### MEDIEVAL BERBER ORTHOGRAPHY

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### Introduction

In the Middle Ages, Berber was written in the Maghribi style of the Arabic script, in what is to all appearances a standardized orthography. The earliest known examples of the medieval Berber spelling date from the middle of the 10th century A.D., while the youngest examples date from the 14th century.

Although there is some variation in the representation of a number of consonants, the orthography is remarkably consistent. In this respect it is quite unlike the early orthographies of the European vernaculars, where the same word is often written in different ways even within one line of text. This consistency implies that the Berber orthography was consciously designed, and that it was formally taught to berberophones.

It is to be noted that the highest consistency is found in the oldest manuscripts. Copies of medieval texts dating from the post-medieval period, when the old orthography had fallen into disuse, show varying degrees of corruption. This is partly due to some copyists being non-berberophones. Other copies were made by speakers of Tashelhit, which from the end of the 16th century up to the present has been written in a spelling which is fundamentally different from the medieval orthography (see on this orthography van den Boogert, 1997, chapter 3).

This article will first present a concise survey of the available sources, followed by an explanation of the rules and conventions of the orthography. It is hoped that this will enable future editors to transcribe and interpret medieval Berber materials more accurately than has hitherto been the case.

<sup>1.</sup> Some of the basic rules of the medieval orthography were noted by Marcy in an article (1932).

The sources {p. 538}

The sources for our knowledge of the medieval orthography are much more numerous than one might think. In fact, a number of these sources have been available in print for quite some time, although Berberologists have so far failed to exploit them. The sources can be divided into four groups:

- (1) Pharmacological manuals. Almost all works on this subject that were written in the Maghrib contain a number of Berber names of plants and animals, sometimes only a handful, but in some cases more than a hundred. The following published sources were consulted for this article:
- Ibn 'Abdūn of Seville, (fl. 1100 A.D.), 'Umdat aṭ-Ṭabīb (ed. al-Khaṭṭābī, 1990 and 1996), contains more than 250 Berber names of plants.<sup>2</sup>
- Ibn Beklāresh of Saragossa, *al-Musta'īnī* (written ca. 1000 A.D.), contains some forty Berber names. Most of these are quoted by Renaud in an article (1930) and in his annotations to the edition of the *Tuhfa*. Some names are mentioned by Dozy in his *Supplément*.
- Maimonides of Cordova (d. 601/1204), *Sharh Asmā' al-'Uqqār* (ed. and tr. Meyerhof, 1940), contains 27 Berber names of plants.
- 'Abdallāh ibn Ṣāliḥ al-Kutāmī (early 13th c. A.D.), commentary on Dioscurides (ed. and tr. Dietrich, 1988), contains more than 170 Berber names of plants and animals.
- Ibn al-Baiṭār of Malaga (d. 646/1248), *al-Jāmi* (ed. Boulaq, 1874-5, tr. Leclerc, 1877-83, contains some 55 Berber names of plants and animals. These Berber materials were studied by René Basset in an article (1899); his transcriptions are generally imprecise and he presents only 41 out of 55 names.
- Ibn al-Ḥasshā' (13th c. A.D.), *Kitāb Mufīd al-'Ulūm* (ed. Colin and Renaud, 1941), contains 14 Berber names.

The editions by al-Khaṭṭābī of Ibn 'Abdūn, and the Boulaq edition of Ibn al-Baiṭār are not up to modern scientific standards, but they are serviceable for our present purpose. Some important pharmacological manuals containing Berber materials remain unpublished, among them works by az-Zahrāwī (Abulcasis), as-Suwaidī and al-Idrīsī (on whom see Ullmann, 1970, pp. 149-151, 284, 278).

<sup>2.</sup> The same edition was published twice (Rabat, 1990 and Beirut, 1996), with some revisions and a different numerations of the entries.

Berber names of plants in medieval spelling are often quoted in post-medieval sources, among them:

- al-Ghassānī (second half 16th c.), Hadīqat al-Azhār (ed. al-Khaṭṭābī, 1985), 36
   Berber names.
- Anonymous, *Tuhfat al-Aḥbāb* (ed. and tr. Renaud and Colin, 1934), *ca* 85 Berber names.
- al-Jazā'irī (fl. 1130/1717-8), Kashf ar-Rumūz (tr. Leclerc, 1874), ca 50 Berber names.

{p. 359} (2) Arabic works on history, geography and biography. Four of these sources were examined for this article:

- The anonymous Kitāb al-Ansāb (ed. and tr. Lévi-Provençal, 1928).
- The memoirs of Abū Bakr ibn 'Alī aṣ-Ṣanhājī, a close companion of Ibn Tumert, known by the nickname al-Baidhaq 'the Pawn' (ed. and tr. Lévi-Provençal, 1928).

These two texts, written in 12th and 13th centuries A.D., deal with the early history of the Almohads. They contain hundreds of personal names, tribal names and place names as well as a dozen phrases in Berber. Marcy has tried, with scant success, to transcribe and translate the phrases in an article (1932).

- al-Bakrī (d. 487/1094), *Kitāb al-Masālik wa-l-Mamālik* (ed. de Slane, 1857), contains many Berber place-names.<sup>3</sup>
- at-Tādilī (d. 627/1229-30), *at-Tashawwuf*, a biographical dictionary of South-Moroccan saints of the 5th-7th centuries A.H. (ed. Faure, 1958), contains many Berber personal names.
- (3) The Arabic-Berber dictionary *Kitāb al-Asmā*' compiled in the year in 540/1146 by Ibn Tunart (ابن تونارت, 478-567 A.H., 1085-1172 A.D.). This is the richest source for medieval Berber, containing more that 2,500 Berber words and phrases, including more than 250 names of plants.<sup>4</sup>
- (4) The 'Leiden fragment' (Leiden ms. Or. 23.306). This is a unique fragment

<sup>3.</sup> Some of these names were studied by Chaker (1981).

