

# מחרשת/מחרשה

plough, hoe (?)

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## Introduction

Grammatical type: n.f.

Occurrences: 3× HB (0/3/0); 0× Sir; 0× Qum; 0× Inscr. (Total: 3)

Nebiim: 1 Sam 13:20 (2), 21 (1).

Qumran: — (see B.1 [below](#))

**A.1** While the first occurrence of מחרשתו in 1 Sam 13:20 (מַחְרֶשֶׁתּוֹ, with *pataḥ* as the third vowel) is a form of \*מַחְרֶשֶׁת/\*מַחְרֶשָּׁה, the second occurrence (מַחְרֶשֶׁת, with *ṣ<sup>e</sup>rē* as the third vowel) is a form of \*מַחְרֶשָּׁה. The Masoretic vocalisation of 1 Sam 13:20-21 suggests that the second occurrence of מחרשתו is a form of the same noun as מַחְרֶשֶׁת in 13:21.<sup>1</sup> T<sup>j</sup> supports the Masoretic vocalisation and translates the two forms with *ṣ<sup>e</sup>rē* by forms of the same noun (עוֹשֶׂפָּא), while it represents the single form with a *pataḥ* instead of the *ṣ<sup>e</sup>rē* with a form of a different noun (פְּרִשָּׂא). However, most of the ancient versions treat the first occurrence of מחרשתו in 13:20 and מַחְרֶשֶׁת in 13:21 as forms of the same noun (see [section 4](#)). The latter option becomes more attractive as soon as one notices that the series of agricultural implements in 13:20 (מַחְרֶשֶׁתּוֹ, אָתּוֹ, קַרְדָּמוֹ, קַרְדָּשׁוֹ) partially corresponds to the series in 13:21 (מַחְרֶשֶׁת, דֶּרֶבֶן, קַרְדָּמִים, [שֶׁלֶשׁ קִלְשֵׁי], אֲתִים). Consequently, the first occurrence of מחרשתו in 13:20 and מַחְרֶשֶׁת in 13:21 are sometimes treated as forms of the same noun.<sup>2</sup>

**A.2** Of course, the twofold occurrence of מחרשתו in a single series of utensils (1 Sam 13:20) has raised questions. Since part of the utensils mentioned in 13:20 reoccur in the same order in 13:21 (מחרשת/מחרשה, אֵת, קֶרֶדֶם), the latter verse was sometimes used as a basis for emending the text of 13:20. Julius Wellhausen (1871: 84) assumed that the second מחרשתו, the fourth item of the list in 13:20, originally corresponded to הַדְרִבָּן at the end of 13:21. He pointed to the fact that the ancient Gk. and Syr. translations read forms of the same noun (LXX: δρέπανον, 'sickle'; s: ܪܥܣܬܐ, 'ox goad') where MT reads מַחְרֶשֶׁתּוֹ (13:20) and הַדְרִבָּן (13:21). Wellhausen's proposal to read דְרִבָּנוֹ at the end of 13:20 was taken over by many others.<sup>3</sup> Other scholars, however, assumed that the reading δρέπανον αὐτοῦ, 'his sickle', goes back to Heb. הַרְמֶשׁ, since δρέπανον represents Heb. הַרְמֶשׁ, 'sickle', in Deut 16:9; 23:26 (= 23:25<sup>LXX</sup>). These scholars regarded the reading מחרשתו as secondary.<sup>4</sup>

Dominique Barthélemy argued that there is insufficient reason to replace מחרשתו by a different word on the basis of the readings of LXX and s. The earliest translators seem to have experienced the same problems with the Hebrew text as modern scholars. They translated the second occurrence of מחרשתו differently from the first. The translators of LXX and s decided to use a noun that they used also to render הַדְרִבָּן, the last utensil mentioned in 13:21. Barthélemy maintained that the first and second מחרשתו in 13:20 derive from two different nouns, \*מַחְרֶשֶׁת and \*מַחְרָשָׁה. The two nouns must have had different meanings, but neither the earliest translators nor modern scholars could retrieve exactly to what kind of sharp utensils the two terms initially referred.<sup>5</sup> DCH shares Barthélemy's suggestion that the two occurrences of מחרשתו in 13:20 refer to two different agricultural utensils and translates them as 'plough' and 'goad', respectively.<sup>6</sup>

**B.1** The sectarian composition Serekh ha-Yahad (Community Rule, ca. 100 BCE?) contains the following enigmatic phrase: כִּי־אֵין בְּסֵאֵן רִשְׁעֵי מַחְרָשׁוֹ.<sup>7</sup> The passage describes the characteristics of those who may not enter the community of the faithful. Although the interpretation of the phrase is disputed, it is clear that מַחְרָשׁוֹ is not an alternative form of מחרשתו.<sup>8</sup> It has been proposed to regard מַחְרָשׁ as a noun meaning 'ploughing'.<sup>9</sup> If סֵאֵן is taken as equivalent to Aram. סוּן/סִיין, 'mud', the whole phrase can be taken as a proverbial saying: 'For in the mud of wickedness (is) his ploughing'.<sup>10</sup>

## 1. Root and Comparative Material

**A.1** ROOT: Both \*מַחְרָשָׁה and \*מַחְרֶשֶׁת are commonly assumed to derive from מַחַרַשׁ, 'to plough', 'to engrave'.<sup>11</sup> These nouns have some Semitic cognates

denoting an agricultural implement, as will be shown below. The Heb. verb **חרש** I stems from proto-Semitic *hrt* and has cognates in Ug., Akk., and many other Semitic languages (see below).<sup>12</sup> It must be distinguished from **חרש** II, ‘to manufacture’,<sup>13</sup> which stems from proto-Semitic *hrš*, just like Ug. *hrš* and Phoenician *hrš*, ‘craftsman’, ‘artisan’.<sup>14</sup> Contrary to Heb. **חרש** I, ‘to plough’, ‘to engrave’, Heb. **חרש** II refers to the work of the craftsman or artisan. Stephen Cook (1994) supposed that **מַחְרָשָׁה** derives from **חרש** I, ‘to plough, to engrave’, but that **מַחְרָשָׁה**/**מַחְרָשֶׁת** derives from **חרש** II, ‘to manufacture’ (see below). Aaron Koller (2012: 86-89) distinguished a third root, *hrš*/**חרש**, ‘to scratch’, assuming that **חרש** I means only ‘to plough’, not ‘to engrave’ or ‘to scratch’. He regarded the form **חָרוּשָׁה**, ‘scratched’, in Jer 17:1 as a form of this verb (with **ש** erroneously pointed as *šin* instead of *śin*; cf. **חָרַשׁ** in Job 2:8). Koller saw **מַחְרָשָׁה** as a derivative of **חרש** I, ‘to plough’, but **מַחְרָשָׁה**/**מַחְרָשֶׁת** as deriving from **חרש**, ‘to scratch’ (see below). However, note that in the Babylonian Talmud **מחרישה** denotes a ‘strigil’, an instrument for scraping the skin (see below).

