



Archaeometric approaches to ceramics production and imports in Medieval Cyprus

S.Y. Waksman

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CYPRIOT MEDIEVAL CERAMICS

Reconsiderations and New Perspectives

Edited by
Demetra Papanikola-Bakirtzi
and
Nicholas Coureas



A. G. Leventis Foundation



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Cypriot Medieval Ceramics, Nicosia, 2014, pp. 257-277

ARCHAEOOMETRIC APPROACHES TO CERAMICS PRODUCTION AND IMPORTS IN MEDIEVAL CYPRUS

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Although pottery found on Cyprus has been the subject of many laboratory investigations using chemical analysis (e.g. Jones 1986 for a review until 1983, Rautman *et al.* 1993, Gomez *et al.* 2002, Picon and Blondé 2002, Hatcher 2007), very few were devoted to the medieval period. The pioneer work of Megaw and Jones (1983, Jones 1986) led the way, followed by Megaw, Armstrong and Hatcher (2003, Armstrong and Hatcher 1997) and only a few others, including the author (Waksman 2002, Waksman *et al.* 2003, 2005, Waksman and François 2004-2005, Waksman and von Wartburg 2006, von Wartburg *et al.* 2010, Charalambous *et al.* 2010, 2012). From the early to the post-Medieval periods, research carried out at the “Laboratoire de Céramologie” in Lyon concerned sites in different parts of Cyprus (including the northern part of the island), various categories of ceramics (common and cooking wares, table wares, industrial ceramics), and may refer to data included in the large Lyon database of chemical analyses (e.g. Cypriot late Roman amphorae LRA1, Empereur and Picon 1989) (Fig. 1). In this paper, we would like to both summarize some of the results of

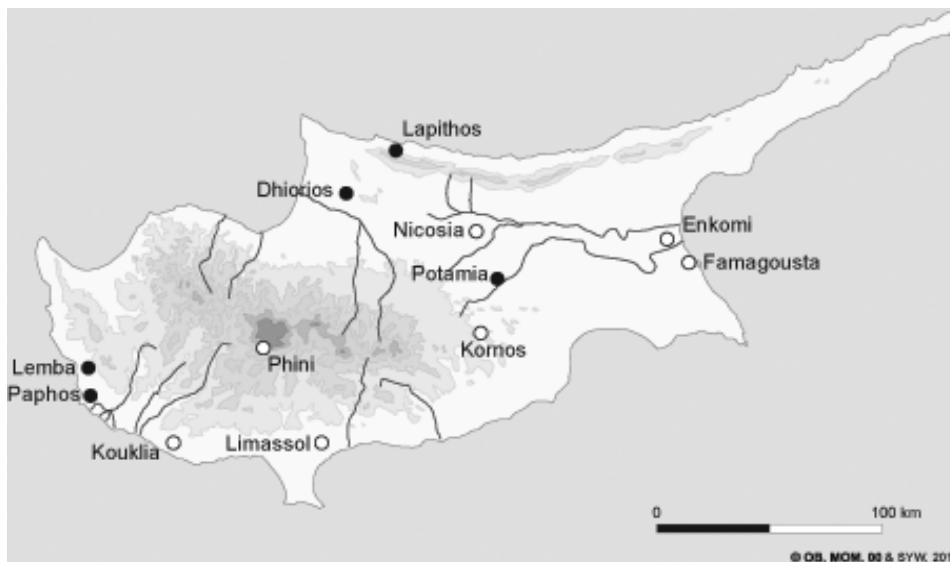


Fig. 1: Pottery production sites on Cyprus presented (black dots) or mentioned (white dots) in the text



this research and present as yet unpublished data, concerning local production and imports on Cyprus.

The circulation of cooking wares in the early Byzantine period (Figs 2-3, Table 1)¹

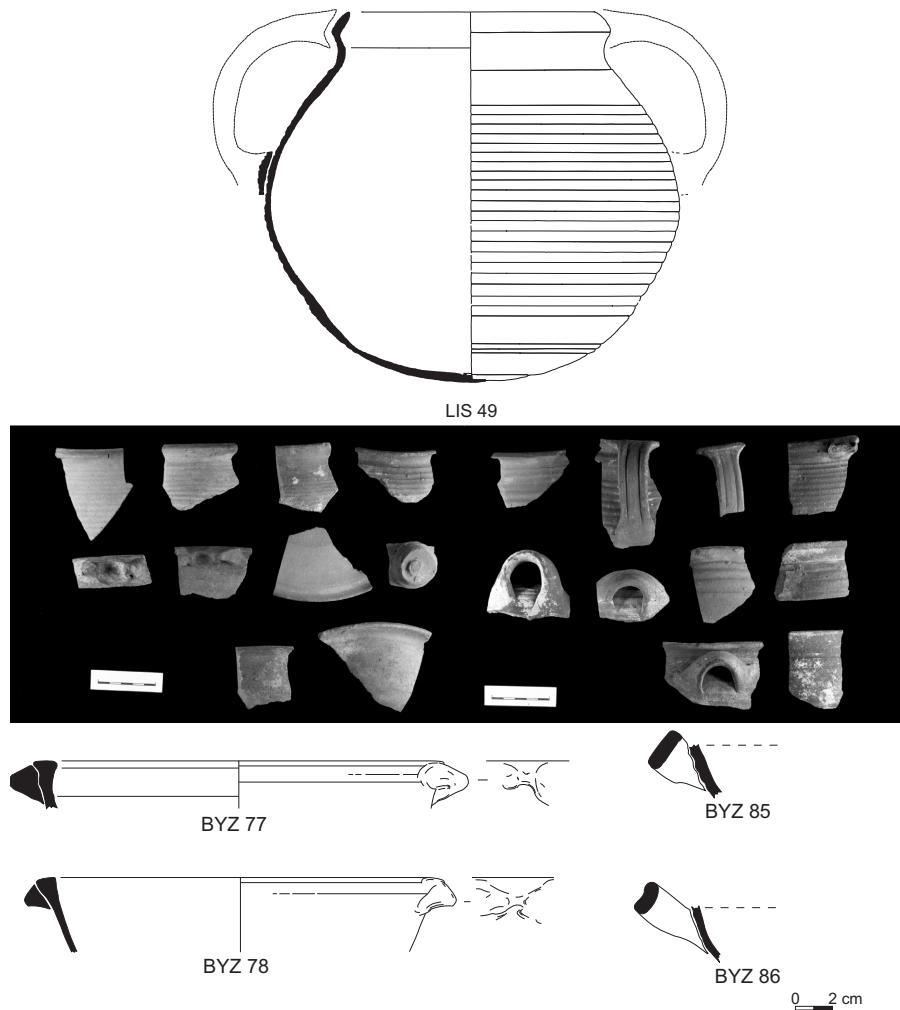


Fig. 2/Colour Pl. XVIIIa: CATHMA 11 type and Dhiarios reference group. Top: example of CATHMA 11 type from Saint-Blaise (J.-C. Tréglia). Middle: samples analyzed from Dhiarios workshop; left (from left to right, top to bottom): BYZ 73, 74, 87, 88, 77, 78, 84, 83, 81, 82; right (from left to right, top to bottom): BYZ 79, 80, 90, 89, 86, 85, 75, 76, 92, 91 (photos Y. Montmessin). Bottom: samples analyzed from Dhiarios workshop (S. Elaigne, C. Brun, S.Y. Waksman). Chemical data are detailed in Waksman *et al.* 2003

