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VI.1

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VI.1

CROSS-COMMUNAL SCHOLARLY INTERACTIONS

Nathan P. Gibson¹ and Ronny Vollandt

The current chapter is concerned with particular fields that held a special position in cross-communal scholarly interaction: medicine, the natural sciences and the mathematical sciences. These constituted domains of knowledge that did not directly overlap with scriptural disciplines such as exegesis or law (and so are in what Goldstein [2002] calls a “neutral zone”). As a result, these were perhaps the domains where the most wholesale exchange of knowledge could take place among different communities. We attempt here to understand in concrete terms where and in which contexts cross-communal scholarly interactions took place.²

VI.1.1 Introduction and state of research

“Creative symbiosis” is the irenic term that was coined by Shlomo Dov Goitein (1900–1985) to describe various forms of cross-communal interaction among the members of different religious groups in the Near East.³ His research was based on the Cairo Genizah documents, which provide an unparalleled insight into everyday life, being a particularly fertile source for examining social and economic history. The “Genizah people” or “Mediterranean people,” as he would call the protagonists of his documents, were – it appears – members of a pluralistic Islamicate society and encompassed Jews, Christians and Muslims alike. Unlike in Europe, Jewish communities in the Islamicate world, as people of the book (*ahl al-kitāb* in Arabic), enjoyed the protection to exercise their faith, with similar protections extended to Christians and Zoroastrians.⁴ This freedom was based on the concept of *dhimma*, which can be translated as “contract of security,” granted by Muslim rulers on the condition that protected people (*dhimmī*, collectively *ahl al-dhimma*) respected certain rules of conduct and paid a poll tax (*jizya*) and a collectively levied tax on agricultural land (*kharāj*). Furthermore, Jews and Christians were not subject to limitations or professional restrictions in the economic sphere and were given the right to self-govern. The Genizah texts give evidence that Jews, Christians and Muslims lived in very close proximity, were business partners and even owned houses jointly.⁵

It seems a somewhat abstract commonplace in modern scholarship that these everyday social relationships were echoed in scholarly exchanges (Freidenreich and Goldstein 2012; Ben-Shammai *et al.* 2013). There is a consensus that confessional boundaries seem to blur in intellectual pursuits. The permeability among the learned elite – that is, the mutual exchange among all societal components that Hodgson (1974) has termed Islamicate – naturally follows from the fact that

these communities shared a language. After the Islamic conquests in the 1st/7th and 2nd/8th centuries and following the practices of the chancelleries of the newly installed rulers, Arabic slowly became the common language of the entire region and the spoken tongue of most of its non-Arab inhabitants (with the exception of those living in Iran and Central Asia and regions only later coming under Muslim rule in Africa, Asia and Europe). By virtue of this paradigmatic shift, by the 3rd/9th century, a unifying Arabic literacy had come into being that encompassed both Muslim and non-Muslim writers. The educated elite and the common people, who partook much less actively in the realm of intellectual high culture, shared a similar cultural background, speaking and writing in the same language.

All texts, terminology, innovative literary models, textual practices and genres composed in Arabic could easily travel beyond communal barriers. Examples can be adduced from almost all fields of learning (which, of course, partly overlap): exegesis (Zucker 1984; Ben-Shammai 2003), philosophy (Ben-Shammai 1997), theology (*kalām*; Bertaina 2014, 2015; Griffith 1994), grammatical thought (Becker 1993, 1995; Basal 1988, 1999), legal reasoning (Freidenreich 2014; Libson 2003; Salaymeh 2015), medicine (Pormann and Savage-Smith 2007[CB])⁶ and the mathematical sciences (Goldstein 2002). Hava Lazarus-Yafeh (1992, 4) described the result as “a palimpsest, layer upon layer, tradition upon tradition, intertwined to the extent that one cannot really grasp one without the other, certainly not the later without the earlier, but often also not the earlier without considering the shapes it took later.” Different terms have been used to conceptualize this entangled textual commonality shared by Jews, Christians, Muslims and others inhabiting the same space. Terms such as *impact* and *influence* stress the agency of the donor community, and *acculturation* and *appropriation* stress the agency of the receptor community (Freidenreich and Goldstein 2012, 1). However, all these terms exhibit explanatory models that reduce complex forms of interaction to static binary encounters. Even the images of “cross-pollination” (Goodman 1995, 1999; Montgomery 2007) or “intertwinement” (Lazarus-Yafeh 1992), which profess reciprocity, struggle to fully capture the multiple, simultaneous dynamics of cross-communal engagement.

This chapter begins by discussing interactions that occurred primarily through texts, as scholars shared books and exchanged ideas, terminology and concepts (Section VI.1.2). But the chapter goes beyond this textual sphere, asking questions about the personal and professional networks that underlay the textual encounters and about the spheres in which scholars met. Further themes concern particular venues or occasions and social factors that encouraged cross-communal interactions. To address a much-needed area of research, we pursue these questions in a preliminary way in three sections (VI.1.3–VI.1.5).

In previous research, one very particular type of interaction has been heavily emphasized – the *majlis* (plural *majālis*). The *majālis* were public or semipublic meetings, sometimes at a caliph’s or emir’s court, that included disputations on a variety of religious topics. Jewish, Christian and Muslim sources provide ample details on such debates (Lazarus-Yafeh *et al.* 1999). For example, the historian al-Maṣūḍī (d. 345/956) mentions in his *Book of Admonition and Revision* (*Kitāb al-Tanbīh wa-l-ishrāf*) that he had been involved in many debates with Abū Kathīr al-Kātib, the scribe, of Tiberias (d. 319/932) on the subject of the abrogation of law (*naskh*; on identifying al-Kātib, see Polliack 1997, 12 n. 39; Zucker 1984, 253 n. 266). Al-Maṣūḍī also reveals that Abū Kathīr was the teacher of Sa’adia Ga’on (268–330/882–942) and relates that the latter attended the *majlis* of the vizier Ibn al-Jarrāh (245–335/859–946) and his entourage (al-Maṣūḍī 1894, 112–4). As fascinating as it is to trace these cross-communal *majlis* connections, they show only a sliver of the spectrum of scholarly interactions. *Majālis* appear to have been highly formalized and performative encounters among specially chosen, distinguished scholars, who followed a strict protocol and sometimes used polemic for effect.