**A.2 AKKADIAN:** The Heb. verb **חרש** I has a cognate in Akk. *erēšu*, which means ‘to seed by drilling seed into a furrow by means of a seeder-plow, to cultivate or plant (a field)’.<sup>15</sup> Among the derivatives of this verb are *mērešu* and *mēreštu*, which mean ‘cultivation’ or ‘cultivated land/field’.<sup>16</sup> Derivatives relating to a utensil are not attested.

**A.3 UGARITIC:** The Ug. cognate of Heb. **חרש** I is *hrt* ‘to plough’.<sup>17</sup> The Ug. noun *mḥrtt* (*KTU* 1.6:IV.3, 14; 6.14:3) is usually interpreted as ‘ploughed field’.<sup>18</sup> However, Oswald Loretz proposed to regard it as a *nomen instrumenti* denoting the ploughshare or the plough as a whole.<sup>19</sup>

**A.4 ARABIC:** The Arab. verb *ḥarata* is a cognate of Heb. **חרש** I and means ‘to plough, to cultivate’. The Arab. noun *mīḥrāt* designates a plough.<sup>20</sup> In Old South Arabian, however, *mḥrtt* refers to ploughed, cultivated land.<sup>21</sup>

**A.5 ETHIOPIC:** The Eth. (Ge‘ez) verb *ḥarasa* is a cognate of Heb. **חרש** I and means ‘to plough’. The noun *māhras* is translated as ‘ploughshare’ or as ‘plough’.<sup>22</sup>

**A.6 POSTBIBLICAL HEBREW AND JEWISH ARAMAIC:** In the Mishnah, the Tosefta and the Talmudim, the word **מַחְרָשָׁה** is virtually always spelled with a *yod* as *mater lectionis*: **מחרישה**. The term occurs ca. 70 times and denotes the plough in its entirety.<sup>23</sup> Not surprisingly, the word occurs in a context relating to ploughing (**חרש** qal).<sup>24</sup> The **מחרישה** is said to ‘shake’ (**זָעַזַע**, pilpel of **זוע**) clods of earth and stones.<sup>25</sup> The implement is regarded as indispensable.<sup>26</sup> The expression **יתד של מחרישה**, literally ‘the *pin* of the plough’, denotes the sharp metal plough-point.<sup>27</sup> The Tosefta refers to **יתדות המחרישה**, ‘plough-points’, that were attached to the plough’s **חרב**, ‘tail-piece, handle’.<sup>28</sup> In the Bab. Talmud, the expression **מחרישה**

דכספא does not represent a plough, but a strigil made of כספא, ‘silver’.<sup>29</sup> Such a strigil was used for scraping the skin; cf. the meaning ‘to engrave’ of the verb חרש I. In modern Hebrew the word מחרשה means ‘plough’.

## 2. Formal Characteristics

**A.1** \*מַחְרֶשֶׁת<sup>30</sup>/\*מַחְרֶשָּׁה<sup>31</sup> is a *miqṭal* form with a feminine termination (BL, 490 aζ).

**A.2** \*מַחְרֶשָּׁה is a *maqtil* form with a feminine termination. Many *maqtil* forms denote a utensil (BL, 492 qζ, sζ; Meyer 1969: 34-35).

## 3. Syntagmatics

**A.1** In 1 Sam 13:20, מַחְרֶשֶׁתוֹ and מַחְרֶשֶׁתוֹ represent the first and fourth objects of the verb לִטֵּשׁ, ‘to forge’, ‘to hammer’, ‘to sharpen’. The other objects are (2) אֹתוֹ and (3) קִרְדָּמוֹ (all marked by the accusative particle אֵת). 1 Sam 13:21 indicates that the price for מַחְרֶשֶׁת as well as some other agricultural utensils was a פִּים → פִּים. Apparently, the price was paid for either producing or repairing them (see [below](#)).

## 4. Ancient Versions

**A.1** In the following survey, ‘20<sup>1</sup>’ represents the first occurrence of מחרשתו (MT: מַחְרֶשֶׁתוֹ) in 1 Sam 13:20, while ‘20<sup>2</sup>’ represents the second occurrence (MT: מַחְרֶשֶׁתוֹ). ‘21’ represents the word מַחְרֶשֶׁת in 13:21.

a. Septuagint (LXX) and other Greek versions

θερίστρον, ‘reaping-hook’:<sup>32</sup> 20<sup>1</sup> (most mss of LXX).

θεριστήριον, ‘reaping-hook’:<sup>33</sup> 20<sup>1</sup> (LXX<sup>Ant</sup><sup>34</sup>).

θερίζειν, ‘to reap’,<sup>35</sup> ‘to harvest’:<sup>36</sup> 21 (LXX).

ἄροτρον, ‘plough’:<sup>37</sup> 20<sup>1</sup> (α’θ’<sup>38</sup>), 21 (α’<sup>39</sup>).

ῥῆνις, ‘ploughshare’:<sup>40</sup> 20<sup>1</sup> (σ’<sup>41</sup>).

δρέπανον, ‘sickle’:<sup>42</sup> 20<sup>2</sup> (LXX).

δίκελλα, ‘two-pronged fork’:<sup>43</sup> 20<sup>2</sup> (σ’<sup>44</sup>).

b. Peshitta (s)

ܡܚܪܫܬܐ (magg<sup>e</sup>lā), ‘sickle’:<sup>45</sup> 20<sup>1</sup>, 21.

ܡܥܥܣܐ (massāsā), ‘(ox) goad’:<sup>46</sup> 20<sup>2</sup>.

c. Targum (T<sup>J</sup>)

פֶּרֶשָּׂא, ‘goad’, possibly also ‘ploughshare’:<sup>47</sup> 20<sup>1</sup>.

