Hellenistic and Early Modern Philosophy

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58. Ibid., 63-4.

ethics, organized by Steven Nadler at the American Philosophical Association meetings in Minneapolis, May 2001, and at Der Einfluß des Hellenismus auf die Philosophie der frühen Neuzeit, organized by Gábor Boros at the Herzog August Bibliothek in Wolfenbüttel, Germany, July 2001. Thanks to all present for their comments. Thanks also and especially to Brad Inwood, Phillip Mitsis, and Calvin Normore.

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The *Discourse on the Method* and the Tradition of Intellectual Autobiography

Stephen Menn'

I. The Discourse and Its Genre

other than logic, or to any other discipline of more than narrowly technical erns" (AT VI,17), but he recognizes no such debt to any kind of philosophy to "the [geometrical] analysis of the ancients and the algebra of the modedges the debts of this method to traditional logic and, in mathematics, that lead him to the method described in Part Two. He grudgingly acknowlby travelling in "the book of the world," but from his own private reflections not from the lessons of his teachers or from books or from what he learned was educated; he begins his own intellectual work, when he does begin it, made an almost-complete break with the traditional disciplines in which he lish. The Discourse presents this impressive but anonymous person as having author of some more mysterious treatises that he has chosen not to puba special method of "searching for truth in the sciences" and who is also the the Dioptrics, and the Meteors), who has made many new discoveries through who is the author of the Essays that the Discourse introduces (the Geometry, the original 1637 publication was anonymous – but at any rate of the person us the life and aims and undertakings, not precisely of René Descartes - for choose to pursue this path of thinking. By contrast, the Discourse presents to cally René Descartes. Rather he, or she, is a role that any of us can fill if we Meditations is less personal. The Meditator of the Meditations is not specifithe man, were the Discourse on the Method and the Meditations. Of these, the main works that survived the wreck, and continue to shape our picture of passed, and what was false in his physics was refuted and ridiculed, the two When Descartes' mathematics, and what was true in his physics, were sur-

But we know better than to take Descartes' self-presentation at face value, and it is fair to ask how novel the *Discourse* itself really is. It will help to distinguish two questions. First, does the *Discourse* belong to some established kind of writing whose rules it more-or-less consciously follows, or is it a formal

of knowledge ex nihilo, beginning by withdrawing assent from everything we even more than the Discourse, present themselves as restarting the enterprise founded on this authorial self-presentation? These are the kinds of quesauthor and his method, and how new is the advice it addresses to its reader innovation? Second, how new in content is what the Discourse says about its ing more obscure and less fashionable than "spiritual exercises." Of course, search does not seem to have begun in earnest on the Discourse on the Method.2 doctrines, and arguments from Augustine and others. But this kind of reand that, in their philosophical content, they use and transform concepts, on earlier "spiritual exercises" such as those of Augustine's Confessions VII. not let this scare us out of seeing that the Meditations are formally modelled have observed through the senses or heard from other people; but we have tions that we are now used to asking about the Meditations. The Meditations, explanation for why (as work by Dan Garber and others has shown) none of was such a genre, going back to ancient models and imitated both in the and a prescription for scientific method. And, as a matter of fact, there of scientific works containing a critique of established educational practices of writing with many earlier instances. But it would be much more useful tion, and a charter for a scientific research program, all of which are kinds an autobiography, a preface (to the Essays), a critique of traditional educaterpretation. It is certainly true that the Discourse, in whole or in part, is something familiar, but then it is likely to be too broad to be useful in inif we define the genre of the Discourse broadly enough, we can fit it into This may be in part because the *Discourse* belongs formally to a kind of writwitnessing a revolution.3 tional kind; his contemporary readers knew this too, and this is part of the that he was writing, and must have intended to write, a book of this tradiof writing is too close for coincidence, and that Descartes must have known I think that the fit between the Discourse and generic features of this kind to show that Descartes had read any one particular book of this kind, but Middle Ages and by some of Descartes' contemporaries. I don't know how been a pre-existing genre of, say, autobiographical prefaces to collections for understanding Descartes' authorial strategy in the Discourse if there had Descartes' contemporaries seem to have thought in 1637 that they were

