

A SUMMARY ROUND-UP LIST OF SCOTTISH ARCHAEOLOGICAL HUMAN REMAINS THAT HAVE BEEN SAMPLED/ANALYSED FOR DNA AS OF JANUARY 2019

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During the 2015 Society of Antiquaries of Scotland series of Rhind lectures on *‘British archaeology: its progress and demands’*, a panel discussion on archaeology and genetics concluded that the time was ripe to apply the powerful technique of DNA analysis to Scottish archaeological human remains, given that there had been a step-change in the development of the method which meant that problems such as contamination and prohibitive cost have largely been overcome. Since then, this approach has been applied to some 267 individuals from Scotland’s past (with whole genome data being determined in most cases); and publication of some of the results, within the context of broader DNA research initiatives (Brace *et al* 2018; Olalde *et al* 2018), has generated lively discussion about their interpretation².

Much of this recent DNA analysis has been undertaken under the aegis of two major projects: firstly Professors Ian Armit’s and David Reich’s *GENSCOT* project (and its successor, the Britain-wide *GENLAB* project), which initially set out to establish baseline DNA data for Scottish remains over as wide a period of prehistory and early history as possible (*GENSCOT*) before expanding its geographical scope, and focusing on remains principally from the first millennium AD, (*GENLAB*), and secondly, Professors Ian Barnes’ and Mark Thomas’ Wellcome Trust-funded project, *‘Human Adaptation to Changing Diet and Infectious Disease Loads, from the Origins of Agriculture to Present’*, the Mesolithic and Neolithic results of which have been published in Brace *et al* (2018). There have been various other DNA initiatives as well, including the following:

- A study by the University of Copenhagen’s GeoGenetics team (led by Professor Eske Willerslev, working with Dr Morten Allentoft and with Professor Kristian Kristiansen of the University of Gothenburg), which analysed human remains from the Banks Neolithic chamber tomb in Orkney as part of a broader study of ancient human genomics;
- a study of early historic and Viking/Norse period human remains in Orkney by University of Copenhagen GeoGenetics researcher Dr Ashot Margaryan for his 2017 PhD on *‘Population Genomics of Vikings’*;
- a study of the set of early medieval individuals found in the Roman bath house latrine at Cramond (undertaken for John Lawson as part of the Wellcome Trust project);
- analysis by Dr Linus Girdland Flink (with radiocarbon dating by Sahra Talamo) of several individuals from eastern Scotland for Dr Gordon Noble’s *Northern Picts* project and Dr Kate Britton’s *Dark Ages Diet* projects, plus analysis by Dr Linus Girdland Flink of Neolithic individuals from chamber tombs at Midhowe, Rowiegar and the Knowes Laird and Yarso, Rousay, for a 2019 publication, *‘Megalithic tombs in western and northern Europe were linked to a kindred society’* (<https://www.pnas.org/content/pnas/early/2019/04/09/1818037116.full.pdf>). The DNA analysis for these projects has been carried out in the DNA laboratory of the Department of Archaeology and Classical Studies, Stockholm University;
- analysis of a suspected Early Bronze Age leprosy victim from Dryburn Bridge, and comparison with a known medieval leprosy victim from Kirkhill cemetery, St Andrews, by Professor Stewart Cole (Pasteur Institute, Paris);
- analysis of a probable Early Bronze Age individual from a double interment in a cist at Isbister, Rendall, Orkney by Professor Alan Cooper (University of Adelaide), as part of a study of population health and diet;
- analysis, by Professor David Reich’s team at Harvard Medical School on behalf of National Museums Scotland, of pairs of individuals found in Chalcolithic and Early Bronze Age cists, to investigate whether the individuals had been related genetically; and
- analysis of Neolithic, Bronze Age, Iron Age and early medieval individuals (including ‘Rosemarkie Man’) by Katharina Dulias and Dr Ceiridwen J Edwards of the Archaeogenetics Group at the University of Huddersfield, as part of KD’s 2019 PhD thesis, *‘Archaeogenetics and Palaeogenetics of the British Isles’*.

Many of the results are yet to be published, but given the number of individuals and organisations who approach museums and excavators seeking to obtain samples, it was felt that it would be useful to attempt a summary round-up of all the individuals in Scotland, known to the authors, who have been sampled or analysed to date. This serves to lay the foundations for a proposed initiative by Dr Lisa Brown, of Historic Environment Scotland, to establish an online, updatable, open-access database of such information, with hotlinks to the DNA results as they become available. This initiative will deliver against

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² Note that an attempt had previously been made, in 1996, to obtain DNA from three Neolithic individuals from Holm of Papa Westray North and from some Neolithic individuals from Isbister chamber tomb, both Orkney, by Kevin Miller for his PhD research at Cambridge University, but this failed, or at least yielded only fungal DNA. These are excluded from the list below. Also excluded is the analysis that is currently underway on the remains of a headless body from the Wardlaw Mausoleum at Kirkhill near Inverness. This body was initially thought to be the remains of Simon Fraser, 11th Lord Lovat—the man whose demeanour at his execution reportedly gave rise to the phrase ‘laughed his head off’—but it was subsequently discovered, through osteological examination by Dame Professor Sue Black, to be that of a young woman (<https://www.telegraph.co.uk/news/2018/01/18/forensic-investigation-reveals-headless-highland-body-young/>, accessed 2019).

Scotland's Archaeology Strategy, as well as addressing one of Scotland's pressing research needs as flagged up in the Scottish Archaeological Research Framework document (e.g. <https://scottishheritagehub.com/content/23-dna>). The benefits of this information-sharing exercise are obvious: the several Regional Research Frameworks that are currently being created in Scotland will benefit from this collation of disparate data; museum curators and others caring for human remains can avoid unnecessary duplication of the (albeit minimally-) destructive sampling that is entailed; researchers can see the geographical and chronological spread of studied individuals, and new collaborations may be sparked as a result; and the community at large, which currently appears to have an insatiable appetite for genetic information, can marvel at the large number of ancient people in Scotland whose remains have been subjected to DNA analysis in the recent past.

The tables below present the listing by broad chronological period, summarising the information as follows:

- **findspot** (with Canmore ID number);
- the **museum/institution (or, in the case of material not already in a permanent institution, the excavator), with identifier** (ie registration no, context, small find no, skeleton no, etc);
- the **project/laboratory/DNA researcher and any additional identifier** (eg project sample no);
- the **laboratory sample ID number**;
- the **status** of the sample (namely 1 = analysed and published; 2 = analysed, not yet published; 3 = sampled, not yet analysed; 4 = analysed but failed to produce DNA result, or produced low DNA coverage (which can include information on genetic sex). There is also a category of 'Q' (for 'QUESTIONABLE'), used by the Harvard Medical School laboratory to flag up where some of the internal quality control metrics are acceptable but not excellent; the results may still be acceptable;
- the **body part** that has been analysed (with the petrous temporal being the preferred sampling area, as it is here, along with tooth roots: these are the locations where DNA has the best chance of surviving);
- the **age and sex** of the individual, with italics being used where the latter has not been determined through DNA analysis. (Note that in a few cases, age estimations have not been provided);
- the **radiocarbon date** of the individual with the 95.4% probability/confidence calibrated date ranges mostly not being rounded out. (Note that 'adj' records where a marine offset has been allowed for in the calibration, and italics are used to indicate where a date has been Bayesian-modelled); and
- the **publication** (if any) where the DNA results are published.

Keys to the abbreviations used in the various columns are provided at the end of the list.

Further details of many of the radiocarbon dates cited here can be found in Armit *et al*'s *GENSCOT* datelist in *DES* 17 and in the supplementary *GENSCOT* datelist in *DES* 18 (Sheridan *et al* 2017), and bibliographic references to the findspots can be found in each site's Canmore entry. Every effort has been made to achieve consistency in the descriptions, but in some cases it has not been possible to double-check the ages at death of the individuals, so some of the entries simply reflect the information as provided to the first-named author. Similarly, it was not possible to find out the $\delta^{13}\text{C}$ value associated with some of the dates and there may be one or two dates, in addition to the ones flagged up below, that require recalibration to allow for a slight marine offset. Regarding the ordering of the entries, within each period they are grouped geographically, from north to south, with runs of entries for a particular project (eg *GENSCOT*) being presented by project number within those geographical groupings. The numerical dominance of sampled/analysed individuals found in Orkney is notable: they constitute over 40% of all the individuals listed.

While this cannot claim to be an exhaustive listing, its comprehensiveness is a testament to the collaborative spirit in which this information has been shared by diverse researchers. It is anticipated that any gaps that may exist will be filled by the proposed HES initiative, and it is hoped that this round-up list will encourage anyone with knowledge of samples that are not on this list to come forward with the relevant information, forwarding it to the corresponding author (a.sheridan@nms.ac.uk) and to Dr Lisa Brown (lisa.brown@hes.scot).

The list is so large that it cannot be accommodated within the hard-copy version of *Discovery and Excavation in Scotland* (Volume 19, 2018), but it is included as supplementary *DES* resource, within the digital (pdf) version, accessible at <https://archaeologyscotland.org.uk/join-us/discovery-and-excavation-scotland/>. The digital version also includes the Acknowledgements and Bibliography.

