

GIULIA GIANNINI

GIOVANNI ALFONSO BORELLI
AND THE BOOKS OF OTHERS:
A CONTRIBUTION TO THE
RECONSTRUCTION OF BORELLI'S LIBRARY

ESTRATTO

da

PHYSIS

Rivista Internazionale di Storia della Scienza
2022/2 ~ (LVII)

2. Context and Rivalries in Borelli's Scientific Journey



Leo S. Olschki Editore
Firenze

physics

International Journal for the History of Science

LVII

2-2022



physis

International
Journal for
the History of
Science

pubblicata dalla

DOMUS GALILÆANA DI PISA

in collaborazione con

SOCIETÀ ITALIANA DI STORIA DELLA SCIENZA
SEMINARIO DI STORIA DELLA SCIENZA DELL'UNIVERSITÀ DI BARI

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2023: ABBONAMENTO ANNUALE (2 fascicoli) – ANNUAL SUBSCRIPTION (2 issues)

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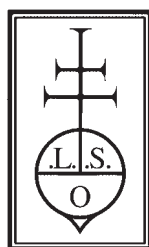
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Ogni articolo è sottoposto alla valutazione anonima di due esperti.
Each article is submitted to a double-blind scholarly peer review.

PHYSIS

INTERNATIONAL JOURNAL FOR THE HISTORY OF SCIENCE

VOL. LVII (2022)

FASC. 2

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GIULIA GIANNINI *

GIOVANNI ALFONSO BORELLI AND THE BOOKS OF OTHERS:
A CONTRIBUTION TO THE RECONSTRUCTION
OF BORELLI'S LIBRARY **

ABSTRACT – This work aims to supplement and expand the reconstruction of Giovanni Alfonso Borelli's library. By relying on the ex libris displayed on the title page of some volumes preserved at the *Biblioteca Nazionale Centrale* in Rome, 241 volumes originally belonging to Borelli have been identified. The list significantly integrates the one presented by Baldini in 1996 by not only roughly doubling the number of titles, but also incorporating areas of study that were left completely uncovered.

Reconstructing the libraries, readings and book interests of scholars is fundamental for tracing the genesis of their concerns and goals, as well as the theoretical context within which they chose to frame their work. The monumental attempt to reconstruct the volumes owned by Galileo that was carried out by Antonio Favaro in the late 19th century remains one of the main points of reference to this day, at least for the Tuscany area.¹ But attention has also been paid to the size and nature of the libraries of scholars such as Newton, Boyle, and Hooke.² Similarly, in recent times im-

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** This work is part of a project that has received funding from the European Research Council (ERC) within the framework of the European Union's Horizon 2020 research and innovation program (TACITROOTS, PI: Giulia Giannini, Grant agreement No. 818098).

¹ See FAVARO, 1886; 1887; 1896. Recent research on the subject has enriched Favaro's work with further bibliographical records: TORRINI, 2001; CAMEROTA, 2009; HALL, 2015. See also the database created by the Galileo Museum in Florence: <https://www.museogalileo.it/en/library-and-research-institute/projects/databases-and-bibliographies/864-galileo-s-library.html>

² HARRISON, 1978 (see also: <https://www.newtonproject.ox.ac.uk/his-library/books-in-newtons-library/>); FEISENBERGER, 1966; GERAGHTY, 2004; HENDERSON, POOLE, 2009; AVRAMOV, HUNTER, YOSHIMOTO, 2010.

portant work has been undertaken to analyze and describe the printed and manuscript sources with which Leonardo engaged throughout his career.³

Inevitably, these investigations are never exhaustive or complete. Through surviving correspondence we can chart a scholar's interests, by observing in relation to what works he or she requested copies or information. In this respect, letters are a valuable tool, because they also make it possible to trace the evolution of interests and requests over time. However, they are frequently fragmentary: sometimes we have many documents relating to a specific period and only a few or none at all pertaining to other periods. Moreover, although letters often provide a rather rich picture of a scholar's interests, only in some cases does the correspondence allow us to determine the actual ownership of a given work (for example, if the scholar claims to have received the book from someone). More reliable in this regard is the evidence provided by physical copies of works owned by the scholar, and now preserved in archives and libraries (e.g., in those cases where an *ex libris* is found). There remains, however, the problem of lost works and of all those volumes that may have escaped the historian's attention because they have ended up in unknown libraries, or because they have not been entered in the library's catalogue, or again because they reflect less predictable interests on the scholar's part. Therefore, not only is any analysis of a scholar's library always subject to change, but – as Baldini has rightly pointed out –⁴ it can only be based on presences, not absences.

This work focuses on the books originally owned by Giovanni Alfonso Borelli and now preserved in the Biblioteca Nazionale Centrale in Rome (BNCR).

To realize the importance of reading in Borelli's scholarly path, it suffices to take a look at the essays collected in this special issue of the journal. Renée Raphael specifically analyzes Borelli's reading practice, showing, for example, his use in *De motionibus naturalibus* of selected excerpts from books by Honoré Fabri and Kenelm Digby and his engagement with them.⁵ But references to books read, researched, purchased or owned by Borelli are to be found in almost all of these essays. Carla Rita Palmerino emphasizes Borelli's fervent interest in Gassendi's *opera omnia*, which he repeatedly tried to procure in the early 1660s for himself and his friends.⁶

³ VECCE, 2021; RENN, VALLERIANI, HOFFMANN et al., 2021.

⁴ BALDINI, 1996, p. 225.

⁵ RAPHAEL, 2022.

⁶ PALMERINO, 2022.

In his analysis of Borelli's mathematical work, Vincenzo De Risi does not fail to dwell on books read or cited by the Italian scholar, such as the works by Bartholomaeus Keckermann and André Tacquet.⁷ Nuno Castel-Branco instead reinterprets *De motu animalium* by focusing on Borelli as a reader of Nicolaus Steno.⁸

However, reconstructing the books used by Borelli is not a worthwhile task merely because it helps appreciate the influence of such volumes on his specific research work. In recent decades the scholarly community has paid increasing attention to the relationship between book culture and early modern experimentation. The idea of a sharp contrast between a traditional, scholarly culture and the emergence of a "new science," exclusively focused on the study of nature through experimentation, has been largely deconstructed. Increasing evidence has emerged of the complex mechanism of interaction, during the 17th and 18th centuries, between the emerging scientific pursuits and traditional book culture, between humanists and scientists, between empirical and bookish inquiries.⁹

The practice of drawing up lists of books and gathering written knowledge for experimental verification was ubiquitous in early scientific academies, as well as among scholars and groups engaged in the empirical study of the natural world. The process of accumulating information, observations, and experiments on the functioning of nature occurred through the combining of observational skills and philological learning.¹⁰ One of the best-known cases is related to the origins of the Oxford Philosophical Club. In a 1652 letter to Sir Justinian Isham, Seth Ward described the activity and genesis of the Club as follows:

We have (every one takeing a portion) gone over all or most of the heads of naturall philosophy & mixt mathematics collecting onely an history of the phenomena out of such authors as we have in our library and sometimes trieing experiments as we had occasion and opportunity. our first businesse is to gather together such things as are already discovered and to make a booke with a general index of

⁷ DE RISI, 2022.

⁸ CASTEL-BRANCO, 2022.

⁹ The literature on this topic is vast and rapidly growing. However, see among others: GRAFTON, 1991; GRAFTON, BLAIR, 1992; 2004; 2010; DASTON, 2004; YEO, 2014; JALOBEANU, 2015; MCGILLEN, 2016; ZEDELMAIER, 2016; RAPHAEL, 2017.

¹⁰ "There is no doubt that the empiricism of the early modern historia, in all of its varieties, must be qualified as erudite or textual in nature. Direct observation was preceded and accompanied by laborious compilation, based on the culling of information from earlier texts. [...] Empirical observation and philological reconstruction complemented one another [...]." POMATA, SIRAISSI, 2005, p. 17.

them, then to have a collection of those wch are still inquirenda and according to our oportunities to make inquisitive experiments, the end is that out of a sufficient number of such experiments, the way of nature in working may be discovered, but because (not knoweing what others have done before us) we may probably spend our labour upon that wch is already done, we have conceived it requisite to examine all the books of our public library (every one takeing his part) and to make a catalogue or index of the matter and that very particularly in philosophy physic mathematics & indeed in all other facultyes [...].¹¹

Several clues suggest that even in Florence the systematic experimental activity that began in 1657 originated from a substantial perusal of books.¹²

In November 1656, Carlo Rinaldini sent a long list of more than 80 volumes to Prince Leopold, patron of the nascent *Accademia del Cimento* (1657-1667).¹³ This list consisted of works ranging from Classical *opera omnia* (Plutarch, Seneca, Pliny, Galen, Lucretius...) to commentaries (such as the Coimbra Aristotle and the *Collegium Complutense*) and works by contemporaries (Athanasius Kircher, René Descartes, Pierre Gassendi, Robert Fludd...). From these sources, Rinaldini was extracting passages to be verified through experiments. The list was later discussed at the Academy where Rinaldini's excerpts were annotated with the aim of establishing an experimental agenda.¹⁴ A series of notes by different hands, collected in the Academy's archives under the heading 'selection of experiments from those included in Mr. Rinaldini's survey',¹⁵ comment on quotes drawn

¹¹ ROBINSON, 1949. Seth Ward's letter opened a vast field of study on the front of paper technologies and the emergence of experimentalism in England. See among others: POOLE, 2017; TROLANDER, 2014; RAPHAEL, 2017.