I should admit both that this prehistory of the *Discourse* is complicated, and that I am ignorant of much of it. It is a history, not of a single entirely uniform kind of writing, but a group of related and overlapping kinds. And while I think I know who began this history, and some of its main later names, I am missing too many pieces to be sure that I know its overall shape. But I hope that, by suggesting a context for the *Discourse*, I will stimulate others to discover what is missing, and to take the rereading of the *Discourse* itself, in the light of its historical contexts, further than I can do here.

To see what possible models we might look to, and how the Discourse might turn out to follow or to diverge from them, it will help to say a bit

will perhaps find others that one will have reason [/do well] not to follow" (AT VI,4).fer, as a fable, in which, among some models that one might imitate, one he says that he "puts this writing forward only as a history, or, if you prenamely, the author himself; Descartes marks this rhetorical function when rhetorically by giving a paradeigma of the successful education of a scientistis not didactic but protreptic to education as a scientist, and it functions of how all the sciences fit together into a single enterprise. So the Discourse in the sciences, and indeed that he will have a vision of a "universal science, himself as evidence) that a person so formed will be ideally suited to engage formation of a personal moral code): Descartes is promising (and offering row sense; rather, he is describing the education of the scientist as a person Two, Descartes is not talking about anyone's scientific method in any nar-(including self-habituation in restraining precipitancy in judgment, and the he proposes" (AT I,339). But except for the very brief discussion in Part his personal method, "to give proof [/test] of the universal science which he tries to persuade them of its value by presenting the Essays as fruits of readers enough about his method to teach them to practice it themselves, teach it, but only to talk about it" (ibid.). While Descartes does not tell his the same as Preface or Foreword about Method, to show that my aim was not to calls the text "not Treatise on the Method, but Discourse on the Method, which is than in theory" (AT I,349) and so cannot really be taught. As he says, he Two, but that is all; as he himself says, his method "consists more in practice and without explanation, four entirely unoriginal rules of method in Part impossible to use the Discourse to learn how-to. Descartes does list, briefly show how I have tried to conduct my own" (AT VI,4). Indeed, it would be which everyone must follow for rightly conducting his reason, but only to just mean "discourse on the method for rightly conducting his reason," the author's: as Descartes says, "my aim is not to teach here the method ducting one's reason and searching for truth in the sciences." But it might ambiguous. Discours de la méthode pour bien conduire sa raison et chercher la vérité dans les sciences should mean "discourse on the method for rightly conmore about what the Discourse is supposed to be about. The title is slightly

But Descartes' account of his own education – his own selfeducation, which began by rejecting his school education and starting over – will not be purely inner and psychological; In order to show the reader the benefits of this education, he also wants to describe its concrete fruits – namely, his books, both the Essays in the Method and other books that he is not now making available; so Descartes describes why he wrote these books and gives an introductory description of their contents. The result should edge that the Discourse seeks to reach, to whet your appetite for the Essays in the Method and to show you what to read them for. But beyond that, it is supposed to whet your appetite for Descartes' method, which you will

have to discover for yourself by discerning and imitating what the author was doing in the *Essays*. Descartes' account of his own education shows that he was disappointed in books. His own books will make the situation a little better for those who come after him, not directly by serving as authoritative textbooks (any attempt to use the *Geometry* as a textbook of geometry would be a hideous failure), but by stimulating you to discover for yourself, with Descartes and his books as a model, what Descartes had had to discover by himself (so he would have you believe) without any model at all.

