Online Supplementary Material

**A View from the Countryside: Radiocarbon Chronology for Zaolinhetan of the pre-Zhou Culture in Early Dynastic China**

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Plot()

 {

 Outlier\_Model("General",T(5),U(0,4),"t");

 KDE\_Model()

 {

 R\_Date("XD-58",2915,19){

 Outlier("General", 0.05);

};

 R\_Date("XD-29",2964,19){

 Outlier("General", 0.05);

};

 R\_Date("Beta-1",2760,30){

 Outlier("General", 0.05);

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 R\_Date("Beta-2",2770,30){

 Outlier("General", 0.05);

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 R\_Date("Beta-4",2860,30){

 Outlier("General", 0.05);

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 R\_Date("Beta-6",2850,30){

 Outlier("General", 0.05);

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 R\_Date("Beta-7",2900,30){

 Outlier("General", 0.05);

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 R\_Date("Beta-9",2940,30){

 Outlier("General", 0.05);

};

 R\_Date("Beta-10",2940,30){

 Outlier("General", 0.05);

};

 R\_Date("Beta-11",3210,30){

 Outlier("General", 0.05);

};

 R\_Date("Beta-13",2690,30){

 Outlier("General", 0.05);

};

 R\_Date("Beta-14",2560,30){

 Outlier("General", 0.05);

};

 R\_Date("Beta-17",2740,30){

 Outlier("General", 0.05);

};

 R\_Date("Beta-18",2480,30){

 Outlier("General", 0.05);

};

 R\_Date("Beta-19",2490,30){

 Outlier("General", 0.05);

}R\_Date("XD-35",2961,18)

{

 Outlier("General", 0.05);

};

;

 Sequence ("G3\_H9")

 {

 R\_Date("XD-35",2961,18)

 {

 Outlier("General", 0.05);

 };

 R\_Date("XD-8",2962,25)

 {

 Outlier("General", 0.05);

 };

 };

 Sequence ("H109-G11")

 {

 R\_Date("XD-53",3011,24)

 {

 Outlier("General", 0.05);

 };

 R\_Date("XD-20",2969,21)

 {

 Outlier("General", 0.05);

 };

 };

 Sequence ("G7-H76-H50-F1")

 {

 R\_Date("XD-59",3227,35)

 {

 Outlier("General", 0.05);

 };

 R\_Date("XD-4",2959,21)

 {

 Outlier("General", 0.05);

 };

 R\_Date("XD-2",2949,19)

 {

 Outlier("General", 0.05);

 };

 R\_Date("XD-1",2958,19)

 {

 Outlier("General", 0.05);

 };

 R\_Date("XD-85",3002,28)

 {

 Outlier("General", 0.05);

 };

 };

 Sequence ("G8-G7-H50-H86-F1")

 {

 Date("=XD-59");

 Date("=XD-4");

 R\_Date("XD-46",2950,17)

 {

 Outlier("General", 0.05);

 };

 Phase ("H50")

 {

 R\_Date("XD-80黍",3020,19)

 {

 Outlier("General", 0.05);

 };

 R\_Date("XD-79粟",2994,18)

 {

 Outlier("General", 0.05);

 };

 };

 Date("=XD-2");

 Date("=XD-1");

 Phase ("G8")

 {

 R\_Date("XD-55 黍",2974,20)

 {

 Outlier("General", 0.05);

 };

 R\_Date("XD-54 粟 ",2976,25)

 {

 Outlier("General", 0.05);

 };

 };

 };

 Sequence ("F2-G9-H103-G10")

 {

 R\_Date("XD-5",2959,19)

 {

 Outlier("General", 0.05);

 };

 R\_Date("XD-22",3010,20)

 {

 Outlier("General", 0.05);

 };

 R\_Date("XD-16",2970,20)

 {

 Outlier("General", 0.05);

 };

 R\_Date("XD-15",2977,20)

 {

 Outlier("General", 0.05);

 };

 R\_Date("XD-14",2919,20)

 {

 Outlier("General", 0.05);

 };

 Phase( )

 {

 R\_Date("XD-6",2986,18)