MESOLITHIC AND NEOLITHIC

Findspot, (Canmore ID)	Museum and Reg No (or excavator, where not yet in a museum); other identifier	Project/DNA researcher or laboratory and other identifier	DNA sample ID	Status	Analysed bone	Age, sex	Date (Lab No, age BP, cal BC at 95.4% probability)	Publication
MESOLITHIC (all from western Scotland)								
Cnoc Coig, Oronsay (37818)	NMS X.unreg CC18143, Bone Group 4, location 4, SW area of site	Wellcome CnocCoig_1	SB514B2/ I3065 SB514B3/ I6763	1	PT, R	Ad, F	SUERC-69249 5492±36	1
Cnoc Coig, Oronsay (37818)	NMS X.unreg Trench UIII, No 8256, Lot No 9334, SB 426	Wellcome		4	Rad, R	Ind, Ind	Not dated	Charlton <i>et al</i> 2016, S1
Cnoc Coig, Oronsay (37818)	NMS X.unreg Trench UIII, No 8257, Lot No 9332	Charlton <i>et al</i> (Wellcome, Reich)	OCC8257/ I0514	4	Skull?	Ind, Ind	OxA-29939 5391±30 3991–3702 (adj) (Charlton <i>et al</i> 2016)	Charlton <i>et al</i> 2016
Cnoc Coig, Oronsay (37818)	NMS X.unreg Trench UIII, No 8258, Lot No 9336, SB429	Wellcome		3	Skull	Ind, Ind	Not dated	U
Note: This sample was not put forward for analysis when it became clear that Nos. 8256 and 8258 had failed to yield DNA, and it was unlikely to succeed; but it may still be analysed in the future, to obtain information on bacterial DNA								
Cnoc Coig, Oronsay (37818)	NMS X.unreg Trench UIII, No 8267, Lot No 9339	Charlton <i>et al</i> (Wellcome, Reich)	OCC8267/ I0515	4	Unid	Ind, Ind	OxA-29938 5379±29 3944–3649 (adj) (Charlton <i>et al</i> 2016)	Charlton <i>et al</i> 2016
NEOLITHIC: Orkney								
Point of Cott, Orkney (2756)	OM Box66/BO/14, Comp 3, 3/352	GENSCOT79	I2796	1	M	Ind, M	SUERC-69074 4856±33 3700–3380 (adj)	2;1
Point of Cott, Orkney (2756)	OM 'Parent' sample 13013; Comp 1 F54, cleaning for drawing 62	GENSCOT78	I2980	1	PT	Juv, F	SUERC-69073 4530±33 3361–3012	2
Holm of Papa Westray North, Orkney (3243)	NMS X.unreg N 1982, Tr 1, Comp2[W]2	GENSCOT08	I2636	1	PT, R	Ad, F	SUERC-68640 4651±33 3512–3344 (adj) (Bownes 2018, table 6.20)	2;1
Holm of Papa Westray North, Orkney (3243)	NMS X.unreg N 1982, Tr 1 Comp2(W)2	GENSCOT09	I2637	1	PT, R	Ad, M	SUERC-68641 4697±33 3514–3360 (adj) (Bownes 2018, table 6.20)	2;1
Holm of Papa Westray North, Orkney (3243)	NMS X.unreg Comp 3E3 sample 1, box 4 of 8	GENSCOT10	I2650	1	PT, L	Ad, M	SUERC-68642 4754±36 3627–3369 (adj) (Bownes 2018, table 6.20)	2; 1
Holm of Papa Westray North, Orkney (3243)	NMS X.unreg Comp 3E3 sample 2, box 4 of 8	GENSCOT11	I2651	1	PT, L	Ad, F	SUERC-68643 4525±36 3340–3029 (adj) (Bownes 2018, table 6.20)	2; 1
Unstan, Orkney (1740)	NMS X.unreg, sample 1	Reich	I7554	1	PT	Ad, M	SUERC-73433 4541±32 3366–3103	2

RADIOCARBON DATES

NEOLITHIC continued

Midhowe, Rousay, Orkney (2274)	University of Aberdeen Museums ABDUA: 25898 Sk 3	Flink Mid 002	DNA 007	2	Skull	Adol/ad, M	SUERC-46400 4700±30 3415–3365 (Hutchison <i>et al</i> 2015, 84)	U
Midhowe, Rousay, Orkney (2274)	University of Aberdeen Museums ABDUA: 25899 Sk 5	Flink Mid 001	DNA 006	2	Skull	Ad, M	SUERC-46401 4531±28 3370–3320 (Hutchison <i>et al</i> 2015, 84)	U
Knowe of Lairò, Rousay, Orkney (2203)	University of Aberdeen Museums ABDUA: 14761	Flink LAI001	DNA 014	2	Skull	Ad, M	SUERC-45833 4537±34 3360–3265 (Hutchison <i>et al</i> 2015, 84)	U
Knowe of Yarso, Rousay, Orkney (2623)	University of Aberdeen Museums ABDUA: 14662	Flink YAR001	DNA 013	2	Skull	Ad, M (DNA sex inconclusive)	SUERC-45838 4500±35 3345–3220 (Hutchison <i>et al</i> 2015, 84)	U
Rowiegar, Rousay, Orkney (2159)	University of Aberdeen Museums ABDUA: 90029 Humerus CC	Flink ROW001	DNA 008	2	Hum	Ad, M (DNA sex inconclusive)	SUERC-39632 4355±35 2985–2905 (Hutchison <i>et al</i> 2015, 83)	U
Rowiegar, Rousay, Orkney (2159)	University of Aberdeen Museums ABDUA: 90076 Humerus HH2	Flink ROW002	DNA 009	2	Hum	Ad, F?	SUERC-39638 4470±35 3125–3040 (Hutchison <i>et al</i> 2015, 83)	U
Rowiegar, Rousay, Orkney (2159)	University of Aberdeen Museums ABDUA: 15084 Humerus EE	Flink ROW003	DNA 010	2	Hum	Ad, F?	SUERC-39636 4540±35 3335–3260 (Hutchison <i>et al</i> 2015, 83)	U
Rowiegar, Rousay, Orkney (2159)	University of Aberdeen Museums ABDUA: 90047 Humerus AA	Flink ROW004	DNA 011	2	Hum	Ad, [F]	SUERC-39631 4605±35 3385–3355 (Hutchison <i>et al</i> 2015, 83)	U
Rowiegar, Rousay, Orkney (2159)	University of Aberdeen Museums ABDUA: 90075 Humerus HH3	Flink ROW005	DNA 012	2	Hum	Ad, [F]	SUERC-39639 4455±35 3110–3030 (Hutchison <i>et al</i> 2015, 83)	U
Isbister, Orkney (9554)	NMS X.unreg From Ritchie 1958 excavation	GENSCOT01	I2629	1	PT, L	Ad, M	SUERC-68632 3999±32 3180–2780	2; 1
Isbister, Orkney (9554)	NMS X.unreg Bc2 a and b From Ritchie 1958 excavation	GENSCOT02	I2630	1	PT, L	Ad, M	SUERC-68632 3999±32 2581–2464	2; 1
Isbister, Orkney (9554)	OM DL29.2, IS (7455), SC3 Skull 15	GENSCOT70	I2932	1	PT	Ad, M	SUERC-68721 3962±29 2571–2348	2; 1
See key at end of the list for explanation of the 'DL', 'IS' 'SC' etc descriptors used for Isbister in column 2								
Isbister, Orkney (9554)	OM DL28.3, IS (1960), Skull 5	GENSCOT71	I2933	1	PT	Ad, M	SUERC-68722 4309±29 3011–2886	2; 1
Note: there are two 'Skull 5' skulls, but this one corresponds to David Lawrence's description of IS (1960) as the 'heavily fragmented cranium of a young adult male' (Lawrence pers. comm.) even though the bag labelling matches IS (1959), a child's skull. As documented in Lawrence 2012, there was confusion and ambiguity in the labelling of the human remains.								

NEOLITHIC continued

Isbister, Orkney (9554)	OM DL160, IS (7215), found 1958, SC1, ST2, BC5	GENSCOT72	I2934	1	PT	Ad, F	SUERC-69071 4466±33 3330–2910 (adj)	2; 1
Isbister, Orkney (9554)	OM DL699.8, IS (7230), BC11c/10\ north horn fill	GENSCOT73	I2935	1	PT	Prob Ad, M	SUERC-68723 4451±29 3336–3012	2; 1
Isbister, Orkney (9554)	OM DL715.23, IS (7015), found BC4B, outside SC3, 'The Doorkeeper/ Granny'	GENSCOT74	I3085	1	PT, R	Ad, F	SUERC-68724 4471±29 3339–3027 OxA-25624 4507±37 3357–3093	2; 1
Isbister, Orkney (9554)	OM DL248, IS (7285), M25/30, BC6 ST 5, S.41 Skull 4	GENSCOT75	I2977	1	PT	Ad, M	SUERC-69072 4275±33 3009–2764	2
Isbister, Orkney (9554)	OM DL249, IS (7287), S.42, BC6, ST5 Skull 3	GENSCOT76	I2978	1	PT	Ad, M	SUERC-68725 4464±29 3336–3024	2
Isbister, Orkney (9554)	OM DL2122.6, IS (7228), S.53, BC4, ST4 Skull 2	GENSCOT77	I2979	1	PT, R	Ad, M	SUERC-68726 4447±29 3334–2942	2
Quoyness, Orkney (3395)	NMS X.unreg From chamber	GENSCOT03	I2631	1	PT, L	Ad, M	SUERC-68633 4384±36 3016–2869 (adj) Bownes 2018, table 6.25	2; 1
Quoyness, Orkney (3395)	NMS X.unreg From chamber	GENSCOT04	I2632	4	PT, L	Ad, M	Not dated	U
Quanterness, Orkney (2552)	NMS X.unreg, sample 1, from among Q6099-6119, 30.7.71, Area ZB III, Layer 62/73, skull 1408, Box 19, Bag 665	Wellcome	SB530A	3	PT, L	Ad, <i>ind</i>	Not dated	U
Quanterness, Orkney (2552)	NMS X.unreg, sample 2, Q1067, 3.1.80, Area ZF, Layer 5 E1, SF 2532.18, Box 6, Bag 124	Wellcome	SB550A	4	PT, R	Ad, prob M	Not dated	U
Quanterness, Orkney (2552)	NMS X.unreg, sample 3, Q669, 5.1.70, Area ZF, layer 4, SF 4029.02, Box 3, Bag 72	Wellcome	SB554A	3	PT, R	Ad, M	Not dated	U
Quanterness, Orkney (2552)	NMS X.unreg, sample 4, Q1238, 28.7.71, Area ZB II, layer 21, SF 196.01, Box 7, Bag 154	Wellcome	SB552A	3	PT, L	Ad, <i>ind</i>	Another bone from same context dated: SUERC-23993 4490±35 3349–3031	U
Quanterness, Orkney (2552)	NMS X.unreg, sample 5, Q5892, 1.5.70, Area ZD South, layer Unstrat, SF 4099.21, Box 19, Bag 647, a.k.a. box G bag 5	Wellcome	SB556A	3	PT, R	Ad, <i>ind</i>	Not dated	U
Quanterness: for information on the overall dating of human remains from this passage tomb, see Schulting <i>et al</i> 2010								
Banks, Orkney (ORCA excavation) (311263)	ORCA context 258, SF 665	GeoGenetics		2	PT, L	OJ, <i>ind</i>	Not dated	U