The following discussion also wrestles with three basic difficulties underlying the topic of cross-communal scholarly interactions, which can be noted here but not fully resolved. The first is holding in tension the fact that medicine, the natural sciences and the mathematical sciences were considered faith-neutral and rational, as mentioned earlier, while grasping that they were not really “secular.” On one hand, the need to reconcile Galenic and Aristotelian views with belief systems stemming from the Bible or the Qurʾān seems to have hardly hindered an active interchange and sometimes synthesis across communal boundaries. On the other hand, it was very often the case that scholars who were involved in these areas led their respective religious communities and engaged in apologetic and polemic discourse rooted in the same philosophical systems that undergirded their work in the natural sciences. With the important exception of “prophetic medicine,” which was based on *ḥadīths* (Pormann and Savage-Smith 2007, 71–5; Bürgel 2016[CB], 34–47), these sciences were neither separable from theological disciplines nor wedded to them.

The second difficulty concerns the language of borrowing, which presumes that *one* group borrows from or is influenced by the *other* (Salaymeh 2013, 412–3). Underlying such language is the notion of intellectual authenticity, that only the latter group can claim ownership over a particular scholarly practice, whereas it enters the former group as an alien influence. Thus, this practice must inevitably pass an imagined border. It is the modern interpreter who presumes to reify here a certain directional vector and the moment it passes such a border. Such language obscures, and actively ignores, the historical reality of hybridities in the Islamicate world. Sarah Stroumsa (2011) offers an alternative model, in which she suggests that the flow of ideas was never unilateral or linear, originating in one community and being transmitted to another but, rather, went back and forth. This movement created something she proposes calling a “whirl-pool effect.”

This brings us to the third difficulty, somewhat connected to the previous, which is the slipperiness of these scholars’ religious affiliations in both primary sources and research literature (Salaymeh 2013, 413–4). Almost all medieval scholars seem to have been associated with some religious community on a social level, and some important social categories were defined in religious terms (e.g., Muslim and *dhimmi*). What this association actually meant regarding their beliefs or practices, however, could cover a very wide spectrum and should never be assumed on the basis of a label alone. For example, the scholar of mathematical sciences Ibn al-Haytham ([354–c. 430/965–c. 1040]; Alhazen in Latin; Vernet 1986b) might superficially appear to have been a Muslim – indeed, he wrote a treatise on finding the *qibla* – but he claimed to have set aside confessional disciplines deriving from scriptural revelation in order to reach epistemological certainty:

I became engrossed in the variety of views and creeds and the kinds of religious knowledge, but I did not have the good fortune to benefit from any of them. They did not help me recognize the path of truth or follow a renewed course to certainty. So I saw that I could not get to the root of truth except by conceptions whose origins are sensory and whose forms are intelligible.

(*Ibn Abī Uṣaybiʿa* 1884[CB], 2: 92, 2020[CB], 14.22.4.1)⁷

He proceeds to explain that the only approach he found adequate was an Aristotelian one, beginning with classification and logic and ending with a metaphysical account of God. Another example is Yūḥannā ibn Māsawayh (d. 243/857–8), who is called a “Christian” but who reportedly insulted the Catholicos-Patriarch with obscenities and shooed away monks from his sickbed with the remark, “A bit of rose perfume is better than the prayers of all Christians” (Ibn

Abī Uṣaybi‘a 1884, 1: 186, 2020, 8.26.7). Similarly, it is difficult to know how to concretely interpret supposed “conversions” (Stroumsa 2015). In addition to these issues regarding the spectrum of connotations for affiliation labels, one also has to question the accuracy of the sources that use them. A classic case is that of ‘Alī ibn Rabban al-Ṭabarī (3rd/9th century), who is known to have been a Christian convert to Islam but whom the Muslim biographers Ibn al-Qifṭī (568–646/1172–1248) and Ibn Abī Uṣaybi‘a (d. 668/1270; Vernet 1986a) label as originally Jewish due to confusion over his father’s title, “al-Rabban” (Thomas 2000). In the following, then, it should be understood that these factors make it impossible to use confessional labels such as “Jewish,” “Christian” or “Muslim” with consistent or certain meaning – the biography of each scholar must be consulted individually.

VI.1.2 Textual production and migration

At the level of texts, it is clear that there was interaction between the scholars of different communities. The presence of Christian and Muslim books on Jewish bookshelves, for example, is well attested in medieval Jewish book lists from the Cairo Genizah that document private catalogs, booksellers’ lists and library inventories (Allony 2006).

The fields of natural science and medicine feature prominently in these lists. Miriam Frenkel (2017) has shown that many of the buyers and owners come from a well-defined social circle. Some were physicians and held public office in the Muslim administration; others were judges or cantors in the Jewish community. One list, recording the sale of books from the estate of Rabbi Abraham the Pious (Abraham he-Ḥasid, 7th/13th century), notes explicitly that a number of medical works were sold to Muslim colleagues (Frenkel 2017, 240; Allony 2006, n. 67) – for example, copies of Ibn Rushd’s (520–595/1126–1198) *General Principles of Medicine* (*al-Kulliyāt fī l-ṭibb*), a multiple-text manuscript with Hippocratic medicine and a separate book on ophthalmology were sold to a certain Ḥājj Bū Muḥammad. These transactions indicate that books circulated among equal-ranking members of the same profession in governmental service, irrespective of their denomination.

Specimens of such books have survived in the Cairo Genizah, where they seem to have been deposited together with manuscripts in Hebrew script that would have formed the larger part of the collections documented in the lists (Figure IV.1.1). Compositions of Christian Arabic provenance that were disseminated among Cairene Jews consist of works addressing a broader, general readership, such as medical science or philosophy (Szilágyi 2006). Among them one finds an early fragment of *Definitions of Logic* (*Kitāb ḥudūd al-manṭiq*; Ferrario and Vollandt 2010) by Ibn Bahrīz (2nd half 2nd–early 3rd century/2nd half 8th–early 9th century), *Questions on Medicine* (*Masā’il fī l-ṭibb*) by Ḥunayn ibn Ishāq (d. 260/873), *The Introduction to the Art of Geometry* (*al-Madkhal ilā ṣinā’at al-handasa*) of Qusṭā ibn Lūqā (d. c. 299/912), *The Reminder of the Oculists* (*Tadhkirat al-kaḥḥālīn*) by ‘Alī ibn ‘Īsā (d. 1st half 5th/11th century), and *The Physicians’ Dinner Party* (*Da’wat al-aṭibbā’*) of Ibn Buṭlān (d. 458/1066); many of these were considered standard reading for Jewish physicians. Arabic translations of the Aristotelian corpus (including commentaries thereon) can also be found (Khan 1986). A great many copies of works in Arabic by Hippocrates (particularly the *Aphorisms*) and Galen survive. Further attested are the *Diwān* of Ṭarafa ibn al-‘Abd Abū ‘Amr al-Bakrī al-Wā’ilī (6th century) and that of al-Mutanabbī (d. 354/955), various Arabic grammars (Vidro and Kasher 2014) and books on rhetoric. Several disciplines stand out: Arabic language and literature, studied by Jews and Christians in training for governmental service, as well as science and philosophy, as preparation for the medical profession.

