

= Herbal =

A herbal is " a collection of descriptions of plants put together for medicinal purposes . " Expressed more elaborately , it is a book containing the names and descriptions of plants , usually with information on their virtues ( properties ) ? and in particular their medicinal , tonic , culinary , toxic , hallucinatory , aromatic , or magical powers , and the legends associated with them . A herbal may also classify the plants it describes , may give recipes for herbal extracts , tinctures , or potions , and sometimes include mineral and animal medicaments in addition to those obtained from plants . Herbals were often illustrated to assist plant identification .

Herbals were among the first literature produced in Ancient Egypt , China , India , and Europe as the medical wisdom of the day accumulated by herbalists , apothecaries and physicians . Herbals were also among the first books to be printed in both China and Europe . In Western Europe herbals flourished for two centuries following the introduction of moveable type ( c . 1470 ? 1670 ) .

In the late 17th century , the rise of modern chemistry , toxicology and pharmacology reduced the medicinal value of the classical herbal . As reference manuals for botanical study and plant identification herbals were supplanted by Floras ? systematic accounts of the plants found growing in a particular region , with scientifically accurate botanical descriptions , classification , and illustrations . Herbals have seen a modest revival in the western world since the last decades of the 20th century , as herbalism and related disciplines ( such as homeopathy and aromatherapy ) became popular forms of alternative medicine .

= = History = =

The word herbal is derived from the mediaeval Latin liber herbaris ( " book of herbs " ) : it is sometimes used in contrast to the word florilegium , which is a treatise on flowers with emphasis on their beauty and enjoyment rather than the herbal emphasis on their utility . Much of the information found in printed herbals arose out of traditional medicine and herbal knowledge that predated the invention of writing .

Before the advent of printing , herbals were produced as manuscripts , which could be kept as scrolls or loose sheets , or bound into codices . Early handwritten herbals were often illustrated with paintings and drawings . Like other manuscript books , herbals were " published " through repeated copying by hand , either by professional scribes or by the readers themselves . In the process of making a copy , the copyist would often translate , expand , adapt , or reorder the content . Most of the original herbals have been lost ; many have survived only as later copies ( of copies ... ) , and others are known only through references from other texts .

As printing became available , it was promptly used to publish herbals , the first printed matter being known as incunabula . In Europe , the first printed herbal with woodcut ( xylograph ) illustrations , the Puch der Natur of Konrad of Megenberg , appeared in 1475 . Metal @-@ engraved plates were first used in about 1580 . As woodcuts and metal engravings could be reproduced indefinitely they were traded among printers : there was therefore a large increase in the number of illustrations together with an improvement in quality and detail but a tendency for repetition .

As examples of some of the world 's most important records and first printed matter , researchers will find herbals scattered through the world 's most famous libraries including the Vatican Library in Rome , the Bodleian Library in Oxford , the Royal Library in Windsor , the British Library in London and the major continental libraries .

= = China , India , Mexico = =

= = = Shen Nung Pen Ts ? ao ching of China = = =

China is renowned for its traditional herbal medicines that date back thousands of years . Legend has it that mythical Emperor Shennong , the founder of Chinese herbal medicine , composed the

Shennong Bencao Jing or Great Herbal in about 2700 BCE as the forerunner of all later Chinese herbals . It survives as a copy made c . 500 CE and describes about 365 herbs . High quality herbals and monographs on particular plants were produced in the period to 1250 CE including : the Zhenlei bencao written by Tang Shenwei in 1108 , which passed through twelve editions until 1600 ; a monograph on the lychee by Cai Xiang in 1059 and one on the oranges of Wenzhou by Han Yanzhi in 1178 . In 1406 Ming dynasty prince Zhu Xiao ( ?? ) published the Jiuhuang Bencao illustrated herbal for famine foods . It contained high quality woodcuts and descriptions of 414 species of plants of which 276 were described for the first time , the book pre-dating the first European printed book by 69 years . It was reprinted many times . Other herbals include Bencao Fahui in 1450 by Xu Yong and Bencao Gangmu of Li Shizhen in 1590 .

= = = Sushruta Samhita of India = = =

Traditional herbal medicine of India , known as Ayurveda , possibly dates back to the second millennium BCE tracing its origins to the holy Hindu Vedas and , in particular , the Atharvaveda . One authentic compilation of teachings is by the surgeon Sushruta , available in a treatise called Sushruta Samhita . This contains 184 chapters and description of 1120 illnesses , 700 medicinal plants , 64 preparations from mineral sources and 57 preparations based on animal sources . Other early works of Ayurveda include the Charaka Samhita , attributed to Charaka . This tradition , however is mostly oral . The earliest surviving written material which contains the works of Sushruta is the Bower Manuscript ? dated to the 4th century CE .