This is no doubt all familiar. But it will be useful to have it all set out in comparing the *Discourse* with other books, from Descartes' time and earlier, that share some of the same goals and rhetorical strategies. One immediate comparison is with other texts on scientific education. Many of Descartes' eminent contemporaries contributed such texts to a collection, inspired chiefly by Gabriel Naudé, *Hugonis Grotii et aliorum Dissertationes de Studiis Instituendis*, published in 1645 by Elzevier, who had just the previous year published the Latin version of Descartes' *Discourse*.⁴ The *Dissertationes* is a grab-bag of twenty-odd texts by different authors, each giving advice on how you should educate yourself in some particular scientific or literary discipline; sometimes they give you *paradeigmata* of successful education; very often they give lists of books that might be useful for your education in the given discipline, explaining why these books were written and how you should read them for the most profit.

Campanella is describing and justifying his own practice, he is also giving sciences. In his accounts of how to philosophize and how to write, while on the main writers who preceded him, especially but not exclusively in the and last chapter, basing himself on these principles, he gives his judgment either of scientific investigation or of scientific teaching; and in the fourth work; in Chapter 3, he explains the right way to write, especially in works down rules of method, which presumably have governed Campanella's own he explains the right way to philosophize, noting the natural prerequisites and he begins from his own education in all of them, beginning at age five. the disciplines, and he concentrates on his own writings on all of them, Naudé, and formally a letter to Naudé). Campanella is talking about all in the volume stands out in all three of these respects, Tommaso Campanella (intelligence, good memory, unflagging study, and so on) and then laying phases of his life, saying what books he wrote when and why; in Chapter 2, In Chapter 1, "On his own books," Campanella goes through the different OP's De libris propriis et recta ratione studendi syntagma (commissioned by not take the author's own books as the central or sole examples. But one text tion; and in that, often, when they describe useful books in the field, they do that, often, they do not take the author himself as the paradeigma for educaabout one single discipline rather than about all the sciences together; in These texts differ more or less from the Discourse in that they are often

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directions to the reader, who is exhorted and addressed in the second person singular especially in the list of rules of method in Chapter 2, Article 2. Articles 3–6, he lays out careful advice for what books to read in each discipline, and, especially, for what order to read them in; Campanella sees his tion that his Dominican brethren had tried to give him, as paradigmatic for what his reader will have to do; and Campanella hopes that his own books earlier writers overboard.

cational disappointment in Part One. As Campanella describes it, at the age supports the method of Part Two of the Discourse with the narrative of eduof fourteen or thereabouts, his dissatisfaction with what he learned from his teachers, much as Descartes Campanella captures his readers' support for his method by first narrating thing, and thus in particular reading, a practice Descartes thinks less well of previous sect, but he also favors learning the complete "history" of everypossible, and about forming your own judgment and not trusting to any like things about beginning with doubt and withholding assent as long as scriptions are quite different from Descartes' - Campanella says Descartesa critique of established education in Chapter 1, Article 1, and giving a prescription for scientific method in Chapter 2. And while Campanella's pre-(it was a colorful life, with periods of imprisonment) and especially with raisonné of the author's works, beginning with an autobiography in Chapter 1 the Campanella too, while not literally a preface, does give a catalogue tablished educational practices and a prescription for scientific method; a collection of the author's scientific works, containing a critique of es-As I said earlier Descartes' Discourse was an autobiographical preface to

I took down in writing lectures on logic and physics and psychology; but then, since I was troubled that what was being delivered to me in the Peripatos seemed to be not Aristotle, Greek and Latin and Arabic, and I began to doubt more and more about in their dogmas; and so I wished to inspect whether what they said was also to be read codex. And when my teachers could not give satisfaction to the arguments which I plato, Pliny, Galen, the Stoics and the Democriteans, but especially those of Telesio, the original autograph what was right and wrong in the copies.