Although no systematic survey has been undertaken of Jewish ownership of Arabic-script manuscripts (which could be done, e.g., on the basis of owners’ marks, marginalia in Hebrew

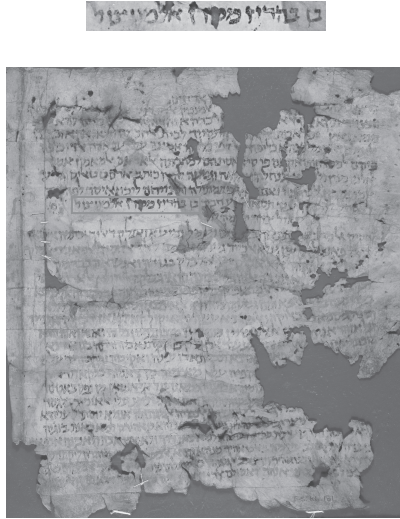


Figure VI.1.1 Detail of the name “Ibn Bahrīz Muṭrān al-Mawṣili” (2nd half 2nd–early 3rd/late 8th–early 9th centuries) in a Genizah fragment (from Cambridge, Cambridge University Library, T-S K6.181r, 4th/10th century). The fragment is an example of Christian Arabic works circulating in a Jewish context, since it preserves in Judeo-Arabic a portion of the treatise *Definitions of Logic* (*Kitāb ḥudūd al-manṭiq*) by the Christian East Syriac metropolitan, ‘Abdīshū‘ ibn Bahrīz (Ferrario and Vollandt 2010).

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letters and colophons mentioning copyists with unambiguously Jewish names), van Koningsveld (1992) has been able to identify a number of medical manuscripts from al-Andalus that were in the possession of Jewish physicians. Jews even transmitted Christian and Muslim works on grammar, medicine (with Ibn Sīnā’s [d. 428/1037] *Canon of Medicine* [*al-Qānūn fī l-ṭibb*] the most popular), astronomy and astrology, philosophy, geometry and meteorology, together with various almanacs transcribed into Hebrew letters (Langermann 1996a, 1996b; Steinschneider 1893, 1897).

We also find Jewish and Muslim texts in Christian Arabic collections, with medical and scientific texts appearing to have been the most widespread. Some of the books are biblical or post-biblical in their content, such as Sa’adia Ga’on’s *Commentary* (*Tafsīr*) or an Arabic translation of *Sefer Josippon*, both originally composed in Judeo-Arabic for a Jewish readership. They were transcribed in Arabic letters in the course of transmission and disseminated among both Christians and Muslims (Vollandt 2014, 2018). As earlier, no systematic study exists, and indeed only a few collections are catalogued well enough to allow such an investigation, but a few examples will suffice to attest to the cross-communal circulation of such books. Representative of a monastic context, MS Sinai, Ar. NF Paper 11, at the Monastery of St. Catherine’s, contains the *Complete Book of the Medical Art* (*Kitāb kāmīl al-ṣinā’a al-ṭibbiyya*; Ullmann 1970[CB], 140–6) by ‘Alī ibn al-‘Abbās al-Majūsī (d. c. 384/994), copied by the Christian scribe Khalīl ibn Hibbat Allāh ibn Abī Alūfā ([fl. late 7th/13th century?]; Meimaris 1985, 40/٧٤). Equally, the manuscript collection in the Coptic Orthodox Patriarchate (Simaika 1939, 2: 486–7) contains a few Muslim medical works (MSS Varia 17, 18, 20, 21, and 22) – these include the *Medical Handbook* (*Tadhkira*) of Dāwūd al-Anṭāki ([d. 1007/1599]; MS Varia 20; see Ullmann 1970, 181) and Ibn Sīnā’s *Canon of Medicine* (MS Varia 21), as well as a work titled the *Splendid Book* (*Kitāb al-fākhira*;

MS Varia 17), of Jewish provenance, which is attributed to a certain ‘Abdallāh al-Isrāʾīlī, the physician.

Similarly, albeit from much later times, medical treatises in Arabic were also transmitted in Syriac script (Garshuni) among Christian communities. Examples of this include MSS Jerusalem, St. Mark’s Monastery, 236 (two medical treatises on diseases and on remedies) and 238 (*Complete Book of the Medical Art* [*Kitāb kāmīl al-ṣināʿa al-ṭibbiyya*] by al-Majūsī); MSS Mardin, Church of the Forty Martyrs, 556 (medical treatise) and 555/2 (treatise on medical knowledge); MS Batnaya, Chaldean Church of Batnaya, 51 (recipes); and MS Mosul, Syrian Orthodox Archdiocese of Mosul, 206 (medical treatise).⁸

VI.1.3 Teacher–student relationships and learning circles

Examples of cross-communal learning abound in medieval bibliographic and biographical works, such as Ibn al-Nadīm’s (d. 380/990) *Catalogue* (*Fihrist*) and Ibn Abī Uṣaybiʿa’s 7th/13th-century *History of Physicians* (*ʿUyūn al-anbāʾ fī ṭabaqāt al-aṭibbāʾ*, literally *Choice Accounts of the Classes of Physicians*). Some of these were formally acknowledged teacher–student relationships, while others were one-off consultations. Again, some examples must suffice in place of a systematic study, which is still needed.

In Baghdad and its environs, Christian scholars involved in translating classical Greek or Syriac works into Arabic would have been natural tutors for the works they translated, commented on and summarized. Biographers do not seem to have been surprised by intellectual lineages like that of the West Syriac Christian logician Yaḥyā ibn ʿAdī ([d. 363/974]; Endress 2002; Ibn al-Nadīm 1970[CB], 2: 631; Ibn Abī Uṣaybiʿa 1884, 1: 235, 2020, 10.22), who studied under the Muslim philosopher al-Fārābī (d. 339/950–1), himself a student of the East Syriac Christian philosopher Yūḥannā ibn Ḥaylān (*fl.* late 3rd–early 4th/late 9th–early 10th century; Walzer 1991; Janos 2015; Ibn Abī Uṣaybiʿa 1884, 2: 135, 2020, 15.1.2).