= = = Hernandez ? Rerum Medicarum and the Aztecs = = =

An illustrated herbal published in Mexico in 1552 , Libellus de Medicinalibus Indorum Herbis ( " Book of Medicinal Herbs of the Indies " ) , is written in the Aztec Nahuatl language by a native physician , Martín Cruz . This is probably an extremely early account of the medicine of the Aztecs although the formal illustrations , resembling European ones , suggest that the artists were following the traditions of their Spanish masters rather than an indigenous style of drawing . In 1570 Francisco Hernández ( c.1514 ? 1580 ) was sent from Spain to study the natural resources of New Spain ( now Mexico ) . Here he drew on indigenous sources , including the extensive botanical gardens that had been established by the Aztecs , to record c . 1200 plants in his Rerum Medicarum of 1615 . Nicolás Monardes ? Dos Libros ( 1569 ) contains the first published illustration of tobacco .

= = Egypt , Mesopotamia , Greece and Rome = =

By about 2000 BCE , medical papyri in ancient Egypt included medical prescriptions based on plant matter and made reference to the herbalist 's combination of medicines and magic for healing .

= = = Papyrus Ebers = = =

The ancient Egyptian Papyrus Ebers is one of the earliest known herbals ; it dates to 1550 BCE and is based on sources , now lost , dating back a further 500 to 2000 years . The earliest Sumerian herbal dates from about 2500 BCE as a copied manuscript of the 7th century BCE . Inscribed Assyrian tablets dated 668 ? 626 BCE list about 250 vegetable drugs : the tablets include herbal plant names that are still in use today including : saffron , cumin , turmeric and sesame .

The ancient Greeks gleaned much of their medicinal knowledge from Egypt and Mesopotamia . Hippocrates ( 460 ? 377 BCE ) , the " father of medicine " ( renowned for the eponymous Hippocratic oath ) , used about 400 drugs , most being of plant origin . However , the first Greek herbal of any note was written by Diocles of Carystus in the fourth century BC ? although nothing remains of this except its mention in the written record . It was Aristotle 's pupil Theophrastus ( 371 ? 287 BCE ) in his Historia Plantarum , ( better known as the Enquiry into Plants ) and De Causis Plantarum ( On the Causes of Plants ) that established the scientific method of careful and critical

observation associated with modern botanical science . Based largely on Aristotle ' s notes , the Ninth Book of his Enquiry deals specifically with medicinal herbs and their uses including the recommendations of herbalists and druggists of the day , and his plant descriptions often included their natural habitat and geographic distribution . With the formation of the Alexandrian School c . 330 BCE medicine flourished and written herbals of this period included those of the physicians Herophilus , Mantias , Andreas of Karystos , Appolonius Mys , and Nicander . The work of rhizomatist ( the rhizomati were the doctors of the day , berated by Theophrastus for their superstition ) Krateuas ( fl . 110 BCE ) is of special note because he initiated the tradition of the illustrated herbal in the first century BCE .

= = = Dioscorides ? De Materia Medica = = =

The De Materia Medica ( c . 40 ? 90 CE ; Greek , ????? ????????? " Peri hules iatrikes " , ' On medical materials ' ) of Pedanios Dioscorides , a physician in the Roman army , was produced in about 65 CE . It was the single greatest classical authority on the subject and the most influential herbal ever written , serving as a model for herbals and pharmacopoeias , both oriental and occidental , for the next 1000 years up to the Renaissance . It drew together much of the accumulated herbal knowledge of the time , including some 500 medicinal plants . The original has been lost but a lavishly illustrated Byzantine copy known as the Vienna Dioscurides dating from about 512 CE remains .

= = = Pliny ? Naturalis Historia = = =

Pliny the Elder ' s ( 23 ? 79 CE ) encyclopaedic Naturalis Historia ( c . 77 ? 79 CE ) is a synthesis of the information contained in about 2000 scrolls and it includes myths and folklore ; there are about 200 extant copies of this work . It comprises 37 books of which sixteen ( Books 12 ? 27 ) are devoted to trees , plants and medicaments and , of these , seven describe medicinal plants . In medieval herbals , along with De Materia Medica it is Pliny ' s work that is the most frequently mentioned of the classical texts , even though the work De Simplicibus of Galen ( 131 ? 201 CE ) is more detailed and notable . Another Latin translation of Greek works that was widely copied in the Middle Ages , probably illustrated in the original , was that attributed to Apuleius and this also contained the alternative names for particular plants given in several languages . It dates to about 400 CE and a surviving copy dates to about 600 CE .