RADIOCARBON DATES

NEOLITHIC continued

Banks, Orkney (ORCA excavation) (311263)	ORCA context 255, SF 464	GeoGenetics		2	PT, L	Juv, ind	Not dated	U
Banks, Orkney (ORCA excavation) (311263)	ORCA context 180, SF 25	GeoGenetics		2	PT, R	Ad, F	Not dated	U
Banks, Orkney (ORCA excavation) (311263)	ORCA context 255, SF 431	GeoGenetics		2	PT, L	Ad, ind	Not dated	U
Banks, Orkney (ORCA excavation) (311263)	ORCA context 213, SF136	GeoGenetics		2	PT, L	YJ, ind	Not dated	U
Banks, Orkney (ORCA excavation) (311263)	ORCA context 255, SF426	GeoGenetics		2	PT, L	Juv, ind	Not dated	U
Banks, Orkney (ORCA excavation) (311263)	ORCA context 213, SF 135	GeoGenetics		2	PT, L	Ad, F?	Not dated	U
Banks, Orkney (ORCA excavation) (311263)	ORCA context 258, SF 724	GeoGenetics		2	PT, L	Juv, ind	Not dated	U
Banks, Orkney (ORCA excavation) (311263)	ORCA context 206, SF 91	GeoGenetics		2	PT, L	Ad, prob M	Not dated	U
Banks, Orkney (ORCA excavation) (311263)	ORCA context 248, SF 345	GeoGenetics		2	PT, L	Juv, ind	Not dated	U
Banks, Orkney (ORCA excavation) (311263)	ORCA context 255, SF 412	GeoGenetics		2	P ₁ R	Ad, M	Not dated	U
Banks, Orkney (ORCA excavation) (311263)	ORCA context 255, SF 403	GeoGenetics		2	P ₁ R	Ad, prob M	Not dated	U
Banks, Orkney (ORCA excavation) (311263)	ORCA context 234, SF 592	GeoGenetics		2	M ₁ R and M ₂ R	OJ, ind	Not dated	U
Banks, Orkney (ORCA excavation) (311263)	ORCA context 255, SF 416	GeoGenetics		2	I, lwr R and P ₁ R	Ad, M	Not dated	U
Banks, Orkney (ORCA excavation) (311263)	ORCA context 234, SF 500	GeoGenetics		2	M, lwr R	YJ, ind	Not dated	U
Banks, Orkney (ORCA excavation) (311263)	ORCA context 248, SF 339	GeoGenetics		2	P, lwr L and M, lwr L	Ad, prob M	Not dated	U
Banks, Orkney (landowner's investigation) (311263)	c/o GeoGenetics 502-2-2012	GeoGenetics		2	tooth	NS, NS	Not dated	U
Banks, Orkney (landowner's investigation) (311263)	c/o GeoGenetics 501-2-2012	GeoGenetics		2	tooth	NS, NS	Not dated	U
Banks, Orkney (landowner's investigation) (311263)	c/o GeoGenetics 499-2-2012	GeoGenetics		2	tooth	NS, NS	Not dated	U
NEOLITHIC: northern mainland Scotland								
Tulloch of Assery B, Highland (7907)	NMS X.unreg LC/TAB/58	GENSCOT05	I2633	1	PT, L	Ad, F	SUERC-68634 4911±32 3766–3531 (adj) (Bownes 2018, table 6.11)	2; 1
Tulloch of Assery A, Highland (7934)	NMS X.unreg LC/TAA/25b-10	GENSCOT07	I2635	1	PT, L	Ad, M	SUERC-68639 4796±37 3640–3376 (adj) (Bownes 2018, table 6.11)	2
Tulach an t'Sionnach, Highland (7901)	NMS X.unreg	GENSCOT06	I2634	1	PT, L	Ad, M	SUERC-68638 4851±34 3695–3383 (adj) (Bownes 2018, table 6.11)	2
Embo, Highland (15376)	NMS X.unreg, sample 1, bone labelled 'AS', from bag labelled 'Chamber Ia. Ch IV (a-c) AS.A'	Wellcome Embo_3	SB515A2/I6764	1	PT, L	Ad, F	Not dated	U

NEOLITHIC continued

Embo, Highland (15376)	NMS X.unreg, sample 2, bone labelled 'Ch IIa', from bag labelled 'Chamber I, Ch IIa-c & b'	Wellcome Embo_1	SB519A2/ I6766	1	PT, L	Neo- nate, F	Not dated	1
Embo, Highland (15376)	NMS X.unreg, sample 4, bone labelled 'Ch IIa', from Sk'h'	Wellcome Embo_2	SB516A3/ I6765	4	PT, L	Ad, M	SUERC-67259 (GU40816)4403±31 3263–2877 (adj) Bownes 2018, 191	U
Embo, Highland (15376)	NMS X.unreg, sample 5, box 3, Ch IIa, Sk'h'	GENLAB295		3	PT	Ad, ind	Not dated	U
Balintore, Highland (15247)	Inverness Museum and Art Gallery INVMG 1985.022	Northern Picts/ Dark Ages Diet (Flink) BAL004	DNA 004	2	M ₂	Ad, M	MAMS-21254 4543±24 3364–3108	U
Balintore, Highland (15247)	Inverness Museum and Art Gallery INVMG 1985.021	Northern Picts/ Dark Ages Diet (Flink) BAL005	DNA 005	2	M, deci- duous	Infant [M]	MAMS-21253 4473±23 3335–3030	U
NEOLITHIC: west and south-west Scotland (including Hebrides)								
Macarthur Cave, Oban, Argyll and Bute (23066)	NMS X.unreg Box 2	GENSCOT26	I2657	4	M' carpal 1L	Ad, M	SUERC-68701 5052±30 3952–3781	2; 1
Macarthur Cave, Oban, Argyll and Bute (23066)	NMS X.unreg Box 3	GENSCOT27 (possibly from same individual as GENSCOT26)	I2658	1	M' carpal 2L	Ad, M	See under GENSCOT26, if bone is from the same individual	U
Distillery Cave, Oban, Argyll and Bute (23064)	NMS X.unreg sample 1	GENSCOT28	I2659	1	PT, R	Ad, F	SUERC-68702 4914±27 3762–3644	2; 1
Distillery Cave, Oban, Argyll and Bute (23064)	NMS X.unreg sample 2	GENSCOT29	I2660	1	PT, R	Ind, M	SUERC-68703 4631±29 3514–3353	2; 1
Distillery Cave, Oban, Argyll and Bute (23064)	NMS X.unreg sample 3	GENSCOT30	I2691	1	PT, L	Sub-ad, M	SUERC-68704 4881±25 3701–3640	2
Mackay Cave, Oban (23058)	Anatomical Museum, University of Edinburgh	Flink MAC001	AM sample 31	2	Fem	Age NS, [F]	Beta-440529 4810±30 3652–3525	U
Mackay Cave, Oban (23058)	Anatomical Museum, University of Edinburgh	Flink MAC002	AM sample 30	2	Tibia	Age NS, [M]	Beta-441173 4750±30 3637–3382	U
Raschoille Cave, Oban, Argyll and Bute (22924)	Clive Bonsall (U of Edinburgh) ORC III.10.4	Reich	I3133	1	PT	M	PSUAMS-2154 4725±20 3632–3378	2
Raschoille Cave, Oban, Argyll and Bute (22924)	Clive Bonsall (U of Edinburgh) ORC III.17.21	Reich	I3134	1	PT	M	PSUAMS-2155 4730±25 3634–3378	2
Raschoille Cave, Oban, Argyll and Bute (22924)	Clive Bonsall (U of Edinburgh) ORC III.19.1	Reich	I3135	1	PT	M	PSUAMS-2068 4770±30 3641–3384	2
Raschoille Cave, Oban, Argyll and Bute (22924)	Clive Bonsall (U of Edinburgh) ORC IV.17.19	Reich	I3137	1	PT	M	Not dated	2
Raschoille Cave, Oban, Argyll and Bute (22924)	Clive Bonsall (U of Edinburgh) ORC III.21.3	Reich	I3136	1	PT	F	PSUAMS-2069 4665±30 3521–3366	2