<sup>4.</sup> An edition of Ibn Tunart's Berber materials is in preparation by the present author. For a brief description of this source see also van den Boogert, 1998, pp. 11-13.

consisting of one leaf from a medieval manuscript (possibly 14th c.). The leaf contains a total of sixteen lines of continuous Berber text, written in calligraphic script. The subject of the text is ethics. This fragment may be seen as the 'smoking gun': apart from its mere existence, its contents as well as its external appearance are clear evidence that a mature and well-established written tradition in Berber existed in the medieval period. An edition and full analysis of the Leiden fragment is being prepared by the present author.

In the following exposition the rules and conventions of medieval Berber spelling will be illustrated mainly with plant names taken from the above-mentioned pharmacological handbooks and from Ibn Tunart's dictionary.

Judging from the Leiden fragment, medieval Berber texts appear to have been written with full vocalization. In most of the other sources, Berber words are fully or partially unvocalized. The examples below will be quoted without vocalization. In cases where it is necessary to know the full vocalization, a transliteration will be given between square brackets.

### Word-internal vowels

Medieval Berber orthography distinguishes four vowels: a, i, u and e (schwa). In word-internal position, the vowels a, i and u are written with the  $hur\bar{u}f$  al-madd: alif represents a,  $y\bar{a}$  represents i and  $w\bar{a}w$  represents u:<sup>5</sup>

{p. 360}	تاسافت	tasaft	ʻoak'
	تيزنيرت	tiznirt	'fan palm'
	تو لو ليت	tululit	'caper'

In unvocalized script, the central vowel e (schwa) is not represented in word-internal position. Schwa may also occur in open syllables:

تامماشت	tamemmašt	'tamarisk'
تاسلت	tasselt	'laurel'
یلو دی	yeludi	'Ranunculus sp.'

<sup>5.</sup> An alphabetical list of quoted forms with references is appended at the end of this article.

In fully vocalized script, *schwa* is most frequently written with *fatha*. In some sources it is written with *kasra*.

### Word-inital vowels

In the *Kitāb al-Ansāb* and in the memoirs of al-Baidhaq, initial i- and u- are regularly written with *alif-madda* followed by  $y\bar{a}$  and  $w\bar{a}w$ . Initial a- is written with *alif-madda* preceded by a high 'chairless' *hamza*:

The other sources contain only one example of an initial vowel other than a-written with alif-madda (Tuhfa no 17):

This use of madda to indicate the presence of a word-initial vowel, a- as well as i- and u-, is typical of medieval Berber orthography. It is clearly a divergence from contemporary Arabic usage.<sup>7</sup>

In fully or partially vocalized forms in Ibn Tunart's  $Kit\bar{a}b$   $al-Asm\bar{a}$ ', initial a- is written either with alif-madda, or with alif-madda with preceding low chair-less hamza, or with alif with preceding hamza:

آمكر از	amekraz	ʻplowman'
ءآدرار	adrar	'Chinese lantern'
ءاغاز	$a\gamma az$	'fruit of the fan palm'

These spellings of initial a- are also occasionally found in the other sources, especially *alif-madda*.

<sup>6.</sup> Lévi-Provençal has made several changes in the spelling of the Berber materials in the printed edition. The following exposé is based on an examination of the photographic plates added to the edition (esp. plate III).

<sup>7.</sup> On the use of madda in Maghribi-Arabic spelling see van den Boogert, 1989, p. 33.

{p. 361} In vocalized forms, Ibn Tunart writes initial i- with alif with subscript hamza, followed by  $y\bar{a}$ :

irden 'wheat'

Initial u- is written with alif with hamza written through its middle (reproduced here with superscript hamza for typographical reasons), followed by  $w\bar{a}w$ :

'diss grass' أوماد

Word-initial schwa is represented by alif (with superscript fatha in vocalized text):

efsu 'card (wool)!'

ennes 'of him'

war ellay 'dodder' 8

In the other sources, Berber words are usually left unvocalized. When a word is written without vocalization, word-initial a- is written with alif and word-initial i- and u- are written with alif followed by the appropriate harf al-madd:

ادمام 'medlar' iγrey 'asphodel' نان ukkan 'Caralluma europea'

Note that in the absence of vocalization, word-initial *alif-wāw* may represent either u- or aw- and  $alif-y\bar{a}$  may represent either i- or ay-:

ummad 'diss grass' 'diss grass' 'corrigiola telephiifolia' 'awserγint' 'corrigiola telephiifolia' 'izrey 'wormwood'

<sup>8.</sup> Also written as one word equiv war (cf. Touareg allay 'javelin', tallay 'wooden shaft of a lance'?). The epiphytic dodder (Cuscuta epithymum) indeed has no rooted stem, cf. also its name in Tashelhit, azzar n tmyarin 'women's hair'.

'friar's cowl'

On some examples in the work of Ibn al-Baiṭār of a divergent way of spelling word-initial vowels see below.

In order to present as clear a picture as possible, in the examples quoted below word-initial vowels will be written with simple *alif*, without *hamza* and/or *madda*, irrespective of the spelling found in the source.