¹² See GIANNINI, 2022.

¹³ The list was compiled in two stages, and attached to the first two surviving letters addressed to the Prince by Rinaldini: Firenze, Biblioteca Nazionale Centrale di Firenze (BNCF), *MS Gal. 275*, fols 44r-47r, Rinaldini to Leopoldo, November 6th, 1656; BNCF, *MS Gal. 275*, fol. 48r, Rinaldini to Leopoldo, November 15th, 1656. The letters were published by Galluzzi and Torrini in the volume devoted to the correspondence of Galileo's disciples: GALLUZZI, TORRINI, 1984, pp. 377-383.

¹⁴ Reference to Rinaldini's list is made in the entries for June 25th and 26th, 1660. "Si scorse parte dello spoglio degli autori fatto dal Signor Rinaldini a fine di notare ciò che pareva sperimentabile, confermare ciò che vi si ritrovava di vero autentico dalle nostre esperienze, rigettare le cose riconosciute per false e rescare quelle notizie che non conducevano al nostro fine, o si rendevano strane a credersi, o parevano affatto aliene dal potersi ridurre a esperienza", June 25th, 1660. The next day, several experiments from among those mentioned by Rinaldini in his list were selected in order to be performed: "Si scelsero diverse esperienze di quelle dello Spoglio degli autori fatto dal Sig.r Rinaldini quali si noteranno a suo luogo," BNCF, *MS Gal. 260*, fols 108v and 109r.

¹⁵ BNCF, *MS Gal. 268*, fols 184r-196r, Scelta dell'esperienze messe nello spoglio dal Signor Rinaldini fatta da S. A. S, et un foglio con altre strutture dal Signor Alessandro Segni.

from works by Plutarch, Pliny, Gassendi, and Gilbert (all names on the 1656 lists). Borelli's hand cannot be detected, but those of Vincenzo Viviani, Carlo Roberto Dati, and Alessandro Segni can clearly be identified.

Moreover, in the same months as Rinaldini was working on his list, Vincenzo Viviani was trying to obtain works related to natural philosophy. Many of them deviate from Viviani's usual readings. Especially significant is the cluster of books concerning the problem of vacuum and air pressure produced in France in the 1640s and 1650s: Petit (1647), Pascal (1647), Noel (1648), Pierius (1648), and Pecquet (1651) all appear in Viviani's lists. Between March and June 1656 Viviani expressed a special interest in some of these books. As he had trouble finding them, he asked Elia Diodati, for instance, to make a 'particular search' for Roberval's *Traité de Mécanique* (1636) and Pascal's *Expériences nouvelle touchant le vuide* (1647): Viviani specified that if these works could not be found in print, he would also accept corrected manuscript copies of them with the exact figures.¹⁶

Pneumatic experiments constitute an important part of the work carried out by the *Accademia del Cimento*. Most of them date from the summer of 1657, and in both the *Saggi di Naturali Esperienze* (1667) and the manuscript records of academic sessions, there is no shortage of references to the 'French' experiments and especially to what Pecquet reported about them. The use within the Academy of both the texts selected by Rinaldini and those sought by Viviani suggests a correlation between the two scholars' simultaneous activity of research and book selection. Whether one scholar was aware of the other's work or not, throughout the year 1656 Rinaldini and Viviani actively engaged in the search for phenomena worthy of experimental testing by finding and reading books.

The free and easy circulation of books is one of the prerequisites for the emergence of such institutions as the Royal Society or the *Accademia del Cimento*. Viviani's and Rinaldini's book lists show that the circulation and reading of printed texts is one of the key elements in understanding the nature and activity of the Florentine group. Thus, a broader reconstruction of the books requested and owned by participants in the *Cimento* enterprise – including Borelli – would further broaden our understanding of the roots and nature of the Academy's work.

¹⁶ "Di tutti q.ti è pregata V.S. instantem.te a farne particular ricerca e principalmente de i notati con * de quali non ne trovando stampati procuri di grazia di farne far copie manuscritte ben corrette, e con le figure esatte avvisando la spesa etc.," BNCF, MS Gal. 97, fols 47rv. The same kind of request to obtain a manuscript copy, should a printed one not be found, is made in the BNCF, MS Gal. 97, fols 48rv, Copy of names of books requested to the most excellent Mr. Elia Diodati by letter of March 17th, 1656, probably sent to Diodati on November 12th, 1657.

The material support that the Medici provided to those scholars gravitating around the court took place through the printing of their works, the assignment of positions and stipends, and the provision of equipment for carrying out experiments. But it also occurred through the possibility of purchasing and finding information about other scholars' books. Antonio Magliabechi, the Medici court librarian, is certainly an essential figure for understanding Florence's relationship with print culture:¹⁷ he was the "book impresario of Florence".¹⁸ Leopold's book purchases mainly occurred through Magliabechi's direct involvement, which many scholars in this circle relied on. This was the case, for instance, with Giovanni Alfonso Borelli.

Borelli's correspondence with Magliabechi consists of 26 letters sent between 1660 and 1664, when Borelli was teaching at the University of Pisa and participating in the *Cimento's* work. The complete publication of the letters which Borelli addressed to Magliabechi is due to Paolo Galluzzi and remains one of the essential reference points for the analysis of both the book-trade network in Florence and Borelli's book interests.¹⁹ As Galluzzi pointed out, these letters can be regarded as veritable lists of *desiderata*.²⁰ Indeed, they collect the copious requests for information about books or physical copies of them. A total of 77 volumes are mentioned in Borelli's correspondence with Magliabechi (see: Appendix 1). Many are medical books of various kinds (anatomy, physiology, pharmacology...). As Galluzzi notes in his introduction to this correspondence, the surviving letters were all written from Pisa between November and May. Borelli would spend these months in Pisa to teach at the *Studio*. There, not only was he engaged in lectures and preparatory work for his *De motu animalium*, but he also carried out dissections and anatomical discussions in his own home. These were frequently attended by numerous other scholars, including Claude Aubry, Tilman Trutwyn, and Marcello Malpighi, as well as – at a later date – Lorenzo Bellini and Carlo Fracassati. None of Borelli's surviving letters to Magliabechi can be traced back to his frequent Florentine sojourns, where he would participate in the activities of the *Accademia del Cimento* (which took place mainly between June and October, that is,

¹⁷ Some studies have been conducted on the book trade in Florence as well as on Leopold's and Antonio Magliabechi's relationship with bookstores and printers. See for instance: BOUTIER, PAOLI, VIOLA, 2017; MACLEAN, 2021, especially pp. 247-279; VAN VUGT, 2022; PAOLOZZI STROZZI, 1998; MIRTO, 1992; 2005; MIRTO, VAN VEEN, 1993; CAVARZERE, 2012.

¹⁸ MACLEAN, 2021, p. 33.

¹⁹ GALLUZZI, 1970.

²⁰ In this regard, see also the recent volume by Vera KELLER, 2016.

when members who had teaching commitments at the *Studio* were not in Pisa). Thus, the set of letters collected and published by Galluzzi in 1970 cannot offer – as he himself carefully points out – a complete overview of Borelli’s interests and activities during that period.

Some information, however, can be gleaned from the available sources. Anatomical and medico-biological books make up somewhat more than half of the volumes cited by Borelli (about 45 out of the 79 mentioned). Some of them, though not many, also appear in the list of books “concerning experimental matters” compiled by Rinaldini in 1656. These are Girolamo Cardano’s *De venenis libri tres*, William Harvey’s *Exercitationes de generatione animalium* (although this work appears in the first of Rinaldini’s lists but is expunged in the second) and, finally, the works by Daniel Sennert. This overlap concerns books more properly related to the medical field, which are only partially represented in Rinaldini’s survey. A greater overlap is found in relation to other fields. But this will be discussed in more detail shortly.

Slightly less than half of the volumes cited by Borelli in his correspondence with Magliabechi pertain to fields other than the strictly medico-biological one. A few scattered literature, history, and theology volumes are mentioned: in addition to Carlo Roberto Dati’s *Prose Fiorentine*, the poems by Agnolo Fiorenzuola and those of the *Accademia della Fucina*, of which Borelli had been a member during his Messina years. About ten volumes of pure and mixed mathematics appear. Excluding the volumes authored by Borelli himself (the *Euclide restitutus* in its Latin and vernacular versions and the edition of books V-VII of Apollonius of Perga’s *Conics*), only the works by Willebrord Snell and André Tacquet and the Theodosius of Bithynia volumes edited by Francesco Maurolico can be associated with his geometrical interests. The remainder include Riccioli’s *Geographiae et hydrographiae reformatae libri duodecim*, an “Optics booklet” (“libretto de Ottica”) by Huygens, a generic reference to Chiaramonti’s works, and François Aguilon’s work on Optics. Only the last of these appears in Rinaldini’s list, although – aside from a few brief handwritten notes by Viviani on the microscope –²¹ its use within the Academy is unknown.