1. BYZ, LIS, LEV., numbers refer to Lyon laboratory ids.



ARCHAEOOMETRIC APPROACHES TO CERAMICS PRODUCTION

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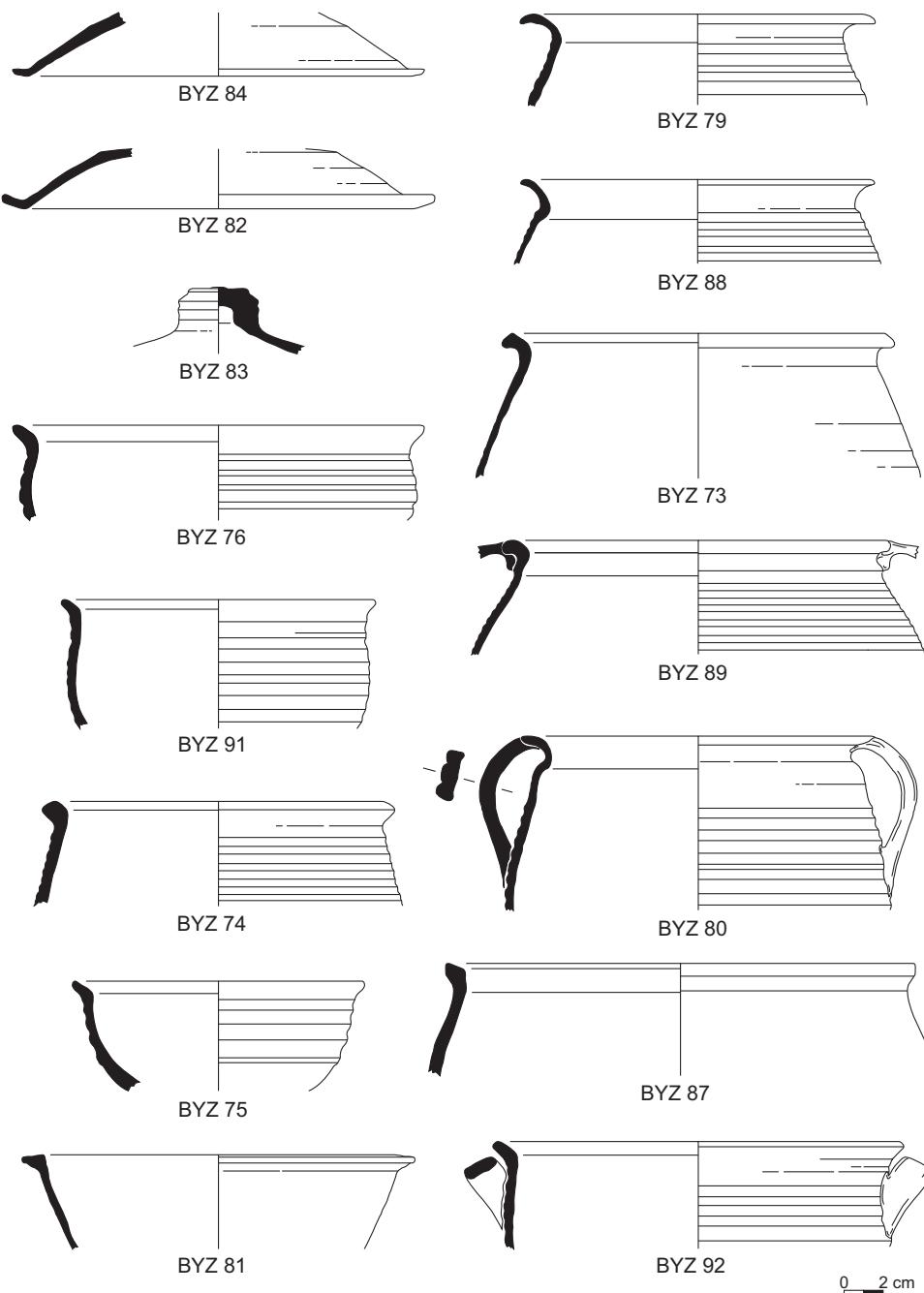


Fig. 3: Dhiorios reference group
 Samples analyzed from Dhiorios workshop (S. Elaigne, C. Brun, S.Y. Waksman)
 Chemical data are detailed in Waksman *et al.* 2003

Name	CaO	Fe ₂ O ₃	TiO ₂	K ₂ O	SiO ₂	Al ₂ O ₃	MgO	MnO (Na ₂ O)(P ₂ O ₅)	Zr	Sr	Rb	Zn	Cr	Ni (La)	Ba	V	Ce	
Dhiorios workshop (n=20, Waksman et al. 2003)																		
m	1.74	10.88	1.031	2.34	60.54	21.13	1.44	0.1357	0.46	0.09	209	123	120	107	708	176	57	348
σ	0.57	0.63	0.060	0.21	1.79	1.23	0.12	0.0206	0.09	0.01	13	27	11	47	186	10	7	18
Crusader Beirut workshops																		
B1 (n=17)																		
m	11.26	9.92	1.777	0.92	61.23	12.97	1.16	0.1053	0.27	0.21	463	195	37	85	144	93	41	225
σ	3.36	0.80	0.158	0.21	4.16	0.99	0.23	0.0179	0.08	0.11	43	43	7	20	13	10	7	44
B2 (n=8)																		
m	1.66	9.92	1.790	0.81	69.89	14.65	0.77	0.1153	0.36	0.16	4777	95	42	90	144	98	51	229
σ	0.55	0.97	0.193	0.23	2.51	1.31	0.07	0.0127	0.19	0.07	36	30	5	14	14	11	8	28
B3 (n=19)																		
m	2.09	8.26	1.790	0.43	73.60	12.66	0.67	0.0528	0.24	0.11	506	76	33	67	129	69	36	143
σ	1.82	0.97	0.178	0.08	3.25	1.02	0.14	0.0094	0.10	0.07	32	25	5	19	15	10	6	61
B4 (n=6)																		
m	11.93	7.98	1.476	0.58	65.42	11.07	0.96	0.0685	0.26	0.16	429	169	29	62	114	62	34	169
σ	2.46	0.51	0.157	0.10	1.62	0.65	0.15	0.0156	0.02	0.07	32	18	5	8	8	5	55	10
B5 (n=8)																		
m	1.19	11.46	2.319	0.66	66.34	16.67	0.79	0.0636	0.23	0.15	515	81	38	90	176	111	52	154
σ	0.26	0.87	0.184	0.08	1.57	1.05	0.08	0.0106	0.05	0.12	24	7	4	15	19	17	4	49
table wares, buff bodies (n=26, Waksman 2011)																		
m	32.14	6.82	1.012	0.68	47.04	9.12	2.05	0.0769	0.47	0.24	292	389	18	63	95	49	24	255
σ	4.96	0.57	0.105	0.23	4.24	0.77	0.86	0.0148	0.23	0.22	30	60	11	7	12	10	4	126

Table 1: Chemical compositions of samples from Dhiorios and from Beirut workshops (groups and sub-groups of red and buff wares in the latter case)
Major and minor elements are given in oxides weight%, trace elements in parts per million (ppm); m: mean, σ.: standard deviation, n: number of samples, ld: detection limit. Elements between brackets are indicative

A first case study focused on types of cooking wares which met with a large diffusion in the whole Mediterranean in the late Roman / early Byzantine period, and were thought to originate from its Eastern part (CATHMA² 1991, Waksman *et al.* 2003, 2005). One of this type, characterized by a concave rim (CATHMA type 11, Fig. 2), had previously been attributed to the Cypriot workshop of Dhiorios (Catling 1972). The publication of the excavations at Dhiorios was of major interest, as an example of workshop specializing in cooking wares, and unfortunately still remains too isolated a case.

The production of Dhiorios had been characterized chemically at the Fitch Laboratory in Athens (Megaw and Jones 1983) and in Lyon (Figs 2-3, Waksman *et al.* 2003). Chemical analyses of examples of CATHMA type 11 as well as of “Levantine” types (CATHMA types 4, 16, 29) found in various sites including Marseille and Beirut, showed that they all originated from the same production site (“Workshop X”), unlikely to be Dhiorios and probably located on the Levantine coast, possibly in the area of Tell Keisan (Waksman *et al.* 2003, 2005, Reynolds and Waksman 2007).³ The result did not disagree with Catling’s publication, as CATHMA type 11 is in fact rare in Dhiorios itself, and may have been present there in a context of consumption and redistribution (warehouses) rather than in pottery dumps (Catling 1972, Waksman *et al.* 2005). Further work showed that CATHMA type 11 was in fact produced in many more workshops, including Cypriot ones (Gabrieli pers. comm.,⁴ Reynolds and Waksman 2007),⁵ but the long distance exports were only attributed to “Workshop X” products so far. It is noticeable that the latter do not seem to include any other category of pottery (fine wares, amphorae).

These results suggested the existence of more workshops specializing, like Dhiorios, in cooking wares, a feature which may be related to the specific technical requirements implied by their function (especially resistance to thermal stress, e.g. Picon 1995, Tite *et al.* 2001). Until recently, specialization occurred in traditional Cypriot workshops such as Kornos and Phini, famous for their common and cooking wares (Ionas 2000). Our study also pointed out the still under-estimated circulation of cooking wares in ancient times, as shown by our next case study as well.

2. The CATHMA association gathers ceramologists interested in the study of late Roman and early Medieval wares (cathma.ass.free.fr).
3. For a detailed typochronology of “Workshop X” production: Waksman *et al.* 2005, Reynolds and Waksman 2007.
4. According to petrographic analyses carried out by J. Gordon-Smith. Forthcoming information by R. S. Gabrieli and J. Gordon-Smith on the Levantine Ceramics Project website: <http://www.levantineceramics.org>.
5. To which extent the diffusion of cooking wares models, which finds another good example at the same period in the so-called sliced-rim casseroles (Waksman *et al.* 2005), also implied the diffusion of specific recipes and/or ways of cooking is under question; see also *infra*, POMEDOR project.



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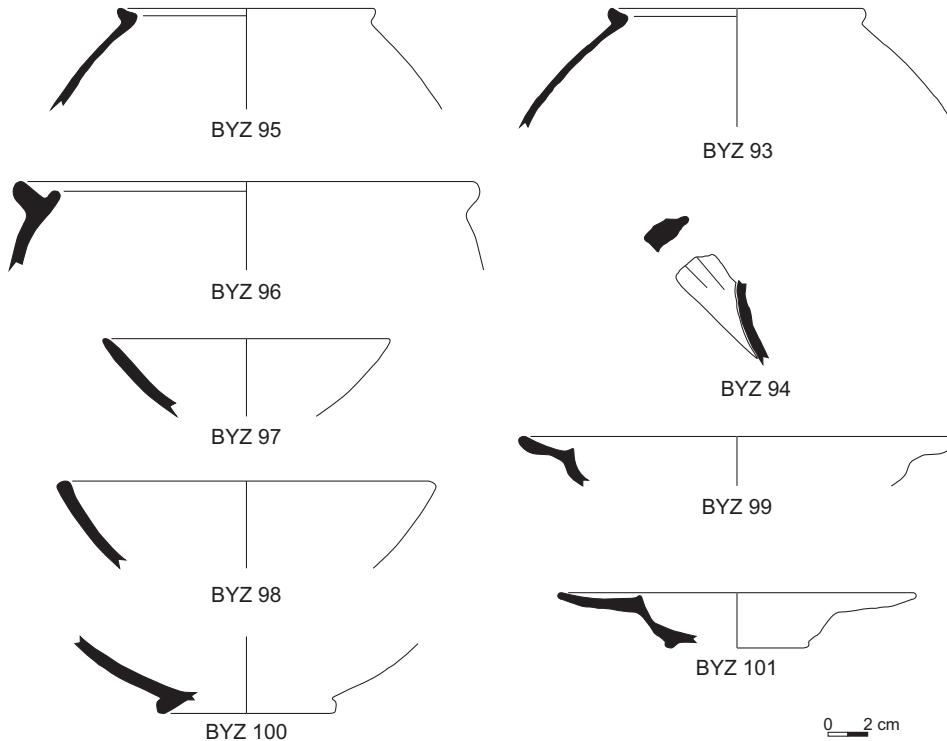


Fig. 4/Colour Pl. XVIIib: Levantine imports on Cyprus
Top: samples analyzed from Saranda Kolones, Levantine imports from Beirut (S. Elaigne, C. Brun, S.Y. Waksman)

Bottom right: samples analyzed from Saranda Kolones, Levantine imports from Beirut (from left to right, top to bottom): LEV 93, 96, 98, 95, 94, 100 (photo Y. Montmessin, not to scale).