### Word-final vowels

Word-final -a is regularly written with alif. It is occasionally written with alif  $maq s \bar{u} r a$  or with  $h \bar{a}$ :

Word-final -i is written with  $y\bar{a}$ , usually without its diacritical dots:

Word-final  $w\bar{a}w$ , representing either the vowel -u or the consonant -w, is often followed by an *alif*. This *alif* is a purely graphical device, and does not represent a vowel:

وايللوا	waylellu	'henbane'
خيزوا	xizzu	'carrots'
افر سيو ا	afersiw	'fern'
تيلفاوا	tilfaw	'lupin'

In the modern standard orthography of Arabic this so-called *alif al-wiqāya* 'prophylactic *alif*' is written with plural verbal forms only. In the spelling of the Koran it is used more widely, e.g. II 269 الله يمحوا 19 أولوا الالباب *ūlū 'l-albābi*, XIII 39

yamḥū 'Llāhu.

### The consonants

The representation of the following consonants poses no problems:

Ļ	, (	<i>b</i>	ايباون	ibawen	'beans'
ت	,	t	تيبيتاست	tibitast	'beet'
خ	ر .	¢ .	تيزخت	tizext	'willow'
د	C	l	امراد	amrad	'acacia'
ر	1	•	ارماس	armas	'orache'
ز	Z		ازنزوا	azenzu	'clematis'
س	S		اساسنو ا	asasnu	'strawberry tree'
ش	Š		تاشنتيت	tašentit	'rye'
غ	$\gamma$		تاغيغيت	tayeyyeyt	'soapwort'
ف	f		تيفاف	tifaf	'chicory'
ال	k		ايكيكر	ikiker	'chick peas'
J	l		اليلي	alili	'oleander'
م	m		ادمام	admam	'medlar'
ن	n		انلى	anli	'sorghum'
_&	h		ترهلا	terrehla	'agrimony'
و	w		وامسا	wamsa	'fennel'
ی	y	(8)	تاريال	taryal	'mandrake'

{p. 363} The spelling of the consonants d, z, g and  $\check{z}$  is more complicated. Before looking at how these consonants are written, it is useful to take a brief look at the way in which a borrowed script is adjusted to represent consonants that are not present in the language for which the script was originally designed. An almost universally applied method of adaptation is to write a consonant for which the borrowed script has no separate letter with the letter that represents its nearest equivalent in the perception of the native speaker. This is usually its voiced or voiceless counterpart. For example, in early Persian orthography, the consonant g was written with the letter  $k\bar{a}f$ , which also represented Persian k. In the same manner, the Persian consonant  $\check{c}$  was written with the letter  $\check{g}\bar{u}m$ , which also represented

ented Persian  $\check{g}$ . This method was also applied in the representation of Berber consonants for which the Arabic script has no separate letter.

Thus, the consonant d is written with  $t\bar{a}$  (voiceless counterpart):

Note that at the time when the Berber orthography was devised, the letter  $\dot{\omega}$ , which in modern transcription systems is usually transcribed as d, probably did not represent a dental stop d but rather an interdental or lateral fricative. In any case, Arabic t was apparently perceived as the nearest equivalent to Berber d and hence the letter  $t\bar{d}$  was chosen to represent d. Note also that Arabic t is replaced with d in loanwords, e.g. Arabic t doctor becomes t in Berber. It is also possible, though not probable, that medieval Berber had t instead of t (voiceless t is still found in some dialects, e.g. in Jabal Nafūsa and the Middle Atlas).

The letter  $t\bar{a}$  also represents  $t\bar{t}$  (tense counterpart of d):

The consonant z is written either with  $z\bar{a}y$  (non-pharyngealized counterpart) or with  $s\bar{a}d$  (voiceless counterpart):

The sources contain an explicit statement that the letter  $s\bar{a}d$  represents z: Ibn al-Ḥasshā' mentions the name lagar = lagar =

<sup>9.</sup> At a later stage, the two values of each letter were differentiated by forming the separate letters  $\check{c}\bar{t}m$  and  $g\bar{a}f$  by means of the addition of three diacritical points to  $\check{g}\bar{t}m$  and  $k\bar{a}f$ .

<sup>10.</sup> Ibn al-Hasshā', ed. Colin & Renaud, 1941, no 600.

Ibn Tunart consistently uses  $s\bar{a}d$  to write z. In the other sources there seems to be free variation between  $z\bar{a}y$  and  $s\bar{a}d$ .

In a few rare cases, the letter sād represents s:

In the case of the well-attested plant name *tibinsert*, the s can be explained etymologically, as this name appears to be a contraction of tibic en Meser 'mallow of Egypt' (original form mentioned by Ibn Tunart). In the case of asyer, the spelling represents the form [asyer] (the emphatic r is never distinguished from r in the spelling) which is a variant of asyer (also attested).

The consonant g is written either with  $\check{g}\bar{\iota}m$ ,  $k\bar{a}f$  or  $q\bar{a}f$ :

ايدجل	idgel	'cedar'
انكارف	angaref	'chaste tree'
امز قو ر	amezgur	'sorghum'

One plant name is found in the sources with all three spellings:

ارجان	argan	ʻargan'
اركان	id.	'id.'
ارقان	id.	'id.'

Note that the name argan denotes a tree (Argania spinosa) which does not grow in berberophone areas where original g can become  $\check{z}$ . It is therefore certain that  $\check{g}\bar{t}m$  represents g, as the form  $\check{a}r\check{z}an$  does not exist.

That  $\check{g}\check{u}m$  represented g can also be deduced from the spelling of some Arabic nisbas. For instance, members of the Tashelhit-speaking High Atlas tribe whose modern name is Igdmiwn use the nisba الجدميوي al-Jadmiwi, which is derived

<sup>11.</sup> On  $g > \tilde{z}$  see Kossmann, 1995.

<sup>12.</sup> The alternative spelling الكدميوي al-Kadmīwī is also found.

from the medieval Berber spelling ایجدمیون Igedmiwen.