More interesting, also for comparison with Rinaldini’s list, are the philosophical-natural, meteorological and alchemical volumes. They include the works by Robert Boyle (1660, 1661b, 1663), Descartes’ Letters (1657, which Borelli criticizes by saying he could find nothing of great note in them), the

²¹ “I microscopi d’Aguillon sono di tre convessi,” BNCF, *Gal.* 263, fol. 252r, Scritture del Viviani al Principe Leopoldo. Published in ABETTI, PAGNINI, 1942, p. 460.

Latin edition of Galileo's *Dialogues* (1635), and Arnold Senguerdus' *Physicae exercitationes* (1658). Also cited are Tommaso Cornelio' *Progymnasmata physica* (1663), in which an adherence to a form of corpuscularism is combined with experimental skepticism and the idea that natural philosophers should formulate axioms and hypotheses before making experiments and observations. Undoubtedly, among the books Borelli mentioned to Magliabechi, volumes addressing atomistic/corpuscular discussions stand out:²² Basson (1649), Dérodon (1661), Deusing (1661c), Gassendi (1658), and Sennert (1641) are mentioned, especially in the 1663 letters.²³ Corpuscular philosophy was not only a specific interest of Borelli's, but also part of the *Cimento's* agenda. Marco Beretta has already remarked that even Carlo Rinaldini, normally considered the "Aristotelian" of the group, committed himself to extrapolating excerpts from the works of Gassendi and Epicurus.²⁴ In this regard, it may be significant to compare the philosophical-natural books mentioned by Borelli in his letters with those included by Rinaldini in his list. Excluding volumes published after 1656, only Pecquet's and Liceti's books are not quoted by Rinaldini as well: Sébastien Basson's *Philosophiae naturalis adversus Aristotelem libri XII* (1621), Bérigard's *Circulus pisanus [...] de veteri et peripatetica philosophia* (1643), Girolamo Cardano's *De rerum varietate libri XVII* (1557), and Sennert's *Opera Omnia* are all mentioned in Rinaldini's 1656 list.

Pecquet's *Experimenta nova anatomica* (1651) does not appear in Rinaldini's papers, but – as is widely known – Viviani had a keen interest in it. As for Fortunio Liceti, one would have expected rather the opposite, namely: to find his texts cited by Rinaldini and not by Borelli.²⁵

Unfortunately, the surviving correspondence with Magliabechi is limited, so it neither provides a comprehensive view of Borelli's interests nor

²² This is an aspect already emphasized by Galluzzi and echoed in the literature: GALLUZZI, 1970, p. 271. See also, among others, PALMERINO, 2022.

²³ Basson's and Derodon's works are mentioned only in the letter of December 14th, 1663; Sennert's in the letter of April 16th, 1663; Deusing's in the letters of January 31st and April 23rd, 1663, and in the letter of February 4th, 1664. By contrast, citations of Gassendi's works cover the entire chronological span of the surviving letters, from January 1661 to February 1664.

²⁴ BERETTA, 2009, p. 1.

²⁵ Borelli certainly owned Fortunio Liceti's *Controversiae de cometarum quiete, loco boreali sine occasu, parallaxi Aristotelea, sede caelesti, et exacta theoria peripatetica* (1625) and *De lunae subobscura luce prope coniunctiones, et in eclipsibus observata libros tres* (1642). See Appendix 2. See also BALDINI, 1996. Of course, in-depth study of a book does not imply adherence to the theories contained therein, and certainly this was not what led Borelli to seek out a copy of Liceti's volumes.

allows us to trace his evolution over time.²⁶ Nevertheless, it provides some clues as to the books sought by Borelli during his *Cimento* period. And while the volumes mentioned in the letters were probably requested primarily as part of the groundwork for *De motu animalium*, no clear distinction can be drawn between the individual production of members and their work within the Academy.

Yet, Borelli's habit of affixing an *ex libris* to his volumes makes it possible to extend the analysis to the volumes he owned. In 1996, Ugo Baldini attempted an initial reconstruction of Borelli's library by identifying some of the books he owned and which are now kept in the Biblioteca Nazionale Centrale in Rome (BNCR).²⁷ Baldini's meticulous research focused on the works mentioned in Borelli's texts as well as on those that most reflected his main and attested topics of interest and research. The approximately 120 book copies identified by Baldini as having belonged to Borelli constitute an invaluable source for ascertaining the Italian mathematician's knowledge of the subjects he is known to have dealt with. However, they inevitably cannot open up new research paths with respect to any forms of knowledge or interests other than the ones we already attribute to Borelli.

Based on some fortuitous discoveries, the work of the BNCR – which has recently catalogued a number of its books by including the name of the owner, when identified – and the lines of inquiry deriving from these discoveries, a more thorough reconstruction of the books owned by Borelli has become possible. By relying on the *ex libris* displayed on the title page (or more rarely on the last page) of some volumes preserved at the BNCR, about twice as many volumes listed by Baldini have been identified, also expanding our knowledge with respect to the topics Borelli was interested in. Indeed, ownership of a book presumably indicates a non-fleeting interest in its subject and a real and thorough study of the work on the owners' part.

The list published in the appendix (Appendix 2) includes 241 books owned by Borelli that have been identified among the volumes in the BNCR. Clearly, this list remains open to further additions and cannot be considered complete or exhaustive. However, it offers a broader picture of Borelli's readings and interests.

²⁶ More substantial is the surviving correspondence with Marcello Malpighi (ADELMANN, 1975). It consists of approximately 135 letters sent between May 1659 and March 1669. A number of volumes are mentioned in them. As was to be expected on the basis of the common interests of the two correspondents, these are mainly medical-anatomical works. Moreover, no books emerge there that are not already included in the correspondence with Magliabechi or in the inventory of Borelli's library (See Appendices 1 and 2).

²⁷ BALDINI, 1996.

Some of the considerations made by Baldini on the basis of the 125 books he identified remain valid. In the mathematical field, for example, algebra continues to be under-represented compared to geometry: only François Viète's *De numerosa potestatum ad exegesim resolutione* (Paris, 1600) could be added to Baldini's list. Moreover, traditional parts of the mathematical *cursus*, such as gnomonics, are still absent. Certain areas of applied mathematics, such as civil and military architecture, are no longer entirely absent but continue to be poorly represented. Only two volumes have been found: Ottavio Revese Bruto's *Archisesto per formar con facilità li cinque ordini d'architettura; con altri particolari intorno la medesima professione* (Vicenza, 1627); and the first Latin edition of Dürer's work on the fortification of cities, castles and markets, originally published in 1527 and translated by Joachim Camerarius (*De urbibus, arcibus, castellisque condendis, ac muniendis rationes aliquot, praesenti bellorum necessitati accommodatissimae*, Paris, 1535). Jacopo Barozzi da Vignola's work *Le due regole della prospettiva pratica* (Rome, 1611) has also been found.

A fair number volumes added to the list enrich picture of Borelli's sources in some of the fields that are already best represented in Baldini's list. About 30 more medical works (mainly of anatomo-physiological nature) have been found. Among them are some additional volumes by already represented authors, but mostly new names emerge such as Jacobus de Back, Anton Günther Billich, Gabriele Cuneo, Bartolomeo Eustachi, Reinier Graaf, Franciscus Mercurius van Helmont, Johannes Van Horne, Johann Leuuneschlos, Andreas Vesalius, and Johan Vesling (among many others).

About 20 works on astronomy have been added to the list. Among them are some ephemerides and volumes on practical astronomy such as Johann Hecker's *Motuum caelestium ephemerides ab anno aera vulgaris 1666 ad 1680* (Paris, 1666), Vincenzo Renieri's *Tabulae Mediceae secundorum mobilium universales quibus per unicum prosthaphaereseon orbis canonem planetarum calculus exhibetur* (Florence, 1639), and Pierre Courcier's *Astronomia practica, sive Motuum caelestium praxes per astrolabia quaedam* (Nancy, 1653). Some ten volumes have expanded the list in the field of geometry.

The dearth of experimental works is still evident. Instead, among the additions to the list of books owned by Borelli we find a number of works related to the Aristotelian tradition (Cremonini, 1626; Nunes, 1592; Philip, 1648; Piccolomini, 1583; Punch, 1659; Suarez, 1628), as well as a good number of volumes of a historical nature, especially pertaining to Roman history (Appian, 1670; Arrian, 1683; Colonne, 1665; Diodorus, 1578; Polybus, 1670a and 1670b; Reina, 1658 and 1668; Rioche, 1576; Sabellico, 1544; Scheffer, 1654; Tacitus, 1596). Finally, a few scattered volumes on alchemy, botany, law, ethics, and language complete the list.