Chemical data are detailed in Waksman 2002

Bottom left: example of Beirut ware (LEV356) of "Islamic" type found in Tell Arqa (Lebanon), similar to ceramics found in Nicosia (von Wartburg and Violaris 2009)
(photo S.Y. Waksman, not to scale)





Levantine imports in Cyprus at the Crusader period (Fig. 4, Table 1)

That cooking wares continued to circulate on a fairly large scale in subsequent periods was shown by the diffusion of Beirut products. Both table and cooking wares attributed to the Levantine area were found on Cyprus in significant quantities, especially in the region of Paphos (Megaw 1972, Megaw and Jones 1983, von Wartburg 1997, 1998, Gabrieli 2006, 2007, 2008, von Wartburg and Violaris 2009). Most of them, including sgraffito and reserved-slip table wares, cooking pots and baking dishes (Fig. 4), were shown to originate from the workshops of Beirut (Waksman 2002). Beirut products were very popular at the time in the whole Levantine area (Pringle 1986, Waksman 2002, Stern and Waksman 2003) and beyond (François *et al.* 2003, Waksman *et al.* 2009). Although quantitative data are still rare (Gabrieli 2006, Stern 1997, 2012, Stern and Waksman 2003), cooking wares appear as the dominant category in this diffusion. Other wares (especially slip-painted wares, Fig. 4: BYZ 97 to 100), sharing some common chemical features but seen as the output of distinct, not as yet located, workshop(s), are found associated in the same consumption contexts and probably followed the same trade networks (Waksman 2002, Waksman *et al.* 2008). Information provided by Cypriot sites (e.g. Megaw 1971, 1972, Gabrieli 2006, 2007, 2008, von Wartburg 1998, 2007, von Wartburg and Violaris 2009), together with other consumption contexts in the Levantine area (Stern 1997, 2012, Avissar and Stern 2005), are precious in understanding both these connections and the typo-chronologies of the different wares with greater precision.

“Crusader” Beirut also manufactured table wares of a different technological tradition, more specifically related to the “Islamic” world (Fig. 4, François *et al.* 2003, Waksman forthcoming a). Similar examples were found in Nicosia in twelfth century contexts (von Wartburg and Violaris 2009, von Wartburg *et al.* 2010), together with other possible Beirut products (cooking wares, sgraffito).⁶ Ceramics of “Islamic” type however seem to be rare on Cyprus (von Wartburg *et al.* 2010) when compared to “Levantine” types from Beirut, and especially to imports of Byzantine types.

The Byzantine table wares koine (Figs 5-9, Tables 2-3)

When looking more specifically at table wares, the dominant picture in both local production and imports is that of a territory belonging to the *koine* of Byzantine ceramics (e.g. Papanikola-Bakirtzis 2012). Further connections are seen with some areas of the Levant, especially the region around the gulf of Iskenderun (Alexandretta) and its productions related to the Port Saint Symeon

6. These attributions still need to be confirmed.

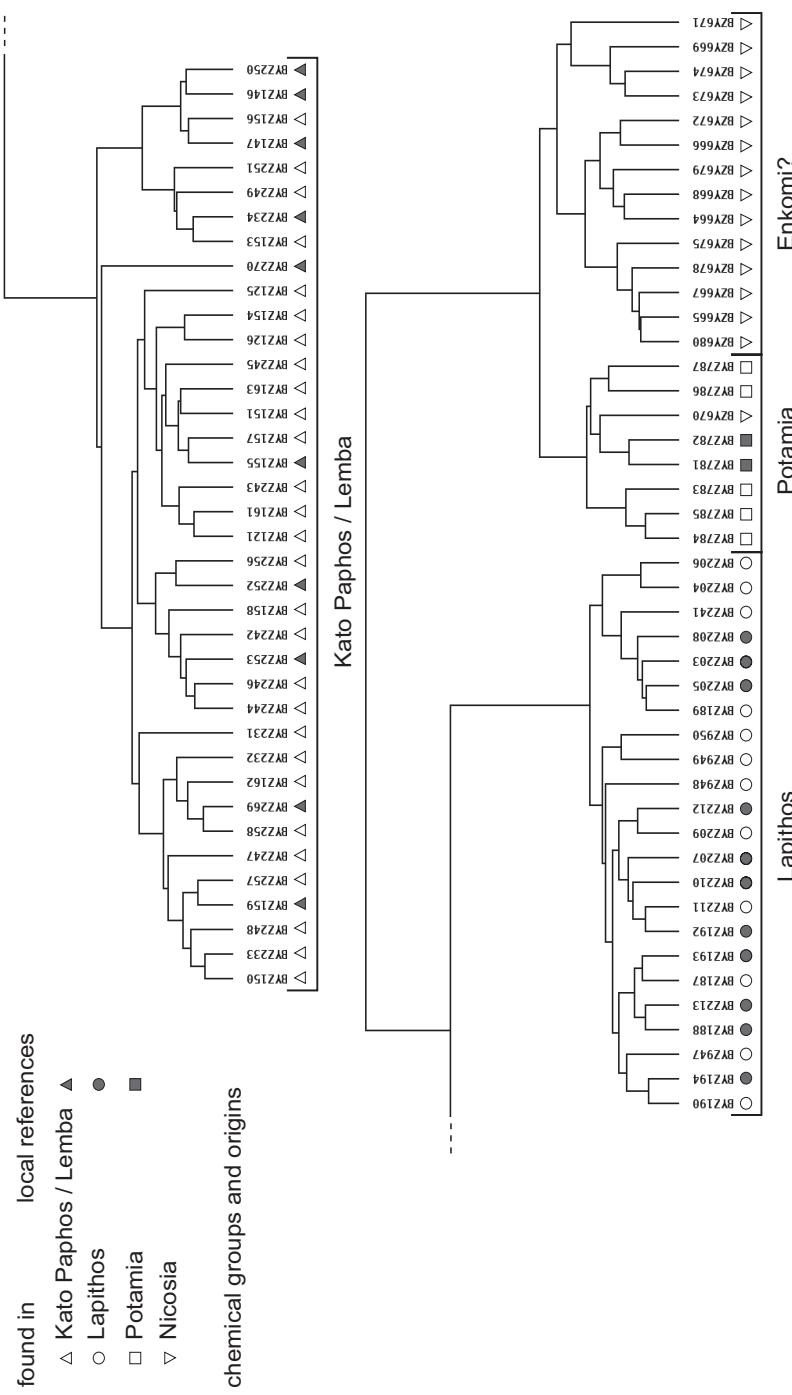


Fig. 5: Classification according to chemical compositions of samples (cf. Figs 6-9 and Table 2) from production contexts in Kato Paphos/Lemba, Lapithos, Potamia and from consumption contexts in the monastery of Saint Theodoros in Nicosia. Samples are identified by their laboratory number. Symbols indicate the site they come from, reference samples for local production (tripod stils and pottery wasters) are pointed out (black symbols). The main compositional groups are underlined, the corresponding origin (Kato Paphos/Lemba, Lapithos and Potamia) or hypothesis of origin (Enkomi?) is indicated

Ware (von Wartburg 2003, 2007, Redford 2004, this volume, Blackman and Redford 2005). The relationships between Cypriot, Byzantine and Levantine wares are complex, and the role of the Cypriot material in the study of the “Byzantine table wares *koine*” *largo sensu* has been fundamental.