And indeed the method Campanella will recommend is to read widely but sceptically both in the books of men and in the world, and then to pass critical judgment by testing some of these testimonies against others, above all against nature and sense-experience. By contrast, while Descartes too "spent

several years studying in the book of the world" (end of *Discourse* Part One, AT VI,10), his discovery of his own method came only when he abandoned that and "made the resolution to study also in *myself*" (ibid.). Descartes went on to draw his scientific system much more from his own internal resources – or, rather, Descartes chooses to present himself as drawing his scientific system much more from his own internal resources – than Campanella had done.

are entirely independent works.5 But as we have seen, these two books, destyle and deplores his panpsychist excesses at AT II,47-8 [and cp. AT II,436], the other (Descartes says some unkind things about Campanella's writing-Naudé-Campanella), but there is no reason to think that either influenced least friends-of-friends-of-friends (Descartes-Mersenne-Gassendiporaries (Campanella's dates are 1568–1639, Descartes' 1596–1650), and at both Copernicans and anti-Aristotelians, but that is all. They were contembelieve about the world or in what they believe about method; they were authors' youthful dissatisfaction with their school-education. These similarspite their differences, share formal features and some not-merely-formal but that is all). In particular, the Discourse and Campanella's De libris propriis Renaissance genre of intellectual autobiography, with their common feafeatures, such as what seems to have been an obligatory account of their tures going back to the same ancient model or models. ities suggest that Descartes and Campanella are both writing in a shared Descartes and Campanella are not particularly close, either in what they

II. Galen, Ibn al-Haitham, Ghazâlî

stumbled on the brief autobiography of Ibn al-Haitham (Alhazen), the great discussed only exempli gratia, but about the Discourse and its genre - when I is much too close for coincidence to Ghazâlî's intellectual history as premediately clear is that Ibn al-Haitham cites Galen by name four times); and is modelling it on autobiographical texts of Galen (the reason this was imcame immediately clear from this autobiography: first, that Ibn al-Haitham Muslim optical theorist and mathematician (ca. 965-1040). Two things bethe puzzle - not specifically about Descartes and Campanella, whom I have If I may say something autobiographical myself, I suddenly saw the key to and Ibn al-Haitham were both modelling their self-presentations on Galen's taking it from Ghazâlî, and it also quickly became clear that Ghazâlî was not Ghazâlî wrote seventy years after Ibn al-Haitham, Ibn al-Haitham was not and Ghazâlî is mostly talking about what we would call "religion." Since that Ibn al-Haitham is mostly talking about what we would call "science" sented in Ghazâlî's famous Deliverance from Error, and this despite the fact second, that Ibn al-Haitham's intellectual history as presented in this text taking it from Ibn al-Haitham; rather, the similarities were because Ghazâli self-presentation in his various autobiographical texts. If we put Galen and

> by Ghazâlî and Descartes. founding a specifically Galenic genre of autobiography/autobibliography, which I will describe. Nonetheless, Galen's On His Own Books and On the Order followed more closely by Ibn al-Haitham and Campanella and more loosely of our authors more than others, and I think we can speak of these books as of His Own Books do seem to have been a more particular model, for some ily one book as a model, but the more general strategy of self-presentation writings. 7 What the Muslims and Christians took from Galen was not primarthe Passions and Errors of the Soul, but also in scattered passages in many other especially in the On His Own Books and the On the Order of His Own Books and many of the same things but adapting himself to the demands of the context, authors could imítate; rather, he talks about himself in many places, saying wholly comfortable speaking of a single genre. Galen did not write a single canonical text, called something like Autobiography, which all the later own situation. In fact, the formal similarities are weak enough that I am not sonal to each author, is also inherited and adapted by each author to his autobiographical content, of what we might have expected to be most percal texts with some formal similarities, but that a surprising amount of the interesting is not that this leads our different authors to write autobiographiscious of Galen as his model, and although I do not claim to know all the originally invented by Galen, although Descartes may not have been conand Descartes, are taking over a strategy of self-presentation that had been a distinctive form of autobiographical writing and also a distinctive content links of transmission or even the overall shape of the tradition. What is most Muslim authors, and also Renaissance Christian authors such as Campanella to the description of the author's life and discoveries and writings. Our two Ibn al-Haitham and Ghazâlî together, we can see that Galen invented both