עוֹשֶׁפָּא, ‘adze’, ‘carpenter’s axe’, etc., used for chipping:<sup>48</sup> 20<sup>2</sup>, 21.

## d. Vulgate (v)

*vomer*, ‘ploughshare’:<sup>49</sup> 20<sup>1</sup>, 21.

*sarculum*, ‘hoe’:<sup>50</sup> 20<sup>2</sup>.

**A.2** As the surveys show, the two occurrences of מחרשתו in 1 Sam 13:20 MT have two different counterparts in all the ancient translations. α', s and v treat the first occurrence of מחרשתו (20<sup>1</sup>) as a form of the same noun as מחרשת (21) and translate the second form (20<sup>2</sup>) differently. In LXX, the words representing מחרשתו (20<sup>1</sup>) and מחרשת (21) are derivatives from the same root. On the other hand, the translation of T<sup>J</sup> suggests that the second occurrence of מחרשתו (20<sup>2</sup>) is a form of the same noun as מחרשת (21). This corresponds with the Masoretic vocalisation.

**A.3** T<sup>J</sup> translates each of the implements mentioned in 1 Sam 13:20-21 consistently: \*מחרשת/\*מחרשה is translated by פֶּרֶשָּׂא (1x); אֵת is translated by סִכַּת פִּדְנָא (2x); קֶרֶדֶם is translated by כּוֹלְכָה (2x); \*מחרשה is translated by עוֹשֶׁפָּא (2x); דֶּרְבֵּן is translated by זִקְתָּא. The fact that Heb. אֵת was rendered as סִכַּת פִּדְנָא, ‘plough-point’ (→ אֵת), seems to suggest that \*מחרשת/\*מחרשה was not interpreted as such. Therefore, it may be best to translate פֶּרֶשָּׂא as ‘goad’.

**A.4** Most of the ancient translations assume that the first occurrence of מחרשתו in 1 Sam 13:20 represents an implement used for ploughing (α', σ', θ', v, possibly T<sup>J</sup>). LXX and s, however, interpret the word as an implement used for harvesting. In the case of LXX there is reason to believe that the translators of 1 Samuel misinterpreted the verb חרש as relating to harvesting instead of ploughing.<sup>51</sup> In 1 Samuel, the only phrase in which the verb חרש I has the meaning ‘to plough’ occurs in 8:12: וְלַחְרֹשׁ וְלִקְצֹר קְצִירוֹ (MT), literally: ‘to plough the ploughing and to harvest the harvest’. Most mss of LXX render the phrase as καὶ θερίζειν θερισμὸν αὐτοῦ καὶ τρυγᾶν τρυγητὸν αὐτοῦ. Both θερίζειν θερισμὸν and τρυγᾶν τρυγητὸν can be translated as ‘to reap the harvest’, not as ‘to undertake the ploughing’.<sup>52</sup>

There is insufficient reason to suppose that the Gk. translation of 1 Sam 8:12 goes back to a Heb. text that differs from MT.<sup>53</sup> The translation of the first occurrence of מחרשת/מחרשה in 13:20 by θέριστρον, ‘reaping-hook’, and the rendering of מחרשת in 13:21 by θερίζειν, ‘to harvest’, seem to be due to the same confusion regarding the meaning of חרש and its derivatives. In LXX<sup>Ant</sup> καὶ θερίζειν θερισμὸν αὐτοῦ καὶ τρυγᾶν τρυγητὸν αὐτοῦ is preceded by καὶ ἀροτριᾶν τὴν ἀροτρίαν αὐτοῦ ‘and to undertake the ploughing’.<sup>54</sup> Apparently, the additional phrase was inserted to assimilate the LXX to the Heb. text.<sup>55</sup>

In 1 Sam 8:12, *s* remains close to the Masoretic reading ולחרש חרישו ולקצר קצירו (MT).<sup>56</sup> In the case of 1 Sam 13:20-21, however, the reading of *s* (חַלָּה, ‘sickle’) seems to have been influenced by the Gk. translation of the first מחרשה/מחרשת (13:20) by θέριστρον/θερίστρον, ‘reaping-hook’.

## 5. Lexical/Semantic Fields

**A.1** The noun מַחְרֶשֶׁה and often also the noun מַחְרֶשֶׁת/\*מַחְרֶשֶׁה are regarded as derivatives of the verb *חרש* I, ‘to plough’, ‘to engrave’. In the Hebrew Bible, the verb is used ten times for ploughing in a literal sense<sup>57</sup> and four or five times for ploughing in a figurative sense.<sup>58</sup> After a → על, ‘yoke’, was fastened over the necks of two animals and attached to the plough, the animals pulled (משך qal; Deut 21:3) the plough.<sup>59</sup>

**A.2** The nouns מַחְרֶשֶׁה and מַחְרֶשֶׁת/\*מַחְרֶשֶׁה occur only in two lists of sharp utensils (1 Sam 13:20-21). The other items in the lists are → אֵת, → קָרְדִּים, possibly שֵׁלֶשׁ קִלְשֹׁן (→ קִלְשֹׁן), and → דְּרָבָן.

**A.3** Koller (2012: 255) assumes that the מַחְרֶשֶׁת/\*מַחְרֶשֶׁה was very similar to the → מַעְדָּר and that the different words may even designate the same tool.

## 6. Exegesis

### 6.1 Textual Evidence

**A.1** In view of the meaning of *חרש* I, ‘to plough’, ‘to engrave’, it is likely that one of the occurrences of מחרשה/מחרשת in the list of utensils in 1 Sam 13:20 denotes an implement used for ploughing. Most dictionaries interpret either מַחְרֶשֶׁה or מַחְרֶשֶׁת/\*מַחְרֶשֶׁה as ‘ploughshare’.<sup>60</sup> In the Mishnah, Tosefta and Talmudim, the noun מַחְרֶשֶׁה designates the entire plough, while the cognates in Arab. and Eth. (and possibly in Ug.) also denote a plough (see [above](#)).

Most of the ancient translations assume that the first item in the list of 13:20 represents a plough ( $\alpha'$ ,  $\theta'$ ), or its cutting part ( $\sigma'$ ,  $\nu$ , possibly  $T^j$ ). Since the plough is one of the most important agricultural utensils, it is indeed not unlikely that it is represented by the first item in the list.<sup>61</sup> In view of the evidence from the Mishnah, Tosefta and Talmudim, it is attractive to revocalise the first occurrence in 13:20 as מַחְרֶשֶׁת (with  $\text{ṣ}^e r \bar{e}$ ) and to maintain the vocalisation of the parallel item מַחְרֶשֶׁת in 13:21 (see [above](#)).