Chemical analyses contributed to this study, by re-defining productions on the basis of the composition of the clay material used by the potters. They provided tools for research both on archaeologically attested workshops, and on wares manufactured in workshops not located so far. In the middle, late and post-Byzantine periods, workshops of glazed table wares, decorated with the sgraffito or slip-painting technique, are archaeologically known in or around Paphos, Lapithos, Famagusta and Nicosia⁷ (Megaw and Jones 1983, Papanikola Bakirtzis 1989, 1993,

Potamia, common wares		
BZY781	François and Vallauri 2001	// p. 542 fig. 9 n° 1
BZY782	François and Vallauri 2001	// p. 542 fig. 9 n° 1
BZY783	Vallauri 2004	// p. 232 fig. 1
BZY784	Vallauri 2004	// p. 232 fig. 3
BZY785	Vallauri 2004	// p. 232 fig. 1
	François and Vallauri 2001	// p. 529 fig. 1
BZY787	Vallauri 2004	// p. 234 fig. 4
Lemba, table wares		
BYZ121	von Wartburg 1997	p. 334 fig. 8 CLBF 1.43
BYZ126	von Wartburg 1997	p. 330 fig. 3 CLBF 1.44 ; pl. LXVIII fig. 1 n°1
BYZ151	von Wartburg 1997	p. 330 fig. 7 CLBF 4.2
BYZ153	von Wartburg 1997	p. 330 fig. 3 CLBF 2.27
BYZ158	von Wartburg 1997	p. 330 fig. 7 CLBF 2.20
BYZ159	von Wartburg 1997	p. 330 fig. 7 CLBF 2.21
BYZ161	von Wartburg 1997	p. 334 fig. 6 CLBF 4.3
BYZ163	von Wartburg 1997	p. 330 fig. 4 CLBF 2.32
BYZ231	von Wartburg 1997	p. 332 fig. 5 CLBF 2.25
BYZ233	von Wartburg 1997	p. 334 fig. 8 CLBF 1.28
BYZ234	von Wartburg 1997	p. 330 fig. 4 CLBF 1.1
Kouklia, sugar moulds and molasse jar		
BYZ262	von Wartburg this volume	TST 373.Z1
BYZ263	von Wartburg this volume	// CH 5.Z495
BYZ267	Maier and von Wartburg 1986	// p. 58, pl. XV:2
BYZ291	von Wartburg this volume	TST 277.Z1
BYZ292	von Wartburg this volume	// CH 10.Z1

Table 2: Samples illustrated in other papers

7. Other workshops were mentioned, for instance in Soloi and Limassol, but we do not know about the associated material (Papanikola-Bakirtzi 1996, Violaris pers. comm.).

1996, von Wartburg 1997, Cook and Green 2002, Violaris 2004, François and Vallauri 2010, Green *et al.* forthcoming, Cook this volume). An example of chemical definition and differentiation of Cypriot productions is given by the classification shown in Fig. 5 (see Figs 6-9, Table 2 and annex for information on the samples considered, and on chemical analysis and classification techniques). Samples taken from production contexts in Kato Paphos - Lemba and Lapithos (Figs 6-7, Megaw and Jones 1983, Papanikola-Bakirtzis 1996, von Wartburg 1997, Waksman and

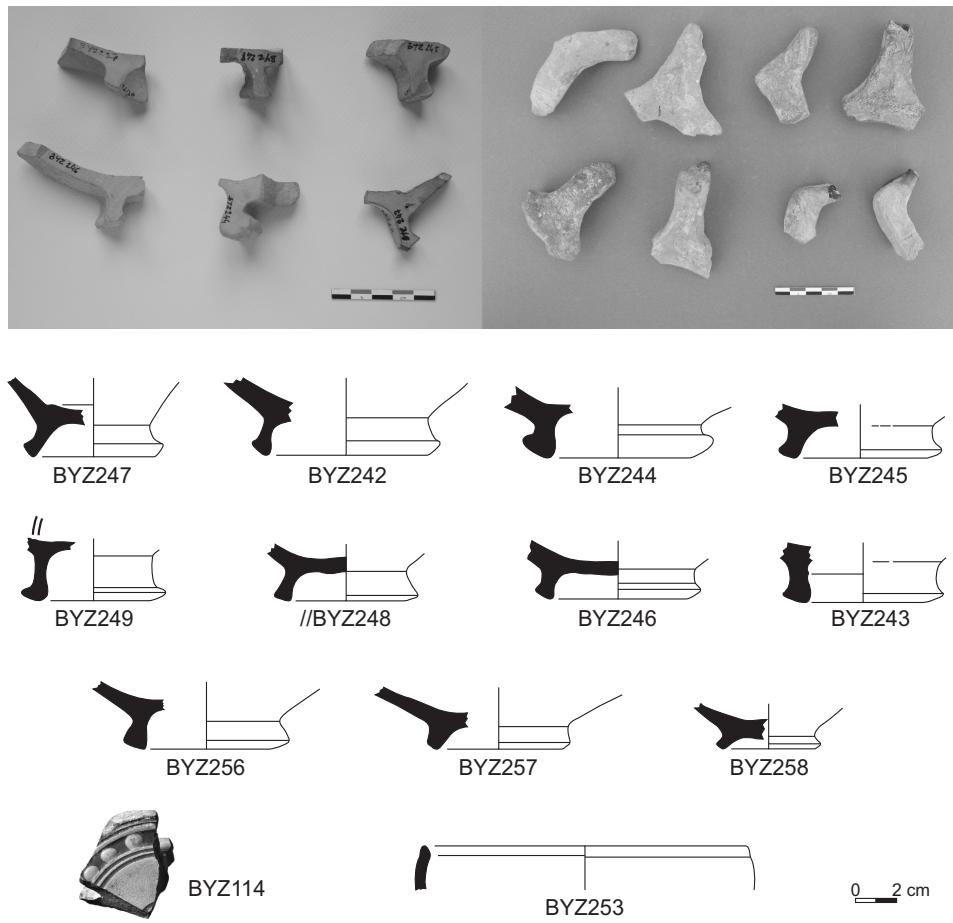


Fig. 6/Colour Pl. XVIIIC: Examples of samples analyzed from Kato Paphos/Lemba workshop.
Top: tripod stilts (right) and sherds showing various fabrics and feet profiles (left)
(photo S.Y. Waksman)
Bottom: examples of profiles (S. Elaigne, C. Brun, S.Y. Waksman) and sample BYZ114
previously related to the "Zeuxippus Ware" *stricto sensu* and shown to belong to the
production of Kato Paphos - Lemba (photo not to scale, after Waksman and François
2004-2005 and von Wartburg 1997)



Fig. 7/Colour Pl. XIXa: Samples analyzed from Lapithos workshop, including tripod stilts and unfinished (biscuit-fired) wares (from left to right, top to bottom): BYZ208, 205, 206, 207, 204, 203, 213, 212, 211, 210, 209 (photo Y. Montmessin)

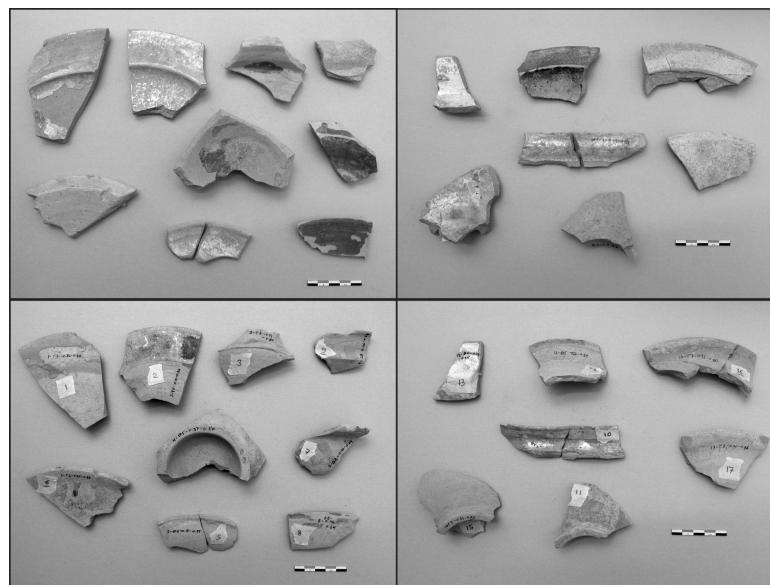


Fig. 8/Colour Pl. XIXb: Samples analyzed from the monastery of Saint Theodoros in Nicosia, front (top) and reverse (bottom) sides (photos S.Y. Waksman)

Left (from left to right, top to bottom): BZY664, 665, 666, 672, 669, 667, 670, 668, 671

Right (from left to right, top to bottom): BZY676, 675, 679, 673, 680, 678, 674

Except for one (BZY670, closer chemically to the production of Potamia), all samples belong to a single chemical group. Their origin is as yet unknown; typological details relate them to ceramics tentatively attributed to Enkomi (Papanikola-Bakirtzis 1989)