The only works overlapping with Rinaldini's 1656 list are Thomas Hobbes' *Elementorum philosophiae sectio prima de corpore* (London, 1655) and Niccolò Zucchi's *Nova de machinis philosophia* (Rome, 1649) and *Optica philosophia experimentis et ratione a fundamentis constitua* (Lyon, 1652). It must be said, however, that about one hundred works in the extended list (see Appendix 2) were published after 1656.

I will refrain here from an in-depth analysis of the volumes, which for each area would require a specific examination of Borelli's particular scholarly production, as well as of the context of the discipline and of the different milieus in which Borelli was operating. This new list, which remains provisional and open to additions, will hopefully offer new insights for a study of Borelli's scientific journey, as much as for an analysis of his participation in the *Cimento's* activities.

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APPENDIX 1.

WORKS MENTIONED BY BORELLI IN HIS CORRESPONDENCE WITH MAGLIABECHI
(1660-1664)

The works listed below – in alphabetical order, based on each author’s last name – are drawn from the letters sent by Borelli to Magliabechi between 1660 and 1664. Unless otherwise noted, the first (complete) edition prior to the date of the letter mentioning the volume is given for each book. In the event that the book was instead found among the volumes owned by Borelli, what is indicated is the edition of which he actually came into possession.

Where it has not been possible to identify the precise volume, only the author’s name is given (when Borelli mentions only the author), or – within quotation marks – the additional information, if any, provided by Borelli (e.g. Christiaan Huygens, “un libretto de Ottica di Christiano Eugenio”).

The * symbol indicates volumes of which a copy owned by Borelli has been identified in the BNCR.

1. ACCADEMIA DELLA FUCINA, 1642. *Le muse festeggianti*, Bologna, Giovanni Battista Ferroni.
2. ACCADEMIA DELLA FUCINA, 1661. *Poeti antichi raccolti da codici m.ss. della Biblioteca Vaticana, e Barberina. Da monsignor Leone Allacci e da lui dedicati alla Accademia della Fucina della nobile, et esemplare città di Messina*, a cura di Leone Allacci, Napoli, Sebastiano d’Alecci.
3. ACQUAPENDENTE Girolamo Fabrici d’, 1600. *De visione, voce, auditu*, Venetiis, Bolzettam.*
4. ACQUAPENDENTE Girolamo Fabrici d’, 1621. *De formatione ovi, et pulli tractatus accuratissimus*, Patavii, ex officina Aloysij Bencij bibliopolae.*
5. AGUILON François d’, 1613. *Francisci Aguiloni opticarum libri sex*, Antwerp, Moreti.*
6. APOLLONIUS OF PERGA, 1661. *Conicorum Lib. V, VI, VII*, ed. by Giovanni Alfonso Borelli, Florentiae, Cocchini.
7. BACK Jacobus de, 1660. *Dissertatio de corde. Cum copioso tam rerum quam capitum indice*, Rotterdam, Leers.*
8. BARTHOLIN Caspar, 1631. *Controversiae anatomicae, et affinec nobiliores et rariores*, Goslar, Hallervord.
9. BARTHOLIN Thomas, 1648. *Anatomicae vindiciae*, Copenhagen, Martzan.
10. BARTHOLIN Thomas, 1661. *De nivis usu medico observationes variae. Accessit D. Erasmi Bartholini De figura nivis dissertatio; cum Operum auctoris catalogo*, Copenhagen, R. Godicchi-P. Haubold.
11. BARTHOLIN Thomas, 1663. *Anatomia, ex Caspari Bartholini parentis institutio-nibus, omniumque recentiorum et propriis observationibus quartum ad sanguinis*

- circulationem reformata cun iconibus novis accuratissimis: accessit huic postremae editioni Th. Bartholini appendix de lacteis thoracis et vasis lymphaticis*, The Hague, Vlaq.
12. BASSON Sébastien, 1649. *Philosophiae naturalis adversus Aristotelem libri XII*, Amsterdam, Elzevir.
 13. BELLINI LORENZO, 1662. *Exercitatio anatomica [...] de structura et usu renum*, Florentiae, ex typographia sub signo Stellae.
 14. BÉRIGARD Claude Guillermet de, 1643. *Circulus pisanus [...] de veteri et peripatetica philosophia*, Utini, Schiratti.
 15. BILS Lodewijk van, 1659. *Epistolica dissertatio, qua verus Hepatis circa Orylum, et pariter ductus Chiliferi hactenus dicti usus, docetur*, Rotterdam, Naerani.
 16. BORELLI Giovanni Alfonso, 1658. *Euclides Restitutus*, Pisis, ex officina Francisci Honofri.
 17. BORELLI Giovanni Alfonso, 1663. *Euclide Rinnovato*, Bologna, Giovanni Battista Ferroni.
 18. BOYLE Robert, 1660. *New experiments physico-mechanical, touching the spring of the air, and its effects*, Oxford, Robinson.
 19. BOYLE Robert, 1661a. *Certain physiological essays and other tracts written at distant times, and on several occasions by the honourable Robert Boyle; wherein some of the tracts are enlarged by experiments and the work is increased by the addition of a discourse about the absolute rest in bodies*, London, Herringman.
 20. BOYLE Robert, 1661b. *The Sceptical Chymist*, London, Crook.
 21. BOYLE Robert, 1663. *Defensio doctrinae de elatere et gravitate aëris, propositae à dno Rob. Boyle, in novis ipsius physico-mechanicis experimentis, adversus objectiones Francisci Lini*, London, Crook.
 22. CARDANO Girolamo, 1557. *De rerum varietate libri XVII*, Basel, Henricus Petrus.
 23. CARDANO Girolamo, 1653. *De venenis libri tres*, Patau, apud Paulum Frambotum bibliopolam.
 24. CHAMBRE Marin de la.
 25. CHARLETON Walter, 1659. *Exercitationes physico-anatomicae, de oeconomia animalis [...]*, Amsterdam, Ravestein.*
 26. CHARLETON Walter, 1661. *Exercitationes pathologicae, in quibus morborum pene omnium natura, generatio, et caussae, ex novis anatomicorum inventis sedulo inquiruntur*, London, J. Martin.
 27. CHIARAMONTI Scipione.
 28. CORNELIO Tommaso, 1663. *Progymnasmata physica ad illustrissimum et excellentissimum D. Dominicum Franciscum Marinum Caracciolum Abellinatum principem*, Venetiis, Baba.
 29. DATI Carlo Roberto, 1661. *Prose fiorentine raccolte dallo Smarrito accademico della Crusca. Parte prima contenente orazioni. Volume primo*, Firenze, All'insegna della Stella.

30. DÉRODON David, 1661. *Disputatio de atomis*, Nîmes, Balthazar Fort.
31. DESCARTES Renée, 1657. *Lettres de mr Descartes. Où sont traittées les plus belles questions de la morale, physique, medecine, et des mathematiques*, Paris, Henry Le Gras.*
32. DEUSING Anton, 1655. *De motu cordis et sanguinis itemque de lacte ac nutrimento foetus in utero, dissertations*, Groningen, Bronckhorst.
33. DEUSING Anton, 1659. *Idea fabricae corporis humani. Seu Institutiones anatomicæ ad circulationem sanguinis, aliaque recentiorum inventa, accommodatae*, Groningen, Bronckhorst.*
34. DEUSING Anton, 1661a. *Disquisitio physico-mathematica, gemina, de vacuo itemque de attractione quibus probatur, nullum in rerum natura dari, vel posse dari vacuum; ipsaque experimenta variorum*, Amsterdam, Van der Berge.
35. DEUSING Anton, 1661b. *Exercitationes de motu animalium, ubi de motu musculorum et respiratione, itemque de sensum functionibus, ubi et de appetitu sensitivo et affectibus*, Groningen, Bronckhorst.
36. DEUSING Anton, 1661c. *Historia foetus extra uterum in abdomine geniti ibidemque per sex prope lustra detenti, ac tandem lapidescentis: consideratione physico-anatomica illustrata*, Groningen, Cölleni.
37. ENT George, 1641. *Apologia pro circulatione sanguinis qua respondetur Aemilio Parisano medico Veneto*, London, Young.
38. FIORENZUOLA Agnolo, 1552. *Prose di M. Agnolo Firenzuola*, Firenze, Torrentino.
39. GALILEI Galileo, 1635. *Systema cosmicum*, ed. by Matthias Bernegger, Leiden, David Hautt for Elzevir.
40. GASSENDI Pierre, 1658. *Opera omnia*, Lyon, Laurent Anisson & Jean-Baptiste Devenet.
41. GLISSON Francis, 1659. *Anatomia hepatis. Cui praemittuntur quaedam ad rem anatomicam universe spectantia. Et ad calcem operis subjiciuntur nonnulla de lymphae-ductibus nuper repertis*, Amsterdam, Ravestein.*
42. HARVEY William, 1649. *Exercitationes duae anatomicae de circulatione sanguinis. Ad Joannem Riolanum [...] Authore Gulielmo Harveo [...]*, Rotterdam, Leers.
43. HARVEY William, 1651. *Exercitationes de generatione animalium*, London, Dugard for Octavian Pulleyn.
44. HIGHMORE Nathaniel, 1651. *Corporis humani disquisitio anatomica; in qua sanguinis circulationem [...] succincta dilucidatione ornatam prosequutus est Nathanael Highmorus*, The Hague, S. Broun.*
45. HUYGENS Christiaan, "Un libretto de Ottica di Christiano Eugenio".
46. JASOLINO Giulio, 1573. *Quaestiones anatomicae et Osteologia parva*, Neapoli, Salvianus.
47. KNOBLOCH Tobias, 1661. *Institutiones anatomicae et psychologicae recens editae*, Wittenberg, s.n.
48. LICETI Fortunio, 1646. *De secundo-quaesitis per epistolas a claris viris, ardua, varia, pulchra, et nobilia quaeque petentibus in medicina, philosophia, theologia, mathe-*