**A.2** Ploughs were largely made of wood, as is shown by the burning of כְּלֵי הַבָּקָר, ‘equipment of the oxen’, which had just been used for ploughing a field (1 Kgs 19:19-21), and the use of כְּלֵי הַבָּקָר, ‘equipment of the oxen’, for its wood (עֵצִים;

2 Sam 24:22). However, 1 Sam 13:19-22 demonstrates that ploughs also comprised a sharp element made of metal, apparently the so-called ‘plough-point’. The latter passage records that in the time of Saul and Jonathan the Israelites were subject to rigid constraints. The Philistines maintained a monopoly that enabled them to dominate the Israelites and to prevent them from producing their own weapons. According to many scholars, the monopoly concerned the production and/or repair of iron implements.<sup>62</sup> However, the MT does not say explicitly that the implements involved were made of iron. It reveals only that among the Israelites there was no *חָרָשׁ*, ‘craftsman’ (13:19), who produced (*לָטַשׁ*; 13:20) utensils for them.<sup>63</sup> Only the renderings of *חָרָשׁ* in LXX (*τέκτων σιδήρου*) and V (*faber ferrarius*) specify that the craftsmen concerned were iron smiths.<sup>64</sup> Actually, archaeological evidence from consecutive centuries demonstrates that in ancient Israel implements of bronze and implements of iron were used in the same contexts. Bronze plough-points and iron plough-points were also excavated in the same excavation layers (see [below](#)). The suggestion of LXX and V that the Philistines maintained an iron monopoly is an attractive option, but the MT may imply that the Philistines forbade all metallurgical activities among the Israelites.<sup>65</sup>

The structure of the ancient Israelite ploughs is not described in the HB or other contemporaneous sources. However, a reconstruction is possible on the basis of contemporaneous illustrations from Mesopotamia and Egypt and archaeological finds from Israel/Palestine (see [below](#)). Further, some terminological information can be found in the Mishnah, the Tosefta and the Talmudim, especially in m. Kelim 21:2.<sup>66</sup> In the latter passage, the word *מַחְרֶשֶׁה* does not occur, but the following terms are used to denote elements of the plough: *עַל* (‘yoke’), *קֶטֶרֶב* (‘cross-bar?’), *עֵין* (‘collar-piece?’), *עֲבוֹת* (‘thick ropes?’), *חֶרֶב* (‘tail-piece’ or ‘handle’), *בִּרְדָּ* (‘knee-shaped beam’), *יָצוּל* (‘handle’ or ‘cross-piece’), *עֵין שֶׁל מִתְּכָה* (‘metal ring’), *לְחִיָּין* (‘guides’), *עֲרִיָּין* (‘plough-flanks’ or ‘mouldboards’). Unfortunately, it remains unclear to which elements of the plough some of the Heb. terms refer.<sup>67</sup> Also, it is dubious whether the ancient Israelite plough consisted of the same elements as the plough type to which this section of the Mishnah refers.

**A.3** Philip King and Lawrence Stager give the following description of the way in which ploughing was performed in ancient Israel (King & Stager 2001: 92; cf. 88):

Plowing prepared the ground for sowing in late October-November, after the first rain (*yôreh*) had softened the earth. A field was plowed twice, once to loosen the crusty soil before the seed was broadcast, and then at right angles to the first plowing to cover the seed. The metal-tipped scratch plow did not turn over the soil the way a moldboard plow does but simply scratched a shallow furrow by breaking and loosening the soil.

Like the ancient Egyptian and Mesopotamian ploughs, ancient Israelite ploughs were usually pulled by a pair (צמד) of oxen (בקר: 1 Sam 11:7; 1 Kgs 19:21; Amos 6:12; Job 1:3, 14; 42:12). A female cow could also be used for ploughing, as is shown by the remark that in specific situations a cow that had not yet carried a yoke or pulled a plough was used (פרה, 'cow': Num 19:2; 1 Sam 6:7; עגלה, 'heifer': Deut 21:3; cf. Judg 14:18; Hos 10:11). Donkeys could also be used to work the land (cf. Isa 30:24: עיירים, 'male donkeys'), but it was forbidden to let an ox (שור) and a donkey (חמור) pull a plough together (Deut 22:10).<sup>68</sup>

**A.4** If the second occurrence of מחרשתו in 1 Sam 13:20 is left unemended,<sup>69</sup> only one of the two occurrences may be assumed to designate a plough(-point).<sup>70</sup> A classical translation of the second occurrence is 'mattock'.<sup>71</sup> Eduard König interpreted \*מחרשת as 'wahrscheinlich der Schollenzerteiler, mit dem bei den Alten hinter dem Pfluge die grossen Erdklumpen zerteilt wurden' (*HAWAT*, 219). Dominique Barthélemy decided to leave it untranslated (*CTAT* 1: 181). Stephen Cook supposed that the first of the near-homonyms derives from חרש I, 'to plough, to engrave', while the second derives from חרש II, 'to manufacture' (see [above](#)). According to Cook, the first noun clearly refers to a plough, while the second noun, which can be translated as 'crafted/forged tool', can best be interpreted as an equivalent of the parallel term דרבן, probably 'goad' (end of 13:21).<sup>72</sup> However, the interpretation of the final item in the list of 13:20 remains uncertain, as Cook admits.<sup>73</sup> Actually, the interpretation as a 'goad' is not attractive, since the presence of a metal point at the end of goads was not essential.<sup>74</sup> This noun can also be seen as a derivative of חרש I and may refer to a different tool used for 'engraving' the soil, wood, etc. However, Aaron Koller (2012: 86-89) distinguished a third root, חרש/חרש, 'to scratch', assuming that חרש I means only 'to plough', not 'to engrave' or 'to scratch' (see [above](#)). He interpreted \*מחרשת/\*מחרשה as deriving from חרש, 'to scratch'. With reference to Yemeni Arab. *mḥrś*, 'harrow', and *ḥrś*, 'to till by hand', he suggested that the noun \*מחרשת/\*מחרשה designates a hoe or a harrow. The noun may indeed represent a tool for weeding or tilling the soil by hand (cf. *sarculum* in v).<sup>75</sup>