The letter  $q\bar{a}f$  also represents qq (tense counterpart of  $\gamma$ ):

In most sources the choice between  $\check{g}\bar{\iota}m$  or  $k\bar{a}f$  for g appears to be free.  $Q\bar{a}f$  is consistently used by Ibn 'Abdūn, but it is rare in the other sources. It is probable that the variation between  $\check{g}\bar{\iota}m$  and  $k\bar{a}f$  is the result of historical developments (see below).

The consonant  $\check{z}$  is written with  $\check{g}\bar{\iota}m$  or  $\check{s}\bar{\iota}n$ :

 $\{p. 265\}$  Ibn 'Abdūn of Seville, who mentions the name ايش  $i\check{z}\check{z}$  'terebinth' (a Zenatic form), precisely indicates the pronunciation of  $\check{s}\bar{i}n$  by adding the phrase bayn aš- $\check{s}\bar{i}n$  wa-z- $z\bar{a}y$ , 'between  $\check{s}$  and z', i.e. a consonant which is palatal like  $\check{s}$  and voiced like z (ed. al-Khaṭṭābī, 1996, no 1584).

Note that ǧǧ is always written with ǧīm:

The variation found in the representation of g and  $\check{z}$  is probably the result of phonological changes that took place in the spoken Arabic of the Maghrib. It is possible to distinguish two basic stages in the development of the Berber orthography, as set out in the table below.

	Stage 1		Stage 2	
letter	Arabic	Berber	Arabic	Berber
ح	g or ģ	g	$\check{g}$ or $\check{z}$	ž
ش	Š	$\check{s} + \check{z}$	š	Š
ك	k	k	k	k + g

At stage 1, the letter  $g\bar{t}m$  was chosen to represent Berber g. At this time,  $g\bar{t}m$  must have represented Arabic g, or perhaps g. We have no knowledge of any variety of Arabic spoken in the Maghrib that has or had g or g corresponding to  $g\bar{t}m$ . An indication that such a dialect may once have existed is perhaps found in the Berber loanword timezgida 'mosque', which corresponds to an Arabic form \*mesgida or \*mesgida rather than the attested mesgid or mesgid (standard masgid). In addition, Ibn Tunart mentions a form timesgid iteggaren 'traders', cf. Arabic tazer (standard tagir) 'trader'.

At stage 1, the letter  $\check{g}\bar{t}m$  could not be used for Berber  $\check{z}$ , so that  $\check{s}\bar{t}n$  (voiceless counterpart) was chosen instead.

At stage 2, Arabic g had changed to  $\check{g}$  or to  $\check{z}$ , so that  $\check{g}\bar{\imath}m$  became available to write Berber  $\check{z}$ . Berber g was then written with  $k\bar{a}f$  (voiceless counterpart).

The Leiden fragment is the only source which consistently uses  $k\bar{a}f$  for g, and which can thus be taken as representing stage 2. No source is available at present which represents stage 1. All other sources seem to represent an intermediate, transitional stage in the development of Berber orthography:

{p. 366} Intermediate stage

letter	Arabic	Berbei
ج	$\check{g}$ or $\check{z}$	$\check{z} + g$
ش	Š	$\check{s} + \check{z}$
٤	k	k + g

<sup>13.</sup> Cf. also Spanish mezquita.

The retention of  $\xi \bar{t}m$  to write g, and of  $\xi \bar{t}m$  to write  $\xi$ , long after Arabic g/g had changed to  $\xi/\xi$ , is the result of the inertia that is characteristic of an established orthography.

### Labialization

The labialization of velar consonants is indicated in vocalized script with the vowel sign *damma*, which may be written either on the letter representing the velar itself or on the preceding letter:

تالقيت	[tāluqqīt]	taleggwit	'white broom'
اكثار	[ākuṯār]	ak" <u>t</u> ar	'yarrow' 15
تاغندست	[ $t\bar{a}\gamma$ undast]	tay <sup>w</sup> endest	'pellitory'
يدختن	[yadduxtan]	yeddex"ten	'mistletoe' 16

# Ibn al-Baiṭār's spelling of vowels

A divergent system to represent word-initial a- in Berber plant names is encountered in the initial entries in Ibn al-Baiṭār's  $J\bar{a}mi'$ . This system is also found in other sources, but only for initial  $\bar{a}$ - in the Arabic transcription of Greek plant names.

<sup>14.</sup> Berber او کوزولن Uguzulen, modern Tashelhit  $Ig^wzuln$ : name of a tribal federation of the Anti-Atlas, 'Gzoula' in the French orthography.

<sup>15.</sup> The noun  $ak^wtar$ , mentioned by al-Kutāmī and Ibn al-Baitār, contains what is perhaps the earliest attested example of spirantization. Ibn al-Baitār quotes Abū al-'Abbās an-Nabātī saying that this plant is 'well-known in the eastern part of the 'Udwa' (ma'rūf bi-šarq bilād al-'udwa).

<sup>16.</sup> Etymologically  $yedde\gamma^w$  'he sticks (to)' (3sgm) + ten 'them' (3plm): the sticky seeds of mistletoe cling to the branches of trees where they germinate.

Ibn al-Baitar's entries nos 2-6 are all Berber plant names. The initial vowel a- is written with alif-madda, followed by a second alif:

آاطريلال	aḍereylal	'false bishop's weed'
آاکثار	ak" <u>t</u> ar	'yarrow'
آارغيس	$ar\gamma is$	'barberry'
آامليلس	ameliles	'buckthorn'
آاقشروا	agešru	(unidentified)

{p. 367} The same spelling is used in entry no 1, which is a Greek name:17

ألسن ālusan 'alyssum', Gr. αλυσσον

The logic behind this convention is that in this way all initial vowels are written with alif followed by the appropriate harf al-madd, i.e. alif-wāw for u-, alif-yā' for i- and alif-alif for a-.

