H 1971 *Tayside Before History: A Guide-Catalogue Collection of Antiquities in Dundee Museum*. Dundee: Dundee Museum and Art Gallery.
- Curtis, N & Wilkin, N 2012 'The regionality of Beakers and bodies in the Chalcolithic of North-East Scotland', in Allen, M J, Gardiner, J, & Sheridan, A (eds) *Is there a British Chalcolithic? People, Place and Polity in the Later 3rd Millennium*, Prehistoric Society Research Paper 4, 237–56. Oxford: Oxbow Books and the Prehistoric Society.
- Curtis, N & Wilkin, N 2019 'Beakers and bodies in north-east Scotland: a regional and contextual study', in Parker Pearson, M, Sheridan, A, Jay, M, Chamberlain, A, Richards, M & Evans, J (eds) *The Beaker People: Isotopes, Mobility and Diet in Prehistoric Britain*, 213–54. Oxford: Oxbow Books and the Prehistoric Society.
- Curtis, N, Wilkin, N, Hutchison, M, Jay, M, Sheridan, A & Wright, M 2008 'Radiocarbon dating results from the Beakers and Bodies Project', *Discovery and Excavation in Scotland* 8: 223–4.
- Curtis, N, Popovic, L, Wilkin, N & Wright, M 2010 'The Moon, the Bonfire and the Beaker? Analysing white inlay from Beaker pottery in Aberdeenshire', *PAST: The Newsletter of the Prehistoric Society* 65: 1–3. <http://www.prehistoricsociety.org/files/past065.pdf>. Accessed 14 August 2018.
- Darling, W C, Bath, A H & Talbot, J C 2003 'The O and H stable isotopic composition of fresh waters in the British Isles: 2, Surface waters and groundwater', *Hydrology and Earth System Sciences* 7(2): 183–95. <https://doi.org/10.5194/hess-7-183-2003>
- Daux, V, Lécuyer, C, Héran, M A, Amiot, R, Simon, F, Fourel, F, Martineau, F, Lynnerup, N, Reyher, H & Escarguel, G 2008 'Oxygen isotope fractionation between human phosphate and water revisited', *Journal of Human Evolution* 55(6): 1138–47. <https://doi.org/10.1016/j.jhevol.2008.06.006>
- Dudd, S N & Evershed, R P 1998 'Direct demonstration of milk as an element of archaeological economies', *Science* 282: 1478–81. <https://doi.org/10.1126/science.282.5393.1478>
- Evans, J A, Montgomery, J, Wildman, G & Boulton, N 2010 'Spatial variations in

- biosphere 87Sr/86Sr in Britain', *Journal of the Geological Society* 167(1): 1–4. <http://dx.doi.org/10.1144/0016-76492009-090>
- Evershed, R P 2008a 'Experimental approaches to the interpretation of absorbed organic residues in archaeological ceramics', *World Archaeology* 40: 26–47. <https://doi.org/10.1080/00438240801889373>
- Evershed, R P 2008b 'Organic residue analysis in archaeology: the archaeological biomarker revolution', *Archaeometry* 50: 895–924. <https://doi.org/10.1111/j.1475-4754.2008.00446.x>
- Evershed, R P, Heron, C & Goad, L J 1990 'Analysis of organic residues of archaeological origin by high-temperature gas chromatography and gas chromatography mass-spectrometry', *Analyst* 115: 1339–42. <https://doi.org/10.1039/A99901501339>
- Evershed, R P, Heron, C & Goad, L J 1991 'Epicuticular wax components preserved in potsherds as chemical indicators of leafy vegetables in ancient diets', *Antiquity* 65: 540–4. <https://doi.org/10.1017/S0003598X00080145.x>
- Evershed, R P, Heron, C, Charters, S & Goad, L J 1992 in Pollard, A M (ed.), *New Developments in Archaeological Science*, 187–208. Oxford: Oxford University Press.