On issues of scriptural exegesis, scholars are known to have consulted associates from other communities, and the same type of activity is likely in other fields. (Scriptural consultations are also attested indirectly through the reception by Muslim writers of biblical material from non-Arabic languages or scripts, such as Syriac and Judeo-Arabic [Adang 1996; Griffith 2004; Gibson 2017].) One well-known example stems from the academy of Pumbedita, the Geonic academy that had moved to Baghdad at the beginning of the 4th/10th century, where Hai Gaʿon (327 or 328–429/939–1038) requested that the Sicilian Maṣliḥ bar Eliyahu (Ibn al-Baṣāq) inquire of the East Syriac Catholicos regarding Syriac commentary traditions for an enigmatic verse, Psalm 141:5 (Dubovick 2018). When Maṣliḥ objected, Hai Gaʿon responded, “Our pious forefathers [...] would inquire regarding languages and their explanations from members of different religions, even from shepherds and cow-hands” (Dubovick 2018, 99). A more specific example of literary exchange that involved both philosophical and medical questions is the correspondence of two Jews from Mosul with the Christian scholar and translator Yaḥyā ibn ʿAdī, mentioned above. The inquirers, Bishr ibn Samʿān and Ibn Abī Saʿīd, show that they are familiar with the work of Thābit ibn Qurra (d. 288/901), a Sabian from Harran. Yaḥyā suggests they might receive a better answer from one of Bishr’s own acquaintances, the Christian physician and translator Ibn Bakkūsh (Sklare 1996, 115–6 and n. 52).

Cross-communal instruction seems to have been quite prevalent not only in Iraq, but also in Cairo throughout the Fatimid, Ayyubid and Mamluk periods. The Muslim physician Raḍī al-Dīn al-Raḥbī (534–631/1139 or 1140–1233) reportedly considered Jews and Christians unworthy to be his students (Ibn Abī Uṣaybiʿa 1884, 2: 193, 2020, 15.36.1.1). Yet the fact that a biographer would remark on his stance seems to reveal that it was rare. Moreover, al-Raḥbī made an exception for

the Jew ‘Imrān al-Isrā’īlī ([560–637/1165 or 1166–1239]; Ibn Abī Uṣaybi’a 1884, 2: 213–4, 2020, 15.42) and for the Samaritan Ibrāhīm ibn Khalaf (late 6th–early 7th/12th–13th centuries), both of whom became prominent physicians according to Ibn Abī Uṣaybi’a. Al-Raḥbī was himself a student of the famed Egyptian Jewish scholar Ibn Jumay’ ([d. c. 594/1198]; Ibn Abī Uṣaybi’a 1884, 2: 112–5, 2020, 14.32; Nicolae 2017), personal physician to Ṣalāh al-Dīn (r. 564–589/1169–1193), and of the eminent Christian medical scholar Ibn al-Tilmīdh ([d. 560/1165]; Meyerhof 1986). Thus al-Raḥbī’s own connections militate against any general inference that Muslim scholars were generally reticent to teach non-Muslims. Ibn Abī Uṣaybi’a similarly comments that Sa’īd ibn Hibat Allāh ibn al-Ḥusayn ([436–495/1045–1101]; Ibn Abī Uṣaybi’a 1884, 1: 254–5, 2020, 10.58) refused to teach Jews but made an exception for Abū l-Barakāt al-Baghdādī ([d. c. 560/1164–5]; Ibn Abī Uṣaybi’a 1884, 1: 287, 2020, 10.66.1; Pines 1986).

In fact, the learning circles of Ibn Riḍwān ([388–453/998–1061 or later]; Schacht 1986b) in Cairo and later of Ibn Abī Uṣaybi’a in Cairo and Damascus suggest the opposite. Ibn Riḍwān, a self-taught scholar and a Muslim (in some respects, anyway), became chief physician under the Fatimids and an intellectual ancestor to several Jewish physicians. He dedicated works to the doctor Yahūdā ibn Sa’āda (presumably Jewish, otherwise unknown) and taught another Jewish physician in the Fatimids’ employ, Afrā’īm ibn al-Zaffān (Schacht 1986b). The latter’s Jewish student Salāma ibn Raḥmūn was well known in intellectual circles and had a son Mubārak, who, according to Ibn Abī Uṣaybi’a (1884, 2: 106–7, 2020, 14.28), was “an eminent physician.” Ibn Riḍwān’s scholarship was thus disseminated throughout the Jewish community of 5th/11th-century Cairo, and manuscripts from the Genizah in fact mention his writings.

Ibn Abī Uṣaybi’a’s report of his own network is similarly diverse, showing learning in the other direction, from Jewish and Christian teachers to Muslim students.⁹ On the Jewish side, he mentions that his own father, Sadīd al-Dīn al-Qāsim (575–649/1179 or 1180–1251), studied under Moses Maimonides ([d. 601/1204]; Ibn Abī Uṣaybi’a 1884, 2: 247, 2020, 15.51.1). Later, between 631/1233 and 632/1235, Ibn Abī Uṣaybi’a met Maimonides’s son Abraham (581 or 582–635/1186–1237), a fellow physician, while working in a Cairo hospital (Ibn Abī Uṣaybi’a 1884, 2: 118, 2020, 14.40.2). Ibn Abī Uṣaybi’a also had the opportunity to witness the side-by-side labor of his teacher al-Dakhwār (d. 628/1230, chief physician of Egypt and Syria under the Ayyubid Sultan al-‘Ādil I [r. 596–649/1200–1252]; Joosse 2018) with the Jewish physician ‘Imrān al-Isrā’īlī in the Nūrī Hospital of Damascus (*al-bīmāristān al-nūrī*): “Every benefit resulted from their collaboration, and they were prepared to offer to the patients every good kind of treatment” (Ibn Abī Uṣaybi’a 1884, 2: 214, 2020, 15.42, see also 15.50.3).

Christians and converts from Christianity were also significant in Ibn Abī Uṣaybi’a’s circles in Ayyubid Damascus and Mamluk Cairo. His intellectual lineage went back to a Christian convert to Islam, Raḍī al-Dawla (6th/12th century), son of Ibn al-Tilmīdh (Ibn Abī Uṣaybi’a 1884, 1: 264–5, 2: 203, 2020, 10.64.16, 15.40.3). Ibn Abī Uṣaybi’a’s primary teacher, al-Dakhwār, was the “best student” of another Christian convert to Islam, As’ad ibn al-Muṭṭarān (d. 587/1191) and spent much time with him (Ibn Abī Uṣaybi’a 1884, 2: 179, see also 2: 193, 239, 2020, 15.23.4.1, see also 15.36.1, 15.50.1). The Christian Ya’qūb ibn Siqlāb (d. c. 626/1229) also met frequently with al-Dakhwār, and Ibn Abī Uṣaybi’a (1884, 2: 215, 2020, 15.43.1) describes his therapeutic skills as unrivaled. By his own account, Ibn Abī Uṣaybi’a himself met the Samaritan vizier Yūsuf ibn Abī Sa’īd (d. 624/1227; Ibn Abī Uṣaybi’a 1884, 2: 233–4, 2020, 15.48) and corresponded with a Samaritan convert to Islam, the vizier Amīn al-Dawla ([mid-7th/13th century]; Ibn Abī Uṣaybi’a 1884, 2: 235–7, 2020, 15.49.6). Biographies such as those of Ibn Riḍwān and Ibn Abī Uṣaybi’a give every indication that medical education exemplified the “whirlpool effect” of Stroumsa (2011) mentioned earlier.