- si, et alio quouis eruditionum genere, responsa Fortunii Liceti Genuens [...], Utini, Schiratti.
49. LICETI Fortunio, 1648. *De providentia, nimbiferi gripho [...] quinto-quaesitis [...]* responsa, Utini, Schiratti.
 50. LINDEN Joannes Antonides van der, 1653. *Medicina physiologica, nova curataque methodo ex optimis quibusque auctoribus contracta, et propriis observationibus locupletata*, Amsterdam, Ravestein.
 51. MALPIGHI Marcello, 1661. *De pulmonibus observationes anatomicae*, Bononiae, Typis Jo. Baptistae Ferronii.*
 52. OLIVA Giovanni Paolo, 1659. *Prediche dette nel Palazzo Apostolico da Gio. Paolo Oliva della Compagnia di Giesù e dedicate ad Alessandro VII*, Roma, Casoni.
 53. PECQUET Jean, 1651. *Experimenta nova anatomica*, Paris, Cramoisy.
 54. PECQUET Jean, 1654. *Experimenta nova academica*, Paris, Cramoisy.
 55. PETIT Pierre, 1660. *De motu animalium spontaneo liber unus, in quo partim Aristotelis de huius motus principio sententia illustratur, partim nova muscolorum motus ratio indagatur*, Paris, Cramoisy.
 56. PLAZZONI Francesco, 1644. *De partibus generationi inservientibus libri duo*, Leiden, De Haro.
 57. REINA Placido, 1658. *Delle notizie istoriche della citta di Messina prima parte*, Messina, Pietro Brea.*
 58. RHO Giovanni, 1652. *Delle orazioni sacre di Giouanni Rho della Compagnia di Giesù sopra la Divina Scrittura: parte prima l'Essamerone*, Venezia, Baba.
 59. RHODE Johann, 1657. *Observationum medicinalium centuriae tres*, Patavii, Typis Paoli Frambotti Bibliopolae.
 60. RICCIOLI Giovanni Battista, 1661. *Geographiae et hydrographiae reformatae libri duodecim [...]*, Bononiae, ex typograf. Haeredis vict. Benatij.*
 61. RIVIERE Lazare, 1656. *Observationes medicae, et curationes insignes*, Geneva, Philippe Gamonet.*
 62. ROLFINCK Werner, 1656. *Dissertationes anatomicae methodo syntheticâ exaratae, sex libris comprehensae [...]*, Nuremberg, Michael Endter.*
 63. SALMUTH Philipp, 1648. *Observationum medicarum centuriae tres postumae*, Braunshweig, Herman Conring.
 64. SANTORIO Santorio, 1660. *Opera omnia quatuor tomis distincta*, Venice, Francesco Brogiolo.
 65. SCHLEGEL Paul Marquard, 1655. *De sanguinis motu commentatio, in qua praecipue in Joh. Riolani, V. C. sententiam inquiritur*, Hamburg, Rabenlein.
 66. SENGUERDIUS Arnold, 1658. *Physicae exercitationes*, Amsterdam, Rabenlein.
 67. SENGUERDIUS Arnold, 1662. *Osteologia corporis humani*, Amsterdam, Jansson.
 68. SENNERT Daniel, 1641. *Opera omnia*, Paris, Chez la Société.
 69. SEXTUS EMPIRICUS, 1621. *Sexti Empirici opera quae extant*, Geneva, Petri et Jacobi Chouët.

70. SNELL Willebrord, 1627. *Doctrinae triangulorum canonicae libri quatuor [...] post mortem auctoris in lucem editi à Martino Hortensio Delfensi*, Leiden, Joannes Maire.
71. SPIEGEL Adrian van de, 1645. *Opera quae extant omnia. Ex recensione Ioh. Antonidae Vander Linden*, Amsterdam, Blaeu.*
72. STEENSEN Niels, 1662. *Observationes anatomicae, quibus varia oris, oculorum, et narium vasa describuntur, novique salivae, lacrymarum et mucii fontes deteguntur*, Leiden, Chouët.
73. TACQUET André, 1654. *Elementa geometriae*, Antwerp, Jacob van Meurs.
74. THEODOSIUS OF BITHYNIA, 1558. *Theodosii Sphaericorum elementorum libri. 3. ex traditione Maurolyci*, Messanae, Petrus Spira.*
75. VENTIMIGLIA Giovanni, 1663. *Dei poeti siciliani libro primo*, Napoli, Sebastiano d'Alecci.
76. VESALIUS Andreas, 1564. *Anatomicarum Gabrielis Falloppii observationum examen*, Venetiis, apud Franciscum de Franciscis.*
77. WHARTON Thomas, 1659. *Adenographia: sive Glandularum totius corporis description*, Amsterdam, Ravestein.

APPENDIX 2.

VOLUMES BELONGING TO BORELLI AND NOW PRESERVED IN THE BNCr

The works listed below – in alphabetical order, based on each author's last name – are ones for which copies survive bearing Borelli's *ex libris* on the title page (or, more rarely, on the last page).

The symbol * indicates works absent from the inventory published by Baldini (1996).

1. ACQUAPENDENTE Girolamo Fabrici d', 1600. *De visione, voce, auditu*, Venice, Bolzettam.*
IT-RM0267 12. 21.H.2
2. ACQUAPENDENTE Girolamo Fabrici d', 1625. *Tractatus De respiratione et eius instrumentis. Ventriculo intestinis, et gula. Motu locali animalium, secundum totum. Musculi artificio, et ossium dearticulationibus. Cum indice rerum copiosissimo*, Padua, Antonio Meglietti.*
IT-RM0267 12. 12.N.9
3. ANGELI Stefano degli, 1658. *Problemata geometrica sexaginta*, Venice, La Noù.*
IT-RM0267 12. 7.N.3
4. ANGELI Stefano degli, 1659. *De infinitis parabolis, de infinitisque solidis ex varijs rotationibus ipsarum, partiumque earundem genitis. Una cum nonnullis ad praedictarum magnitudinum, aliarumque centra grauitatis attinentibus*, Venice, La Noù.*
IT-RM0267 201. 40.E.8.1
5. ANGELI Stefano degli, 1660. *De infinitorum spiraliu spatiorum mensura, opusculum geometricum*, Venice, La Noù.*
IT-RM0267 201. 40.E.8.2
6. ANGELI Stefano degli, 1663. *De infinitis parabolis liber quintus. Opusculum geometricum. Authore f. Stephano de Angelis Veneto, Ordinis Iesuatorum S. Hieronymi*, Venice, La Noù.*
IT-RM0267 201. 40.E.8.1bis
7. ANGELI Stefano degli, 1667. *Considerationi sopra la forza di alcune ragioni fisico-matematiche, addotte dal m.r.p. Gio. Battista Riccioli della Compagnia di Giesù nel suo Almagesto nuovo, et Astronomia riformata contro il sistema copernicano. Espresse in due dialoghi da f. Stefano de gli Angeli, Venetia, Bortolo Bruni*.
IT-RM0267 14. 12.D.20
8. ANGELI Stefano degli, 1669. *Quarte considerationi sopra la confermatione d'una sentenza del Sig. Gio. Alfonso Borelli [...] prodotta da Diego Zerilli contro le terze considerationi di Stefano degli Angeli, etc. e sopra l'apologia del M.R.D. Gio. Battista Riccioli [...] a favore d'un suo argomento detto fisico-matematico contro il*

sistema copernicano. Espresse dal medesimo Stefano de gl'Angeli, Padova, Mattio Cadorin detto Bolzetta.*