**B.1** Only rarely is none of the occurrences of מחרשת/מחרשה in 1 Sam 13:20-21 identified with a plough or an element of it.<sup>76</sup>

## 6.2 Pictorial Material

**A.1** The lack of ancient pictures of ploughs from the Levant (Syria-Palestine) is compensated by images from Mesopotamia and Egypt. The ploughs are commonly depicted as drawn by two oxen.<sup>77</sup> The images show two types of plough:

- Simple ploughs without a seed drill drawn by a pair of animals and guided by a single man, who may hold a stick or goad or whip to drive the animals.<sup>78</sup> In such cases, the seeding was done after the first ploughing. The distinction between the two procedures is illustrated by images displaying a sower who works at some distance from the ploughman and his plough.<sup>79</sup>
- Ploughs provided with a seed drill, drawn by a pair of animals and guided by a single man, who is assisted by another man, who takes care of the seeding process.<sup>80</sup>

The depicted ploughing scenes are Mesopotamian or Egyptian, but there are good reasons to believe that the ploughs of the Israelites were quite similar to the ploughs on the images. In ancient Israel, ploughs were not yet provided with a seed drill and the sowing took place after the first ploughing of the ground.<sup>81</sup> Therefore, the Israelite ploughs were probably of the same type as the simpler ploughs of the Mesopotamians and Egyptians.



FIGURE 1: Egyptian ploughing scene, burial chamber of Sennedjem, 13th century BCE

The ploughs of the Mesopotamian and Egyptian depictions have the following features in common:

- A wooden beam connects the plough with a yoke that was fastened over the necks of the pulling animals.
- The essential part of the plough is a wooden beam protruding forward in the direction of the animals, at the bottom of the plough. The beam may be curved and is provided with a sharp metal point that makes furrows in the ground.
- The plough includes a wooden handle or a pair of handles, serving to steer the plough. Usually, the steering handle is part of the same beam as the wood to which the plough-point was affixed.

**A.2** Photographs from the early twentieth century show traditional ploughs with construction styles that hardly differed from the ancient Near Eastern structures.<sup>82</sup> Recent film recordings show a way of ploughing that gives an impression of the ways in which ploughing was performed in the ancient Near East.<sup>83</sup>



FIGURE 2: Plough shop in Beersheba, October 16, 1924  
Universiteitsbibliotheek Utrecht, Collectie Vriezen

**A.3** \*מַחְרֶשֶׁת/\*מַחְרֶשָׁה may denote a hoe or harrow (see 6.1 A.4). For ancient pictures of hoes from the Levant (Syria-Palestine), see → מַעְדָּר.

### 6.3 Archaeology

**A.1** The wood of ancient Near Eastern ploughs has usually decomposed completely, but many metal plough-points have survived. The archaeological evidence from Israel/Palestine shows that in the twelfth century BCE bronze plough-points began to be replaced by iron plough-points, although the use of bronze plough-points appears to have continued for several centuries.<sup>84</sup> Oded Borowski offers an excellent description of the excavated plough-points:

The plow-point was an elongated tool, 20-30 cm long, with a pointed tip for soil penetration. The other end was shaped like a pipe, ca. 8-10 cm wide. A wooden shaft, which was part of the plow-handle, was inserted into this end.<sup>85</sup>

Koller (2012: 89-90) shows that the archaeological evidence corresponds with the idea expressed in the Mishnah and Tosefta that the מַחְרֶשֶׁה scratches the soil to a depth of not more than ‘three handbreaths’ (שְׁלֹשָׁה טַפְחִין). He defines the מַחְרֶשֶׁה as ‘a piece of metal hammered into the shape of a cone and attached at the end of the wooden plow, which cuts through the soil to a depth of about 15-30 cm.’ (2012: 253). Nowadays, the designation ‘ploughshare’ is commonly used for the curved blade of the so-called mouldboard plough, which turns over the soil. It is confusing to denote the cutting element of the ancient Israelite scratch ploughs as ‘ploughshare’, since its form and function were quite different from the ploughshares of mouldboard ploughs. Therefore, Borowski’s designation as ‘plough-points’ is preferable.<sup>86</sup>

**A.2** \*מַחְרֶשֶׁת/\*מַחְרֶשֶׁה may denote a hoe or harrow (see 6.1 A.4). For remains of hoes from the Levant (Syria-Palestine), see → מַעְדָּר.

## 7. Conclusion

**A.1** In Biblical Hebrew, the noun \*מַחְרֶשֶׁה (<יחרש, ‘to plough’) probably denotes the ancient Israelite ‘plough’. In the Mishnah, Tosefta and Talmudim, the word מַחְרֶשֶׁה denotes the plough as a whole. It is possible that one of the occurrences of מַחְרֶשֶׁת/מַחְרֶשֶׁה in 1 Sam 13:20 also designates the entire plough, but it cannot be excluded that at this earlier stage it represented only the metal plough-point. If in 1 Sam 13:20 the first occurrence of מַחְרֶשֶׁתו represents a plough, the form must probably be revocalised as מַחְרֶשֶׁתו. The vocalisation of the parallel term מַחְרֶשֶׁת in 13:21 can be retained and this form can be translated as ‘ploughs’ or ‘plough-points’.

**A.2** The proposals to emend the second occurrence of מַחְרֶשֶׁתו in 1 Sam 13:20 are debatable. The noun \*מַחְרֶשֶׁת/\*מַחְרֶשֶׁה may denote a hoe or harrow (see 6.1 A.4), but it is not possible to identify the designated tool with certainty.