VI.1.4 Patronage and clientele

No doubt a factor in the pluralistic composition of medieval scholarship in the Islamic world was the fact that caliphs, sultans and other high-ranking personalities employed experts from all communities (Fiey 1980; Yarbrough 2012, 364, 380; Cabrol 2000; Sirry 2011). The eminent place of non-Muslim (*dhimmī*) scholars in these retinues sometimes brought down the ire of leading Muslim thinkers such as the polemicist al-Jāḥiẓ (d. 255/869), who blamed the prestige of these intellectuals for the vacillation of Muslim believers (al-Jāḥiẓ 1964–1979, 3: 315–6; Gibson 2015). He argued, moreover, that Christians were not real scholars but, rather, mere conveyors of Greek classical knowledge, which they had inherited by geographical accident. Muslim rulers who employed non-Muslims in high positions also faced a problem of public perception because of the Qurʾānic injunctions against seeking the help and friendship of nonbelievers. However, none of these arguments or principles seem to have much dampened the desire of Muslim rulers to recruit the best scholars and practitioners, wherever they might be found on the religious map. When Caliph al-Mutawakkil (r. 232–247/847–861) attempted to ban non-Muslims from positions of authority over Muslims (as other rulers both before and after him also tried to do), he exempted his personal staff from this prohibition (Yarbrough 2012, 364, 380). Indeed, the very fact that prohibitions against hiring *dhimmīs* continued to be repeated suggests that the issue remained salient for several centuries. In Iraq under the early Abbasids, it was Christian translators, secretaries and doctors who were especially visible recipients of the rulers' patronage, and it would take a few generations before Muslim or Jewish physicians would outshine the reputation of Christian ones.

Despite these perceptions, there were some prominent Jewish public intellectuals, for example in the sciences of the stars. The Jew Māshāʾallāh ([d. c. 199/815]; Kennedy and Pingree 1971; Pingree 1975), whose Hebrew name was Misha according to Ibn al-Nadīm (1970, 2: 650), was among the astrologers whom the second Abbasid caliph, al-Manṣūr (r. 136–158/754–775) consulted regarding the date on which to found the city of Baghdad (Samsó 1991). Other prominent Jewish astrologers in the 3rd/9th century included Sahl ibn Bishr (d. c. 235/850) and ʿAlī ibn Dāwūd (Goldstein 2001, 26).

In the following century, scholars would move to Qayrawan and Cairo and find support there from the Fatimid rulers, beginning several hundred years of rich, cross-communal collaboration. A picture of this emerges from comparing historiographical sources with Genizah documents, which sometimes mention the same figures and certainly depict many similar aspects of scholarship and medical practice. It is also under the Fatimids that the role of Jewish physicians would become vital in this exchange. One of the most influential of these, and a particularly notable example of cross-communal patronage, was Iṣḥāq ibn Sulaymān al-Isrāʾīlī ([d. after 320/932]; Ibn Abī Uṣaybiʿa 1884, 2: 36–7, 2020, 13.2; Ṣāʿid al-Andalusī 1985[CB]). He was a Neoplatonic philosopher and physician born in Egypt, who migrated to Raqqāda and Qayrawan to serve the last Aghlabid emir, Ziyādāt Allāh III (r. 290–296/903–909). While there, he studied with Iṣḥāq ibn ʿImrān (d. around 295/908), a Muslim physician from Baghdad, who had also been recruited by Ziyādāt Allāh III. Iṣḥāq al-Isrāʾīlī was subsequently appointed court physician by the Fatimid ruler ʿUbayd Allāh al-Mahdī (r. 297–323/910–934). His books included both medical treatises and philosophical works (Guttman 1911; Altmann 1979; Altmann and Stern 1958; Sezgin 1970, 3: 295–7; Levin *et al.* 2018), topics about which Saʿadia Gaʿon corresponded with him while the latter was still in Egypt (Fenton 2002, 3–4, 12; see also Altmann and Stern 1958; Hirschberg 1974, 271). Iṣḥāq al-Isrāʾīlī's legacy in Qayrawan would live on through his pupils, Aḥmad ibn Ibrāhīm ibn Abī Khālīd (Ibn al-Jazzār [d. 395/1004 or 1005]; Sezgin 1970, 304–7; Ibn Abī Uṣaybiʿa 1884, 2: 37–9, 2020, 13.3) and Dūnash ibn Tamīm ([d. c. 349/960];

from *dhū nās*, “master of men,” translated from the Hebrew Adonim; Vajda 2002; Sezgin 1970, 295–7). The latter served as a physician to the Fatimid Caliph al-Manṣūr (r. 334–341/946–953) in Qayrawan, and both men penned influential treatises.

Somewhat later, in 405/1015, Hai Gaʿon at the academy of Pumbedita (mentioned above) appointed the physician Abraham ibn Nathan ([1st half of 5th/11th century]; Ibn ʿAṭā) as “Nagid *ha-gola*” or “prince” of the diaspora, a duty which apparently overlapped with the medical services he provided to the Zirid rulers of Tunisia, Bādīs ibn al-Manṣūr ([r. 386–406/996–1016]; Idris 1986) and his son al-Muʿizz ibn Bādīs ([r. 406–454/1016–1062]; Talbi 1993; Goitein 1971, 24, 244; Ben-Sasson 1996, 1997). The title may have been, in part, a formal acknowledgment of Abraham’s intercession on behalf of the Jewish community (Goitein 1971, 24). This kind of throne-room diplomacy was a role that numerous preeminent scholars, both Jewish and Christian, were called on to play as *de facto* heads of their communities (Goitein 1971, 243–5 and n. 12). An example is the case of Samuel ben Ḥananya (Abū Manṣūr, in office 533 or 4–553 or 4/1140–1159), who was asked to intercede regarding the tax on sugar makers (MSS Cambridge, CUL, T-S 10J15.29 + T-S 10J15.32).