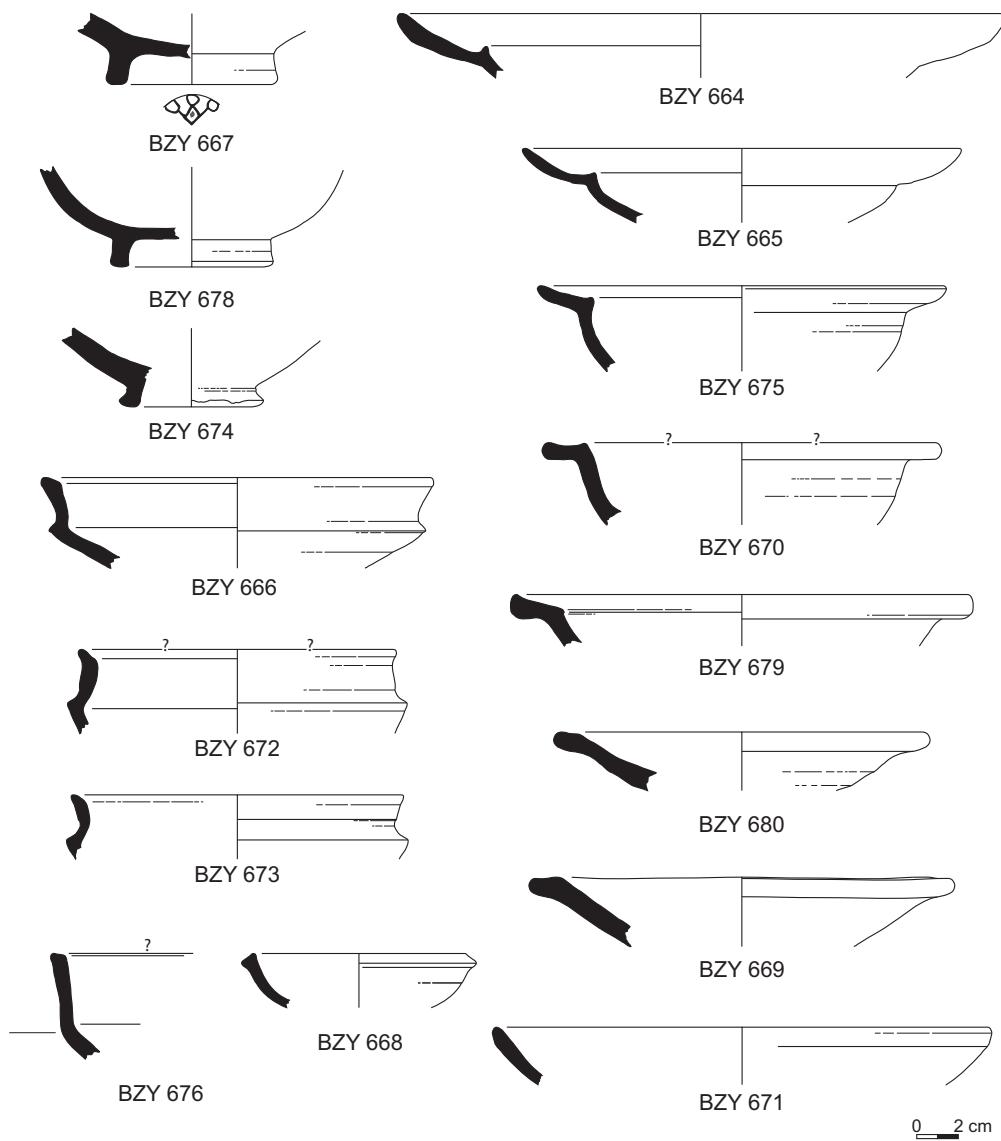


Fig. 9: Samples analyzed from the monastery of Saint Theodoros in Nicosia
(C. Brun, J. Burlot, S.Y. Waksman)



François 2004-2005, Waksman and von Wartburg 2006) may easily be differentiated from a group of samples coming from consumption contexts in the Cistercian monastery of Saint Theodoros in Nicosia (Figs 8-9, Flourentzos 2004-2005).⁸ The latter are characterized by the frequent use of a red slip over a buff body (Fig. 8), similar to examples tentatively associated by Papanikola-Bakirtzis (1989) with workshops in Enkomi.⁹ They are closer chemically to common wares manufactured in Potamia¹⁰ (François and Vallauri 2001, Vallauri 2004, Table 2), a feature which would be explained by the location of both Enkomi and Potamia in the alluvial plain of the Gialias river (Devillers *et al.* 2006). The identification of this new chemical group to the production of Enkomi needs to be confirmed by further research. But the attribution to this production of different wares, such as the so-called “wedding bowls” for instance, may already be tested.

The constitution of chemical reference groups previously gave us the opportunity to address various hypotheses concerning Cypriot workshops. Wares initially integrated by A.H.S. Megaw in his definition of the type “Zeuxippus Ware” (Megaw 1968) were separated by chemical analyses from the “Zeuxippus Ware *stricto sensu*” and attributed to the area of Paphos (e.g. Fig. 6 BYZ114, Waksman and François 2004-2005). Conversely, the tentative attribution to Cyprus of several Byzantine types widespread in the twelfth and thirteenth centuries (Boas 1994, Blackman and Redford 2005), such as the “Zeuxippus Ware” and the main “Middle Byzantine Production”, including “Fine Sgraffito Ware”, “Aegean Ware” and others, was reconsidered and other hypotheses of origin tested or put forward (Waksman and François 2004-2005, Waksman and von Wartburg 2006, Waksman *et al.* forthcoming). In the case of the main “Middle Byzantine Production”, samples from Cypriot sites played an essential role in showing that different types, previously unrelated and treated as separate productions in reports and publications, originated in fact from the same workshop(s) (Waksman and von Wartburg 2006).

The diffusion of Cypriot wares is well attested in the Eastern Mediterranean and occasionally reached more distant areas such as the Western Mediterranean and the Black sea, as indicated for instance by examples found in Marseille and in the Novy Svet shipwreck (Vallauri and Démians d’Archimbaud 2003, Waksman *et al.* 2009). Next to the typical Cypriot types, wares found in large

8. Ceramics from these contexts, excavated by E. Zachariou-Kaila, were recently presented, together with material from other excavations in Nicosia, in the exhibition “Fragments: Ceramic finds from Byzantine and Medieval Nicosia” (Department of Antiquities of Cyprus and Leventis Municipal Museum of Nicosia). Ceramic material from Saint Theodoros will be published by R.S. Gabrieli (in preparation).

9. This association was based on visual similarity with reference material from Enkomi.

10. A detailed presentation of the Potamia results is forthcoming.

quantities in Crusader Acre, initially related to Paphos wares and to the “Zeuxippus family”, were shown to differ chemically from them (Stern and Waksman 2003, Waksman *et al.* 2008) and attributed to the workshop of Anaia/Kadikalesi in Western Asia Minor (Waksman 2013).

Different ceramic products, different clay materials: examples from the Paphos area (Figs 6, 10-11, Tables 2-4)

Pottery manufacture took place in different locations in the area of Paphos. For the “late” periods, evidence of production was found for late Roman amphorae LRA1 in Kato Paphos (Fig. 10, Karagheorgis 1989, Demesticha and Michaelides 2001); for medieval glazed wares at the site of Fabrika in Paphos (Green and Cook 2002, Green *et al.* forthcoming, Cook this volume), in the nearby village of Lemba (Papanikola Bakirtzis 1993, 1996, von Wartburg 1997) and possibly in Palaipaphos/Kouklia (von Wartburg 1997); for sugar pots at the cane sugar refinery of the latter site (Maier 1978, von Wartburg 2010) and possibly in Lemba. For these three categories of pottery - table wares, amphorae, industrial ceramics -, different clayey materials were used, and probably at least to some extent chosen according to the function of the wares. For instance sugar moulds, for which porosity plays an important role in the sugar production

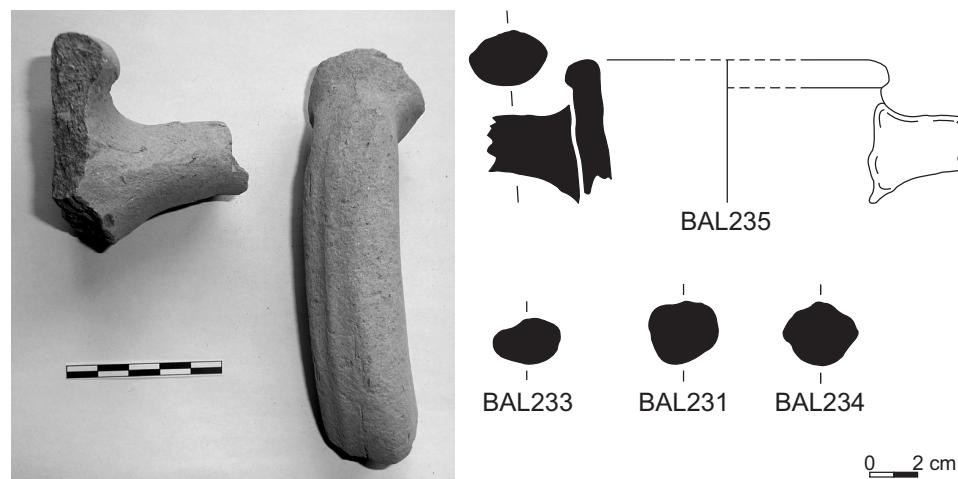


Fig. 10: Samples analyzed from Paphos LRA1 amphorae workshop (Lyon database, Empereur and Picon prospectings)

Left: samples BAL236 (left), BAL231 (right) (photo S.Y. Waksman, courtesy M. Picon and J.-Y. Empereur).