Beginning with entry no 7 (Arabic *abhal* 'savin'), Ibn al-Baiṭār has abandoned this cumbersome spelling of initial a-. In the remaining part of his work, initial a- is written with single *alif* in Berber as well as in Arabic and Greek names. The other Berber names with initial a- presented as main entries in the  $b\bar{a}b$  al-alif are:

اداد	addad	'atractylis'
ادرييس	aderyis	'thapsia'
ارجان	argan	ʻargan'
ازرود	azrud	'melilot'

Another practice which Ibn al-Baiṭār quickly abandoned is the explicit description of the vocalization of a name. This is found in his first five entries, and sporadically in the rest of the book. From these explicit vocalizations it appears that Ibn al-Baiṭār used *kasra* instead of *fatḥa* to represent *schwa* (explicit vocalization between square brackets):

<sup>17.</sup> Fifteen examples of initial double *alif* representing *a*- in Greek names are found in Dietrich's *Dioscurides triumphans* (see index to the Arabic text).

آاطريلال	[āṭiriylāl]	aḍereylal
آاکثار	[āku <u>t</u> ār]	ak" <u>t</u> ar
آارغيس	[ $\bar{a}$ r $\gamma$ iys]	$ar\gamma is$
آامليلس	[āmiliylis]	ameliles

In the older spelling of Arabic, the  $hur\bar{u}f$  al-madd representing the long vowels  $\bar{\iota}$  and  $\bar{u}$  could be written with or without  $suk\bar{u}n$ . Thus, in the spelling of Berber  $ar\gamma is$ , the vowel i is explicitly written with  $\gamma ayn$   $maks\bar{u}ra$  and  $y\bar{a}$  '  $s\bar{a}kina$ , i.e.  $\gamma ayn$  with kasra and  $y\bar{a}$  ' with  $suk\bar{u}n$ . However, since Ibn al-Baitar uses kasra to represent schwa, this spelling may also represent Berber -ey-, as in adereylal, explicitly written with  $r\bar{a}$  '  $maks\bar{u}ra$  and  $y\bar{a}$ '  $s\bar{a}kina$ .

### Arabic loans

Arabic loanwords in medieval Berber largely retain their original spelling. They are borrowed with the Arabic definite article, which is semantically 'neutralized'.  $T\bar{a}$ ' marb $\bar{u}ta$  is usually replaced with  $t\bar{a}$ ':

{p. 368}	التر نج	etterenž <sup>20</sup>	'citron', Ar. at-turunğ
	الميمون	elmeymun	'bryony', Ar. al-maymūn
	الفصت	elfesset	'lucerne', Ar. al-fissa(t)

In some cases the spelling is changed to reflect Berber pronunciation:

الدونيت	edduneyt	'world', Ar. ad-dunyā
الشيشيت	eššišeyt	'bonnet', Ar. aš-šāšiya(t)

# Notes on phonology and morphology

No full survey of Medieval Berber grammar will be attempted here; only some of

<sup>18.</sup> In modern standard orthography, the hurūf al-madd are always written without sukūn.

<sup>19.</sup> In the spelling of entry no 5, ameliles, Ibn al-Baiṭār does not indicate whether the  $y\bar{a}$ ' has  $suk\bar{u}n$ . He simply states  $al-m\bar{u}m$   $wa-l-l\bar{a}m\bar{a}n$  minhu  $maks\bar{u}ra$   $wa-s-s\bar{u}n$  muhmala, 'the  $m\bar{u}m$  and the two  $l\bar{a}ms$  have kasra, the  $s\bar{u}n$  is without diacritical points.'

<sup>20.</sup> Explicitly Berber, explicitly vocalized bi-fath at-tā' wa-r-rā'.

the more salient features will be pointed out.

(1) The vowel a is sometimes (though not regularly) reduced to e before the consonant r, e.g.:<sup>21</sup>

	medieval	Tashelhit
تازرت	tazert	tazart 'figs'
اسغر	asyer	asyar 'wood, bush'
تامرت	tamert	tamart 'beard'

(2) Plurals with nominal prefixes u- and tu- occur frequently where corresponding forms in the modern Berber languages have i- and ti-:<sup>22</sup>

	medieval	Tashelhit
او کر مو د ن	ukermuden	ikrmudn 'leguminous plants'
توروفين	turufin	tirufin 'roasted barley'

Tashelhit is in fact the only Berber language for which comparable forms are attested, e.g. tumzin 'barley',  $tum\gamma arin$  'women'  $(timzin, tim\gamma arin$  in other languages).

(3) The forms of the état d'annexion of masculine nouns are as follows:

اجليد	agellid	'king'	état libre
وجليد	wegellid		état d'annexion
اصر و ا	azru	'stone'	é.l.
و صر و ا	wezru		é.a.
امان	aman	'water'	é.l.

<sup>21.</sup> All three forms are attested in more than one source; it is unlikely that they are misspellings or corruptions.

<sup>22.</sup> Cf. also the ethnonyms Uguzulen and  $U\gamma zafen$  mentioned above.

وامان	waman		é.a.
ايغف	iγef	'head'	é.l.
يغف	yeγef		é.a.
ایکران	igran	'fields'	é.l.
یکران	yegran		é.a.
ایلل	ilel	'sea'	é.l.
ییلل	yilel		é.a.
او شن	uššen	ʻjackal'	é.l.
و و شن	wuššen		é.a.