RADIOCARBON DATES

NEOLITHIC continued

Raschoille Cave, Oban, Argyll and Bute (22924)	Clive Bonsall (U of Edinburgh) ORC IVa.87.6	Reich	I3138	1	PT	F	PSUAMS-2156 4415±25 3264–2924	2
Raschoille Cave, Oban, Argyll and Bute (22924)	NMS X.unreg sample 1, ORC III.13.18	Wellcome Raschoille_1	SB513A2/ I3041	1	PT	Ad, M	SUERC-67261 (GU40818) 4550±29 3357–3097 (adj) Bownes 2018, table 6.17	2;1
Raschoille Cave, Oban, Argyll and Bute (22924)	NMS X.unreg sample 2, ORC III.15.13	Wellcome Raschoille_2	SB525A2	1	PT, L	Ad?, F	SUERC-67265 (GU40819) 4738±31 3633–3372 (adj) Bownes 2018, table 6.17	U
Raschoille Cave, Oban, Argyll and Bute (22924)	NMS X.unreg sample 3, ORC IV.34.8	Wellcome Raschoille_3	SB526A	1	PT, R	Ad, F	SUERC-67266 (GU40820) 4817±31 3654–3386 (adj) Bownes 2018, table 6.17	U
Note on Raschoille samples 2 and 3: sample 2: sampled and sequenced; could be sequenced further; sample 3: sampled and sequenced, but preservation is not good and there is a possibility of contamination, which may affect the sexing								
Raschoille Cave, Oban, Argyll and Bute (22924)	NMS X.unreg sample 4, ORC II.95.2	Wellcome Raschoille_4	SB528A2/ I5371	1	PT, R	Ind, F	SUERC-67267 (GU40821) 4490±29 3341–2944 (adj) Bownes 2018, table 6.17	1
Raschoille Cave, Oban, Argyll and Bute (22924)	NMS X.unreg sample 5, ORC III.12.10	Wellcome Raschoille_5	SB527A1/ I5370	1	PT, L	Prob Ad, F	SUERC-67268 (GU40822) 4499±29 3337–2941 (adj) Bownes 2018, table 6.17	1; 2
Balevullin, Tiree, Argyll and Bute (21441)	Hunterian GLAHM: A.1912.12 Sk 1	GENSCOT58	I2987	4	M' tarsal, R	Ad, prob F	Weighted mean of SUERC-23660, -24589 and -24952 4495±19 3340–3090	U; for skeleton, see Armit <i>et al</i> 2015
Strathglebe, Skye, Highland (11599)	George Kozikowski Sample 1, SG2/ N2/ Find 03	Archaeo- genetics Huddersfield (K Dulias and C J Edwards)	KD023	2	M	NS, F	Not dated	U
Strathglebe, Skye, Highland (11599)	George Kozikowski Sample 2, SG2/ S2/ Find 14	Archaeo- genetics Huddersfield (K Dulias and C J Edwards)	KD024	2	M	NS, F	Not dated	U
Strathglebe, Skye, Highland (11599)	George Kozikowski sample 3, SG2/ S1/ Find 06/ Context 1	Archaeo- genetics Huddersfield (K Dulias and C J Edwards)	KD025	2	M	NS, M	Not dated	U
Strathglebe, Skye, Highland (11599)	George Kozikowski Sample 4, SG2/ N3/ Find 50/ Context 3	Archaeo- genetics Huddersfield (K Dulias and C J Edwards)	KD026	2	M	NS, M	Not dated	U
Strathglebe, Skye, Highland (11599)	George Kozikowski Sample 5, SG2/ N4/ Find 51/ Feature B	Archaeo- genetics Huddersfield (K Dulias and C J Edwards)	KD027	2	M	NS, M	OxA-37513 4569±35 3494–3104	U
Strathglebe, Skye, Highland (11599)	George Kozikowski Sample 6, SG2/ S03/ Find 49	Archaeo- genetics Huddersfield (K Dulias and C J Edwards)	KD028	2	M	NS, F	Not dated	U

NEOLITHIC continued

Strathglebe, Skye, Highland (11599)	George Kozikowski Sample 7, SG2/ E02/ Find 43	Archaeogenetics Huddersfield (K Dulias and C J Edwards)	KD029	2	M	NS, F	Not dated	U
Strathglebe, Skye, Highland (11599)	George Kozikowski Sample 8, SG2/ S2/ Find 48	Archaeogenetics Huddersfield (K Dulias and C J Edwards)	KD030	2	No info	NS, NS	Not dated	U
Clachaig, Arran, N Ayrshire (39676)	Hunterian GLAHM: A.1912.21/2 skull B	GENSCOT60	I2988	1	PT	Ad, F	SUERC-68711 4645±29 3517–3362	2

CHALCOLITHIC AND EARLY BRONZE AGE

<i>Findspot, (Canmore ID)</i>	<i>Museum and Reg No (or excavator, where not yet in a museum); other identifier</i>	<i>Project/DNA researcher or laboratory and other identifier</i>	<i>DNA sample ID</i>	<i>Status</i>	<i>Analysed bone</i>	<i>Age, sex</i>	<i>Date (Lab No, age BP, cal BC at 95.4% probability)</i>	<i>Publication</i>
Orkney								
Skara Brae, Orkney (1663)	NMS X.HA 142	Reich	I7074	Q	Fem, L	Ad, F	OxA-30794 3866±35 2465–2255 SUERC-55453 3603±32 2036–1884	U
Isbister (Rendall) cist, Orkney (1984)	NHM (listed as 'Pomona') 4.9279; PA SK 1669; JBD no 583; WHF 280.4	Alan Cooper, University of Adelaide		2	Dental calculus	Ad, F	Not dated but very probably Early Bronze Age	U
Stenchme, Lop Ness, Sanday, Orkney (306622)	OM SLN00 009 42	GENSCOT80	I2981	1	PT, L	Ad, F	Human: AA-43651 3520±40 1750–1520 (adj) Newborn lamb in cist: AA-51418 3320±50 1740–1490 (adj) (Innes and Cook 2016)	2
Northern mainland and north-east Scotland								
Achavanich, Highland (317871)	Caithness Horizons Museum, Thurso	Wellcome	SB529A2/ I5385	1	PT	Ad, F	SUERC-71005 3827±33 2460–2140	2; Hoole <i>et al</i> 2017
Fyrish, Evanton, Highland (13681)	NMS X.unreg	Wellcome		4	Mand-ible	Ad, M	OxA-13213 3816±29 2345–2145 (Jay <i>et al</i> 2019, table 2.4)	U
Covesea Cave 2, Moray (16280)	Ian Armit SF69	GENSCOT68	I3132	1	PT, R	Juv, M	SUERC-69070 3614±33 2119–1888	2
Broomend of Crichtie, Aberdeenshire (cist 1) (18566)	NMS X.ET 4	Reich	I5468	4	Tooth	Ad, M	OxA-13214 3720±35 2280–1980	U
Broomend of Crichtie, Aberdeenshire (cist 1) (18566)	NMS X.ET 5	Reich	I5467	4	Tooth	Ad, M	OxA-V-2166-34 3835±33 2458–2155	U
Central, south-east and southern Scotland								
Doune, Perth and Kinross (24749)	NMS X.unreg	Reich	I5516	1	PT	Ch, M	SUERC-2869 3400±35 1750–1630	2

RADIOCARBON DATES

CHALCOLITHIC AND EARLY BRONZE AGE continued

Coneypark cairn (cist 1), Stirling (46189)	Smith Art Gallery & Museum N.1215–1225 (part of)	GENLAB312	Y101	3	PT	Ad, M	SUERC-80274 3679±28 2141–1966	U
Aberdour Road, Dunfermline, Fife, cist 3 (50851)	NMS X.unreg	Reich	I5515	1	PT	Ad, M	SRR-292 3581±40 2035–1776	2
Rameldry Farm, Fife (184031)	NMS X.unreg	GENSCOT19	I2571	4	PT, R	Ad, M	Weighted mean 3725±40 2198–2040	U
Leith, Merilees Close, City of Edinburgh, Sk A (51933)	NMS X.unreg	Reich	I5469	Q	M' carpal	Ad, F	SUERC-2867 3300±30 1643–1504	2
Leith, Merilees Close, City of Edinburgh, Sk B (51933)	NMS X.unreg	Reich	I5470	4	Rad, L	Ad, ind	SUERC-2868 3260±35 1620–1450	2
Cousland, Midlothian, short cist (53337)	NMS X.unreg Skull 'C'	Reich	TB184	3	PT	Ad, ind	Not dated	U
Skateraw, East Lothian (1958 cist) (58844)	NMS X.unreg	GENSCOT12	I2412	4	M' tarsal 4L	Ad, M	OxA-V-2164-39 3846±29 2460–2200	U
Dryburn Bridge, East Lothian (58802)	NMS X.unreg Cist 1, burial 5	GENSCOT14	I2567	1	PT, R	Ad, M	SUERC-4072 3615±40 2131–1884 SUERC-4083 3725±35 2275–2024	2
Dryburn Bridge, East Lothian (58802)	NMS X.unreg Cist 2, burial 10	GENSCOT15	I2568	1	M ₂ R	Ad, M	SUERC-4078 3755±35 2287–2039	2
Dryburn Bridge, East Lothian (58802)	NMS X.unreg Cist 1, burial 4	GENSCOT16	I2652	4	M' carpal 5L	Ad, M	SUERC-4071 3765±35 2291–2042 SUERC-4082 3760±40 2293–2036	U
Dryburn Bridge, East Lothian (58802)	NMS X.unreg Cist 2, burial 11	Stewart Cole leprosy study		2	Nasal sep-tum bone or tooth	YJ/OJ (6–8), <i>ind</i>	SUERC-4079 3720±35 2271–1984 (and see Dunwell 2007, 26)	U
Eweford Cottages, East Lothian (57670)	NMS X.unreg	GENSCOT17	I2569	1	M ² R	Ad, M	SUERC-5318 3650±40 2140–1916	2
Thurston Mains, Innerwick, East Lothian (58918)	NMS X.EQ 479A Sk 1	1) GENSCOT13 2) Reich 3) Reich 4) Reich	1) I2413 2) I5471 3) TB186 4) TB185	1	1) M' tarsal, R 2) Tooth 3) Tibia, R 4) M' tarsal, R (re-sampled)	1) Ad, F 2) Ad, F	1) SUERC-75915 3547±29 1966–1771; 3) OxA-13097 3721±33 2266–2025	1) U 2) 2 3, 4) U
There have been problems with the analysis of this individual from Thurston Mains, with the possibility of some contamination being addressed through repeated sampling								
Thurston Mains, Innerwick, East Lothian, (58918)	NMS X.EQ 479B Sk 2	Reich	1) I5472 2) TB187	Q	1) Max-illary tooth 2) same, re-sampled	Ad, F	OxA-13660 3794±26 2300–2130	U U
Given the issues involved in analysing Skeleton 1 from this dual-interment cist, it was considered prudent to re-sample Skeleton 2 as well								