 {

 Outlier("General", 0.05);

 };

 R\_Date("Beta-12",2900,30)

 {

 Outlier("General", 0.05);

 };

 };

 R\_Date("XD-7",2957,18)

 {

 Outlier("General", 0.05);

 };

 R\_Date("XD-3",2909,25)

 {

 Outlier("General", 0.05);

 };

 };

 Sequence ("H15-H28")

 {

 R\_Date("XD-37",3028,17)

 {

 Outlier("General", 0.05);

 };

 R\_Date("XD-36",2966,18)

 {

 Outlier("General", 0.05);

 };

 };

 Sequence ("H39-H8")

 {

 Boundary ("Start\_H8\_6");

 Phase ("H8\_6")

 {

 R\_Date("XD-63黍",3069,25)

 {

 Outlier("General", 0.05);

 };

 R\_Date("XD-62 粟",3259,20)

 {

 Outlier("General", 0.05);

 };

 };

 Boundary ("End\_H8\_6");

 Phase ("H8\_5")

 {

 R\_Date("Beta-5",2880,30)

 {

 Outlier("General", 0.05);

 };

 R\_Date("Beta-15",2680,30)

 {

 Outlier("General", 0.05);

 };

 };

 R\_Date("XD-65",2950,18)

 {

 Outlier("General", 0.05);

 };

 Phase ("H8\_2")

 {

 R\_Date("XD-60 大豆",2932,19)

 {

 Outlier("General", 0.05);

 };

 R\_Date("XD-61 粟",3003,21)

 {

 Outlier("General", 0.05);

 };

 };

 R\_Date("XD-42",2963,17)

 {

 Outlier("General", 0.05);

 };

 R\_Date("XD-41",2944,17)

 {

 Outlier("General", 0.05);

 };

 R\_Date("XD-40",2970,18)

 {

 Outlier("General", 0.05);

 };

 };

 Sequence ("H34-H6-H35")

 {

 R\_Date("XD-83 粟",2952,17)

 {

 Outlier("General", 0.05);

 };

 R\_Date("XD-34",2950,17)

 {

 Outlier("General", 0.05);

 };

 R\_Date("XD-39",2960,17)

 {

 Outlier("General", 0.05);

 };

 };

 Sequence ("H88-H13")

 {

 R\_Date("Beta-16",2620,30)

 {

 Outlier("General", 0.05);

 };

 R\_Date("XD-88",2960,17)

 {

 Outlier("General", 0.05);

 };

 Phase ("H13\_4")

 {

 R\_Date("XD-86 大豆",3016,43)

 {

 Outlier("General", 0.05);

 };

 R\_Date("XD-87粟",3008,35)

 {

 Outlier("General", 0.05);

 };

 };

 Phase ("H88\_1")

 {

 R\_Date("XD-75 黍",2955,20)

 {

 Outlier("General", 0.05);

 };

 R\_Date("XD-76粟",2945,18)

 {

 Outlier("General", 0.05);

 };

 };

 R\_Date("Beta-3",2900,30)

 {

 Outlier("General", 0.05);

 };

 Boundary ("End\_H88\_1");

 };

 Sequence ("H7-H13")

 {

 Date("=XD-88");

 Phase ("H13\_4")

 {

 Date("=XD-86 大豆");

 Date("=XD-87粟");

 };

 Phase("H7\_1")

 {

 R\_Date("XD-67黍",2862,25)

 {

 Outlier("General", 0.05);

 };

 R\_Date("XD-66 粟",3177,27)

 {

 Outlier("General", 0.05);

 };

 };

 };

 Sequence ("H44-H108")

 {

 R\_Date("XD-19",3022,20)

 {

 Outlier("General", 0.05);

 };

 R\_Date("XD-43",2945,17)

 {

 Outlier("General", 0.05);

 };

 };

 Sequence ("H73-H75")

 {

 R\_Date("XD-31",2988,18)

 {

 Outlier("General", 0.05);

 };

 R\_Date("XD-30",2961,19)

 {

 Outlier("General", 0.05);

 };

 };

