

## Supplementary Material

### Sedimentology, faunal content and pollen record of Middle Pleistocene palustrine and lagoonal sediments from the Peri-Adriatic basin (Abruzzi, eastern central Italy)

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#### Torre Mucchia pollen counts – Arboreal Pollen

Sample depth (m)	0.6	1	1.2	1.4	3.4	3.6	4	5.2	6	7.6	7.8	8
<i>Abies</i>	2	1	2	0	8	2	1	1		1	1	
<i>Ephedra distachya t.</i>				1					1			
<i>Ephedra fragilis t.</i>	3	6	1	1			3	2	3		1	
<i>Juniperus</i>	3	3	7	1	2	3	4	2	1	1	9	2
<i>Picea</i>	1	6	8	1	4	1	1		5		1	3
<i>Pinus</i>	40	43	31	31	63	21	45	38	44	25	17	20
<i>Acer</i>										1		
<i>Alnus</i>	8	5	9	8	2	1	4	9	5		1	7
<i>Betula</i>	5	5	1		1	3	1		1		8	1
<i>Carpinus betulus</i>	1		1	1		1					5	1
<i>Carya</i>	7	8	6	1		6	2			1	2	1
<i>Corylus</i>	1	1	1	4			4		1		2	2
<i>Ericaceae</i>	1			1		1		2				1
<i>Fagus</i>		1	1									
<i>Fraxinus</i>						1						
<i>Fraxinus ornus t.</i>							1					
<i>Pterocarya</i>				1		1						
Myrtaceae							2					
<i>Carpinus orientalis t.</i>	7	2	1			2	1			4	14	9
<i>Tsuga</i>	1	1			1		4		9			
<i>Pistacia</i>				1								
<i>Quercus deciduous</i>	20	11	5	3	5	5	4	7	1	2	13	5
<i>Quercus cerris/suber</i>											4	
<i>Quercus evergreen</i>	14	10	2	6	4	3	2	5		1	9	7
<i>Ulmus</i>		2		1							1	2
<i>Zelkova</i>	6	7	2	7	3	2	2	11	3	3	4	16

### Torre Mucchia pollen counts – Non Arboreal Pollen

Sample depth (m)	0.6	1	1.2	1.4	3.4	3.6	4	5.2	6	7.6	7.8	8
<i>Armeria/Limonium</i>							1		1			
<i>Artemisia</i>	2	1	3	2	3	20	1	1	3	3	26	5
Asteroidae	5	3	4	3	5	7	4	3	2	2	5	
Caryophyllaceae		1					1		2			
Chenopodiaceae	5	6	5	20	7	10	6	13	5	32	48	11
Cichorioideae	7	5	3	6	4	10	6	10	8	15	7	7
Brassicaceae	1		1		1	1		1	1	2	3	1
Cyperaceae/Juncaceae	3	7	1		4	1		3	1		2	1
Poaceae	5	12	8	5	4	9	8	6	5	5	28	16
<i>Helianthemum</i>												1
<i>Lamium</i>		1	3									
Fabaceae			1					1			1	
<i>Calligonum</i>	1											
<i>Plantago</i>	1							1			1	
<i>Polygonum bistorta</i> t.						3					2	
Rosaceae	1				2		1				1	
Rubiaceae				1								
<i>Saxifraga</i>						1						1
Scrophulariaceae	1	1	3		1						1	
Apiaceae		8	2	3	9	2			1	4	6	3

### Torre Mucchia pollen counts – Spores and NPPs

Sample depth (m)	0.6	1	1.2	1.4	3.4	3.6	4	5.2	6	7.6	7.8	8
<i>Polypodium</i>	1		2		1							
<i>Isoetes</i>									1			
Monolete spores						1		2			1	
Trilete spores		6	6	2	6		3	2	2	1		3
<i>Botrychium</i>							1					
<i>Pseudoschizaea</i>								1				
<i>Glomus</i>			2	1	4					1		1
Foraminiferal linings												1
Dinocysts	3	2		3			3				1	1
Indeterminable grains	41	28	12	29	22	16	39	38	19	6	5	15