CHALCOLITHIC AND EARLY BRONZE AGE continued

Redden Farm, Sprouston, Scottish Borders (58352)	NMS X.unreg	GENSCOT18	I2570	4	PT, R	Ad, M	OxA-V-2167-43 3605±60 2111–1886	U
Boatbridge Quarry, Thankerton, South Lanarkshire, cist 1 (47482)	NMS X.unreg	Reich	I5473	4	Clav, R	Ad, M	Not dated	2
Boatbridge Quarry, Thankerton, South Lanarkshire, cist 2 (47482)	NMS X.unreg	Wellcome	SB520A	3	Mand	Ad, M	Weighted mean of OxA-V-2168-42 and GU-1117: 3826±30, 2350–2150 (Jay <i>et al</i> 2019)	U
West and south-west Scotland								
'Giant's Grave', Lodge Farm, Kirkapoll, Tiree (357724)	Calluna Archaeology	Reich	Y116	3	PT	Ad, M	SUERC-80423 3588±33 2020–1740	U
Sorisdale, Coll, Argyll and Bute (21703)	NMS X.unreg	Wellcome	SB518A2/ I5367	1	PT	Ad, F	OxA-14722 3879±32 2470–2140	2
Upper Largie, Kilmartin Glen, Argyll and Bute (cist 3) (39486)	Kilmartin Museum cist 3	Reich	Y114	3	PT	Ad, F	GU-9358 3590±40 2120–1770	U
Kintyre Nurseries, Campbeltown, Argyll and Bute (cist 3) (38806)	NMS X.unreg Sk 1	GENSCOT20	I2572	4	PT, R	Ad, F	SUERC-68644 3668±35 2141–1945	U

MIDDLE AND LATE BRONZE AGE

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Orkney								
Links of Noltland, Westray, Orkney (2790)	Graeme Wilson (for HES) LON 9293	Archaeo- genetics Huddersfield (K Dulias and C J Edwards)	KD006	2	PT, R	Ad, M	Not dated (but from Middle Bronze Age cemetery)	U
Links of Noltland, Westray, Orkney (2790)	Graeme Wilson (for HES) LON 9488	Archaeo- genetics Huddersfield (K Dulias and C J Edwards)	KD044	2	M ₃ L	Ad, F	Not dated (from MBA cemetery)	U
Links of Noltland, Westray, Orkney (2790)	Graeme Wilson (for HES) LON 9395	Archaeo- genetics Huddersfield (K Dulias and C J Edwards)	KD045	2	I, upr	Ad, M	Not dated (from MBA cemetery)	U
Links of Noltland, Westray, Orkney (2790)	Graeme Wilson (for HES) LON 9275 (Group P)	Archaeo- genetics Huddersfield (K Dulias and C J Edwards)	KD046	2	M	NS, NS	Not dated (from MBA cemetery)	U
Links of Noltland, Westray, Orkney (2790)	Graeme Wilson (for HES) LON 9302	Archaeo- genetics Huddersfield (K Dulias and C J Edwards)	KD047	2	PT, R	Ad, M	SUERC-36893 3155±30 1501–1320 but needs adjustment for marine offset	U
Links of Noltland, Westray, Orkney (2790)	Graeme Wilson (for HES) LON 9244	Archaeo- genetics Huddersfield (K Dulias and C J Edwards)	KD048	2	PT, L	Non- adult	Not dated (from MBA cemetery)	U

RADIOCARBON DATES

MIDDLE AND LATE BRONZE AGE continued

Links of Noltland, Westray, Orkney (2790)	Graeme Wilson (for HES) LON 9275 (Group I)	Archaeo-genetics Huddersfield (K Dulias and C J Edwards)	KD049	2	PT, R	Juv?, M	Not dated (from MBA cemetery)	U
Links of Noltland, Westray, Orkney (2790)	Graeme Wilson (for HES) LON 9275 (Group C)	Archaeo-genetics Huddersfield (K Dulias and C J Edwards)	KD050	2	PT, R	Juv?, F	Not dated (from MBA cemetery)	U
Links of Noltland, Westray, Orkney (2790)	Graeme Wilson (for HES) LON 9280	Archaeo-genetics Huddersfield (K Dulias and C J Edwards)	KD051	2	PT, R	Juv	Not dated (from MBA cemetery)	U
Links of Noltland, Westray, Orkney (2790)	Graeme Wilson (for HES) LON 9414	Archaeo-genetics Huddersfield (K Dulias and C J Edwards)	KD052	2	PT, R	Foetus	Not dated (from MBA cemetery)	U
Links of Noltland, Westray, Orkney (2790)	Graeme Wilson (for HES) LON 9414	Archaeo-genetics Huddersfield (K Dulias and C J Edwards)	KD053	2	PT, R	Neonate	Not dated (from MBA cemetery)	U
Links of Noltland, Westray, Orkney (2790)	Graeme Wilson (for HES) LON 9303	Archaeo-genetics Huddersfield (K Dulias and C J Edwards)	KD054	4	M	Juv	Not dated (from MBA cemetery)	U
Links of Noltland, Westray, Orkney (2790)	Graeme Wilson (for HES) LON 9373	Archaeo-genetics Huddersfield (K Dulias and C J Edwards)	KD055	2	M ³ R	Ad, F	Not dated (from MBA cemetery)	U
Links of Noltland, Westray, Orkney (2790)	Graeme Wilson (for HES) LON 9404	Archaeo-genetics Huddersfield (K Dulias and C J Edwards)	KD056	4	I, upr L	Ad	Not dated (from MBA cemetery)	U
Links of Noltland, Westray, Orkney (2790)	Graeme Wilson (for HES) LON 9374	Archaeo-genetics Huddersfield (K Dulias and C J Edwards)	KD057	2	I, lwr	Ad, M	Not dated (from MBA cemetery)	U
Links of Noltland, Westray, Orkney (2790)	Graeme Wilson (for HES) LON 9295	Archaeo-genetics Huddersfield (K Dulias and C J Edwards)	KD058	2	PT, R	Ad, F	SUERC-36895 3270±30 1623–1460 but needs adjustment for marine offset	U
Links of Noltland, Westray, Orkney (2790)	Graeme Wilson (for HES) LON 9053	Archaeo-genetics Huddersfield (K Dulias and C J Edwards)	KD059	2	I, lwr	M	SUERC-27901 3280±30 1630–1497	U
The radiocarbon determination has a C/N ratio that is outside the normally accepted range, and the calibrated needs a marine offset adjustment								
Links of Noltland, Westray, Orkney (2790)	Graeme Wilson (for HES) LON 9412	Archaeo-genetics Huddersfield (K Dulias and C J Edwards)	KD060	2	PT, R	Ad, M	Not dated (from MBA cemetery)	U
Links of Noltland, Westray, Orkney (2790)	Graeme Wilson (for HES) LON 9326	Archaeo-genetics Huddersfield (K Dulias and C J Edwards)	KD061	2	PT, L	Neo-nate, M	Not dated (from MBA cemetery)	U

MIDDLE AND LATE BRONZE AGE continued

Links of Noltland, Westray, Orkney (2790)	Graeme Wilson (for HES) LON 9290	Archaeo-genetics Huddersfield (K Dulias and C J Edwards)	KD062	2	PT, R	Foetus, F	Not dated (from MBA cemetery)	U
Links of Noltland, Westray, Orkney (2790)	Graeme Wilson (for HES) LON 9335	Archaeo-genetics Huddersfield (K Dulias and C J Edwards)	KD063	2	PT, L	Foetus, F	Not dated (from MBA cemetery)	U
Links of Noltland, Westray, Orkney (2790)	Graeme Wilson (for HES) LON 9370	Archaeo-genetics Huddersfield (K Dulias and C J Edwards)	KD064	2	PT, R	Neo-nate, M	Not dated (from MBA cemetery)	U
Links of Noltland, Westray, Orkney (2790)	Graeme Wilson (for HES) LON 9291G	Archaeo-genetics Huddersfield (K Dulias and C J Edwards)	KD065	2	PT, L	Foetus, F	Not dated (from MBA cemetery)	U
Links of Noltland, Westray, Orkney (2790)	Graeme Wilson (for HES) LON 9304	Archaeo-genetics Huddersfield (K Dulias and C J Edwards)	KD066	2	M ₁ L	NS, F	Not dated (from MBA cemetery)	U
Links of Noltland, Westray, Orkney (2790)	Graeme Wilson (for HES) LON 9442	Archaeo-genetics Huddersfield (K Dulias and C J Edwards)	KD067	2	PT, L	NS, F	Not dated (from MBA cemetery)	U
North-east Scotland								
One of the Covesea Caves, Moray (16278; 16280)	NMS X.unreg Darge shoebox, 13	GENSCOT64	I3130	1	PT, R	Ind, F	SUERC-68713 2758±29 978–830	2
One of the Covesea Caves, Moray (16278; 16280)	NMS X.unreg Darge shoebox, 10	GENSCOT65	I2859	1	PT, L	Ind, M	SUERC-68714 2714±29 911–810	2
Covesea Cave 2, Moray (16280)	Ian Armit SF35	GENSCOT66	I2860	1	PT, R	Ind, M	SUERC-68715 2738±29 970–816	2
Covesea Cave 2, Moray (16280)	Ian Armit SF38	GENSCOT67	I2861	1	PT, L	Ind, F	SUERC-68716 2757±29 977–829	2
South-east Scotland								
Longniddry (Evergreen House, Coast Road), East Lothian (182426)	NMS X.unreg Sk 4	GENSCOT21	I2573	1	PT, L	Ad, F	OxA-16486 3144±37 1501–1302	2
Longniddry (Evergreen House, Coast Road), East Lothian (182426)	NMS X.unreg Sk 2	GENSCOT22	I2653	1	PT, R	Ad, M	SUERC-75916 3019±26 1388–1133	2
Longniddry (Evergreen House, Coast Road), East Lothian (182426)	NMS X.unreg Sk 3	GENSCOT23	I2654	1	PT, R	Ad, F	SUERC-75917 3074±29 1395–1261	2
Grainfoot, Longniddry, East Lothian (54950)	NMS X.unreg Sk A	GENSCOT25	I2656_d	1	PT, L	Ad, M	GU-2762 2930±50 1279–980	2
Western Scotland								
Pabay Mor, Isle of Lewis, Western Isles (237343)	NMS X.2012.15 PB02-2002	GENSCOT24	I2655	1	M ³ L	Ad, M	SUERC-9172 3105±35 1442–1273	2

EARLY AND MIDDLE IRON AGE (to c. AD 200)