mathematical disciplines, in physics including the foundations of medicine, the Greek science of logic, and satisfying applications of this criterion in the and his search for a criterion of truth, until he found a satisfying criterion in disciplines to which he was first exposed, his aspirations to a higher wisdom, of thirty of Galen's treatises in sequence!). But Ibn al-Haitham embeds this enormous work On the Constitution of the Art of Medicine, following the order books, twenty-five in mathematics and forty-five in philosophy (including an of writing, and it is centered, like Galen's On His Own Books, on a list of his what he had done and written in the sciences of the ancients" up to the time list in an autobiographical account of his dissatisfaction with the sects and that Ibn al-Haitham gave it a title, but Ibn abî Uşaibi'a calls it a "book on he copied the text from Ibn al-Haitham's own autograph; it is not clear and of Euclid, Apollonius of Perga, and Ptolemy. Ibn abî Uşaibi'a says that medicine, and wrote expositions of the works of Galen as well as of Aristotle but as Ibn abî Uşaibi'a says, he wrote on the theoretical foundations of dictionary of medicine: Ibn al-Haitham never practiced medicine himself, Ibn al-Haitham's text is preserved for us in Ibn abî Uṣaibi'a's biographical

and in metaphysics or theology. As Ibn al-Haitham says at the beginning of the text,

which are the essence and nature of philosophy.9 in what Aristotle has established in the sciences of logic, physics, and metaphysics, sensible things and whose form is intelligible things; and I did not find this except view. And I saw that I would not reach the truth except from views whose matter is species of the sciences of the religions, and I had no success with any of them, and call it marvelous [good] fortune, or inspiration from God, or a kind of madness, do not know how it came about for me, since my childhood - if you wish you might I could not discern any path from them to the truth, or any new way to a certain reason I plunged into [kh-w-d] the varieties of views and judgments, and into the Kuehn: I am translating the Arabic, which overtranslates the Greek]. And for this in this life that is more noble or nearer to God than these two things" [10.457.11ff the pursuit of knowledge, being convinced that there is not given to man anything no store by them, and I paid them no heed, but yearned for the love of truth and or whatever you might ascribe this to - I have disdained the masses of men and set says in the seventh book of his De methodo medendi, where he addresses his student: "I the view which brings [one] near to God (great is his praise!), which leads [one] to which the fallacies in the opinions might be revealed, and the darkenings of the of truth, and I turned my desire and my power-of-discovery to grasping that by his acceptance and guides [one] to obeying and fearing him. And I was as Galen abandoned doubter might be dispelled; and I sought with firm resolution to acquire for grasping intellectual matters, I dedicated myself to the pursuit of the wellspring differ among themselves, and about the tenacious adherence of every sect among [because there is disagreement about] the paths to it. 8 So when I reached the age being sure that there is only one truth and that there is disagreement about it only them to the view they judge [true], and so I became a doubter about all of them, Ever since childhood I have been suspicious about the judgments of these men who

the same as earlier uses, but roughly it means believing something simply to be Jews and the children of Muslims to be Muslims" (ibid.). The term children of Christians always grew up to be Christians, the children of Jews off me on approaching the age of youthful assertion, since I saw that the in. "So the bond of laqlid relaxed from me and inherited creeds were broken about all of them, including the one that he himself had been brought up gious sects – and, realizing that they could not all be right, became a doubter in my nature not by my choice or my contrivance" (Watt 21, MR 25). 10 So of the Deliverance from Error. As Ghazâlî says, "a longing to grasp the realities taqlîd is notoriously difficult to translate, and Ghazâlî's use of it is not quite tenaciously maintained by the different sects - meaning especially the relifrom childhood, Ghazâlî, like Ibn al-Haitham, observed the different beliefs my life, an instinct and a fitra [divinely given original disposition] implanted of things was my habit and custom from my beginnings and the budding of faction with Aristotle!) as what Ghazâlî says about himself at the beginning sion on reading this was that it is exactly the same (apart from the final satis-Now for me, and I think for many other readers, the overwhelming impres-

because people who stand in some particular relation to you (your parents or teachers or the majority or the ruling group in your country) believe it, and not because you have examined the evidence yourself; Ghazâlî thinks the creeds of Christianity or Islam or the like, but also, for instance, the teachings of whatever sect in philosophy, medicine, or (religious) law they of things, and observes the views of different people and their reasons for it leads different people to contradictory results. So, as Ghazâlî puts it, "it is not know that he is a muqallid, and when he does [come to] know that, the into the fire and forged anew (Watt 27, MR 31).