= = The Middle Ages and Arab World = =

During the 600 years of the European Middle Ages from 600 to 1200 , the tradition of herbal lore fell to the monasteries . Many of the monks were skilled at producing books and manuscripts and tending both medicinal gardens and the sick , but written works of this period simply emulated those of the classical era .

Meanwhile , in the Arab world , by 900 the great Greek herbals had been translated and copies lodged in centres of learning in the Byzantine empire of the eastern Mediterranean including Byzantium , Damascus , Cairo and Baghdad where they were combined with the botanical and pharmacological lore of the Orient . In the medieval Islamic world , Muslim botanists and Muslim physicians made a major contribution to the knowledge of herbal medicines . Those associated with this period include Mesue Maior ( Masawaiyh , 777 ? 857 ) who , in his Opera Medicinalia , synthesised the knowledge of Greeks , Persians , Arabs , Indians and Babylonians , this work was complemented by the medical encyclopaedia of Avicenna ( Ibn Sina , 980 ? 1037 ) . Avicenna ' s Canon of Medicine was used for centuries in both East and West . During this period Islamic science protected classical botanical knowledge that had been ignored in the West and Muslim pharmacy thrived .

= = = Albertus Magnus ? De Vegetabilibus = = =

In the thirteenth century , scientific inquiry was returning and this was manifest through the production of encyclopaedias ; those noted for their plant content included a seven volume treatise by Albertus Magnus ( c . 1193 ? 1280 ) a Suabian educated at the University of Padua and tutor to St Thomas Aquinas . It was called *De Vegetabilibus* ( c . 1256 AD ) and even though based on original observations and plant descriptions it bore a close resemblance to the earlier Greek , Roman and Arabic herbals . Other accounts of the period include *De Proprietatibus Rerum* ( c . 1230 ? 1240 ) of English Franciscan monk Bartholomaeus Anglicus and a group of herbals called *Tractatus de Herbis* written and painted between 1280 and 1300 by Matthaeus Platearius at the East @-@ West cultural centre of Salerno Spain , the illustrations showing the fine detail of true botanical illustration .

= = Western Europe = =

Perhaps the best known herbals were produced in Europe between 1470 and 1670 . The invention in Germany of printing from movable type in a printing press c . 1440 was a great stimulus to herbalism . The new herbals were more detailed with greater general appeal and often with Gothic script and the addition of woodcut illustrations that more closely resembled the plants being described .

Three important herbals , all appearing before 1500 , were printed in Mainz , Germany . Two of these were by Peter Schoeffer , his *Latin Herbarius* in 1484 , followed by an updated and enlarged German version in 1485 , these being followed in 1491 by the *Hortus Sanitatis* printed by Jacob Meyderbach . Other early printed herbals include the *Kreuterbuch* of Hieronymus Tragus from Germany in 1539 and , in England , the *New Herball* of William Turner in 1551 were arranged , like the classical herbals , either alphabetically , according to their medicinal properties , or as " herbs , shrubs , trees " . Arrangement of plants in later herbals such as *Cruydboeck* of Dodoens and John Gerard ' s *Herball* of 1597 became more related to their physical similarities and this heralded the beginnings of scientific classification . By 1640 a herbal had been printed that included about 3800 plants ? nearly all the plants of the day that were known .

In the Modern Age and Renaissance , European herbals diversified and innovated , and came to rely more on direct observation than being mere adaptations of traditional models . Typical examples from the period are the fully illustrated *De Historia Stirpium Commentarii Insignes* by Leonhart Fuchs ( 1542 , with over 400 plants ) , the astrologically themed *Complete Herbal* by Nicholas Culpeper ( 1653 ) , and the *Curious Herbal* by Elizabeth Blackwell ( 1737 ) .