The Fatimids’ move to Cairo in 362/972, with physicians in attendance and a program of support for medicine, may well have been one of the catalysts that spurred on the practice of medicine in the Egyptian Jewish community. Ibn Abī Uṣaybīʿa (1884, 2: 88, 2020, 14.14.3) specifically mentions court physicians who came in the retinue of the Caliph al-Muʿizz (r. 341–365/953–975). Indeed, al-Muʿizz and his successors al-ʿAzīz (r. 365–386/975–996) and al-Ḥākīm (r. 386–411/996–1021) seem to have cultivated a large cadre of Muslim, Jewish and Christian medical experts in Cairo, according to the account of Ibn Abī Uṣaybīʿa. The legacy of Christian scholarship from Baghdad was already circulating in the region, in part through Ibrāhīm ibn ʿĪsā (d. c. 260/873–874), who studied with the famous physician Yūḥannā ibn Māsawayh and later migrated to Fustat (near Cairo) with his employer Aḥmad ibn Ṭulūn ([r. 254–270/868–884]; Ibn Abī Uṣaybīʿa 1884, 2: 83, 2020, 14.2). Yūḥannā ibn Māsawayh’s name appears frequently in Genizah medical fragments. It was under al-Muʿizz that one of the preeminent Jewish medical families became established, that of Moses ben Eleazar (d. after 363/973), who had come from Oria in southern Italy by way of Tunisia and was another student of Iṣḥāq al-Isrāʾīlī (see earlier). Al-Muʿizz employed Moses together with his two sons Iṣḥāq (d. 363/973 or 974) and Ismāʿīl and his grandson Yaʿqūb ibn Iṣḥāq. A great-grandson, also named Moses, seems to have served the Fatimid court well into the next century (Ibn Abī Uṣaybīʿa 1884, 2: 86, 2020, 14.9; Goitein 1971, 2: 243 and nn. 9, 10).

Al-Muʿizz’s son and heir, al-ʿAzīz, employed at least two Christian physicians: the Melkite Sahlān ibn ʿUthmān (d. 380/991) and Manṣūr ibn Sahlān ibn Muqashshir (d. before 411/1021). The latter served into the reign of al-Ḥākīm and was reportedly a favorite of his. On his death, he was succeeded in al-Ḥākīm’s retinue by another Christian, Iṣḥāq ibn Ibrāhīm ibn Naṣṭās ibn Jurayj, who also died during al-Ḥākīm’s reign and was replaced by the eminent Ibn Riḍwān (mentioned earlier), who became chief physician (Ibn Abī Uṣaybīʿa 1884, 2: 99–105, 2020, 14.25).¹⁰

During the reign of one of the later Fatimid caliphs, al-Āmir (r. 495–525/1101–1130), two particularly distinguished scholars migrated from Andalusia. One was Yūsuf ibn Aḥmad ibn Ḥasday, from the Jewish Ḥasday family of Andalusia, who attached himself to the vizier al-Maʾmūn al-Baṭāʾiḥī (held office 515–519/1121–1125). Ibn Abī Uṣaybīʿa (1884, 2: 51, 2020, 13.51.1) calls him “eminent in the medical profession” and says his reputation “became well known” during his time in Egypt. Yūsuf ibn Ḥasday’s own religious affiliation is unclear (Stroumsa 2015, 23, 27). The other was the Muslim Abū l-Ṣalt (460–529/1067–1134), who originated from Denia and was active first in Cairo and Alexandria around the turn of the 6th/12th century, and

T-S 8J20.26; Goitein 1971, 252). It is important to note that there is one indication of a religious boundary affecting medical practice, which is the absence of any documentation of Jewish patients convalescing in hospitals, even though Jewish physicians labored in them. Goitein (1971, 251–2) suggests this was to avoid transgressing dietary laws, but it is hard to make an argument from silence. In any case, the general picture is that medical services went in every direction, and that these interactions were an opportunity to exchange more than just prescriptions or medical advice.

VI.1.5 Shared workplaces

The fact that doctors from various communities worked at the court or in public hospitals provided an opportunity for them to engage with one another as colleagues, or sometimes as rivals. Schwarb cautions:

Very few documents provide evidence for an intellectual exchange between Christians and Jews during the Fatimid and Ayyubid periods, apart from the fact that Jewish and Christian physicians worked for the same institutions, the Bīmāristān al-Nāṣirī for example, and served as officials in the various government ministries (*dawāwīn*).

(Schwarb 2014, 114; see n. 26 for references)

Strictly speaking, it is true that most of the documentary evidence does not speak of the content of exchanges but simply puts Christians, Jews and Muslims active in the same times and places. But this in itself is quite significant as a circumstance for exchange. It may also be the case that Genizah documents indicate more about Jewish–Muslim than Jewish–Christian exchange. Nevertheless, historiographical sources can usefully complement this picture. Even though documentary texts (other than book lists) seldom inform us what colleagues discussed, they often indicate how they met. Together with literary and historiographical texts, one can synthesize from them a rich picture of cross-communal interaction in the workplace.

Scholarly rivalries were common, and a person's religious affiliation sometimes formed the vector for an attack, but it is not clear that interreligious collegial disputes were necessarily more common than intra-religious ones. Among the religiously diverse group of physician-scholars working under the Fatimids in the early 5th/11th century, the earlier dominance of Christians in the field of medicine and in the Greek classical sciences generally was being rivaled or even slowly surpassed by Jewish and Muslim expertise, according to the portrayal given by Ibn Abī Uṣaybi'a in his *History of Physicians*. This might have been the cause for – or a symptom of – certain rivalries. For example, Ibn Riḍwān had public and vicious disputes with the Christian philosopher-physician Ibn Buṭlān of Baghdad, who visited Fustat for about three years beginning in 441/1049 (Ibn Abī Uṣaybi'a 1884, 1: 241, 2020, 10.38.2–3). Yet their refutations of one another seem to have focused on scientific debate and some *ad hominem* attacks rather than religious wrangling (Ibn Buṭlān and 'Alī ibn Riḍwān 1937; Schacht 1986a, 1986b), even though Ibn Riḍwān is known to have engaged in religious polemic elsewhere.¹¹ Ibn Abī Uṣaybi'a does not comment on any religious dimensions of the Ibn Riḍwān–Ibn Buṭlān dispute, nor does he do so when he mentions the envy of the convert As'ad ibn al-Muṭrān for a certain Abū l-Faraj, a Christian in the service of Ṣalāḥ al-Dīn (Ibn Abī Uṣaybi'a 1884, 2: 176, 2020, 15.23.1.2), or the success of the Jewish physician al-Ḥaqīr al-Nāfi' ([late 4th–early 5th/10th–11th centuries]; Ibn Abī Uṣaybi'a 1884, 2: 189, 2020, 14.18) in treating a leg wound that had thwarted the Christian Ibn Muqashshir.¹² Workplace tensions could involve a religious dimension, but there does not seem to be evidence that religious differences ordinarily engendered conflict in medicine or

related fields. While some of these scholars wrote religious polemics,¹³ this fact alone should not be taken to indicate poor relationships among these communities – polemic writing could sometimes be an exercise of expressing intellectual disagreement with others without necessarily holding personal enmity toward them.