- Evershed, R P, Arnot, K I, Collister, J, Eglinton, G & Charters, S 1994 'Application of isotope ratio monitoring gas chromatography–mass spectrometry to the analysis of organic residues of archaeological origin', *Analyst* 119: 909–14. <https://doi.org/10.1039/AN9941900909>
- Evershed, R P, Mottram, H R, Dudd, S N, Charters, S, Stott, A W, Lawrence, G J, Gibson, A M, Conner, A, Blinkhorn, P W & Reeves, V 1997a 'New criteria for the identification of animal fats preserved in archaeological pottery', *Naturwissenschaften* 84: 402–6. <https://doi.org/10.1007/s001140050417>
- Evershed, R P, Vaughan, S J, Dudd, S N & Soles, J S 1997b 'Fuel for thought? Beeswax in lamps and conical cups from Late Minoan Crete', *Antiquity* 71: 979–85. <https://doi.org/10.1017/S0003598X00085860>
- Evershed, R P, Dudd, S N, Charters, S, Mottram, H, Stott, A W, Raven, A, van Bergen, P F & Bland, H A 1999 'Lipids as carriers of anthropogenic signals from prehistory', *Philosophical Transactions of the Royal Society of London Series B – Biological Sciences* 354: 19–31. <https://doi.org/10.1098/rstb.1999.0357>
- Evershed, R P, Dudd, S N, Copley, M S, Berstan, R, Stott, A W, Mottram, H, Buckley, S A & Crossman, Z 2002 'Chemistry of archaeological animal fats', *Accounts of Chemical Research* 35: 660–8. <https://doi.org/10.1021/ar000200f>
- Fenton, A 1978 *Northern Isles: Orkney and Shetland*. Edinburgh: John Donald.
- Finlayson, B 2000 'Wear analysis of the lithics', in Hunter 2000: 149–50.
- Garwood, P 1999 'Grooved Ware in Southern Britain: Chronology and interpretation', in Cleal, R & MacSween, A (eds) *Grooved Ware in Britain and Ireland*, 145–76. Oxford: Oxbow Books.
- Gibson, A 1982 *Beaker Domestic Sites*. Oxford: British Archaeological Reports, British Series, 107, 2 vols.
- Gibson, A 2006 'The Pottery', in Simpson, D D A, Murphy, E M & Gregory, R A (eds), *Excavations at Northton, Isle of Harris*, 90–133. Oxford: British Archaeological Reports, British Series, 408.
- Guerra-Doce, E 2006 'Exploring the significance of Beaker pottery through residue analyses', *Oxford Journal of Archaeology* 25(3): 247–59. <https://doi.org/10.1111/j.1468-0092.2006.00260.x>
- Henshall, A S & McInnes, I J 1968 'A Beaker grave at Springwood, Kelso, Roxburghshire', *Proc Soc Antiq Scot* 100: 79–85.
- Hillson, S 1996 *Dental Anthropology*. Cambridge: Cambridge University Press.
- Hunter, F 2000 'An Early Bronze Age cemetery at West Water Reservoir, West Linton, Scottish Borders', *Proc Soc Antiq Scot* 130: 115–82.
- Hunter, J & Woodward, A (eds) 2015 *Ritual in Early Bronze Age Grave Goods: An Examination of Ritual and Dress Equipment from Chalcolithic and Early Bronze Age Graves in England*. Oxford: Oxbow Books.
- Jay, M & Richards, M P 2006 'Diet in the Iron Age cemetery population at Wetwang Slack, East Yorkshire, UK: carbon and nitrogen stable isotope evidence', *Journal of Archaeological Science* 33(5): 653–62. <https://doi.org/10.1016/j.jas.2005.09.020>
- Jobey, G 1968 'Excavations of Cairns at Chatton

- Sandyford, Northumberland', *Archaeologia Aelina* 4th series, 46: 5–50.
- Kinnes, I A & Longworth, I H 1985 *Catalogue of the Excavated Prehistoric and Romano-British Material in the Greenwell Collection*. London: British Museum Publications.
- Krouse, H R & Herbert, M K 1988 'Sulphur and carbon isotope studies of food webs', in Kennedy, B V & LeMoine, G M (eds) *Diet and Subsistence: Current Archaeological Perspectives*, 315–22. Calgary: University of Calgary Archaeological Association.
- Lanting, J N & Van der Waals, J D 1972 'British beakers as seen from the Continent: a review article', *Helenium* 12: 20–46.