= = = Anglo @-@ Saxon herbals = = =

Anglo @-@ Saxon plant knowledge and gardening skills ( the garden was called a *wyrterd* , literally , herb @-@ yard ) appears to have exceeded that on the continent . Our limited knowledge of Anglo @-@ Saxon plant vernacular comes primarily from manuscripts that include : the *Leechbook of Bald* and the *Lacnunga* . The *Leechbook of Bald* ( Bald was probably a friend of King Alfred of England ) was painstakingly produced by the scribe Cild in about 900 ? 950 CE . This was written in the vernacular ( native ) tongue and not derived from Greek texts . The oldest illustrated herbal from Saxon times is a translation of the *Latin Herbarius Apulei Platonici* , one of the most popular medical works of medieval times , the original dating from the fifth century ; this Saxon translation was produced about 1000 ? 1050 CE and is housed in the British Library . Another vernacular herbal was the *Buch der natur* or " *Book of Nature* " by Konrad von Megenberg ( 1309 ? 1374 ) which contains the first two botanical woodcuts ever made ; it is also the first work of its kind in the vernacular .

= = = Anglo @-@ Norman herbals = = =

In the 12th and early 13th centuries , under the influence of the Norman conquest , the herbals

produced in Britain fell less under the influence of France and Germany and more that of Sicily and the Near East . This showed itself through the Byzantine @-@ influenced Romanesque framed illustrations . Anglo @-@ Saxon herbals in the vernacular were replaced by herbals in Latin including Macers Herbal , De Viribus Herbarum ( largely derived from Pliny ) , with the English translation completed in about 1373 .

= = = Fifteenth @-@ century incunabula = = =

The earliest printed books and broadsheets are known as incunabula . The first printed herbal appeared in 1469 , a version of Pliny 's Historia Naturalis ; it was published nine years before Dioscorides De Materia Medica was set in type . Important incunabula include the encyclopaedic De Proprietatibus Rerum of Franciscan monk Bartholomew Anglicus ( c . 1203 ? 1272 ) which , as a manuscript , had first appeared between 1248 and 1260 in at least six languages and after being first printed in 1470 ran to 25 editions . Assyrian physician Mesue ( 926 ? 1016 ) wrote the popular De Simplicibus , Grabadin and Liber Medicinarum Particularum the first of his printings being in 1471 . These were followed , in Italy , by the Herbarium of Apuleius Platonicus and three German works published in Mainz , the Latin Herbarius ( 1484 ) , the first herbal published in Germany , German Herbarius ( 1485 ) , the latter evolving into the Ortus Sanitatis ( 1491 ) . To these can be added Macer ? s De Virtutibus Herbarum , based on Pliny 's work ; the 1477 edition is one of the first printed and illustrated herbals .

= = = Fifteenth @-@ century manuscripts = = =

In medieval times , medicinal herbs were generally referred to by the apothecaries ( physicians or doctors ) as " simples " or " officinals " . Before 1542 , the works principally used by apothecaries were the treatises on simples by Avicenna and Serapion ? s Liber De Simplici Medicina . The De Synonymis and other publications of Simon Januensis , the Liber Servitoris of Bulchasim Ben Aberazerim , which described the preparations made from plants , animals and minerals , provided a model for the chemical treatment of modern pharmacopoeias . There was also the Antidotarium Nicolai of Nicolaus de Salerno , which contained Galenical compounds arranged in alphabetical order .

= = = Spain and Portugal ? de Orta , Monardes , Hernandez = = =

The Spaniards and Portuguese were explorers , the Portuguese to India ( Vasco da Gama ) and Goa where physician Garcia de Orta ( 1490 ? 1570 ) based his work Coloquios dos Simples ( 1563 ) . The first botanical knowledge of the New World came from Spaniard Nicolas Monardes ( 1493 ? 1588 ) who published Dos Libros between 1569 and 1571 . The work of Hernandez on the herbal medicine of the Aztecs has already been discussed .

= = = Germany ? Bock , Brunfels and Fuchs = = =

Otto Brunfels ( c . 1489 ? 1534 ) , Leonhart Fuchs ( 1501 ? 1566 ) and Hieronymus Bock ( 1498 ? 1554 ) were known as the " German fathers of botany " although this title belies the fact that they trod in the steps of the scientifically feted Hildegard of Bingen whose writings on herbalism were Physica and Causae et Curae ( together known as Liber subtilatum ) of 1150 . The original manuscript is no longer in existence but a copy was printed in 1533 . Another major herbalist was Valerius Cordus ( 1515 ? 1544 ) .