## Notes

- 1 ↑ If מחרשת in 13:21 were a plural form of \*מחרשה/\*מחרשת, the expected vocalisation in 13:21 would be מַחְרֶשֶׁת (with *qames*). Cf. מַעְרְכוֹת in Lev 24:6, מַאֲכָלוֹת in Prov 30:14, and the similar plural forms of other nouns mentioned in BL, 490 aζ.
- 2 ↑ *DCH* V (מ-נ), 229-30. See also the discussion in 4. A.2 and 6.1.
- 3 ↑ See *BHK*<sup>1</sup>, BDB, 361, and the literature mentioned in Barthélemy, *CTAT* 1: 180.
- 4 ↑ See *BHK*<sup>2/3</sup>, KBL, 515, Ges<sup>18</sup>, 661, and the literature mentioned in Barthélemy, *CTAT* 1: 180-81. See also the critical assessment of this emendation by Koller (2012: 84-85). In other contexts, δρέπανον represents Heb. מִזְמָרָה (Isa 2:4; 18:5; Mic 4:3; Joel 4:10) or Heb. מִגְלָל (Jer 50:16 = 27:16<sup>LXX</sup>; Joel 4:13). Remarkably, no scholars seem to have suggested reading מוֹמְרָתוֹ or מוֹגְלוֹ instead of מַחְרֶשֶׁתוֹ at the end of 1 Sam 13:20. Stoebe (1973: 254) proposed reading חֲרִיצוֹ instead of מַחְרֶשֶׁתוֹ (cf. 2 Sam 12:31).
- 5 ↑ Barthélemy, *CTAT* 1: 181. Similarly: Cook (1994), who retained the MT as the *lectio difficilior*.
- 6 ↑ *DCH* V (מ-נ), 229-30.
- 7 ↑ The reading is found in 1Q28/1QS III:2 (Burrows 1951: Plate III; Charlesworth 1994: 12) and 4Q257/4QpapS<sup>c</sup> III:3-4 (DJD XXVI, 73, damaged).
- 8 ↑ For unknown reasons, the noun מחרש in the Community Rule is mentioned under the lemma \*מחרשה/\*מחרשת in Ges<sup>18</sup>, 661.
- 9 ↑ DJD XXVI, 76.
- 10 ↑ See Charlesworth 1994: 13 (with different translations in n.44); DJD XXVI, 76-77. See also the lemma \*מחרש in *DCH* V (מ-נ), 229.
- 11 ↑ BDB, 361; KBL, 515; *DCH* V (מ-נ), 229; *HALOT*, 572.
- 12 ↑ For cognates of מחרש I in Old Canaanite, Aramaic, etc., see *DNWSI*, 407, 408; Koller 2012: 87.
- 13 ↑ Loewenstamm 1959; Hamp et al. 1986: 222-23; For מחרש II, see Ges<sup>18</sup>, 402 (חֲרֶשׁ נְחֹשֶׁת וּבָרָזָל in Gen 4:22 and חֲרֶשׁ נְחֹשֶׁת in 1 Kgs 7:14); cf. the noun חֲרָשׁ, ‘craftsman’, ‘artisan’.
- 14 ↑ For Ug. ḥrš, ‘craftsman’, ‘artisan’, see *WUS*, 108; *UT*, 399 (#903); *DULAT*<sup>1</sup>, 370-71; *DULAT*<sup>3</sup>, 366; *KWU*, 47. For Phoenician ḥrš, ‘craftsman’, ‘artisan’, see *DNWSI*, 408.
- 15 ↑ *CAD* E, 285-89. Similarly: *AHw* I, 238-39.
- 16 ↑ *CAD* MII, 23-25. Similarly: *AHw* II, 645-46).
- 17 ↑ *WUS*, 108-09; *UT*, 399 (#905); *DULAT*<sup>1</sup>, 371-72; *DULAT*<sup>3</sup>, 367; *KWU*, 47.
- 18 ↑ *WUS*, 108; *DLU*, 268; *UG*, 267; *DULAT*<sup>1</sup>, 537-38; *DULAT*<sup>3</sup>, 531.
- 19 ↑ Loretz 1993. After a discussion of the various translations, the interpretation as ‘plough(share)’ is rejected in Dietrich & Loretz 2005, 228-30 (*bmḥrtt* in *KTU* 6.14:3 interpreted as ‘from the agricultural field’; cf. *TUAT.NF* 6: 86). *KWU*, 71, assumes the meaning ‘Ackerland’ (cultivated land) for the occurrences in *KTU* 1.6:IV.3, 14, but prefers the translation ‘Pflug’ (plough) for the occurrence in *KTU* 6.14:3.
- 20 ↑ Lane, 541-542; Wehr, 166.
- 21 ↑ *SD*, 71; *DOSA*, 192.
- 22 ↑ *CDG*, 243.
- 23 ↑ In addition to the occurrences mentioned in the following notes, the word מחרשה occurs in m. Bava Batra 2:1, 12, 13; t. Shabbat 6:8; t. Bava Qamma 2:6; t. Bava Metzi’a 9:18; t. Bava

Batra 1:2, 14; t. Kelim Bava Metzi'a 5:7; t. 'Ohalot 15:13; b. Ta'anit 25b; b. Bava Qamma 30a; b. Bava Batra 17a, 18a, 19a, 26a, 27b, 82b; y. Pe'ah 2, 17a; 6, 19c; y. Kil'ayim 7, 30d; y. Nazir 7, 55d; y. Bava Qamma 3, 3c; y. Bava Metzi'a 9, 12b (together with קורדום; cf. → קרדם in 1 Sam 13:20-21); y. Bava Batra 2, 13ab; 7, 15c. In m. Shevi'it 5:6 and b. 'Avodah Zarah 15b, reference is made to מַחְרִישָׁה וְכָל כְּלֶיהָ, 'the plough and all its implements'.