In contrast to scholarly rivalries, physicians sometimes furthered the careers of their associates from other communities. In one of the most significant documents to shed light on cross-communal scholarly interaction, a Jewish physician, Makārim ibn Iṣḥāq (1st half 7th/13th century), asked the sultan for the remainder of the pay (probably a stipend or allowance) of a certain al-As‘ad (*al-bāqī min jāmakīyyat al-As‘ad al-ṭabīb*), who worked in “the Cairo hospital” (MS Cambridge, CUL, T-S Ar.40.16; Richards 1992). What exactly he means by “the remainder” has not been conclusively settled, nor has the hospital to which he refers. But the references he provides – doctors known to the sultan – are a Christian physician (Abū Ḥulayqa [591–675/1195–1277]) and one who is either Christian or Muslim (al-Rashīd al-Dimashqī [1st half 7th/13th century]). Both of these, he says, “know the excellence of the humble servant’s knowledge of this art” (Richards 1992, 301). The communal ties of these experts apparently did not hinder them from putting in a good word for someone outside their community.¹⁴ Along similar lines, an aspiring Jewish medical student in Cairo who wanted a hospital position in Alexandria was advised by his Alexandrian cousin to get letters of recommendation from various prominent people, who happened to span the confessional spectrum (MS, Cambridge, CUL, T-S 24.67; cited in Goitein 1971, 249–50).¹⁵ Physicians and scholars were expected to know the work of their colleagues in other communities and be able to speak in their favor.

Physicians and apothecaries sometimes also physically shared workplaces with those of different confessions (Figure VI.1.3). A Genizah document records a court case in which an



Figure VI.1.3 Illustration of the preparation of a cough elixir in an Arabic manuscript of Dioscorides’s *On Medicinal Substances*. MS New York, The Metropolitan Museum of Art, acc. no. 13.152.6, Rogers Fund (1913); possibly from Iraq, dated 621/1224. This pharmacopoeia (handbook of medicinal drugs) was exceptionally popular among scholars of all communities and was first translated into Arabic in the 3rd/9th century by (among others) the Christian scholars Iṣṭifān ibn Basīl (1st half 3rd/9th century) and Ḥunayn ibn Iṣḥāq (d. 260/873). A Genizah document records a Jewish physician working with a Christian one in a medical drug shop.

Source: © The Metropolitan Museum of Art, New York Public domain.

apparently Jewish physician worked together with a Christian physician in a medical potions shop and thus had opportunity to witness the latter's affair with a Jewish woman (MS Cambridge, CUL, Or.1080 J93; Goitein 1970, 106–7, 1971, 253). Moreover, real estate dealings for the medicinal trade attested in the Genizah frequently involve relationships across communal lines (Goitein 1971, 262–4). While it may not be possible to know what arrangements were or were not typical for medicine shops, the evidence does not suggest anything unusual about sharing or transferring spaces between communities.

VI.1.6 Summary and future research directions

The differing sacred texts, observances, linguistic heritages and authority structures of Jews, Christians and Muslims in the medieval Islamicate world seem to have provided little hindrance to cross-communal scholarship. One might even go so far as to say that it was the exception rather than the norm for these distinctions to play a decisive role in scholarly exchange. Scholars from all these communities could read and transmit scientific texts in the common language of Arabic, whether in Arabic or Hebrew script, as attested by book lists and bibliographic histories. They could openly debate ideas in the *majlis*, even though they remained aware that those ideas sometimes had sensitive religious implications. Non-Muslims could usually study with leading experts and reach the pinnacle of professional success, notwithstanding their formal status as members of *dhimmi* communities (groups which were simultaneously protected and restricted). In fact, by virtue of their attainments they could often advocate on behalf of their own communities. And they could work shoulder-to-shoulder with scholars from other communities for the same patron, in the same hospital, or from the same shop.

Although this general picture of cross-communal scholarly interaction emerges from both documentary and historiographical sources throughout the medieval period, much of it has yet to be confirmed by systematic studies. Future research should focus on discovering the concrete details of both interpersonal and textual exchanges. On the interpersonal level, this would include the occasions of scholars' engagement across communities and the specific networks to which they belonged, both of which are necessary to identify the dynamics that helped or hindered collaboration. On the textual level, large-scale study of book ownership could reveal a flow of ideas in much richer detail than has previously been understood. Finally, future research must take into account the true complexity of these interactions: the slipperiness of affiliational labels and the "whirlpool effect" of multicomunal life and scholarship in Islamicate societies.

Notes

- 1 Work on this chapter has been funded in part by the German Federal Ministry of Education and Research as part of the project "Communities of Knowledge: Interreligious Networks of Scholars in Ibn Abi Usaybi'a's History of the Physicians" (<https://usaybia.net>).
- 2 The lack of comprehensive studies in this area necessarily limits our scope in this chapter. We have concentrated here on Egypt, Mesopotamia and Syria prior to the 8th/14th century. For a discussion of al-Andalus, see Chapter V.2.
- 3 See the development of this term in Goitein's thought (1949, 1955, 1967).
- 4 Nineteenth-century European scholars of the *Wissenschaft des Judentums* constructed a vision of a "Golden Age" in the history of Judaism, a myth of an interfaith utopia, as it were, mirroring their own struggle toward cultural, legal, and political inclusion. This was eventually replaced by a countermyth stressing the inferior status and suffering of Jews under Islam (Cohen 1986, 1991).
- 5 For example, MS Cambridge, CUL, T-S 8.4, a Genizah fragment that is often quoted in discussions of shared ownership of properties, contains a letter about a house in Minya Zifta that was jointly owned by the Muslim judge 'Alī ibn al-Qāsim and the son of a rabbi (Goitein 1971, 292; translated in Outhwaite *et al.* 2017, 23).