IT-RM0267 MISC. B.308.3

9. APIANUS Petrus, 1533. *Cosmographiae introductio cum quibusdam geometriae ac astronomiae principiis ad eam rem necessarijs*, Venetiis, Per Io. Antonium & fratres de Sabio, sumptu & requisitione D. Melchioris Sessae.
IT-RM0267 8. 34.G.36.1
10. APOLLONIUS OF PERGA, 1566. *Apollonii Pergaei Conicorum libri quattuor. Una cum Pappi Alexandrini Lemmatibus, et commentariis Eutocii Ascalonitae. Sereni Antinensis philosophi Libri duo nunc primum in lucem editi. Quae omnia nuper Federicus Commandinus Urbinas mendis quamplurimis expurgata e Graeco convertit, et commentariis illustravit*, Bologna, Alessandro Benacci.*
IT-RM0267 71. 1.D.21
11. APPIAN OF ALEXANDRIA, 1670. *Appiani Alexandrini Romanarum Historiarum Pars prior [...] continens earum Punicam, Parthicam, Ibericam, Syriacam, Mithridaticam, Annibalicam*, Amsterdam, Janssonius van Waesberge.
IT-RM0267 9. 17.H.21-22
12. ARCHIMEDES, 1565. *Archimedis De iis quae vehuntur in aqua libri duo. A Federico Commandino Urbinate in pristinum nitorem restituti, et commentariis illustrati*, Bologna, Alessandro Benacci.*
IT-RM0267 69. 6.G.11.1
13. ARCHIMEDES, 1675. *Archimedis Opera: methodo nova illustrata, et succincte demonstrata. Per Isaacum Barrow*, London, William Godbid for Robert Scott.
IT-RM0267 12. 4.F.20
14. ARGOLI Andrea, 1644. *Pandosion sphaericum. In quo singula in elementaribus regionibus, atque aetherea, mathematice pertractantur*, Padua, Frambotto.*
IT-RM0267 14. 35.P.13
15. ARISTARCHUS OF SAMOS, 1572. *Aristarchi De magnitudinibus, et distantijs Solis, et Lunae, liber. Cum Pappi Alexandrini explicationibus quibusdam. A' Federico Commandino [...] illustratus*, Pesaro, Camillo Franceschini.*
IT-RM0267 69. 6.G.11.2
(No ownership marks on title page. However, the volume is joined in antique binding to Archimedes, 1565).
16. ARRIAN OF NICOMEDIA, 1683. *Ars tactica [...] Cum interpretibus Latinis, et notis. Ex recensione et museo Nicolai Blancardi*, Amsterdam, Janssonius van Waesberge.
IT-RM0267 6. 34.D.32
17. AUTOLYCUS OF PITANE, 1587. *De sphaera quae mouetur liber & Theodosii Tripolitae De habitationibus liber Omnia scholijs antiquis, et figuris illustrata: de vaticana bibliotheca deprompta: et nunc primum in lucem edita. Iosepho Auria Neapol. interprete. His additae sunt Maurolyci annotationes*, Rome, Antonio Blado eredi.*
IT-RM0267 68. 13.C.19

18. AUTOLYCUS OF PITANE, 1588. *De vario ortu et occasu astrorum inerrantium libri duo. Nunc primum [...] de Vaticana bibliotheca deprompti. Iosepho Auria Neapolitano interprete*, Rome, Vincenzo Accolti.*
IT-RM0267 14. 12.C.22.2
(No ownership marks on title page. However, the volume is joined in antique binding to Euclides 1591).
19. BACK Jacobus de, 1660. *Dissertatio de corde. Cum copioso tam rerum quam capitum indice*, Rotterdam, Leers.
IT-RM0267 13. 24.I.34
20. BAROZZI Francesco, 1572. *Il nobilissimo et antiquissimo giuoco pythagoreo nominato Rythmomachia cioe' battaglia de consonantie de numeri, ritrovato per utilità, et solazzo delli studiosi. Et al presente per Francesco Barozzi gentil'huomo venetiano in lingua volgare in modo di paraphrasi composto*, Venice, Grazioso Percacino.*
IT-RM0267 14. 7.M.15.3
(No ownership marks on title page. However, the volume is joined in antique binding to Hero 1572).
21. BAROZZI DA VIGNOLA JACOPO, 1611. *Le due regole della prospettiva pratica di M. Iacomo Barozzi da Vignola con i comentarij del R.P.M. Egnatio Danti dell'ordine de predicatori*, Roma, Stamperia Camerale.
IT-RM0267 255. 1.C.22
22. BARROW Isaac, 1669. *Lectiones XVIII, Cantabrigiæ in scholis publicis habitæ; in quibus opticorum phaenomenon genuinae rationes investigantur, ac exponuntur. Annexæ sunt lectiones aliquot geometricæ*, London, William Godbid.
IT-RM0267 14. 36.L.3
23. BARROW Isaac, 1670. *Lectiones geometricæ: in quibus (praesertim) generalia curvarum linearum symptomata declarantur*, London, William Godbid.
IT-RM0267 14. 8.B.13
24. BARTHOLIN Thomas, 1654. *Historiarum anatomicarum rariorum centuria 1. et 2*, The Hague, Martzan.
IT-RM0267 12. 18.I.17
25. BARTHOLIN Thomas, 1661a. *Spicilegia bina ex vasis lymphaticis, ubi clariss. viro- rum Pexqueti, Glissoni, Backii, Cattierii, le Noble, Tardii, VVhartoni, Charletoni, Bilsii, etc. sententiae examinantur. In Academia Hafniensi Regia publico eruditorum examini proposita*, Amsterdam, Van der Berge.
IT-RM0267 13. 24.G.35.1
26. BARTHOLIN Thomas, 1661b. *Dissertatio anatomica de hepate defuncto novis Bilsianorum observationibus opposita*, The Hague, Christian Wering.
IT-RM0267 12. 14.C.2.2
(No ownership marks on title page. However, the volume is joined in antique binding to Rudbeck, 1654).

27. BARTHOLIN Thomas, 1663. *De pulmonum substantia et motu diatribe. Accedunt Cl. V. Marcelli Malpighij de pulmonibus observationes anatomicae*, The Hague, Heinrich Clausen Gode.*
IT-RM0267 12. 14.C.7
28. BARTHOLIN Thomas, 1664. *De insolitis partus humani viis dissertatio nova. Accedunt cl. v. Johannis Veslingi [...] De pullitie Aegyptiorum et aliae ejusdem obseruationes anatomicae et epistolae medicae posthumae*, The Hague, Peder Haubold.
IT-RM0267 12. 7.I.8.1
29. BARTHOLIN Thomas, 1667. *De flammula cordis epistola, cum Jacobi Holsti [...] ejusdem argumenti Dissertatione. Accessit De carnibus lucentibus Danielis Puerarii responsio*, The Hague, Daniel Paulli.
IT-RM0267 12. 17.D.38
30. BÉGUIN Jean, 1643. *Tyrocinium chymicum*, Venice, Paolo Baglioni.
IT-RM0267 12. 23.I.21
31. BELLINI Lorenzo, 1665. *Gustus organum per Laurentium Bellini Florentinum novissime deprehensum; praemissis ad faciliorem intelligentiam quibusdam de saporibus*, Bologna, Antonio Pisarri.*
IT-RM0267 12. 15.B.31
32. BENEDETTI Giovanni Battista, 1585. *Diversarum speculationum mathematicarum et physicarum liber*, Turin, Bevilacqua.*
IT-RM0267 201. 39.H.2
33. BILLICH Anton Günther, 1643. *Antonii Guntheri Billichii Thessalus in chymicis redivivus id est, De vanitate medicinae chimicae, hermeticae seu spagyricae, dissertatio. Eiusdem anatomia fermentationis platonicae. Accesserunt de eadem Hermani Conringii exercitationes et Danielis Sennerti epistola*, Frankfurt M., Beyer.
IT-RM0267 12. 15.D.20
34. BOETHIUS, 1522. *De philosophiae consolatione. Eiusdem De scholastica disciplina, qui alii quoque auctori a nonnullis adscribitur*, Venice, Sessa.
IT-RM0267 12. 8.B.11
35. BONVILLE Anthony, 1660. *Problema mathematico-philosophicum tripartitum de termino magnitudinis, ac virium in animalibus*, Parma, Mario Vigna.
IT-RM0267 12. 3.A.28
36. BORELLI Giovanni Alfonso, 1646. *Discorso del signor Gio. Alfonso Borrelli Academico della Fucina, e professore delle scienze matematiche [...] nel quale si manifesta le falsità, e gli errori, contenuti nella difesa del Problema geometrico risoluto dal r.d. Pietro Emanuele*, Messina, Pietro Brea eredi.
IT-RM0267 14. 7.N.4.1
37. BORELLI Giovanni Alfonso, 1649. *Delle cagioni delle febbri maligne della Sicilia negli anni 1647 e 1648*, Cosenza, Giovanni Battista Rosso.
IT-RM0267 12. 12.M.18