The construct states with we- and ye- have consistently been transcribed incorrectly in the past, viz. with initial vowels i- or u- (e.g. \*ugellid instead of wegellid). The letters  $y\bar{a}$  and  $w\bar{a}w$  in word-initial position always represent the consonants y- and w-. The vowels i- and u- in word-initial position can only be written with alif followed by  $y\bar{a}$  c.q.  $w\bar{a}w$ .

# (4) The état d'annexion is found, among others, in possessive constructions:

تونین ان وجلید	tunin en wegellid	'wells of the king'
تیسنت ان وصروا	tisent en wezru	'salt of stone'
ایدید ان وامان	ayeddid en waman	'sack of water'
انكاص ان يغف	angaz en yeγef	'pain of the head'
تووطفا ان یکران	tuwedfa en yegran	'possession of fields'
اطوا ان ييلل	aḍu en yilel	'wind of the sea'
اطیل ان ووشن	aḍil en wuššen	'grape of the jackal'

Other examples include:

iger en wesennan 'field of thorns'

imi en tegemmi	'entrance of the house'
tabezzuyt en tili	'ear of the ewe'
tayzut en waluḍ	'valley of mud'
tamart en tayaṭṭ	'beard of the goat'
targa en wudi	'canal of butter'
tibi en waman	'mallow of the water'
tilett en yenerfed	'herb of the spleen'
	tabezzuyt en tili tayzut en waluḍ tamart en tayaṭṭ targa en wudi tibi en waman

In many possessive constructions, the preposition *en* 'of' is omitted, while the possessor remains in the *état d'annexion*:

امان يسيدان	aman yesidan	'water of ostriches'
اسغر يغجد (p. 370)	asyer yeyežd	'shrub of the kid'
اصغر يفيغر	asyer yefiyer	'shrub of the serpent'
تافروت ووشن	tafrut wuššen	'knife of the jackal'
تامرت ومسون	tamert Wemsun	'beard of Amsoun' 23
تيلت تفيغرا	tilett tefiγra	'herb of the serpent'

The elimination of the nominal prefix leads one step further toward compound nouns:

The same name is also attested as a full compound *adereylal* (Ibn al-Bait $\bar{a}r$ , cf. above), with a reduced to e before r.

Some examples of compounds are:

<sup>23.</sup> Amsoun or Msoun is the name of a valley located north-west of Taza where the plant which bears this name (a variety of dodder) is said to grow.

<sup>24.</sup> Litt. 'bird's foot', adar 'foot' and aylal 'bird'.

<sup>25.</sup> Litt. 'smell-of-dung': adu 'odour' and amazir 'dung'.

اسغر سيف asyersif

'willow' 26

(5) In personal names, Arabic  $(a)b\bar{u}$  'father of, he who has' and ibn 'son of' may be followed by a Berber noun in the état d'annexion:

Bū Weγyul بو وغيول 'he with the donkey' Abū Yenikef ابو ینیکف 'father of Hedgehog' ibn Welwun بن ولوون

'son of Ram' 27 بن و مغار ibn Wemyar 'son of the Chief'

Arabic ibn is also used in the sense 'native of':

ibn Wegadir بن وجادير 'native of Agadir' ibn Wendelus بن وندلوس 'native of (al-)Andalus'

### Concluding remarks

An important question which has not been addressed thus far is: Which variety of Berber is, or which varieties are recorded in the medieval sources? Some brief remarks may be made here.

The more substantial sources record a variety of Berber which is most closely related to modern Tashelhit, as appears from a comparison of lexicon and morphology.28 These sources are: Ibn Tunart's Kitāb al-Asmā', the Leiden Fragment, the Kitāb al-Ansāb and the memoirs of al-Baidhaq. These sources also share some special features (e.g. reduction of a to e before r, schwa in open syllables, plurals with prefixes u-, tu-) which show that they all record the same variety of Berber. 'Old Tashelhit' may be an appropriate name for this language.

The most striking fact concerning the pharmacological manuals is that the {p. 371} majority of them were written in al-Andalus (az-Zahrāwī, Ibn Beklāresh, Ibn 'Abdun), or by writers of Andalusian birth working in the Middle East (Maimo-

<sup>26.</sup> Litt. 'river tree': asγer 'bush, tree' and asif 'river'.

<sup>27.</sup> Cf. Ibn Tunart الوون alwun 'ram' (Arabic kabš).

<sup>28.</sup> This point is elaborated in van den Boogert, 1998, p. 12.

nides, Ibn al-Baiṭār). It is likely that a substantial body of speakers of a variety of Berber akin to Tashelhit lived in al-Andalus, and that al-Andalus is the place where this language was first committed to writing.<sup>29</sup> That there were indeed Berbers in Spain who spoke a Tashelhit-like language is shown by the fact that at the end of the 15th century, as a consequence of the *reconquista*, a group or groups of berberophones are known to have migrated from Spain to the Sous in southern Morocco, where they became known as the 'people of the ship' (*ayt uyrrabu*). One of them is Sa'īd al-Kurrāmī (Sɛid Akwrramu, d. 882/1477-8), who is reputed to be the last surviving Berber scholar who had received his schooling in Granada.<sup>30</sup> The Andalusian Arabic loanwords which are still found in Tashelhit, such as *lmri* 'mirror', *lkiyd* 'paper', *lixrt* 'hereafter', *ššišit* 'bonnet', etc., also point to a connection between Tashelhit and al-Andalus.<sup>31</sup>

It is noteworthy that in the  $Kit\bar{a}b$  al- $Ans\bar{a}b$  and the memoirs of al-Baidhaq, who was certainly born in the South of Morocco, the Berber phrases are repeatedly said to be 'in the language of the Gharb' ( $lis\bar{a}n$  al- $\gamma arb$ ). The coastal area in Morocco which is known as 'the West' (al- $\gamma arb$ ) is now inhabited by arabophones. The berberophone Ghomara, in northern Morocco, may be an isolated remnant of the original Berber language spoken in this area. <sup>32</sup>

The botanist 'Abdallāh ibn Ṣāliḥ al-Kutāmī belonged to the Kutāma or Ik<sup>w</sup>tamen tribe. Members of this tribe had settled in various parts of North-Africa and al-Andalus.<sup>33</sup> Al-Kutāmī had a druggist's shop in Marrakech. He was one of the teachers of Ibn al-Baiṭār (cf. Ullmann, 1970, p. 279).