<i>Findspot, (Canmore ID)</i>	<i>Museum and Reg No (or excavator, where not yet in a museum); other identifier</i>	<i>Project/DNA researcher or laboratory and other identifier</i>	<i>DNA sample ID</i>	<i>Status</i>	<i>Analysed bone</i>	<i>Age, sex</i>	<i>Date (Lab No, age BP, cal BC or AD at 95.4% probability)</i>	<i>Publication</i>
Orkney								
Howe, Orkney (1731)	OM 1978-82 HH80, S.Area, SF 3454, 1046, Phase 7 2b (late Phase 7, within material relating to alteration of SE building), find 104b	GENSCOT82	I2797	2	M' tarsal	Ind, F	SUERC-68727 1901±29 Cal AD 28–212	U
Howe, Orkney (1731)	OM 1978-82 HH81 S.Area, SF 5445- 1727, Phase 7 (early) NW yard, within ash, deposited during use of yard	GENSCOT83	I2798	2	M, upr	OJuv (10–11), F	SUERC-68731 1946±25 Cal AD 2–125	U
Howe, Orkney (1731)	OM 1978-82, HH81, SF 4546, 1251, Phase 7 (early, in rubble within rampart cell of NW building yard)	GENSCOT84	I2799	2	M, lwr	Ad, M	SUERC-68732 2052±26 166 cal BC–cal AD 16	U
Bu, Burray, Orkney (1483)	OM 1982.330.321 Bu 78, 13, 5 From incomplete burial of 2 adults	GENSCOT85	I2982	2	PT	Ad M	SUERC-68733 2260±29 397–209 cal BC	U
Bu, Orkney (1483)	OM 1982.330.330; Bu 78, 31, 2	GENSCOT86	I2983	2	PT	Neo- nate, F	SUERC-69075 2271±33 401–209 cal BC	U
Knowe of Skea, Berst Ness, Westray, Orkney (2838)	Graeme Wilson (for HES) BKNS 4038 Structure H	Archaeo- genetics Huddersfield (K Dulias and C J Edwards)	KD004	2	PT, R	Juv/ Adol, <15, M	SUERC-8410 2095±35 204–2 cal BC but requires marine offset re-calibration	U
Knowe of Skea, Berst Ness, Westray, Orkney (2838)	Graeme Wilson (for HES) BKNS 2115	Archaeo- genetics Huddersfield (K Dulias and C J Edwards)	KD042	2	PT, R	Ad, F	Not dated	U
Knowe of Skea, Berst Ness, Westray, Orkney (2838)	Graeme Wilson (for HES) BKNS 4045 Structure H	Archaeo- genetics Huddersfield (K Dulias and C J Edwards)	KD043	2	PT, L	Ad, M	SUERC-8411 1915±35 Cal AD 5–210	U
Central and south-east Scotland								
Camelon, Falkirk (46911)	NMS X.unreg	GENSCOT39	I2700	4	M' tarsal 5R	Ad, M	SUERC-61321 1969±30 44 cal BC–cal AD 85	U
Moredun, Leat Hill, City of Edinburgh (the better- preserved of the two individuals in the cist (51695)	NMS X.EQ 277.1	GENLAB300	Y111	3	PT	Ad, prob M	Not dated	U

EARLY AND MIDDLE IRON AGE (to c. AD 200) continued

Broxmouth, East Lothian (58800)	NMS X.unreg Sk 1	GENSCOT31	I2692	2	PT, R	Ad, F	SUERC-1988 2395±30 729–398 cal BC	U
Broxmouth, East Lothian (58800)	NMS X.unreg Sk 5	GENSCOT32	I2693	2	PT, R	Ad, M	SUERC-24248 2095±30 200–40 cal BC	U
Broxmouth, East Lothian (58800)	NMS X.unreg Sk 3	GENSCOT33	I2694	2	PT, R	OJ/Adol (16–18), F	SUERC-24247 2175±30 361–121 cal BC	U
Broxmouth, East Lothian (58800)	NMS X.unreg Sk 7	GENSCOT34	I2695	2	PT, R	Ad, M	SUERC-21990 2180±30 370–160 cal BC	U
Broxmouth, East Lothian (58800)	NMS X.unreg Sk 9	GENSCOT35	I2696	2	PT, R	Ad, F	SUERC-24250 2155±30 360–100 cal BC	U
Broxmouth, East Lothian (58800)	NMS X.unreg Sk 2	GENLAB297	Y108	3	M, lwr	Ad, F	SUERC-24246 2430±30 750–405 cal BC	U
Broxmouth, East Lothian (58800)	NMS X.unreg Sk 6	GENLAB298	Y110	3	M	Ad, Ind	SUERC-24249 2150±30 360–90 cal BC	U
Broxmouth, East Lothian (58800)	NMS X.unreg Sk 10	GENLAB299	Y109	3	PT	Ad, prob F	SUERC-21991 2130±30 350–52 cal BC	U
Broxmouth, East Lothian (58800)	NMS X.unreg Sk 11	GENLAB364	Y123	3	M, lwr L	OJ (9–14 or 11–14), Ind	SUERC-24251 2110±30 204–46 cal BC	U
Broxmouth, East Lothian (58800)	NMS X.unreg Sk 12	GENLAB361	Y120	3	PT, R	Ad, prob M	SUERC-24252 2180±30 370–160 cal BC	U
Broxmouth, East Lothian (58800)	NMS X.unreg Sk 13	GENLAB360	Y119	3	Tar-sal	Ad, prob M	SUERC-24256 2215±30 390–190 cal BC	U
Broxmouth, East Lothian (58800)	NMS X.unreg Sk 14	GENLAB362	Y121	3	PT, L	OJ (9–10), Ind	SUERC-24257 2135±30 351–55 cal BC	U
Broxmouth, East Lothian (58800)	NMS X.unreg disartic bone, fragment 16	GENLAB [awaiting number]		3	PT, L	Ad, Ind	Not dated	U
Broxmouth, East Lothian (58800)	NMS X.unreg disartic bone, fragment 19	GENLAB363	Y122	3	M ₁	Ad, Ind	Not dated	U
Law Road, North Berwick, East Lothian (281641)	NMS X.unreg context 50	GENLAB308	Y103	3	PT	Ad, F	Not yet dated	U
Law Road, North Berwick, East Lothian, cist (281641)	NMS X.unreg short square cist, F 1000, C047	GENLAB309	Y102	3	PT	Ad, F	Not yet dated	U
Law Road, North Berwick, East Lothian, cist (281641)	NMS X.unreg Short square cist, F 1000, C053	GENLAB310	Y112	3	PT	Ad, M	Not yet dated	U
Law Road, North Berwick, East Lothian (C046) (281641)	NMS X.unreg	GENLAB311	Y113	3	PT	Ad, M	Not yet dated	U
The Law Road individuals are believed to date to the Iron Age since an iron knife and penannular iron brooch were present in the cist								
Cumledge, Scottish Borders (58574)	NMS X.unreg	Reich		3	M	Ad, F	GrA-27298 2030±35 161 cal BC–cal AD 54	U

EARLY AND MIDDLE IRON AGE (to c. AD 200) continued

Western Scotland								
Galson, Lewis, Western Isles (4357)	NMS X.unreg Sk IV	GENSCOT36	I2697	2	M ₁ R	Ad, F	OxA-27368 1909±24 Cal AD 25–137	U
Galson, Lewis, Western Isles (4357)	NMS X.unreg Sk II	GENSCOT37	I2698	4	M' tarsal 4L	Ad, F	OxA-10164 1895±36 Cal AD 28–221	U
Northton, Harris, Western Isles (10502)	NMS X.unreg Iron Age II horizon, SF 46	GENSCOT46	I2824	2	PT, L	Ad, M	SUERC-68706 1977±29 43 cal BC–cal AD 76	U
Hornish Point, South Uist, Western Isles (9913)	NMS X.unreg	GENSCOT38	I2699	2	M' carpal 2L	OJ/ Adol (12–14), M	SUERC-24241 2050±30 166 cal BC–cal AD 20	U
High Pasture Cave, Skye, Highland (273776)	Steven Birch Adult female A: Block 22b, Phase 7, Feature F2.23, Find F2.270/71	Archaeo- genetics Huddersfield (K Dulias and C J Edwards)	KD005	1	PT	Ad, F	SUERC-14945 1965±40 45 cal BC–cal AD 125 SUERC-14946 1890±40 cal AD 28–230	Dulias <i>et al</i> submit- ted
High Pasture Cave, Skye, Highland (273776)	Steven Birch Perinate E: Block 22b, Phase 7, Feature 2.23, Find 2.268	Archaeo- genetics Huddersfield (K Dulias and C J Edwards)	KD068	1	Isch- ium, R	Peri- nate	SUERC-66372 1867±29 cal AD 76–226	Dulias <i>et al</i> submit- ted
High Pasture Cave, Skye, Highland (273776)	Steven Birch Neonate G: Block 22b, Phase 7, Feature F2.23, Find 2.267	Archaeo- genetics Huddersfield (K Dulias and C J Edwards)	KD069	1	Scap, L	Foetus	SUERC-66371 1884±29 cal AD 86–239	Dulias <i>et al</i> submit- ted
Applecross Old Estate Office, Highland (not yet in Canmore; Highland HER no EHG4885)	Cathy Dagg; from spoil heap	GENSCOT92	I3566	2	PT	Ad, M	SUERC-73990 2070±31 176 cal BC–cal AD 2	U
Applecross Old Estate Office, Highland (not yet in Canmore; Highland HER no EHG4885)	Cathy Dagg; Sk 2	GENSCOT93	I3657	2	PT	Ad, M	SUERC-73991 2075±31 181–1 cal BC	U
Applecross Old Estate Office, Highland (not yet in Canmore; Highland HER no EHG4885)	Cathy Dagg; 'original skull', possibly Sk 3 or 4?	GENSCOT94	I3658	2	PT	Ad, M	SUERC-73992 1980±28 43 cal BC–cal AD 72	U
The three individuals found under the Applecross Old Estate Office had been buried in a shallow scoop on the storm beach, covered by cobbles								
One of the Oban caves, Argyll and Bute (from material stored in excavator's straw basket)	NMS X.unreg	GENSCOT40	I2701	2	PT, R	Sub-ad, F	SUERC-68705 2023±29 108 cal BC–cal AD 55	U
Balevullin, Tiree, Argyll and Bute (21441?)	Hunterian GLAHM: B.1951.2014	GENSCOT59	Reich	Q	PT, L	Ad, F	SUERC-68707 1940±29 Cal AD 1–129	U
The findspot is Balevullin, according to the Hunterian Reg No, but this individual does not correspond to any of the individuals featured in the original excavation photographs, and it was reported that all the skeletons except one (which was subsequently dated to the Neolithic—see above) had been reburied (Armit <i>et al</i> 2015). There is thus some uncertainty as to the precise findspot of this individual; it may be that the remains were found in the area and come from unrecorded fieldwork								