38. BORELLI Giovanni Alfonso, [1668]. *Risposta di Gio. Alfonso Borelli [...] alle considerazioni fatte sopra alcuni luoghi del suo Libro della forza della percossa del R.P.F. Stefano de gl'Angeli*, Messina, s.n.
IT-RM0267 MISC. B.308.9.1
39. BORN Heinrich, 1654. *Henrici Bornii L.A.M. et philosophiae professoris Oratio inauguralis de vera philosophandi libertate, dicta in splendidissimo et frequentissimo auditorio Lugduni Batavorum, die 2 novembris anni 1653*, Leiden, Elzevier.
IT-RM0267 68. 3.B.8
40. BORREL Jean, 1559. *De quadratura circuli libri duo, ubi multorum quadraturae confutantur, et ab omnium impugnatione defenditur Archimedes. Eiusdem, Annotationum opuscula in errores Campani, Zamberti, Orontij, Peletarij, Io. Penae interpretum Euclidis*, Lyon, Rouille.
IT-RM0267 12. 24.E.22
41. BOULLIAU Ismaël, 1638. *De natura lucis*, Paris, Heuqueville.*
IT-RM0267 14. 34.H.14
42. BOULLIAU Ismaël, 1639. *Philolai, sive Dissertationis de vero systemate mundi*, Amsterdam, Blaeu.*
IT-RM0267 14. 34.K.28
43. BOYLE Robert, 1664. *Some considerations touching the usefulness of experimental naturall philosophy*, Oxford, H. Hall for R. Davis.
IT-RM0267 12. 1.L.7
44. BOYLE Robert, 1666. *The origine of formes and qualities, (according to the corpuscular philosophy), illustrated by considerations and experiments*, Oxford, H. Hall for R. Davis.
IT-RM0267 12. 7.B.20
45. BRAHE Tycho, 1610a. *Astronomiae instauratae progymnasmata [...]*, Frankfurt, Tampach.*
IT-RM0267 55. 9.E.10-11
46. BRAHE Tycho, 1610b. *Epistolarum astronomicarum libri. Quorum primus hic illustriss. et laudatiss. principis Gulielmi Hassiae Landtgrauij ac ipsius mathematici literas, unaque responsa ad singulas complectitur*, Frankfurt, Tampach.
IT-RM0267 55. 9.E.11.2
(No ownership marks on title page. However, the volume is joined in antique binding to Brahe, 1610).
47. BRAHE Tycho, 1621. *De disciplinis mathematicis oratio: in qua simul astrologia defenditur, et ab objectionibus dissentientium vindicatur: cum praeoquio Joach. Curtii Hambur*, Hamburg, Froben.*
IT-RM0267 MISC. B.308.4
48. CASTELLI Benedetto, 1615. *Risposta alle opposizioni del s. Lodovico delle Colombe e del s. Vincenzio di Grazia, contro al trattato del sig. Galileo Galilei, delle cose che stanno su l'acqua, o che in quella si muovono*, Firenze, Giunti.*
IT-RM0267 14. 4.N.9

49. CESALPINO Andrea, 1593. *Quaestionum peripateticarum lib. 5. [...] Daemonum investigatio peripatetica [...] Secunda editio. Quaestionum medicarum libri 2. De medicament. facultatibus lib. 2. [...] nunc primum editi*, Venice, Giunta.*
IT-RM0267 12. 30.G.17
50. CESALPINO Andrea, 1596. *De metallicis libri tres*, Rome, Zannetti.*
IT-RM0267 55. 2.C.35
51. CEVA Giovanni Benedetto, 1678. *De lineis rectis se invicem secantibus statica constructio*, Milan, Lodovico Monza.
IT-RM0267 201. 41.E.8
52. CHARLETON Walter, 1659. *Exercitationes physico-anatomicae, de oeconomia animali...*, Amsterdam, Ravestein.*
IT-RM0267 12. 13.B.13
53. CHESNE Joseph du, 1646. *Le ricchezze della riformata farmacopea del signor Giuseppe Quercetano medico, e consiglier regio*, Venezia, Guerigli.
IT-RM0267 12. 8.M.5
54. CHIARAMONTI Scipione, 1619. *Discorso della cometa pognare dell'anno 1618 [...] Aggiuntavi la risposta della cometa prossima antecedente dell'istesso*, Venezia, Pietro Farri.*
IT-RM0267 14. 34.O.47
55. CHIARAMONTI Scipione, 1621. *Antitycho Scipionis Claramontii Caesenatis in quo contra Tychonem Brahe [...] demonstratur cometas esse sublunares non coelestes*, Venice, Deuchino.*
IT-RM0267 55. 4.C.15
56. CHIARAMONTI Scipione, 1628. *De tribus novis stellis quae annis 1572. 1600. 1604. comparvere libri tres*, Cesena, Giuseppe Neri.*
IT-RM0267 12. 27.G.32
57. COLONNE Guido delle, 1665. *La storia della guerra di Troia, tradotta in lingua volgare da M. Guido delle Colonne messinese. Data in luce da gli Accademici della Fucina*, Napoli, Egidio Longo.
IT-RM0267 9. 3.K.14
58. COMMANDINO Federico, 1565. *Liber de centro gravitatis solidorum*, Bologna, Alessandro Benacci.*
IT-RM0267 RB 1347
59. COURCIER Pierre, 1653. *Astronomia practica, sive Motuum caelestium praxes per astrolabia quaedam*, Nancy, Charlot.
IT-RM0267 12. 3.C.33
60. COURCIER Pierre, 1663. *Opusculum de sectione superficiei sphaericae, per superficiem sphaericam, cylindricam, conicam*, Dijon, Piget.
IT-RM0267 14. 7.O.3
61. CREMONINI Cesare, 1626. *Apologia dictorum Aristotelis de calido innato*, Venice, Deuchino.
IT-RM0267 12. 2.F.17

62. CROONE William, 1667. *De ratione motus musculorum*, Amsterdam, Kaspar Commelijjn.*
IT-RM0267 13. 24.I.33
63. CUNEO Gabriele, 1564. *Apologiae Francisci Putei pro Galeno in anatome, examen*, Venice, Francesco de Franceschi.
IT-RM0267 55. 12.B.6.2
(No ownership marks on title page. However, the volume is joined in antique binding to Vesalius 1564).
64. CYRIAQUE DE MANGIN Clément, 1642. *Supplementum Cursus mathematici, continens geometricas aequationum cubicarum purarum, atque affectarum effectiones*, Paris, Henry Le Gras.*
IT-RM0267 14. 36.L.28
65. DAL MONTE Guidobaldo, 1579. *Planisphaeriorum universalium theorica*, Pesaro, Girolamo Concordia.*
IT-RM0267 13. 18.H.24
66. DAL MONTE Guidobaldo, 1615. *De cochlea. Libri quatuor*, Venice, Deuchino.*
IT-RM0267 201. 39.I.6
67. DESCARTES René, 1644. *Meditationes de prima philosophia*, Amsterdam, Blaeu.*
IT-RM0267 14.9.F.31.1
68. DESCARTES René, 1649. *Geometria a Renato Des Cartes anno 1637 gallice edita*, Leiden, Maire.*
IT-RM0267 201.39.F.38
69. DESCARTES René, 1656. *Principia philosophiae*, Amsterdam, Jan Jansson.
IT-RM0267 14. 10.F.16.1-2
70. DESCARTES René, 1657. *Lettres de mr Descartes. Où sont traittées les plus belles questions de la morale, physique, medecine, et des mathematiques*, Paris, Henry Le Gras.*
IT-RM0267 13.26.B.43
71. DESCARTES René, 1661. *Geometriae pars secunda*, Amsterdam, Elzevir.
IT-RM0267 8. 45.D.11
72. DESCARTES René, 1662. *De homine figuris et latinitate donatus a Florentio Schuyll*, Leiden, Moyard and Leffen.*
IT-RM0267 55. 9.B.4
73. DEUSING Anton, 1643. *De vero systemate mundi dissertatio mathematica. Qua Copernici systema mundi reformatur: sublatis interim infinitis pene orbibus, quibus in systemate Ptolemaico humana mens distrahitur*, Amsterdam, Elzevier.
IT-RM0267 68. 3.E.23
74. DEUSING Anton, 1647. *De mundi opificio discursus physicus*, Groningen, Jean Nicolas.
IT-RM0267 12. 13.N.23
75. DEUSING Anton, 1659. *Idea fabricae corporis humani. Seu Institutiones anatomicae ad circulationem sanguinis, aliaque recentiorum inventa, accommodatae*, Groningen, Bronckhorst.*
IT-RM0267 13. 24.N.18