Ibn al-Ḥasshā' may have spoken a Tashelhit-like Berber language, as he worked in the service of the first sultan of the Ḥafṣid dynasty of Tunisia (cf. Ullmann, 1970, p. 236). The Ḥafṣids were the descendants of Abū Ḥafṣ 'Umar (a.k.a. 'Umar Inti, d. 571/1176), a Berber of the South Moroccan Hantāta tribe and one of the close companions of Ibn Tumert.

<sup>29.</sup> On Berbers in al-Andalus in general see de Felipe, 1993 and 1997.

<sup>30.</sup> Cf. Justinard, 1933, pp. 220-224.

<sup>31.</sup> Standard Arabic  $\bar{a}$  often changed to  $\bar{t}$  in Andalusian colloquial Arabic; compare the standard forms al- $mir'\bar{a}(t)$ , al- $k\bar{a}\gamma i\underline{d}$ , al-' $\bar{a}xira(t)$ ,  $a\check{s}$ -' $\bar{s}\bar{a}\check{s}iya(t)$ . Pedro de Alcalá actually mentions the forms miri 'mirror' and xixia 'bonnet'. See also van den Boogert, 1998, p. 195.

<sup>32.</sup> The present-day Ghomara claim that they are related to the Chleuh, the speakers of Tashelhit (cf. Colin, 1929).

<sup>33.</sup> See EI<sup>2</sup>, 'Kutāma'.

The gradual expulsion of the Muslims from Spain in the course of the 15th century probably put an end to Old Tashelhit as a written language. A century or so later, (pre-)modern Tashelhit emerged as a literary language, in the garb of a different, newly devised orthography.<sup>34</sup>

There are also medieval sources which record a variety of Berber which is clearly not closely related to Tashelhit. In fact, the oldest examples of Berber in Arabic script known to the present author are the plant names which are found in the *Kitāb al-I'timād*, a pharmacological manual compiled in the second half of the 10th c. A.D. by Ibn al-Jazzār (d. 369/980 or 395/1004). The names are:

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تيكير وتان
                       tigirutan
                                       'dittany'
التشتيوان {p. 372}
                       (at-) teštiwan
                                       'polypody'
                    (at-) tagwendest 'pellitory'
        التاكندست
          التاكوت (at-) takkewt
                                       'Euphorbia resinifera'
          at-) tane\gammaut) التانغوت
                                       'Euphorbia pithyusa'
                    (at-) taneγit
          التانغىت
                                       'id.'
         التافر و ت
                     (at-) tafrut
                                       'iris'
```

All of these names except one are written with the Arabic definite article. Note the plural ending -an with feminine nouns, which is only attested in the language of the Ghomara.<sup>35</sup> Ibn al-Jazzār lived and worked in Kairouan in Tunisia; of his ethnic background nothing is known.

The use at this early date of the letter  $k\bar{a}f$  to represent the Berber consonant g in tigirutan may be an indication that stage 1 in the development of the Berber orthography is to be dated to even earlier time, possibly in the 9th or even 8th century A.D.

Among the sources that were not examined for this article there are some in which eastern varieties of Berber are recorded. These include the Berber passages in

<sup>34.</sup> The oldest preserved text in the 'new' orthography is the 'Aqā'id ad-Dīn by Ibrāhīm ibn 'Abdallāh aṣ-Ṣanhājī (a.k.a. Brahim Aznag, d. 1005/1597). See van den Boogert, 1997, chapter 5.

<sup>35.</sup> Cf. also the name of Tétouan, litt. 'the wells' (*Tiṭṭawin* تيطاوين in the memoirs of al-Baidhaq).

Ibadite scriptures (cf. Lewicki, 1934 and Ould-Braham, 1988), the 'manuscript of Zuwāra' (cf. Motylinski, 1907) and the abundant onomastic materials in the works of Ibn Khaldūn. These eastern materials are written in an orthography which is clearly based on the same principles as the orthography of the far West. Further study of the available materials will be necessary before we can determine where and when the medieval Berber orthography originated.

### Alphabetical list of quoted medieval Berber forms

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Only the reference to the source from which a particular form is quoted in this list. Many of the plant names are found in more than one source. The letter  $\gamma$  is placed after g in the alphabetical order.

Abdun	Ibn 'Abdūn, 'Umdat aṭ-Ṭabīb, ed. al-Khaṭṭābī, 1996 (Beirut)
Ansab	Anon., Kitāb al-Ansāb, ed. Lévi-Provençal, 1928
Bakri	al-Bakrī, Kitāb al-Mamālik wa-l-Masālik, ed. de Slane, 1857
Baidhaq	al-Baidhaq, memoirs, ed. Lévi-Provençal, 1928
Baitar	Ibn al-Baiṭār, al-Jāmi', tr. Leclerc, 1877-1883
Hassha	Ibn al-Ḥasshā', Mufīd al-'Ulūm, ed. Colin & Renaud, 1941
Jazzar	Ibn al-Jazzār, Kitāb al-I'timād, facsimile, 1985
Kutami	al-Kutāmī, commentary on Dioscurides, ed. Dietrich, 1988
Maimonides	Maimonides, Sharh Asmā' al-'Uqqār, ed. Meyerhof, 1940
Tadili	at-Tādilī, at-Tashawwuf, ed. Faure, 1958
Tuhfa	Anon., Tuhfat al-Aḥbāb, ed. Renaud & Colin, 1934
Tunart	Ibn Tunart, Kitāb al-Asmā', Leiden ms. Or. 23.333 (Lq) and Or.
	23.348 (La)

Abu Wezreg, Ansab p. 29 Abū Yenikef, Tadili p. 218 addad, Baitar no 27 aderyis, Tunart Lq 23v° admam, Kutami I 62 adrar, Tunart 23ro adar eylal, Tunart La 14v° adereylal, Baitar no 2 adil en wuššen, Tunart La 14v° adu en yilel, Tunart La 15v° adumazir, Kutami IV 83 afersiw, Tuhfa no 366 agešru, Baitar no 6 agettum, Tunart La 13vº ayaz, Tunart Lq 23ro ak<sup>w</sup>tar, Baitar no 3 (double initial alif) ak"tar, Kutami IV 91 (single initial alif)

alezzaz, Hassha no 600 alili, Kutami IV 72 alwun, Tunart La 10rº aman yesidan, Bakri p. 156 amekraz, Tunart Lq 20v° ameliles, Baitar no 5 amezgur, Abdun no 872 amrad, Tuhfa no 204 anažel, Tunart La 13rº angaz en yeyef, Tunart Lq 14r° anelkud, Tunart La 14vº angaref, Tunart La 13rº anli, Abdun no 219 armas, Abdun no 1802 argan, Baitar no 56 (with §īm) argan, Baitar no 1145 (with  $q\bar{q}f$ ) argan, Tunart La 13r° (with kāf) aryis, Baitar no 4

asasnu, Kutami I 98 asyer yeyežd, Kutami III 91 asyersif, Kutami I 73 asyer yefiyer, Baitar no 1604 aslili, Kutami III 56 awseryint, Kutami IV 7 ayeddid en waman, Tunart Lq 16v° ayerni, Kutami II 149 Ayet Wersanen, Ansab p. 44 azeğğig, Tunart Lq 24v° azenzu, Tuhfa no 206 azeggur, Tunart La 13vº azrud, Baitar no 61 azuka, Tunart La 23rº Bū Weγyul, Baidhaq p. 124 edduneyt, Ansab p. 40 efsu, Tunart La 11rº elfesset, Tunart Lq 24vo elmeymun, Baitar no 1655 ennes, Tunart passim eššišeyt, Tunart La 12vo etterenž, Abdun no 22 Guzūla, Ansab p. 43 ibawen, Abdun no 1982 ibn Wegadir, Tadili p. 460 ibn Welwun, Tadili p. 164 ibn Wemyar, Ansab p. 29 ibn Wendelus, Tadili p.348 idgel, Tunart Lq 23ro Ifeštalen, Ansab p. 45 iger en wesennan, Baidhag p. 78 iγrey, Tunart Lq 23v° ikiker, Tunart La 14rº imi en tegemmi, Baidhaq p. 120 irden, Tunart La 6vº isidan, Tunart Lq 11rº izrey, Kutami III 24 ižž, Abdun no 1584

tabezzuyt en tili, Kutami II 108 taferzizt, Kutami IV 167 tafrut, Jazzar p. 55 tafrut wuššen, Kutami IV 20 tagwendest, Jazzar p. 147 taγ<sup>w</sup>endest, Abdun no 1599 tayeyyeyt, Maimonides no 24 tayzut en walud, Baidhaq p. 93 takkewt, Jazzar p. 149 taleggwit, Abdun no 939 tamart en tayatt, Kutami IV 134 tamemmašt, Kutami I 58 tamert Wemsun, Baitar no 2015 taneyit, Jazzar p. 167 taneyut, Jazzar p. 167 targa en wudi, Bakri p. 59 taryal, Abdun no 2673 tasaft, Kutami I 75 tasliywa, Maimonides no 392 tasselt, Kutami I 45 tašentit, Tunart La f.6v° tayda, Kutami I 33 tazeğğašt, Tunart La 6rº tazert, Abdun no 327 terrehla, Baitar no 413 teštiwan, Jazzar p. 97 tibi, Tunart Lq 24v° tibi en waman, Abdun no 685 tibi en Meser, Tunart Lq 24v° tibinsert, Tuhfa no 413 tibitast, Tunart La 15rº tifaf, Kutami II 113 tigirutan, Jazzar p. 142 tikida, Tunart La 13r° tilett en yenerfed, Abdun no 658 tilett tefiyra, Abdun no 635 tilfaw, Tunart Lq 25r° tiqqi, Tunart La 13r°

tisent en wezru, Tunart La 7r°

Tittawin, Baidhaq p. 93

tizext, Tunart Lq 23r°

tiznirt, Tunart Lq 23r°

tululit, Kutami II 156

tunin en wegellid, Bakri p. 156

tunžifin, Tunart La 6v°

turufin, Tunart La 15r°

turza, Bakri p. 179

tuwedfa en yegran, Tunart La 25r°

udad, Tuhfa no 17

Uguzulen, Ansab p. 43

Uγzafen, Ansab p. 46
ukermuden, Tunart Lq 25r°
ukkan, Tunart La 14r°
ummad, Tunart Lq 23r°
wamsa, Tunart La 14r°
war ellaγ, Kutami IV 168
warellaγ, Tunart La 14r°
waylellu, Tunart La 14r°
xizzu, Tuhfa no 93
yeddex<sup>w</sup>ten, Kutami IV 168
yeludi, Tunart La 14r°

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