LATE IRON AGE AND EARLY MEDIEVAL (including PAGAN NORSE GRAVES, PNG)

<i>Findspot, (Canmore ID)</i>	<i>Museum and Reg No (or excavator, where not yet in a museum); other identifier</i>	<i>Project/DNA researcher or laboratory and other identifier</i>	<i>DNA sample ID</i>	<i>Status</i>	<i>Analysed bone</i>	<i>Age, sex</i>	<i>Date (Lab No, age BP, cal AD at 95.4% probability)</i>	<i>Publication</i>
Shetland								
Milla Skerra, Unst, Easting, Sandwick, Shetland (293793)	Shetland Museum and Archives (Skeleton 1)	Archaeogenetics Huddersfield (K Dulias and C J Edwards)	KD073	1	PT, L	Ad, M	SUERC-10745 1755±35 146–387	Dulias and Edwards 2019
Orkney								
Buckquoy, Orkney, long cist (1802)	OM 1970, long cist to N of settlement, Sk M12, supine, orientated SW-NE	1) GENSCOT87 2) Ashot Margaryan	1) I2800 2) VK201	2 2	1) M, lwr 2) M	1) Ad, M 2) Ad, M	TO-6693 1580±40 404–596	U
Buckquoy, Orkney (1802) PNG	OM Phase VI B (7) pagan Norse grave 1970, 7b; SB20.29	1) GENSCOT91 2) Ashot Margaryan	1) I2984 2) VK202	2 2	1) PT, R 2) PT	1) Ad, M 2) Ad, M	10th C (from associated grave goods)	U
A rib fragment, from the box containing the remains of the Norse period skeleton, was radiocarbon-dated (TO-6695) but found to be far older than the expected date for this individual and it is suspected that the rib fragment that was dated derives from a disturbed and unrecorded Iron Age grave. The date was 1740±40 BP, cal AD 232–418 (adjusted for a minor assumed marine offset: Barrett 2003)								
Scar (Quoy Banks), Sanday, Orkney (3494) PNG	OM Sk 133	GENSCOT88	I2801	2	M' carpal 5R	Ad, F	AA-12597 1155±60 712–1013	U
Scar (Quoy Banks), Sanday, Orkney (3494) PNG	OM Sk 134	GENSCOT89	I2802	2	M' carpal 1R	Ad, M	Combined AA,12596,AA-54929 and SUERC-1176 1009±24 980–1210 (Barrett and Richards 2004)	U
Scar (Quoy Banks), Sanday, Orkney (3494) PNG	OM Sk 135	GENSCOT90	I2803	2	M	OJ (c. 10), M	AA-12595 940±75 978–1254	U
Westness, Orkney (2204) PNG	NMS X.unreg grave 11	GENSCOT47	I2825	2	PT, R	Ad, M	T-6814 1270±60 710–1040 (adj) (Barrett and Richards 2004)	U
Westness, Orkney (2204) PNG	NMS X.unreg grave 34	GENSCOT48	I2826	4	M' tarsal 4?L	Ad, M	Not dated	U
Westness, Orkney (2204)	NMS X.unreg grave 32	GENSCOT49	I2827	2	PT, L	Ad, F	T-7470 1410±60 430–780 (Barrett and Richards 2004)	U
Westness, Orkney (2197)	NMS X.unreg grave 1963b	GENSCOT50	I2828	2	M' tarsal 4R	Ad, F	TO-7195 1600±70 250–640 (Barrett and Richards 2004)	U

LATE IRON AGE AND EARLY MEDIEVAL continued

Westness, Orkney (2204)	NMS X.unreg grave 28a	GENSCOT51	I2829	2	PT, R	Ad, F	T-7471 1480±40 430–670 (Barrett and Richards 2004)	U
Westness, Orkney (2204)	NMS X.1997.1168 grave 21	GENSCOT52	I2830	2	M' tarsal 3R	Ad, M	T-7468 1410±30 530–770 (adj) (Barrett and Richards 2004)	U
Westness, Orkney (2204)	NMS X.unreg grave 25	GENSCOT53	I2831	2	PT, L	OJ (7–8), F	T-6529 1530±60 380–660	U
Westness, Orkney (2204)	NMS X.unreg grave 10	GENSCOT54	I2832	2	M' tarsal 3L	Ad, F	T-6527 1360±70 540–890 (adj) (Barrett and Richards 2004)	U
Westness, Orkney (2204) PNG	NMS X.unreg grave 12	GENSCOT55	I2985	2	PT, L	Ad, M	T-6815 1240±70 710–1160 (adj) (Barrett and Richards 2004)	U
Birsay, Brough Road, Area 1 (BY78), Orkney (1796)	OM BY78 CU Area 1, Sk 1(over Cairn 1)	Ashot Margaryan	VK207	2	Tooth	Ad, F	GU-1552 1040±60 889–1157 (Barrett <i>et al</i> 2000, 6–7)	U
Birsay, Brough Road, Area 1 (BY78), Orkney (1796)	OM Area 1, Sk 2, cist-grave BY78 DT	Ashot Margaryan	VK208	2	Tooth	Ad, F	TO-6691 1120±40 782–1016 (adj?) (Barrett <i>et al</i> 2000, 6–7)	U
Birsay, Brough Road, Area 1 (BY78), Orkney (1796)	OM Area 1, Sk 3, Cairn 2 BY78 IO	Ashot Margaryan	VK203	2	Tooth	Ad, M	TO-6696 1430±40 543–665 (Barrett <i>et al</i> 2000, 6–7) GU-1554 1705±80 130–540 (Ashmore 2003, 45, 46): dates are significantly different	U
Broch of Gurness, Orkney (2201) PNG	NMS X.unreg	GENSCOT98	I7555	2	PT	Ad, F	SUERC-76052 1210±35 689–938	U
Newark Bay, Orkney (351741)	OM 71(13)	Ashot Margaryan	VK206	2	Tooth	NS, F	Not dated but assumed to belong to early medieval phase of burial	U
Newark Bay, Orkney (351741)	OM 'Newark Brothwell N/A'	Ashot Margaryan	VK204	2	Tooth	NS, F	Not dated; unclear to which phase of burial this belongs	U
Northern mainland								
Balnakeil, Highland (70086) PNG	NMS X.I.L 966	GENSCOT57	I2857	1	PT, R	YJ/OJ (6–9), M	Combined SUERC-2894, 2895 1308±25 660–940 (Barrett and Richards 2004)	U
Crosskirk, Highland) (8019)	Hunterian GLAHM: unreg Burial 1	GENSCOT61	I3128	2	PT, R	F	SUERC-68712 1447±29 565–652	U

LATE IRON AGE AND EARLY MEDIEVAL continued

Lower Dounreay, Highland (7268)	NMS X.unreg Found 29/10/56; Fiona Tucker sample 2	GENSCOT44	I2805	2	M2L	Ad, F	SUERC-24232 1295±30 660–780	U
Lower Dounreay, Highland (7268)	NMS X.unreg Found 29/10/56, Fiona Tucker sample 3	GENSCOT45	I2806	2	M3L	Ad, F	SUERC-24236 1350±30 630–770	U
Keiss, Highland (long cist) (9354[?])	NMS X.ET59, skull 5, from long cist under sandy mound, interpreted as a Pictish cemetery mound	GENLAB305	Y118	3	PT	Ad, M	Not dated	U
Balintore, Highland (15248)	Inverness Museum & Art Gallery INVMG 1985.082	NPicts/Dark Ages Diet (Flink) BAL001	DNA001	2	M, lwr L	Ad, F?	MAMS-21257 1526±20 430–597	U
Balintore, Highland (15248)	Inverness Museum & Art Gallery INVMG 1982.049	NPicts/Dark Ages Diet (Flink) BAL002	DNA002	2	PT	Ad, F	MAMS-21256 1514±20 433–605	U
Balintore, Highland (15248)	Inverness Museum & Art Gallery INVMG 1982.083	NPicts/Dark Ages Diet (Flink) BAL003	DNA003	2	M	Ad, F	MAMS-21258 1603±20 402–536	U
Rosemarkie Cave, Highland (293466)	Steven Birch	Archaeo- genetics Huddersfield (K Dulias and C J Edwards)	KD001	2	PT	Ad, M	SUERC-70721 1508±30 430–631	U
North-east Scotland								
The Sculptor's Cave, Covesea, Moray (16278)	Ian Armit SF 35	GENSCOT69	I2862	2	PT, L	Ind, M	SUERC-68717 1696±29 255–411	U
Central, south-east and southern Scotland								
Blair Atholl, Perth and Kinross (25796)	Perth Museum and Art Gallery PERGM: 1994.1399.2	GENSCOT63	I3140	2	M	Ad, M	GU-2513 1580±50 385–595	U
Lundin Links, Fife (32691)	Dundee 1980-726 LL14, Cist B under round cairn 2	NPicts/Dark Ages Diet (Flink) LUN007	DNA 023	2	Rib	Ad, F	OxA-8902 1465±35 542–650	U
Lundin Links, Fife (32691)	Dundee 1980-734	NPicts/Dark Ages Diet (Flink) LUN008	DNA 024	2	Rib	Ad, F?	Not dated	U
Lundin Links, Fife (32691)	Dundee 1980-718 LL8, Cist J of upper cist layer under horned cairn complex	NPicts/Dark Ages Diet (Flink) LUN009	DNA 025	2	Rib	Ad, F	OxA-8897 1550±35 420–585	U
Lundin Links, Fife (32691)	Dundee 1980-721 LL9, cist H, under W cairn of horned cairn complex	NPicts/Dark Ages Diet (Flink) LUN001	DNA 029	2	M2R	Ad, M	OxA-8898 1600±30 399–539	U