Right: rim and handle profiles (C. Brun)

ARCHAEOMETRIC APPROACHES TO CERAMICS PRODUCTION

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Name	CaO	Fe ₂ O ₃	TiO ₂	K ₂ O	SiO ₂	Al ₂ O ₃	MgO	MnO	[Na ₂ O]	[P ₂ O ₅]	Zr	Sr	Rb	Zn	Cr	Ni	(La)	Ba	V	Ce
Paphos / Lemba workshop																				
BYZ150	4.34	6.89	0.841	3.83	64.44	16.18	2.49	0.0491	0.57	0.15	187	211	169	92	96	62	39	429	128	83
BYZ233	5.46	6.51	0.847	3.78	63.82	15.88	2.51	0.0474	0.82	0.16	187	217	163	89	87	58	31	376	127	86
BYZ248	5.12	6.79	0.823	3.75	63.92	15.71	2.54	0.0613	0.89	0.19	177	210	153	93	82	57	39	458	125	91
BYZ159	5.33	7.03	0.808	3.67	63.85	15.94	2.50	0.0487	0.53	0.14	174	202	173	91	96	57	42	352	122	85
BYZ257	4.84	6.80	0.807	3.83	64.13	15.95	2.47	0.0459	0.72	0.16	168	193	162	93	88	65	45	352	130	94
BYZ247	4.89	6.35	0.859	3.70	64.53	16.14	2.38	0.0444	0.73	0.19	198	210	162	92	84	56	39	448	134	99
BYZ258	7.09	6.03	0.809	3.51	64.35	14.87	2.18	0.0281	0.79	0.13	198	191	145	82	81	50	38	406	114	87
BYZ269	6.78	6.03	0.809	3.38	64.45	15.15	2.24	0.0301	0.75	0.14	189	215	142	86	92	53	46	477	112	82
BYZ162	5.95	6.44	0.827	3.55	64.38	15.52	2.43	0.0410	0.51	0.18	201	215	162	85	84	53	39	489	111	90
BYZ232	7.50	6.30	0.826	4.03	61.88	15.46	2.64	0.0525	0.85	0.19	199	290	150	87	99	63	38	456	117	87
BYZ231	1.88	6.75	0.870	3.81	68.57	14.71	2.25	0.0415	0.80	0.14	225	174	158	82	74	56	50	363	132	95
BYZ244	9.02	6.05	0.785	3.68	62.80	13.98	2.28	0.0525	0.92	0.18	191	297	139	78	89	51	40	383	104	84
BYZ246	9.01	5.85	0.777	3.35	63.28	14.14	2.23	0.0371	0.82	0.19	198	251	129	83	76	57	38	420	110	85
BYZ253	8.06	6.08	0.772	3.40	63.29	14.36	2.33	0.0557	0.82	0.16	171	229	120	76	77	48	38	383	111	84
BYZ242	7.85	5.78	0.795	3.62	63.41	14.81	2.44	0.0558	0.76	0.19	186	305	145	86	81	54	42	317	124	86
BYZ158	8.79	5.75	0.763	3.12	64.35	14.07	2.18	0.0359	0.61	0.14	203	253	137	77	80	46	33	505	106	80
BYZ252	13.29	6.32	0.773	3.39	58.06	14.12	2.64	0.0727	0.79	0.31	186	389	121	89	133	105	38	435	103	82
BYZ256	12.03	6.13	0.775	3.39	60.20	14.03	2.26	0.0399	0.78	0.16	188	351	121	84	144	71	29	364	113	83
BYZ121	2.50	6.20	0.797	3.74	67.63	15.10	2.79	0.0612	0.79	0.14	194	139	151	91	68	62	43	349	96	104
BYZ161	2.77	6.29	0.819	3.68	67.63	15.21	2.61	0.0693	0.61	0.16	211	150	158	92	71	63	39	342	93	112
BYZ243	5.82	6.33	0.801	3.65	65.31	14.44	2.45	0.0616	0.79	0.16	196	211	140	87	66	60	40	432	99	99
BYZ155	4.35	6.32	0.765	3.67	66.80	14.61	2.53	0.0702	0.50	0.16	190	203	150	88	70	59	41	413	86	91
BYZ157	7.26	5.79	0.770	3.43	65.31	14.14	2.33	0.0716	0.48	0.26	195	266	148	85	71	57	39	394	94	85
BYZ151	5.63	6.47	0.802	3.28	65.90	14.81	2.17	0.0633	0.55	0.18	195	217	149	86	79	55	36	364	100	83
BYZ163	2.78	6.01	0.788	3.75	68.22	14.91	2.60	0.0554	0.53	0.13	191	137	158	86	74	56	42	344	103	89
BYZ245	4.97	5.82	0.769	3.47	67.30	14.00	2.39	0.0904	0.79	0.24	191	181	140	88	64	65	48	337	79	100
BYZ126	1.44	5.72	0.805	3.31	71.49	13.86	2.37	0.0535	0.67	0.12	218	124	140	88	68	63	45	332	92	103
BYZ154	2.68	5.84	0.816	3.51	69.75	14.04	2.27	0.0480	0.65	0.14	220	170	139	82	66	34	353	95	88	
BYZ125	4.59	6.76	0.774	4.02	64.45	15.67	2.82	0.0718	0.44	0.22	170	239	169	96	83	58	48	355	98	95
BYZ270	7.78	6.39	0.775	3.08	63.25	14.78	2.65*	0.1261	0.77	0.16	168	276	119	84	114	71	44	320	130	82
BYZ153	6.83	6.17	0.736	3.70	64.71	14.47	2.48	0.0760	0.47	0.18	172	225	157	82	82	51	42	380	97	87
BYZ234	8.81	5.90	0.718	3.69	63.27	13.91	2.50	0.0739	0.66	0.15	169	225	136	81	69	51	39	317	92	88
BYZ249	4.14	5.74	0.745	3.59	68.03	14.11	2.58	0.0536	0.72	0.13	171	134	145	81	67	54	37	316	105	85
BYZ251	5.98	5.70	0.723	3.49	65.74	13.84	2.61	0.0664	0.76	0.15	158	169	110	78	70	50	40	339	91	95
BYZ147	12.37	6.00	0.692	3.29	60.96	13.22	2.56	0.0814	0.44	0.14	171	316	131	78	70	55	40	358	79	89
BYZ156	11.57	5.90	0.668	3.35	62.23	13.12	2.18	0.0679	0.56	0.13	158	290	133	68	73	46	34	355	86	80
BYZ146	13.48	5.36	0.686	3.12	60.98	13.01	2.35	0.0701	0.47	0.12	157	305	122	69	78	43	35	350	102	77
BYZ250	11.72	5.18	0.688	3.42	62.26	13.00	2.43	0.0689	0.70	0.15	160	383	119	73	70	46	28	353	82	85
m	6.70	6.15	0.782	3.55	64.60	14.61	2.44	0.0571	0.68	0.17	186	231	144	84	82	58	39	382	106	89
σ	3.21	0.42	0.048	0.23	2.70	0.88	0.17	0.0147	0.14	0.04	17	66	16	7	17	10	5	51	16	8
Lapithos workshop																				
BYZ190	10.60	8.14	0.799	3.37	53.04	17.23	5.39	0.1003	0.77	0.22	167	193	142	*183	175	174	37	682	135	85
BYZ194	9.70	8.16	0.804	3.34	53.56	17.38	5.69	0.0900	0.81	0.20	177	187	141	120	171	167	35	650	146	81
BYZ297	9.21	8.09	0.820	3.53	53.18	17.89	5.67	0.1144	1.02	0.23	175	196	143	118	166	143	56	725	143	91
BYZ188	11.82	8.00	0.791	3.30	51.41	17.18	6.13	0.1034	0.83	0.21	167	217	137	115	163	152	33	657	129	89
BYZ213	12.50	7.73	0.773	3.38	51.26	16.94	5.97	0.1078	0.80	0.20	167	232	140	109	158	134	38	697	132	83
BYZ187	11.96	7.92	0.786	3.33	51.09	17.24	6.39	0.1070	0.71	0.20	169	226	135	114	154	131	36	570	139	89
BYZ193	12.73	7.88	0.781	3.29	50.16	17.36	6.41	0.1074	0.74	0.18	161	225	129	112	160	131	34	649	154	94
BYZ192	10.06	7.77	0.782	3.35	53.47	16.99	6.16	0.1010	0.77	0.28	167	172	138	109	151	163	42	796	146	81
BYZ211	10.27	7.88	0.786	3.31	53.27	17.06	5.87	0.1059	0.88	0.23	169	201	140	111	160	152	36	784	126	82
BYZ210	12.81	7.87	0.778	3.17	52.34	16.41	5.16	0.1132	0.80	0.26	167	204	127	112	161	160	30	726	143	81
BYZ207	11.08	7.65	0.768	3.02	54.23	16.25	5.67	0.0851	0.78	0.22	170	177	125	121	161	159	40	810	150	84
BYZ209	11.40	7.53	0.788	3.16	54.11	16.29	5.18	0.0988	0.83	0.26	187	184	129	109	171	151	37	700	132	85
BYZ212	11.94	7.41	0.780	3.04	53.62	15.69	5.94	0.1004	0.86	0.25	184	192	120	112	185	170	35	707	117	83
BYZ298	9.34	7.95	0.812	3.19	53.46	17.41	5.29	0.1075	1.03	0.21	164	173	96	114	177	145	40	706	144	86
BYZ299	10.82	8.01	0.771	3.08	53.27	16.16	6.17	0.1061	1.09	0.21	167	209	129	115	212	20				