- 6 Consolidated bibliography.
- 7 Authors' translation, here and elsewhere for citations of this source. Readers may also wish to consult the parallel English translation using the cited paragraph numbers.
- 8 We are indebted to Adam McCollum for pointing these texts out to us.
- 9 It should be remembered that medieval sources sometimes used intellectual genealogies to represent scholars' pedigrees rather than their social relationships. Nevertheless, Ibn Abī Uṣaybī'a would probably not have reason to exaggerate his own connections to Jews and Christians.
- 10 Schacht (1986b) thinks his promotion to chief physician could not have been during the reign of al-Ḥākim, which ended when Ibn Riḍwān was 23, but must have rather been during the reign of al-Mustanṣir (r. 427–487/1036–1094 or 5).
- 11 He is reported to have written a refutation against the Christian Ibn Zur'a ([331–308/943–1008]; Abū 'Alī 'Isā ibn Ishāq ibn Zur'a; Lewis *et al.* 1986; Monferrer Sala 2010) and the Jewish Afrā'im (presumably ibn al-Zaffān, Ibn Riḍwān's student, see Section VI.1.3) about the differences among religions (Ibn Abī Uṣaybī'a 1884, 2: 104, 2020, 14.25.9).
- 12 Al-Ḥāqir al-Nāfi' is known among biographers only by this epithet, which means something like "the contemptible one who is beneficial."
- 13 As well as the example of Ibn Riḍwān already discussed, a slightly earlier example is that of the Jewish philosopher 'Abd al-Masiḥ al-Isrā'īlī al-Raqqī (*fl.* late 4th or early 5th/late 10th or early 11th century), who became a Christian under the influence of Abū l-Faṭḥ Maṣṣūr ibn Muqashshir (mentioned in section VI.1.4) and wrote polemical works against Judaism. He mentions Ibn Muqashshir in the inscription in his book *Dialectic* (*Kitāb al-istidlāl*; Swanson 2010, 538; Samir 1991). His works include such titles as *Refutation of the Jews* (*al-Radd 'alā al-yahūd*) and *The Triumph of the Cross over Judaism and Paganism* (*Intiṣār al-ṣalīb 'alā al-yahūdiyya wa-l-wathaniyya*).
- 14 Rashīd al-Dīn Abū Ḥulayqa seems to have been active in Cairo from 599/1202 or 1203 (Richards 1992, 302). Ibn Abī Uṣaybī'a says that Abū Ḥulayqa's son converted to Islam (1884, 2: 130, 2020, 14.55.1), that Abū Ḥulayqa's grandfather was a Christian (1884, 2: 121, 2020, 14.49.1), and that he himself was "dedicated to the duties he undertook with much [religious] devotion" (1884, 2: 123, 2020, 14.54.1), all of which would suggest a Christian affiliation. Most of what Ibn Abī Uṣaybī'a records about him relates to his service to al-Kāmil (r. 615–636/1218–1238), who became viceroy after coming to Egypt with his father al-'Ādil in 596/1200 (Ibn Abī Uṣaybī'a 1884, 2: 123–30, 2020, 14.54; Gottschalk 1997). As suggested by Richards (1992, 303), al-Rashīd al-Dimashqī could be identified with Rashīd al-Dīn Abū Sa'īd ibn Muwaffaq al-Dīn Ya'qūb (d. 646/1249), a Christian physician from Jerusalem who studied in Damascus, began in al-Kāmil's service in 632/1234 or 1235 and served under al-Mālik al-Ṣāliḥ Ayyūb (r. 637–647/1240–1249). Ibn Abī Uṣaybī'a (1884, 2: 131–2, 2020, 14.56.2) speaks of his interaction with Abū Ḥulayqa while treating al-Kāmil. Al-Rashīd al-Dimashqī could alternatively be the Muslim medical scholar and mathematician Rashīd al-Dīn 'Alī ibn Khalīfa (579–617/1183 or 4–1219), the teacher of the previously mentioned Abū Sa'īd and uncle of Ibn Abī Uṣaybī'a. His home was Damascus, but he spent one or more periods in Cairo. From 605/1209 he was known to the Ayyubids and was in the service of some of them until his death (Ibn Abī Uṣaybī'a 1884, 2: 246–59, 2020, 15.51; see Richards 1992, 303). For our purposes, it is not necessary to establish with certainty the identity of the al-As'ad whose salary Makārim wants the remainder of, only to note that he could be either Muslim or Jewish (or, perhaps, neither). We cannot rule out, as Richards does, the most famous al-As'ad during this period, the (apparently) Muslim scientist, physician, legal expert and poet As'ad al-Dīn 'Abd al-'Azīz ibn Abī l-Ḥasan 'Alī (570–635/1174 or 5–1237 or 8), who joined al-Kāmil's service in Egypt after 626/1229 (Ibn Abī Uṣaybī'a 1884, 2: 125–6, 132, 2020, 14.54.6, 14.57; Richards 1992, 303–4). Richards cites the disparity between the three dinars requested by Makārim and the 100 dinars per month which Ibn Abī Uṣaybī'a says As'ad al-Dīn 'Abd al-'Azīz received in a previous post. However, if this As'ad worked in the Cairo hospital, we do not know what his salary was there, how much of his total income it represented, or whether it may have later been redistributed (after his death?) in a way that its "remainder" would be three dinars. An alternative Jewish candidate for al-As'ad is As'ad al-Dīn Ya'qūb ibn Ishāq al-Maḥallī, who was active in Cairo late 6th/12th–early 7th/13th centuries, but it is not clear whether he was in the sultan's employ (Ibn Abī Uṣaybī'a 1884, 2: 118, 2020, 14.42; Richards 1992, 303).
- 15 These are the *wālī* (chief of police), the *qāḍī* (judge), al-Muwaffaq, Ben Tammām and Ben Ṣadaqa. As suggested by Goitein, al-Muwaffaq might be the eminent Ibn Jumay' (Jewish physician 'alā al-Dīn, mentioned in Section VI.1.3), but the title al-Muwaffaq is too common to say for certain; Ibn Jumay' (Nicolae 2017) is associated with Alexandria in Genizah documents and wrote a treatise about the city

(Ibn Abī Uṣaybi‘a 1884, 2: 115, 2020, 14.32.5). Ben Tammām is probably Abū l-Ma‘ālī ibn Tammām, another Jewish physician whom Ṣalāh al-Dīn employed (Chipman and Lev 2006, 156). Finally, Ben Ṣadaqa could be the Samaritan Ṣadaqa ben Mīkhā ben Ṣadaqa, as Goitein apparently thinks (1971, 250), but it is difficult to see how the latter, who served the Ayyubid ruler of Damascus al-Ashraf Mūsā (d. 635/1237) and died in Ḥarrān, would be a decision-maker for an Alexandrian hospital (Ibn Abī Uṣaybi‘a 1884, 2: 118, 230–3; 2020, 15.46.3, 15.47).

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