- 24 ↑ m. 'Ohalot 17:1-3.
- 25 ↑ m. Shevi'it 3:7; t. Shevi'it 3:4; y. Shevi'it 3, 34bd; m. 'Orlah 1:3; y. 'Orlah 1, 60c.
- 26 ↑ According to m. Bava Metzi'a 9:13, a creditor who wants to take a pledge from a debtor may take a כֶּר, 'pillow', by day and must give it back by night (cf. Deut 24:12-13) and may take a מַחְרִישָׁה by night and must return it by day. Apparently, the כֶּר and the מַחְרִישָׁה were seen as essential. The rule is quoted in b. Bava Metzi'a 113a, y. Bava Metzi'a 9, 12a, and b. Temurah 6a. See also Sifre Devarim 277.
- 27 ↑ m. Shabbat 17:4 quotes Rabbi Yose as saying that on the Shabbat 'all utensils may be moved except for the large saw and the plough-point' (כל הכלים נטלין חוץ מן המסר הגדול ויתד של מחרשה). The saying occurs also in t. Shabbat 14:1; b. Shabbat 123b, 157a; b. 'Eruvin 35a; y. Shabbat 17, 16a. Further, the expression יתד של מחרשה occurs also in b. 'Eruvin 86a.
- 28 ↑ t. Kelim Bava Batra 1:7, which refers also to the עיין, 'eye', as an element that could be detached from the plough. In m. Kelim 21:2 the terms חרב and עיין are also used for parts of the plough (see [above](#)).
- 29 ↑ Jastrow, *DTT*, 764, *WTM* III, 82, with reference to b. Ketubbot 68a, b. Bava Metzi'a 113b. According to b. Bava Metzi'a 113ab, Raba son of Rabbah interpreted the word מחרשה in m. Bava Metzi'a 9:13 (see [above](#)) as 'strigil', not as 'plough'.
- 30 ↑ This form is proposed in BDB, 361; KBL, 515; *HALOT*, 572; Ges<sup>18</sup>, 661.
- 31 ↑ This form is proposed in *DCH* V (נ-ג), 229.
- 32 ↑ *GELS*, 328, with reference to Van der Meer 2008: 592-96. In all the other verses (Gen 24:65; 38:14, 19; Isa 3:23; Song 5:7), θέρσις is translated as 'light summer garment' or 'veil'.
- 33 ↑ LSJ, 793; *GELS*, 328.
- 34 ↑ Fernández Marcos & Busto Saiz 1989: 36; Taylor 1992: 42.
- 35 ↑ LEH<sup>1</sup>, 204.
- 36 ↑ *GELS*, 328.
- 37 ↑ Adrados, *DGE*, 521; LEH<sup>1</sup>, 62; *GELS*, 92.
- 38 ↑ Field<sup>1</sup>, 507.
- 39 ↑ Field<sup>1</sup>, 508.
- 40 ↑ LSJ, 1849; Montanari, *BDAG*, 2184.
- 41 ↑ Field<sup>1</sup>, 507-08.
- 42 ↑ Adrados, *DGE*, 1167; LEH<sup>1</sup>, 121; *GELS*, 178.
- 43 ↑ LSJ, 430; Montanari, *BDAG*, 530. Adrados, *DGE*, 1094: 1) 'azada de dos puntas, laya', 2) 'piqueta, azuela para demolición'.
- 44 ↑ Field<sup>1</sup>, 507-08.
- 45 ↑ Payne Smith, *CSD*, 250; Sokoloff, *SLB*, 709.
- 46 ↑ Payne Smith, *CSD*, 285; Sokoloff, *SLB*, 793. *SLB* gives as a second translation 'part of plow'.

- 47 ↑ Jastrow, *DTT*, 1243, distinguishes פָּרָשָׁא I, '[driving] goad' (T<sup>J</sup> Judg 3:31), from פָּרָשָׁא II, '[breaker, crusher,] ploughshare' (1 Sam 13:20). *WTM* IV, 145, and Dalman, *ANHT*, 354, suggest that פָּרָשָׁא means 'ox goad' in Judg 3:31 as well as 1 Sam 13:20. See further the discussion in section A.3.
- 48 ↑ Jastrow, *DTT*, 1059. *WTM* III, 711 (Heb. עוֹשֶׁף): 'der spitze Theil eines Instrumentes, welcher zum Bohren und Pflügen diene, der andere scharfe Theil dieses Instrumentes diene zum Holzspalten.' According to m. Kelim 13:3, the → קָרָדִם has an עוֹשֶׁף 'paring/chipping edge' and a בֵּית בְּקוּעַ 'splitting/chopping edge'.
- 49 ↑ Lewis & Short, *LD*, 2014; *OLD*, 2103.
- 50 ↑ *OLD*, 1691. Lewis & Short, *LD*, 1631, describe *sarculum* as 'an implement for loosening the soil, weeding, etc., a light hoe.'
- 51 ↑ For the distinctive character of the transmitted LXX text of 1 Samuel, see Hugo 2015: 129-32; Hugo 2016: 222-23.
- 52 ↑ *GELS*, 328, 689. For the precise meaning of *θερίζειν θερισμὸν* and *τρύγειν τρυγητόν*, see also Grillet & Lestienne 1997: 196-97.
- 53 ↑ Grillet and Lestienne (1997: 197) suggest that the Heb. source used by the Gk. translators read *ולחרש חרישו ולקצר קצירו* instead of *ולקצר קצירו ולבצר בצירו* (MT). See also DJD XVII, 59. However, in addition to the deviating Gk. rendering of *מחרשה/מחרשת* in 1 Sam 13:20-21, reference must be made to a fragment of 4Q51/4QSam<sup>a</sup> showing the letters [ולחרש חר'ישו] at the expected position (DJD XVII, 58). The Gk. translation seems to be due to confusion about the meaning of Heb. *חרש*; see Wirth 2017: 5.
- 54 ↑ Fernández Marcos & Busto Saiz 1989: 22; Taylor 1992: 25.
- 55 ↑ McCarter argues that the Antiochene text of LXX reflects the initial Heb. reading (reconstructed as *ולחרש חרישו ולקצר קצירו ולבצר בצירו*). This leads to the artificial assumption that the shorter readings of MT and the rest of LXX are 'haplographic, each in its own way' (McCarter 1980: 155).
- 56 ↑ S reads *עֲבָדָה מַעֲבָדָה גְּבוּרָה מַעֲבָדָה* (*wndbrwn dbrh wnhšdwn hšdh*). The verb *גָּבַד* (*gbr*) is a common translation of Heb. *חרש* I with the meaning 'to plough' (see Deut 22:10; 1 Kgs 19:19, etc.), while *עָבַד* (*hšd*) is a standard translation of the verb *קָצַר* (see 1 Sam 6:13; 2 Kgs 4:18; 19:29, etc.).
- 57 ↑ Deut 22:10; 1 Sam 8:12; 1 Kgs 19:19; Isa 28:24; Jer 26:18; Amos 6:12; 9:13; Mic 3:12; Job 1:14; Prov 20:4.
- 58 ↑ Judg 14:18, Hos 10:11, 13; Ps 129:3; Job 4:8.
- 59 ↑ For other terms used in connection with ploughing, see Borowski 1987: 48, 51-53.
- 60 ↑ Gesenius, *TPC* I, 530; BDB, 361; GB, 416; *HAWAT*, 219; KBL, 515; Zorell, 428; *DCH* V (נ-מ), 229; *HALOT*, 572; Ges<sup>18</sup>, 661.
- 61 ↑ Compare the rule in m. Bava Metzi'a 9:13 implying that a creditor may not take a *מַחְרָשָׁה* as a pledge during the day. See [above](#).
- 62 ↑ Klein 1983: 127-28; Van der Steen 2008: 67; 2009: 69.
- 63 ↑ The verb *לָטַשׁ* means 'to forge', 'to hammer', 'to sharpen'. 1 Sam 13:20-21 was often assumed to relate to the repair of metal implements (e.g., McCarter 1980: 232; Klein 1983: 128), but is likelier that the passage has their production in mind. See Stoebe 1973: 254-55.
- 64 ↑ However, see also *כל מן דברזל* 'each iron implement' in 1 Sam 13:21 T<sup>J</sup>.