- MacGregor, G & Stuart, E 2008 'Everything in its place: excavations at Eweford West, Overhailles, Pencraig Wood and Eweford Cottages (3300–1700 BC)', in Lelong, O & MacGregor, G (eds) *The Lands of Ancient Lothian: Interpreting the Archaeology of the A1*, 69–98. Edinburgh: Society of Antiquaries of Scotland.
- Manby 1999 'Grooved Ware sites in Yorkshire and Northern England: 1974–1994', in Cleal, R & MacSween, A (eds) *Grooved Ware in Britain and Ireland*, 57–75. Oxford: Oxbow Books.
- Montgomery, J, Evans, J A & Neighbour, T 2003 'Sr isotope evidence for population movement within the Hebridean Norse community of NW Scotland', *Journal of the Geological Society* 160: 649–53. <https://doi.org/10.1144/0016-764903-037>
- Murray, H K, Murray, C & Fraser, S M 2009 *A Tale of the Unknown Unknowns: A Mesolithic Pit Alignment and a Neolithic Timber Hall at Warren Field, Crathes, Aberdeenshire*. Oxford: Oxbow Books.
- Needham, S 2005 'Transforming Beaker culture in North-West Europe: processes of fusion and fission', *Proceedings of the Prehistoric Society* 71: 171–217. <https://doi.org/10.1017/S0079497X00001006>
- Needham, S 2007 'Isotope aliens: Beaker movement and cultural transmissions', in Larsson, M & Parker Pearson, M (eds) *From Stonehenge to the Baltic: Living with Cultural Diversity in the Third Millennium BC*, 41–6. Oxford: British Archaeological Reports, International Series, 1692: 41–6.
- Olalde, I, Brace, S, Allentoft, M E, Armit, I, Kristiansen, K, Booth, T, Rohland, N, et al 2018 'The Beaker phenomenon and the genomic transformation of Northwest Europe', *Nature* 555: 190–6. <https://doi.org/10.1038/nature25738>
- O'Neil, J R, Roe, L J, Reinhard, L & Blake, R E 1994 'A rapid and precise method of oxygen isotope analysis of biogenic phosphate', *Israel Journal of Earth Science* 43: 203–12.
- Palmer, C 2002 'Milk and cereals: identifying food and food identity among Fallāhīn and Bedouin in Jordan', *Levant* 34: 173–95. <https://doi.org/10.1179/lev.2002.34.1.173>
- Parker Pearson, M P, Cleal, R, Marshall, P, Needham, S, Pollard, J, Richards, C & Ruggles, C 2007 'The age of Stonehenge', *Antiquity* 81(313): 617–39. <https://doi.org/10.1017/S0003598X00095624>
- Parker Pearson, M, Chamberlain, A, Jay, M, Richards, M, Sheridan, A, Curtis, N, Evans, et al 2016 'Beaker people in Britain: migration, mobility and diet', *Antiquity* 90: 620–37. <https://doi.org/10.15184/aqy.2016.72>
- Prehistoric Ceramics Research Group 1997 *The Study of Later Prehistoric Pottery: General Policies and Guidelines for Analysis and Publication*. Salisbury: Prehistoric Ceramics Research Group.
- Privat, K L, O'Connell, T C & Hedges, R E M 2007 'The distinction between freshwater- and terrestrial-based diets: methodological concerns and archaeological applications of sulphur stable isotope analysis', *Journal of Archaeological Science* 34: 1197–204. <https://doi.org/10.1016/j.jas.2006.10.008>
- Ralston, I B M 1982 'A timber hall at Balbridie Farm: the Neolithic Settlement of North East Scotland', *Aberdeen University Review* 168: 239–49.
- Ralston, I B M 1996 'Four short cists from north-east Scotland and Easter Ross', *Proc Soc Antiq Scot* 126: 121–55.
- Reimer, P J, Bard, E, Bayliss, A, Beck, J W, Blackwell, P G, Bronk Ramsey, C, Grootes, P M et al, 2013 'IntCal13 and Marine13 Radiocarbon Age Calibration Curves 0–50,000 Years cal BP', *Radiocarbon* 55(4): 1869–87. https://doi.org/10.2458/azu_js_rc.55.16947
- Rice, P M 1987 *Pottery Analysis: A Sourcebook*. Chicago: University of Chicago Press.