 Sequence ("H107-H108")

 {

 R\_Date("XD-18",4017,23)

 {

 Outlier("General", 0.05);

 };

 Date("=XD-19");

 };

 Sequence ("H54-H55\_G1")

 {

 R\_Date("XD-10",2941,20)

 {

 Outlier("General", 0.05);

 };

 R\_Date("XD-11",2950,20)

 {

 Outlier("General", 0.05);

 };

 Phase ("G1\_1")

 {

 R\_Date("XD-57",2972,23)

 {

 Outlier("General", 0.05);

 };

 R\_Date("XD-12",2943,20)

 {

 Outlier("General", 0.05);

 };

 R\_Date("XD-56",3291,49)

 {

 Outlier("General", 0.05);

 };

 };

 R\_Date("XD-25",2934,19)

 {

 Outlier("General", 0.05);

 };

 R\_Date("XD-24",2940,19)

 {

 Outlier("General", 0.05);

 };

 };

 Sequence ("G1-H55-H56-H53-M2")

 {

 Date("=XD-10");

 Date("=XD-11");

 Phase ("G1\_1")

 {

 Date("=XD-57");

 Date("=XD-12");

 Date("=XD-56");

 };

 Date("=XD-25");

 R\_Date("XD-44",2962,17)

 {

 Outlier("General", 0.05);

 };

 R\_Date("Beta-8",2930,30)

 {

 Outlier("General", 0.05);

 };

 };

 Sequence ("G6-H84-H70")

 {

 R\_Date("XD-13",3000,20)

 {

 Outlier("General", 0.05);

 };

 R\_Date("XD-33",2927,18)

 {

 Outlier("General", 0.05);

 };

 R\_Date("XD-28",2988,19)

 {

 Outlier("General", 0.05);

 };

 };

 Sequence ("H70-H84-H85-H89")

 {

 R\_Date("XD-47",2963,19)

 {

 Outlier("General", 0.05);

 };

 R\_Date("XD-45",2941,17)

 {

 Outlier("General", 0.05);

 };

 Date("=XD-33");

 Date("=XD-28");

 };

 Sequence ("H70-H93")

 {

 R\_Date("XD-48",2970,17)

 {

 Outlier("General", 0.05);

 };

 Date("=XD-28");

 };

 Sequence ("H63-H85-H89")

 {

 Date("=XD-47");

 Date("=XD-45");

 R\_Date("XD-27",2969,18)

 {

 Outlier("General", 0.05);

 };

 };

 Sequence ("H33-H42-H43")

 {

 Boundary ("Start H43");

 Phase ("H43")

 {

 R\_Date("XD-82黍",3066,29)

 {

 Outlier("General", 0.05);

 };

 R\_Date("XD-81 粟",3032,29)

 {

 Outlier("General", 0.05);

 };

 };

 Phase ("H33")

 {

 R\_Date("XD-84",3040,36)

 {

 Outlier("General", 0.05);

 };

 R\_Date("XD-38",2935,17)

 {

 Outlier("General", 0.05);

 };

 };

 Boundary ("End H33");

 };

 Sequence ("H59-H115")

 {

 R\_Date("XD-23",2960,19)

 {

 Outlier("General", 0.05);

 };

 R\_Date("XD-26",2961,18)

 {

 Outlier("General", 0.05);

 };

 };

 Sequence ("H112-H115-H94-H102")

 {

 R\_Date("XD-52",3005,17)

 {

 Outlier("General", 0.05);

 };

 R\_Date("XD-49",3000,17)

 {

 Outlier("General", 0.05);

 };

 Date("=XD-23");

 R\_Date("XD-21",2991,20)

 {

 Outlier("General", 0.05);

 };

 };

 Sequence ("H102-H95-H94")

 {

 Date("=XD-52");

 R\_Date("XD-50",2987,17)

 {

 Outlier("General", 0.05);

 };

 Date("=XD-49");

 };

 Sequence ("H95-H96")

 {

 R\_Date("XD-51",2988,17)

 {

 Outlier("General", 0.05);

 };

 Date("=XD-50");

 };

 };

 };