Name	CaO	Fe ₂ O ₃	TiO ₂	K ₂ O	SiO ₂	Al ₂ O ₃	MgO	MnO (Na ₂ O) (P ₂ O ₅)	Zr	Sr	Rb	Zn	Cr	Ni	(La)	Ba	V	Ce		
Potamia workshop																				
BYZ784	19.18	8.38	0.792	2.05	47.35	14.19	5.79	0.1255	1.79	0.17	114	605	59	85	235	171	<ldd	252	170	52
BYZ785	18.97	8.58	0.798	1.70	47.27	14.19	5.95	0.1235	2.07	0.17	112	569	58	84	245	169	<ldd	313	173	55
BYZ783	18.97	8.25	0.777	2.27	47.97	13.98	5.50	0.1188	1.79	0.18	111	735	67	94	227	162	<ldd	252	180	54
BYZ781	20.16	7.85	0.734	1.85	47.86	13.18	6.19	0.1247	1.72	0.17	115	420	65	85	280	181	<ldd	205	167	56
BYZ782	21.54	7.82	0.725	1.73	47.50	12.52	6.09	0.1296	1.62	0.16	104	491	51	86	256	149	<ldd	236	173	50
BYZ670	22.18	7.80	0.750	2.30	46.63	13.34	5.06	0.1390	1.26	0.26	122	588	68	103	256	169	<ldd	322	191	48
BYZ786	19.90	7.61	0.778	1.28	48.21	13.55	5.95	0.1224	2.22	0.19	126	562	49	77	322	180	<ldd	256	160	59
BYZ787	17.02	7.94	0.760	1.63	50.94	13.62	5.80	0.1442	1.82	0.13	103	471	46	84	353	160	<ldd	259	174	52
m	19.74	8.03	0.764	1.85	47.97	13.57	5.79	0.1285	1.79	0.18	113	555	58	87	272	168	nd	262	174	53
σ	1.62	0.34	0.027	0.34	1.30	0.57	0.36	0.0088	0.29	0.04	8	97	8	8	44	11	nd	38	9	3
Enkomi ?																				
BYZ680	23.51	7.31	0.735	1.95	47.02	12.64	4.46	0.1480	1.72	0.19	118	558	58	97	249	149	<ldd	330	152	68
BYZ665	22.13	7.53	0.754	2.04	47.54	13.13	4.54	0.1519	1.60	0.24	118	557	60	104	246	143	<ldd	339	160	77
BYZ667	24.52	7.57	0.742	1.73	45.84	12.97	4.45	0.1510	1.46	0.19	125	589	52	94	252	156	<ldd	297	150	79
BYZ678	21.25	7.54	0.751	2.15	48.61	12.97	4.66	0.1482	1.46	0.21	125	555	67	101	258	158	<ldd	241	150	83
BYZ675	24.27	7.11	0.726	2.11	46.95	12.55	4.38	0.1450	1.33	0.18	126	678	68	91	286	165	<ldd	340	146	67
BYZ664	28.84	6.44	0.663	1.86	43.76	11.87	4.20	0.1513	1.36	0.23	131	591	49	87	262	168	<ldd	367	144	68
BYZ668	26.58	6.43	0.663	2.29	45.94	11.78	4.23	0.1406	1.19	0.24	131	707	58	91	266	165	<ldd	374	164	62
BYZ679	25.94	6.87	0.693	1.93	45.94	12.03	4.59	0.1512	1.43	0.22	115	546	59	92	241	152	<ldd	279	152	61
BYZ666	25.25	6.80	0.699	1.77	45.49	12.49	4.97	0.1514	1.45	0.39	125	665	55	86	261	156	<ldd	440	166	69
BYZ672	25.15	6.96	0.721	2.11	45.16	12.90	4.83	0.1353	1.33	0.34	123	640	59	99	236	151	<ldd	412	187	58
BYZ673	28.94	6.16	0.676	1.99	43.49	12.15	4.83	0.1287	1.12	0.22	120	659	50	92	217	159	<ldd	347	153	51
BYZ674	29.46	6.33	0.680	1.93	43.00	12.06	4.77	0.1301	1.15	0.17	123	811	56	89	220	148	<ldd	271	163	40
BYZ669	29.91	7.02	0.664	1.77	41.25	11.71	5.73	0.1402	1.28	0.18	111	839	55	93	201	135	<ldd	254	148	46
BYZ671	25.13	7.06	0.716	2.15	45.74	12.63	4.30	0.1472	1.49	0.31	129	645	64	96	261	159	<ldd	377	136	28
m	25.78	6.94	0.706	1.98	45.41	12.42	4.64	0.1443	1.38	0.24	123	646	58	94	247	155	nd	333	155	61
σ	2.70	0.46	0.033	0.17	1.96	0.48	0.39	0.0081	0.17	0.07	6	92	6	5	22	9	nd	59	12	16

Table 3: Chemical compositions of samples from Kato Paphos - Lemba, Lapithos, Potamia and Nicosia, samples are ranked as in the classification (Fig. 5).

Major and minor elements are given in oxides weight %, trace elements in parts per million (ppm); m: mean, σ : standard deviation, n: number of samples, ld: detection limit, nd: not determined. Elements between brackets are indicative.

Data for Paphos and Lapithos were previously published in Waksman and François (2004-2005) and Waksman and von Wartburg (2006)

process, seem to be preferably made out of calcareous clays (Fig. 11, Table 4).¹¹ Amphorae are made out of even more calcareous materials, and are further characterized by variable but usually high concentrations in strontium, which differentiate them from Cilician LRA1 (Waksman *et al.* 2014), and in chromium, probably due to minerals brought by streams from the nearby Troodos mountains (Table 4). In contrast, table wares do not have any ultra-basic features and are less calcareous, whether made in Kato Paphos - Lemba, in Nea Paphos - Fabrika or coming from Palaipaphos - Kouklia. The clayey material used for table wares is fairly variable (also in fabric, see Fig. 6 top left), especially in its contents of calcium and related elements, as may be seen within our sampling from Paphos/Lemba only (Fig. 5, Table 3). However, samples from the three sites are all included in the same range of compositions: they do not seem to

11. Further archaeometric research on Cypriot and Levantine sugar pots will be carried out in the framework of the POMEDOR project, see *infra*.



Name	CaO	Fe ₂ O ₃	TiO ₂	K ₂ O	SiO ₂	Al ₂ O ₃	MgO	MnO(Na ₂ O)(P ₂ O ₅)	Zr	Sr	Rb	Zn	Cr	Ni (La)	Ba	V	Ce			
Kouklia and Lemba sugar pots																				
BYZ259	29.43	6.57	0.580	1.91	44.90	11.72	3.80	0.1568	0.52	0.18	109	763	40	85	121	102	28	614	127	57
BYZ260	19.62	6.13	0.560	1.78	55.98	11.47	3.20	0.2162	0.72	0.16	113	496	47	79	154	98	20	369	124	59
BYZ261	22.85	8.73	0.683	1.26	45.53	13.76	5.43	0.1300	0.29	0.14	89	732	38	102	188	86	22	319	182	48
BYZ262	17.42	6.66	0.634	2.07	55.76	13.08	3.15	0.1391	0.71	0.19	115	671	57	89	109	93	28	481	137	60
BYZ263	5.77	8.96	0.786	2.52	59.13	17.35	3.53	0.0882	1.61	0.12	97	292	57	86	141	77	22	177	206	51
BYZ264	18.32	8.86	0.670	1.78	50.54	13.97	4.10	0.1111	1.30	0.17	92	683	44	86	159	85	19	268	193	42
BYZ265	16.30	8.56	0.734	1.91	51.65	14.69	4.52	0.1138	1.19	0.13	108	678	53	99	177	88	22	411	181	44
BYZ266	25.28	8.11	0.638	1.54	45.48	12.66	4.64	0.1205	1.16	0.19	85	780	41	93	148	77	16	273	168	43
BYZ267	12.98	9.07	0.721	1.97	54.32	15.40	3.81	0.1159	1.28	0.16	105	551	49	71	154	92	18	164	207	59
BYZ268	11.48	10.14	0.751	1.54	53.49	17.06	3.86	0.1318	1.24	0.13	96	466	47	93	144	97	27	347	206	52
BYZ269	14.11	8.86	0.509	2.05	50.90	15.48	6.45	0.1147	1.28	0.08	55	650	42	121	142	82	13	246	186	38
BYZ270	11.54	8.42	0.805	1.76	56.62	15.15	3.96	0.1112	1.26	0.14	117	484	54	95	191	89	27	713	188	43
BYZ272	16.02	8.85	0.695	1.29	53.08	14.39	4.02	0.1236	1.19	0.13	101	722	44	79	149	92	15	431	177	40
BYZ293	15.88	9.36	0.719	1.55	51.33	14.98	4.56	0.1258	1.21	0.11	110	626	53	94	153	92	25	144	203	53
Paphos LRA1 workshop																				
BA1222	29.03	5.51	0.488	1.24	47.87	10.11	3.73	0.2930	1.25	0.28	98	648	59	75	405	104	<ldd	260	107	40
BA1223	25.01	7.27	0.661	1.18	48.61	11.33	3.92	0.1648	1.51	0.16	108	781	34	73	246	95	<ldd	277	137	51
BA1224	22.53	6.16	0.540	1.14	50.90	11.12	5.79	0.2876	1.16	0.21	95	671	33	76	202	110	<ldd	262	110	46
BA1225	26.88	6.44	0.527	1.23	48.64	10.97	3.22	0.2155	1.47	0.23	96	748	44	78	247	92	<ldd	246	131	49
BA1226	24.08	6.72	0.547	1.21	50.48	11.42	3.41	0.2296	1.44	0.26	102	690	47	69	634	103	<ldd	223	135	41
BA1227	26.30	6.14	0.537	1.29	49.51	10.96	3.36	0.2637	1.24	0.23	98	693	50	68	273	107	<ldd	266	115	51
BA1228	24.58	6.57	0.536	1.21	50.19	11.40	3.56	0.2483	1.31	0.21	91	718	40	79	343	116	<ldd	270	133	52
BA1229	25.44	6.66	0.545	1.20	49.06	11.37	3.57	0.2451	1.48	0.24	92	661	40	79	477	108	<ldd	298	135	48
BA1230	24.93	6.94	0.582	1.11	48.91	11.29	4.21	0.2373	1.31	0.23	97	691	36	77	999	107	<ldd	257	123	54
BA1231	27.13	6.59	0.548	1.24	47.52	11.31	3.58	0.2353	1.40	0.26	94	746	52	76	339	97	<ldd	292	110	44
BA1233	24.97	6.33	0.551	1.23	50.38	11.23	3.45	0.2517	1.21	0.24	101	654	34	81	186	112	<ldd	209	122	45
BA1234	24.80	6.34	0.559	1.33	50.14	11.31	3.61	0.2674	1.21	0.26	103	703	43	81	223	109	<ldd	239	124	45
BA1235	26.78	6.70	0.539	1.15	47.94	11.24	3.56	0.2288	1.38	0.29	82	688	50	69	605	101	<ldd	257	120	52
m	25.57	6.49	0.551	1.21	49.24	11.16	3.77	0.2437	1.34	0.24	97	699	43	75	398	105	nd	258	123	48
σ	1.64	0.43	0.039	0.06	1.11	0.35	0.66	0.0329	0.12	0.03	6	40	8	4	232	7	nd	25	10	4