The 1530 , Herbarum Vivae Eicones of Brunfels contained the admired botanically accurate original woodcut colour illustrations of Hans Weiditz along with descriptions of 47 species new to science . Bock , in setting out to describe the plants of his native Germany , produced the New Kreuterbuch of 1539 describing the plants he had found in the woods and fields but without illustration ; this was supplemented by a second edition in 1546 that contained 365 woodcuts . Bock was possibly the first

to adopt a botanical classification in his herbal which also covered details of ecology and plant communities . In this , he was placing emphasis on botanical rather than medicinal characteristics , unlike the other German herbals and foreshadowing the modern Flora . De Historia Stirpium ( 1542 with a German version in 1843 ) of Fuchs was a later publication with 509 high quality woodcuts that again paid close attention to botanical detail : it included many plants introduced to Germany in the sixteenth century that were new to science . The work of Fuchs is regarded as being among the most accomplished of the Renaissance period .

= = = Low Countries ? Dodoens , Lobel , Clusius = = =

The Flemish printer Christopher Plantin established a reputation publishing the works of Dutch herbalists Rembert Dodoens and Carolus Clusius and developing a vast library of illustrations . Translations of early Greco @-@ Roman texts published in German by Bock in 1546 as Kreuterbuch were subsequently translated into Dutch as Pemptades by Dodoens ( 1517 ? 1585 ) who was a Belgian botanist of world renown . This was an elaboration of his first publication Cruydeboeck ( 1554 ) . Matthias de Lobel ( 1538 ? 1616 ) published his Stirpium Adversaria Nova ( 1570 ? 1571 ) and a massive compilation of illustrations while Clusius ? s ( 1526 ? 1609 ) magnum opus was Rariorum Plantarum Historia of 1601 which was a compilation of his Spanish and Hungarian floras and included over 600 plants that were new to science .

= = = Italy ? Mattioli , Calzolari , Alpino = = =

In Italy , two herbals were beginning to include botanical descriptions . Notable herbalists included Pietro Andrea Mattioli ( 1501 ? 1577 ) , physician to the Italian aristocracy and his Commentarii ( 1544 ) , which included many newly described species , and his more traditional herbal Epistolarum Medicinalium Libri Quinque ( 1561 ) . Sometimes , the local flora was described as in the publication Viaggio di Monte Baldo ( 1566 ) of Francisco Calzolari . Prospero Alpino ( 1553 ? 1617 ) published in 1592 the highly popular account of overseas plants De Plantis Aegypti and he also established a botanical garden in Padua in 1542 , which together with those at Pisa and Florence , rank among the world ? s first .

= = = England ? Turner , Gerard , Parkinson , Culpeper = = =

The first true herbal printed in Britain was Richard Banckes ' Herball of 1525 which , although popular in its day , was unillustrated and soon eclipsed by the most famous of the early printed herbals , Peter Treveris 's Grete Herball of 1526 ( derived in turn from the derivative French Grand Herber ) .

William Turner ( ? 1508 ? 7 to 1568 ) was an English naturalist , botanist , and theologian who studied at Cambridge University and eventually became known as the ? father of English botany . " His 1538 publication Libellus de re Herbaria Novus was the first essay on scientific botany in English . His three @-@ part A New Herball of 1551 ? 1562 ? 1568 , with woodcut illustrations taken from Fuchs , was noted for its original contributions and extensive medicinal content ; it was also more accessible to readers , being written in vernacular English . Turner described over 200 species native to England. and his work had a strong influence on later eminent botanists such as John Ray and Jean Bauhin .

John Gerard ( 1545 ? 1612 ) is the most famous of all the English herbalists . His Herball of 1597 is , like most herbals , largely derivative . It appears to be a reformulation of Hieronymus Bock 's Kreuterbuch subsequently translated into Dutch as Pemptades by Rembert Dodoens ( 1517 ? 1585 ) , and thence into English by Carolus Clusius , ( 1526 ? 1609 ) then re @-@ worked by Henry Lyte in 1578 as A Nievve Herball . This became the basis of Gerard 's Herball or General Historie of Plantes. that appeared in 1597 with its 1800 woodcuts ( only 16 original ) . Although largely derivative , Gerard 's popularity can be attributed to his evocation of plants and places in Elizabethan England and to the clear influence of gardens and gardening on this work . He had

published , in 1596 , Catalogus which was a list of 1033 plants growing in his garden .