76. DEUSING Anton, 1663. *In sylvam echo, seu Sylvius Heauton-timoroumenos. Cum appendice De bilis et hepatis usu: itemque exercitatione utrum medicina sit scientia, an ars; Sylvianae vitilitigationi oppositae*, Groningen, Jan Collen.
IT-RM0267 13. 24.I.38
77. DIODORUS Siculus, 1578. *Bibliothecae historicae libri 15*, Basel, Heinrich Petri.
IT-RM0267 9. 1.M.10
78. DIVINI Eustachio, 1663. *Lettera di Eustachio Divini all'ill.mo sig. conte Carl'Antonio Manzini*, Roma, Giacomo Dragondelli.*
IT-RM0267 12. 24.E.26
79. DÜRER Albrecht, 1535. *De urbibus, arcibus, castellisque condendis, ac muniendis rationes aliquot, praesenti bellorum necessitati accommodatissimae*, Paris, Chretien Wechel.
IT-RM0267 71. 5.E.41.1
80. EUCLIDES 1625. *Eukleidou Dedomena. Kai Marinou philosophou eis Dedomena Eukleidou hypomnema. Euclidis Data. Opus ad veterum geometriae*, Paris, Mondiere.
IT-RM0267 14. 34.P.18
81. EUCLIDES 1591. *Phaenomena post Zamberti: et Maurolyci editionem, nunc tandem de Vaticana. bibliotheca deprompta [...] a Iosepho Auria. Neapolitano. His additae sunt Maurolyci breves aliquot annotations*, Rome, Giovanni Martinelli.*
IT-RM0267 14. 12.C.22.1
82. EUSTACHI Bartolomeo, 1563. *Opuscula anatomica. Quorum numerum et argumenta aversa pagina indicabit [...]*, Venice, Vincenzo Luchino.
IT-RM0267 12. 7.M.3
83. FABRI Honoré [sub nomine Pierre Mounyer], 1646a. *Philosophiae tomus primus: qui complectitur scientiarum methodum sex libris explicatam*, Lyon, Jean Champion.*
IT-RM0267 12. 17.F.1
84. FABRI Honoré [sub nomine Pierre Mounyer], 1646b. *Tractatus physicus de motu locali, in quo effectus omnes [...] demonstrantur*, Lyon, Jean Champion.*
IT-RM0267 12. 17.F.2
85. FABRI Honoré [sub nomine Pierre Mounyer], 1648. *Metaphysica demonstrativa, sive Scientia rationum universalium*, Lyon, Jean Champion.*
IT-RM0267 12. 17.F.3
86. FABRI Honoré, 1665. *Dialogi physici, in quibus de motu terrae disputatur, marini aestus nova causa proponitur, necnon aquarum et mercurij supra libellam elevatio examinatur*, Lyon, Christophe Fourmy.
IT-RM0267 55. 3.E.29
87. FABRI Honoré, 1667. *Synopsis optica, in qua omnia quae ad opticam, dioptricam, catoptricam pertinent, id est, ad triplicem radium visualem directum, refractum, reflexum, breuiter quidem, accurate tandem demonstrantur*, Lyon, Horace Boissat and George Remeus.*
IT-RM0267 14. 34.O.32

88. FAILLE Jean-Charles della, 1632. *Theoremata de centro gravitatis partium circulis et ellipsis*, Antwerp, Meurs.
IT-RM0267 12. 20.F.3
89. FALLOPPIO Gabriele, 1562. *Observationes anatomicae*, Venice, Marcantonio Olmo.*
IT-RM0267 12. 19.I.19
90. FLAMINIO Marco Antonio, 1564. *In librum psalmorum brevis explanatio [...]*, Venice, Paolo Manuzio.
IT-RM0267 68. 8.A.1
91. GALILEI Galileo, 1607. *Difesa di Galileo Galilei nobile fiorentino, lettore delle matematiche nello studio di Padova, contro alle calunnie at imposture di Baldessar Capra milanese [...]*, Venice, Tommaso Baglioni.*
IT-RM0267 14. 34.N.37
92. GALILEI Galileo, 1610. *Sidereus nuncius magna, longeque admirabilia spectacula pandens*, Venice, Tommaso Baglioni.*
IT-RM0267 69. 4.C.118.1
93. GALILEI Galileo, 1612. *Discorso al serenissimo don Cosimo II. Gran duca di Toscana intorno alle cose, che stanno in sù l'acqua, o che in quella si muovono*, Firenze, Cosimo Giunta.*
IT-RM0267 71. 3.D.34
94. GALILEI Galileo, 1613. *Istoria e dimostrazioni intorno alle macchie solari e loro accidenti*, Roma, Giacomo Mascardi.*
IT-RM0267 69. 1.B.14
95. GALILEI Galileo, 1635b. *Tractatus de proportionum instrumento, quod merito compendium uniuersae geometriae dixeris*, Strasbourg, David Hautt.*
IT-RM0267 12. 34.F.20
96. GALLICIUS Joseph, 1676. *Geometria militaris in qua linearum, planorum, ac solidorum quantitates in operibus militaribus existentes considerantur. Omniaque geometricis demonstrationibus, et ratiocinio triangulorum pertractantur*, Munich, Johann Jacklin.
IT-RM0267 7. 4.L.4
97. GASSENDI Pierre, 1642a. *De motu impresso a motore translato. Epistolae duae*, Paris, Louis de Heuqueville.*
IT-RM0267 14. 33.O.18.1
98. GASSENDI Pierre, 1642b. *De apparente magnitudine solis humilis et sublimis. Epistolae quatuor*, Paris, Louis de Heuqueville.*
IT-RM0267 14. 33.O.18.2
(No ownership marks on title page. However, the volume is joined in antique binding to Gassendi 1642).
99. GASSENDI Pierre, 1656. *Institutio astronomica iuxta hypotheses tam veterum, quam Copernici, et Tychoonis [...] Accedunt Ejusdem varii Tractatus astronomici*, The Hague, Adrian Vlacq.*
IT-RM0267 14. 2.L.18

100. GASSENDI Pierre, 1659. *Exercitationes paradoxicae adversus Aristoteles*, The Hague, Adrian Vlacq.*
IT-RM0267 14. 7.M.43
101. GEMMA FRISIUS Reiner, 1571. *Arithmeticae practicae methodus facilis [...] Huc accesserunt Iacobi Peletarij [...] Annotationes*, Cologne, Maternus Cholinus.
IT-RM0267 12. 7.B.6
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111. GUIDUCCI Mario, 1620. *Lettera al M.R.P. Tarquinio Galluzzi della Compagnia di Giesù [...] Nella quale si giustifica dell'imputazion dategli da Lottario Sarsi Sigenzano nella Libra astronomica, e filosofica*, Firenze, Zanobi Pignoni.
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115. HERO OF ALEXANDRIA, 1589. *Gli artificiosi et curiosi moti spiritali di Herrone. Tradotti da M. Gio. Battista Aleotti d'Argenta*, Ferrara, Vittorio Baldini.*
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153. OCELLUS Lucanus, 1646. *De universi natura. Textum e Graeco in Latinum transtulit, [...] emendavit, paraphrasi, et commentario illustravit Carolus Emmanuel Vizzanius Bononiensis. Pars physica [...]*, Bologna, Giovanni Battista Ferroni.
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170. PUNCH John, 1659. *Philosophiae ad mentem Scoti cursus integer*, Leiden, Jean-Antoine Huguetau.
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178. RICCIOLI Giovanni Battista, 1668. *Argomento fisicomatematico [...] contro il moto diurno della terra, confermato di nuovivo con l'occasione della risposta alle considerazioni [...] fatte dal m.r.fr. Stefano de gli Angeli*, Bologna, Emilio Maria Manolessi e fratelli.*
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189. RUDBECK Olof, 1654. *Insidiae structae, Olai Rudbeckii Sueci ductibus hepaticis aquosis, et vasis glandularum serosis. Arosiae editis. A Thoma Bartholino [...]*, Leiden, Adriaen Wijngaerden.
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191. SACROBOSCO Ioannes de, 1551. *Libellus Ioannis de Sacro Bosco, de anni ratione, seu ut vocatur vulgò, Computus ecclesiasticus. Cum praefatione Philippi Melanchthonis*, Paris, Guillaume Cavellat.
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194. SALON Juan, 1576. *De Romani calendarii nova emendatione, ac Paschalis solennitatis reductione per R.P.F. Iohannem Salon Valentinum*, Florence, Giorgio Marescotti.
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196. SCHEFFER Johann Gerhard, 1654. *De militia navali veterum libri quatuor ad historiam Graecam Latinamque utiles*, Uppsala, Jan Jansson.
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198. SCHULTES Johann, 1665. *Armamentarium chirurgicum XLIII. tabulis aeri elegantissime incisus, nec ante hac visis, exornatum opus posthumum [...]*, Venice, Sebastiano Combi and Giovanni La Nou.
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199. SEGER Georg, 1658. *Dissertatio anatomica, de quidditate et materia lymphae Bartholinianae, cui accessere epistolae doctorum virorum de eadem lymphae*, Copenhagen, Peder Hake for Peder Haubold.
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200. SENDIVOGIUS Michael, 1644. *Novum Lumen Chymicum*, Venice, Combi.
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201. SERDONATI Francesco, 1572. *De' fatti d'arme de' Romani, libri tre*, Venice, Giordano Ziletti for Cristoforo Zanetti.*
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203. SLUSE René François, 1668. *Mesolabum seu duae mediae proportionales inter extremas datas per circulum et per infinitas hyperbolas [...] exhibitae*, Liège, Guillaume Henry Streel.*
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Direttore responsabile: prof. Stefano Carrai

Registrazione del Tribunale di Firenze n. 4026 del 6 novembre 1990

ISSN 0031-9414

FINITO DI STAMPARE
PER CONTO DI LEO S. OLSCHKI EDITORE
PRESSO ABC TIPOGRAFIA • CALENZANO (FI)
NEL MESE DI DICEMBRE 2022

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