**SI1 European Middle and Late Upper Paleolithic comparative sample.**

Table 1. European Middle and Late Upper Paleolithic comparative sample.

Unpublished data recorded by SV, VS, MS, and from Erik Trinkaus, Trenton Holliday, Dominique Henry-Gambier, and data from the literature (Bonin, 1935; Chauvière, 2008; Churchill, 1994; Coppola, 2012; Corrain, 1977; Formicola, 1988; Gambier et al., 2006; Garralda, 1986; Henry-Gambier et al., 2002; Holt, 1999; Mallegni et al., 2000; Mallegni and Fabbri, 1995; Matiegka 1934; Paoli et al., 1980; Pearson, 1997; Sládek et al., 2000; Trinkaus, in press; Trinkaus et al., 2014; Trinkaus and Ruff, 2012; Trinkaus and Svoboda, 2006; Vallois and Billy, 1965; Vercellotti et al., 2008; Verneau, 1906; Villotte et al., 2015a; 2015b).

Some individuals (Oberkassel 1, Barma Grande 2, Barma del Caviglione 1, Vado all’ Arancio 1) show marked limb abnormalities or trauma, and those skeletal elements were not included in the comparative sample.

Neuessing 2 is directly dated to 18,590 ± 260 BP (OxA-9856) (Street et al., 2006), and therefore chronologically falls at the transition between MUP and LUP, a period for which there is little skeletal evidence. This individual was therefore included only in the analyses involving the UP sample (pooled periods).

|  |  |  |  |
| --- | --- | --- | --- |
| Period | Males | Females | Uncertain sex |
| Middle Upper Paleolithic | Barma Grande 21, 5, 6;  Cro-Magnon 1;  Dolní Věstonice 13, 14, 16;  Grotte-des-Enfants 4;  Parabita 1;  Pataud 5;  Paviland 1;  Pavlov 1;  Sunghir 1. | Caviglione 1;  Dolní Věstonice 3;  Grotte-des-Enfants 5;  Ostuni 1;  Paglicci 25;  Parabita 2;  Pataud 3. | Cro Magnon 4294, 4295, 4322, 4324, 4330, 4333, 4293,  4301, 4303, 4304, 4306, 4729;  Dolní Věstonice 35;  Předmostí 1, 3, 4, 9, 10, 14;  Sunghir 4. |
| Late Upper Paleolithic | Arene Candide 2, 3, 4, 5, 10, 12;  Bichon;  Continenza 7;  Laugerie Basse 4;  Los Azules;  Oberkassel 1;  Peyrat 5;  Riparo Tagliente;  Rochereil;  Romanelli 1;  Romito 3, 4;  Villabruna 1. | Cap Blanc 1;  Cova Fosca A 1 AD;  Grotte-des-Enfants 3;  Lafaye 1;  Oberkassel 2;  Romito 1, 5, 6;  San Teodoro 1, 4;  St-Germain-la-R. 4. | Arene Candide 14;  Chancelade 1;  Farincourt 1;  Les Forges E546;  Madeleine 1;  Maritza 2;  Placard 16;  Romanelli 4. |

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