- Richards, M P, Fuller, B T & Hedges, R E M 2001

- 'Sulphur isotopic variation in ancient bone collagen from Europe: implications for human palaeodiet, residence mobility, and modern pollutant studies', *Earth and Planetary Science Letters* 191: 185–90. [https://doi.org/10.1016/S0012-821X\(01\)00427-7](https://doi.org/10.1016/S0012-821X(01)00427-7)
- Richards, M P, Fuller, B T, Sponheimer, M, Robinson, T & Ayliffe, L 2003 'Sulphur isotopes in palaeodietary studies: a review and results from a controlled feeding experiment', *International Journal of Osteoarchaeology* 13: 37–45. <https://doi.org/10.1002/oa.654>
- Richards, M P, Fuller, B T & Molleson, T I 2006 'Stable isotope palaeodietary study of humans and fauna from the multi-period (Iron Age, Viking and Late Medieval) site of Newark Bay, Orkney', *Journal of Archaeological Science* 33(1): 122–31. <https://doi.org/10.1016/j.jas.2005.07.003>
- Rajo-Guerra, M Á, Garrido-Pena, R, Martínez-de-Lagrán, Í G, Treserras, J J & Matamala, J C 2006 'Beer and Bell Beakers: Drinking rituals in Copper Age inner Iberia', *Proceedings of the Prehistoric Society* 72: 243–65. <https://doi.org/10.1017/S0079497X00000840>
- Shepherd, A N 2012 'Stepping out together: men, women and their Beakers in time and space', in Allen, M J, Gardiner, J & Sheridan, A (eds) *Is there a British Chalcolithic? People, Place and Polity in the Later 3rd Millennium*, Prehistoric Society Research Paper 4, 257–80; CD97–107. Oxford: Oxbow Books and the Prehistoric Society.
- Shepherd, I A G 1986 *Powerful Pots: Beakers in North-East Prehistory*. Aberdeen: Anthropological Museum, University of Aberdeen.
- Sheridan, J A 1999 'Copper awl', in Clarke, C M & Hamilton, J E 'Excavation of a cist burial on Doons Law, Leetside Farm, Whitsome, Berwickshire, Borders Region', *Proc Soc Antiq Scot* 129: 189–201 (197–8).
- Sheridan, A, Parker Pearson, M, Jay, M, Richards, M & Curtis, M 2006 'Radiocarbon dating results from the *Beaker People Project: Scottish samples*', *Discovery and Excavation in Scotland*, new series, 7: 198–201.
- Sherratt, A 1987 'Cups That Cheered', in Waldren, W H & Kennard, R C (eds) *Bell Beakers of the Western Mediterranean: Definition, Interpretation, Theory and New Site Data*, 81–114. Oxford: Archaeopress.
- Šoberl, L 2011 'Pots for the Afterlife: Organic Residue Analysis of British Early Bronze Age Pottery from Funerary Contexts', unpublished PhD thesis, University of Bristol.
- Tans, P P, de Jong, A F M & Mook, W G 1979 'Natural atmospheric ¹⁴C variation and the Suess effect', *Nature* 80: 826–8.
- Thomas, N 1968 'Appendix 1: note on the Carricknab awl', in Collins, A E P & Evans, E E 'A cist burial at Carricknab, Co. Down', *Ulster Journal of Archaeology* 31: 16–24.
- Tuckwell, A 1975 'Patterns of burial orientation in round barrows of East Yorkshire', *Bulletin of the Institute of Archaeology* 12: 95–117.
- White, D J 1997 'Dental calculus: recent insights into occurrence, formation, prevention, removal and oral health effects of supragingival and subgingival deposits', *European Journal of Oral Sciences* 105: 508–22. <https://doi.org/10.1111/j.1600-0722.1997.tb00238.x>
- Wilkin, N 2010 'Beakers and Bodies Project: Death and burial in Early Bronze Age Aberdeenshire', Presentation given to Society of Antiquaries of Scotland, recorded on 11 October 2010 in the Royal Society of Edinburgh. www.socantscot.org/resource/beakers-and-bodies-project-by-dr-neil-wilkin-university-of-aberdeen/. Accessed February 2019.