LATE IRON AGE AND EARLY MEDIEVAL continued

Lundin Links, Fife (32691)	Dundee 1973-871 LL6 Cist A, below base of round cairn 1	NPicts/ Dark Ages Diet (Flink) LUN002	DNA 030	2	M2L	Ad, M?	OxA-8896 1455±35 550-652	U
Lundin Links, Fife (32691)	Dundee 1980-727 LL18, Cist P below base of rectangular cairn 6	NPicts/ Dark Ages Diet (Flink) LUN003	DNA 031	2	M2L	Ad, F	OxA-8904 1610±40 351-546	U
Lundin Links, Fife (32691)	Dundee 1980-731	NPicts/ Dark Ages Diet (Flink) LUN004	DNA 032	2	M2L	Ad, M	Not dated	U
Lundin Links, Fife (32691)	Dundee 1990-33 Secondary inhumation in cist R under partly destroyed cairn	NPicts/ Dark Ages Diet (Flink) LUN005	DNA 038	2	M2L	Ad, M	N-1591 1630±190 Reject date: standard deviation too big	U
Lundin Links, Fife (32691)	University of Edinburgh Anatomical Museum IB 212A	NPicts/ Dark Ages Diet (Flink) LUN006	DNA 022	2	I, upr	NS, [F]	Not dated	U
Isle of May, Fife (sk 959) (57873)	NMS X.unreg Long cist	GENLAB301	Y104	3	PT	Ad, M	Early medieval: Period 1 grave in long cist cemetery	U
Isle of May, Fife (sk 859) (57873)	NMS X.unreg Long cist	GENLAB302	Y107	3	PT	Ad, M	SUERC-38056 1310±35 655-773	U
Cramond Roman Bath House, City of Edinburgh (50409)	CECAS CR76 III Sk 1	Wellcome	SB365B2/ I3047	2	PT, L	Ad, M	SUERC-50804 1495±31 434-641	U
Cramond Roman Bath House, City of Edinburgh (50409)	CECAS CR76 III Sk 2	Wellcome	SB362A2/ I3046	Q	PT, L	Ad, F	Not dated	U
Cramond Roman Bath House, City of Edinburgh (50409)	CECAS CR76 III Sk 3	Wellcome		4	PT, R	Ad, M	SUERC-52429 1511±30 429-620	U
Cramond Roman Bath House, City of Edinburgh (50409)	CECAS CR76 III Sk 4	Wellcome		4	PT, L	Ad, F	SUERC-50799 1554±31 421-573	U
Cramond Bath House, City of Edinburgh (50409)	CECAS CR76 III Sk 5	Wellcome	SB366B2/ I3012	Q	PT, R	Ad, F	SUERC-52430 1537±30 427-589	U
Cramond Bath House, City of Edinburgh (50409)	CECAS CR76 III Sk 6	Wellcome		2	M3R	Ad, F	SUERC-50805 1500±27 434-636	U
Cramond Bath House, City of Edinburgh (50409)	CECAS CR76 III Sk 7	Wellcome		3	Mand L	Ad, M	SUERC-52431 1510±30 430-620	U
Cramond Bath House, City of Edinburgh (50409)	CECAS CR76 III Sk 8	Wellcome		4	C, upr R	Ad, F	SUERC-52435 1561±30 420-564	U

LATE IRON AGE AND EARLY MEDIEVAL continued

Cramond Bath House, City of Edinburgh (50409)	CECAS CR76 III Sk 9	Wellcome		2	Mand	Ad, M?	SUERC-52436 1440±30 566–655	U
Unknown Scottish site (in box with remains from Moredun, Leat Hill, City of Edinburgh (51695))	NMS X.unreg: 'mystery' individual	GENSCOT97	I5475	2	M	Ad, M	SUERC-75918 1637±29 339–535	U
The 'mystery individual' is represented by three teeth, found within the boxes housing the two Iron Age skeletons from the Leat Hill, Moredun cist but not belonging to either of them. The teeth must have become mixed with the other remains before they were acquired by National Museums Scotland. While a Scottish findspot is likely, it is impossible to suggest a specific findspot. This individual was initially selected for DNA and dating on the assumption that the teeth did belong to one of the two Moredun individuals, but subsequent osteological study by Angela Boyle confirmed that they did not								
Parkburn Quarry, Lasswade, Midlothian (51697)	NMS X.unreg cist 8a and cist 8b	1) GENSCOT42 (cist 8a) and 2) GENSCOT43 (cist 8b)	I2804	2	1) PT, L 2) M2R	Ad, M	1) SUERC-31296 1465±30 551–646 2) SUERC-31297 1540±30 430–591	U
Note: there had been two occupants of Parkburn Quarry cist 8: a middle-aged woman (8b), whose remains had been pushed aside to accommodate an elderly man (8a). The two bones used for radiocarbon dating (namely a long bone, possibly humerus, for 8b and a left femur for 8a) date these two separate individuals (Sheridan <i>et al</i> 2010), but the DNA analysis of a petrous temporal and a tooth revealed that both of the samples selected for DNA analysis belong to the man (8a). The date SUERC-31296 applies to this individual								
Broxmouth, East Lothian (Sk 4) (58800)	NMS X.unreg	GENSCOT41	I2822	2	PT, L	Ad, M	SUERC-21989 1590±30 406–542	U
Easter Ferrygate Gardens, North Berwick, East Lothian (long cist) (56641)	NMS X.unreg (Sk 2)	Reich	TB183	3	PT, L	Ad, <i>ind</i>	Not dated	U
Auldhame, East Lothian (57854) PNG	NMS X.unreg sk 752, 'King Olaf Guthfrithson?'	GENLAB303	Y105	3	PT	Ad, M	SUERC-13292 1175±35 730–968	U
Torwoodlee broch, Scottish Borders (54353)	NMS X.unreg (from long cist in broch ditch fill)	GENLAB306	Y117	3	PT	Ad, F	Not yet dated; likely to be LIA/early medieval	U
Yarrow Kirk, Scottish Borders (53078)	NMS X.ET 40	GENLAB307	Y115	3	PT	Ad, M	Not yet dated but associated with Latin-inscribed stone of 5 th /6 th C date	U
Ringleyhall, Cairnmount, Scottish Borders (57202)	NMS X.unreg	GENLAB294		3	PT	Ad, M?	Not yet dated but suspected to be early medieval	U
West Scotland								
Dun Mor Vaul, Tiree, Argyll and Bute (21524)	Hunterian GLAHM: A.1965.604 SF270.FC	GENSCOT62	I3129	2	PT, R	Ad, M	SUERC-23665 1315±35 652–770 GX-3246 1145±155 (reject: standard deviation too large)	U
Kiloran Bay, Colonsay, Argyll and Bute (38173) PNG	NMS X.unreg	GENSCOT56	I2986	2	PT, L	Ad, M	SUERC-72577 1204±33 695–939	U
Caisteal nan Gilleann, Oronsay, Argyll and Bute (37820)	NMS X.unreg	GENSCOT95	I6649	2	Fem	Ad, M	SUERC-75919 1382±29 Cal AD 607–677	U

MIEVEAL AND POST-MIEVEAL

<i>Findspot, (Canmore ID)</i>	<i>Museum and Reg No (or excavator, where not yet in a museum); other identifier</i>	<i>Project/DNA researcher or laboratory and other identifier</i>	<i>DNA sample ID</i>	<i>Status</i>	<i>Analysed bone</i>	<i>Age, sex</i>	<i>Date (Lab No, age BP, cal AD at 95.4% probability)</i>	<i>Publication</i>
Orkney								
Newark Bay, Orkney (351741)	OM 68/12	Ashot Margaryan	VK205	2	Tooth	Ad, M	TO-7173 930±40 1190–1410 (adj) Barrett and Richards 2004	U
South-east Scotland								
Kirkhill, St Andrews, Fife (34358)	NMS X.unreg Victim of leprosy	Stewart Cole leprosy study		2	PT	Ad, F	Not dated but will date to between the 12 th C and 1559	U
St. Roque's Chapel cemetery, Edinburgh (52544)	NMS X.unreg (possible plague victim)	GENLAB293	I14199	3	PT	Prob Ad, ind	Not dated, but will date to between 1500 and 1780; prob. 16 th C	U
Seacliff (same cemetery as Auldhame), East Lothian (one of the 1954 finds) (57854)	NMS X.unreg	GENLAB304	Y106	3	PT	Ad, M	Not dated; either medieval (possibly 13 th C) or early medieval	U
West Scotland								
Caisteal nan Gilleann, Oronsay, Argyll and Bute (37820)	NMS X.unreg	GENSCOT96	I6650	2	Hum	Prob Ad, M	SUERC-75920 799±26 1218–1389	U

Key to abbreviations

Museum (etc) column: CECAS = City of Edinburgh Council Archaeology Service; Dundee = The McManus, Dundee's Art Gallery & Museum; NHM = Natural History Museum; NMS = National Museums Scotland; OM = Orkney Museum. Sk = skeleton. Key to Isbister codes: DL = Daphne Lorimer; IS = David Lawrence's code; BC = bone context; SC = side cell; ST = stall

Sampled body part: L = left; R = right; lwr = lower; upr = upper; Unid = unidentified. Bones: Clav = clavicle; Fem = femur; Hum = humerus; Mand = mandible; M'carpal = metacarpal (numbers indicating 1st, 2nd etc); M'tarsal = metatarsal (numbers indicating 1st, 2nd etc); PT = petrous temporal; Rad = radius; Scap = scapula. Teeth: C = canine; I = incisor; M = molar; P = premolar; numbers in subscript indicate mandibular teeth, those in superscript, maxillary

Age and sex: M = male; F = female; square brackets indicate where DNA results were not definitive but were consistent with that sex; ind = indeterminate; prob = probably; NS = not specified. Ad = adult (18+); Adol = adolescent (13–17 years); Juv = juvenile, age unspecified; OJ = older juvenile (7–12 years); YJ = younger juvenile (1–6 years); Neonate (birth to one month); Foetus (below 38–40 weeks in utero)

Publications (of DNA results): 1 = Brace *et al* 2018; 2 = Olalde *et al* 2018; U = unpublished

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