Table 4: Chemical compositions of samples from Paphos LRA1 workshop and of sugar pots and jars from Kouklia and Lemba. Major and minor elements are given in oxides weight %, trace elements in parts per million (ppm); m: mean, σ : standard deviation, n: number of samples, ld: detection limit, nd: not determined. Elements between brackets are indicative

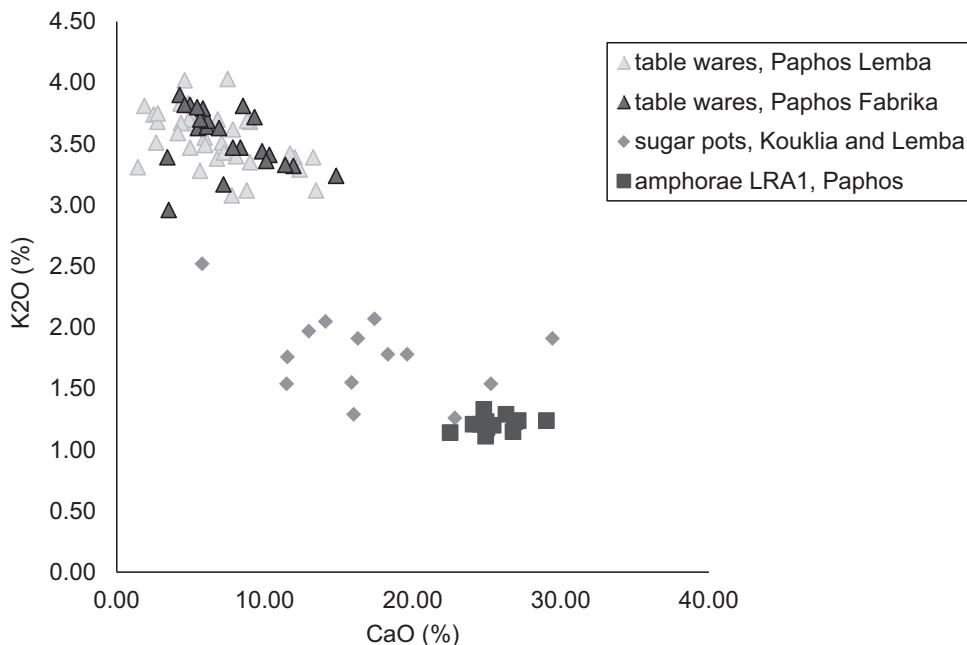


Fig. 11: Productions of the region of Paphos, binary plot calcium - potassium. The diagram shows that different clayey materials were used to manufacture table wares, amphorae, and sugar pots and jars. The latter request further study, as they are very heterogeneous and only a few of them correspond to wasters. Other chemical elements further differentiate them from amphorae, but do not enable us to distinguish between table wares produced in the workshops of Lemba and Fabrika. The variability of calcium contents in table wares is noticeable (see also Fig. 5 and Table 3)

differ chemically in a significant way within this range (Fig. 11).¹² We thus refer to them as “production of the Paphos region” or “Paphos Ware”.

To sum up, in different locations in or around the present city of Paphos similar clayey materials were used to manufacture table wares; on the other hand, materials showing very different chemical features were taken in Paphos to produce different categories of pottery. The latter point, well known for cooking wares, may have been under-estimated for other categories. This example of a rather complex situation reminds one that a single location may have several geochemical “signatures”. It calls for more caution when using chemical reference groups, especially when they do not directly correspond to the wares under study.

12. A detailed presentation of the Fabrika and Kouklia results is forthcoming.



Concluding remarks and further perspectives

Research carried out on ceramics found on Cyprus have been essential in building up our knowledge on medieval ceramics, whether table wares, cooking wares, amphorae or others. Even though many questions still remain open, it has contributed to establishing several results regarding pottery production and diffusion, trade networks, cross influences, some of which have been summarized here. Chemical analyses contributed to this study, by re-defining productions on the basis of the composition of the clay material used by the potters. They helped in distinguishing Cypriot products from imports, identifying typological repertoires and in ascertaining more precisely which types were associated within a same production. In addition, they provided information regarding organization of production, and diffusion of wares, models and techniques. Studies carried out on Cypriot samples contributed for instance in re-defining the main “Middle Byzantine production” and “Zeuxippus related wares”. Chemical reference groups for workshops in the region of Paphos, in Lapithos, Potamia, Dhiorios and elsewhere¹³ have been used and are available to test further hypotheses, as well as groups corresponding to workshops whose location still has to be identified or confirmed (e.g. “Enkomi?” group).

Much of our research has focused so far on proposing new criteria to consider medieval pottery in the Eastern Mediterranean, in terms of productions rather than in terms of types. The two approaches are complementary, but the former seems more adapted if one is to reason on production (associations of types, choice of materials, organization of workshops ...) and diffusion (areas, fluxes, modalities of commercialization ...). Further research may consider not only the circulation of goods, but also those of techniques and practices, especially those connected to food. Pottery as an approach to food and food-ways has still seldom been used in the medieval Eastern Mediterranean, with some noticeable exceptions (e.g. Papanikola Bakirtzis 2005, Gabrieli 2006, 2007, this volume, Vroom 2003, 2009). Food procurement as seen through products carried in transport amphorae, ways of preparing, cooking and consuming food as illustrated by common, cooking and table wares will be further explored in the framework of the POMEDOR project involving several contributors to this volume.¹⁴ Cypriot material will be of particular interest, especially through the detailed analysis of forms, functions and origins in their relationships to food and food-ways of Cypriot and imported cooking wares from closed contexts such as Odos Ikarou in Paphos (Raptou 2006, Gabrieli 2008). Another line of research addresses the introduction of new styles and technological features in locally produced medieval table wares, which may reflect on new tastes and

13. Data on Cypriot pottery in the database of the “Laboratoire de Céramologie” in Lyon.

14. More information is available on www.pomedor.mom.fr.



dining habits (Waksman forthcoming b). This approach could engender for instance new perspectives on the influence on Cypriot productions of “Port Saint Symeon Ware”, with its stylistic (von Wartburg 2003, 2007, Redford 2004, this volume) and technological (Capelli *et al.* 2005, 2006) “mix” of Eastern and Western features.

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Annex: chemical analysis and classification of samples according to chemical composition

Chemical analysis was carried out by Wavelength Dispersive - X Ray Fluorescence (WD-XRF) in the “Laboratoire de Céramologie” in Lyon. Samples are cut out with a diamond-coated saw, in a way which alters neither the profile nor the decoration of the sherd. Glaze and slip, when present, and an external layer, whose chemical composition is more liable to be altered during burial, are removed. After heating at 950°C (removal of water, volatiles, organics), cooling and grinding, 800 mg of ceramic powder is mixed with 3200 mg of flux (lithium metaborate and tetraborate). The mix is heated to liquid state in a gold and platinum crucible and is then cast into a bead. Analyses are carried out on these homogeneous beads, of fixed geometry, which correspond to a mean chemical composition representative of the initial material. Twenty-four elements are quantified, after calibration of the set-up using forty geological standards (CRPG, USGS, NIST, British Chemical Standards...). The calibration is frequently checked using three in-house pottery standards.

Seventeen elements are usually taken as active variables in multivariate statistical treatments used to classify ceramics into groups of similar chemical composition. These include major and minor elements in ceramics (MgO , Al_2O_3 , SiO_2 , K_2O , CaO , TiO_2 , MnO , Fe_2O_3) and trace elements having various geo-



chemical behaviour (V, Cr, Ni, Zn, Rb, Sr, Zr, Ba, Ce). Classifications enable us to constitute groups of samples having similar chemical compositions, which under certain conditions on the geological context may correspond to the production of the same workshop (Picon 1993). They are obtained in our case by hierarchical clustering analysis applied to standardized data, using euclidian distance and average linkage (e.g. Picon 1984). The corresponding diagram, called a dendrogram, initially represents each sample as a vertical bar at the base of the figure (Fig. 5). The two samples closest in composition are joined by a horizontal link, links closer to the base indicating closer similarity of the samples. They are then fused into a "pseudo sample" of average composition. Each pair of samples and "pseudo-samples" are then compared again, and fused by the same procedure. As samples become less similar, the level of linkage moves up the diagram until all the samples are connected. This constitutes the dendrogram, which shows clusters of samples which are similar connected towards the base, while clusters connected high up the dendrogram are less closely related. This representation is convenient, as it takes all the elements considered into account, but is not sufficient in itself to define compositional groups. Accurate interpretation still requires examination by the archaeological scientist of the individual data and of elemental differences between clusters.



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