- 65 ↑ McNutt 1990: 19, 144, 205, 238. Cf. also Dietrich 2015: 50.
- 66 ↑ In addition to m. Kelim 21:2, see the evidence discussed in 1.A.6. t. Kelim Bava Metzi'a 5:7 mentions a **מחרשה** ב(ו)רית, 'hoop of the plough'. The **בִּרְדָּה הַמַּחְרָשָׁה**, 'knee of the plough', is also mentioned in m. 'Ohalot 17:1-3 and b. Ta'anit 25b.
- 67 ↑ For the disputed translation of the terms, see *WTM*; Jastrow, *DTT*; Dalman, *ANHT*; Krauss 1911: 172-73, 553-56; Danby 1933: 636; Bunte 1972: 372-75; Koller 2012: 93-94. A drawing in Albeck's edition of the Heb. text (1959: 93) shows which elements of the plough were assumed to be designated by the terms **חֲרָב**, **בִּרְדָּה**, **יָצוּל** and **עֲרִיץ**.
- 68 ↑ See also Borowski 1987: 52.
- 69 ↑ For emendation proposals and Barthélemy's objections, see [above](#).
- 70 ↑ Gesenius, *TPC* I, 530, translated one of the occurrences as *vomer*, 'ploughshare', and the other as *cultrum*, 'knife', *dens aratri*, 'plough-point'.
- 71 ↑ KJV, ASV, NJPS. In these translations, not only the final item of the list in 13:20 (MT: **מַחְרָשָׁהוּ**) is translated as 'mattock', but the first item of the list in 13:21 (MT: **מַחְרָשֶׁת**) is also translated as 'mattocks', undoubtedly because these forms have the *ṣ<sup>h</sup>erē* vowel in common.
- 72 ↑ Cook 1994. In *DCH*, where the first occurrence of **מחרשת/מחרשה** in 13:20 is translated as 'ploughshare', the second occurrence is also interpreted as 'goad' because of the parallelism with **דִּרְבָּן** (*DCH* V (ג-ב), 229-30).
- 73 ↑ Cook 1994: 252, 254, n. 11.
- 74 ↑ See Stoebe 1973: 254.
- 75 ↑ In NASB not only **מחרשת/מחרשה** at the end of 13:20 but also **דִּרְבָּן** at the end of 13:21 is translated as 'hoe'.
- 76 ↑ Fokkelman (1986: 45) identified the first occurrence of **מחרשת/מחרשה** in 1 Sam 13:20 with a scythe, probably due to LXX *θήρις*. Like many others (see [above](#)), Fokkelman replaced the second occurrence in the same verse by **חֲרָמֶשׁ**, 'sickle'.
- 77 ↑ Wiggermann (1999: 189-90, 228) remarks that if one ox is depicted this must be due to artistic convention, 'since one ox cannot pull a plough in a straight line' (190). Differently: Borowski 1987: 51; Seidl 2003-2005: 514.
- 78 ↑ Egyptian: Fig. 1 in the present article; *ANEP*, 25 (fig. 84), 27 (fig. 91), 37 (fig. 122); *BRL*<sup>2</sup>, 255 (fig. 66/2); Borowski 1987: 53 (fig. 5), 58 (fig. 8), 60 (fig. 10); Mesopotamian: Wiggermann 1999: 228 (fig. 7a, 7b).
- 79 ↑ Mesopotamian: Lambert 1979: 22-23, regarding Plate VII fig. 63; Wiggermann 1999: 228 (fig. 7c), 230 (fig. 9); Egyptian: Borowski 1987: 53 (fig. 5); Nicholson & Shaw 2000: 270 (fig. 11.2).
- 80 ↑ Only Mesopotamian: *ANEP*, 25 (fig. 86, cf. 88); Borowski 1987: 55 (fig. 6; cf. 56 fig. 7); Wiggermann 1999: 228 (fig. 7d); Seidl 2003-2005, 514.
- 81 ↑ Borowski 1987: 53-56. However, Borowski (47-48, 53-54) shows that also in Israel the relationship between ploughing and sowing was close, since ploughing was done for the sole purpose of sowing (cf. Isa 28:24).
- 82 ↑ See Figure 2 and Dalman, *AuS* II, plates 18-39. See also the discussion in Dalman, *AuS* 2, 64-115; Borowski 1987: 48; King & Stager 2001: 92.
- 83 ↑ Several informative recordings have been uploaded on YouTube (e.g. from [Egypt](#) and [India](#)).
- 84 ↑ For the gradual replacing of bronze implements by iron implements in Israel/Palestine during the twelfth to tenth centuries BCE, see McNutt 1990: 209-11.

- 85 ↑ Borowski 1987, 51, with several drawings of plough-points (50-51, fig. 3, 4) and a survey of the sites where they were discovered (49, 51). For a similar description as well as drawings of plough-points, see *BRL*<sup>2</sup>, 255 (fig. 66/1). Excellent drawings of two iron plough-points excavated in Kinneret are offered in Fritz 1990: 366-67 (Plate 116). For a photo of an iron plough-point and other iron implements from Tel Mique-Ekron, see King & Stager 2001: 93.
- 86 ↑ Cf. also Wright 1943: 35; Dietrich 2015: 28.

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For the abbreviations applied → [List of Abbreviations](#)

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First published: 29th December 2017

Last update: 8th November 2021

This article should be cited as:

Paul Sanders, 'מחרשת/מחרשה – *plough, hoe (?)*'

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Many thanks are due to Jan A. Wagenaar (formerly Utrecht University) for allowing me to make use of his unpublished contributions to the KLY project. Thanks are also due to Benjamin Bogerd (Protestant Theological University, Amsterdam).