John Parkinson ( 1567 ? 1650 ) was apothecary to James I and a founding member of the Worshipful Society of Apothecaries . He was an enthusiastic and skilful gardener , his garden in Long Acre being stocked with rarities . He maintained an active correspondence with important English and Continental botanists , herbalists and plantsmen importing new and unusual plants from overseas , in particular the Levant and Virginia . Parkinson is celebrated for his two monumental works , the first *Paradisi in Sole Paradisus Terrestris* in 1629 : this was essentially a gardening book , a florilegium for which Charles I awarded him the title *Botanicus Regius Primarius* ? Royal Botanist . The second was his *Theatrum Botanicum* of 1640 , the largest herbal ever produced in the English language . It lacked the quality illustrations of Gerard 's works , but was a massive and informative compendium including about 3800 plants ( twice the number of Gerard 's first edition *Herball* ) , over 1750 pages and over 2 @, @ 700 woodcuts . This was effectively the last and culminating herbal of its kind and , although it included more plants of no discernible economic or medicinal use than ever before , they were nevertheless arranged according to their properties rather than their natural affinities .

Nicholas Culpeper ( 1616 ? 1654 ) was an English botanist , herbalist , physician , apothecary and astrologer from London 's East End . His published books were *A Physicall Directory* ( 1649 ) , which was a pseudoscientific pharmacopoeia . The *English Physitian* ( 1652 ) and the *Complete Herbal* ( 1653 ) , contain a rich store of pharmaceutical and herbal knowledge . His works lacked scientific credibility because of their use of astrology , though he combined diseases , plants and astrological prognosis into a simple integrated system that has proved popular to the present day .

= = Legacy = =

The legacy of the herbal extends beyond medicine to botany and horticulture . Herbal medicine is still practiced in many parts of the world but the traditional grand herbal , as described here , ended with the European Renaissance , the rise of modern medicine and the use of synthetic and industrialized drugs . The medicinal component of herbals has developed in several ways . Firstly , discussion of plant lore was reduced and with the increased medical content there emerged the official pharmacopoeia . The first British Pharmacopoeia was published in the English language in 1864 , but gave such general dissatisfaction both to the medical profession and to chemists and druggists that the General Medical Council brought out a new and amended edition in 1867 . Secondly , at a more popular level , there are the books on culinary herbs and herb gardens , medicinal and useful plants . Finally , the enduring desire for simple medicinal information on specific plants has resulted in contemporary herbals that echo the herbals of the past , an example being Maud Grieve 's *A Modern Herbal* , first published in 1931 but with many subsequent editions .

The magical and mystical side of the herbal also lives on . Herbals often explained plant lore , displaying a superstitious or spiritual side . There was , for example , the fanciful doctrine of signatures , the belief that there were similarities in the appearance of the part of the body affected the appearance of the plant to be used as a remedy . The astrology of Culpeper can be seen in contemporary anthroposophy ( biodynamic gardening ) and alternative medical approaches like homeopathy , aromatherapy and other new age medicine show connections with herbals and traditional medicine .

It is sometimes forgotten that the plants described in herbals were grown in special herb gardens ( physic gardens ) . Such herb gardens were , for example , part of the medieval monastery garden that supplied the simples or officinals used to treat the sick being cared for within the monastery . Early physic gardens were also associated with institutes of learning , whether a monastery , university or herbarium . It was this medieval garden of the fourteenth to sixteenth centuries , attended by apothecaries and physicians , that established a tradition leading to the systems gardens of the eighteenth century ( gardens that demonstrated the classification system of plants ) and the modern botanical garden . The advent of printing , woodcuts and metal engraving improved the means of communication . Herbals prepared the ground for modern botanical science by pioneering plant description , classification and illustration . From the time of the ancients like

Dioscorides through to Parkinson in 1629 , the scope of the herbal remained essentially the same .

The greatest legacy of the herbal is to botany . Up to the seventeenth century , botany and medicine were one and the same but gradually greater emphasis was placed on the plants rather than their medicinal properties . During the seventeenth and eighteenth centuries , plant description and classification began to relate plants to one another and not to man . This was the first glimpse of non @-@ anthropocentric botanical science since Theophrastus and , coupled with the new system of binomial nomenclature , resulted in " scientific herbals " called Floras that detailed and illustrated the plants growing in a particular region . These books were often backed by herbaria , collections of dried plants that verified the plant descriptions given in the Floras . In this way modern botany , especially plant taxonomy , was born out of medicine . As herbal historian Agnes Arber remarks ? " Sibthorp 's monumental *Flora Graeca* is , indeed , the direct descendant in modern science of the *De Materia Medica* of Dioscorides . "