the desired knowledge, and thus somehow to the divine - are very close disciplines), an apparent sceptical crisis (described by Ghazâlî much more fully than by Ibn al-Haitham), and the discovery of a criterion leading to tion of different disciplines (and writing of treatises in and against these doubt about traditional convictions, desire for a criterion, critical examinadifferent outcomes, the two stories of childhood aspirations to truth - early that philosophy fails the test, and that only suffsm succeeds. But despite the was satisfied with philosophy (he wrote a treatise That All Things Secular and Religious are Fruits of the Philosophical Sciences), while Ghazâlî tries to show based merely on authority, do not meet this standard, but Ibn al-Haitham Ghazâlî and Ibn al-Haitham both conclude that kalâm, as well as disciplines edge that has the desired certainty and that leads us to come near to God. of all the groups are listed Watt 26-7, MR 31), are able to achieve knowland the sûfîs; and he investigates whether these groups, each applying their for the Ismâ'îlîs it is "transmission from an infallible imâm"; the criteria distinctive criterion (for the philosophers, it is "logic and demonstration," plausible claims - namely, the mutakallimûn, the philosophers, the Ismâ'îlîs, in the Deliverance from Error, lists the groups that seemed to have the most ophy in the broadest sense, including logic and mathematics). 11 Ghazálí, Islam (such as kalâm and sûfism), or the "sciences of the ancients" (philoswhether particular religious communities, or the "religious sciences" within Ghazâlî searches among the different groups who claim such a criterion, which the fallacies in the opinions might be revealed"); like Ibn al-Haitham, truth (what Ibn al-Haitham had described as "the wellspring of truth, ... by So Ghazâlî, like Ibn al-Haitham, goes off in search of a criterion of

There is no reason to think that Ghazâlî had read Ibn al-Haitham's autobiography – there is no reason to think that anyone at all had read it before Ibn abî Uṣaibi'a found the autograph in the mid-thirteenth century. The Deliverance from Error is incomparably longer, more profound, and more

ambitious than Ibn al-Haitham's little memoir. The two texts, and the two authorial self-presentations, are close because they are following the same traditional model or models. Ibn al-Haitham, the more modest writer, tells us plainly that his model is Galen, by quoting Galen by name four times in six pages, each time taking something Galen says about himself and applying it to his own case; and in centering his discussion on a book-list, he is following specifically Galen's On His Own Books. Ghazâlî is much less likely to tell us that he is following someone else's model, especially the model of a pagan philosopher (Ghazâlî tries to conceal the extent of his dependence on the philosophers notably at Watt 40–41, MR 45–6), and I do not claim that Galen is his sole model (the influence of the early sûfi Hârith Muḥâsibi has often been noted), or that Ghazâlî follows Galen as closely as Ibn al-Haitham does. But I do think that Galen was a very important model for Ghazâlî too, and that this explains many of the features that Ghazâlî shares with Ibn al-Haitham.

and who does not follow any one sect within each discipline, but sifts out well as a doctor, and writes a treatise That the Best Doctor is Also a Philosopher) follows Galen's self-presentation here quite closely. the true from the false within the claims of each sect; as we will see, Ghazâlî does not practice only one discipline (he insists that he is a philosopher as he has made his mature judgments, Galen presents himself as someone who them" (Passions of the Soul c8, Singer 120, SM 1,32). And indeed, even once any one sect, but to take a long time in order to learn about them and judge his father had encouraged him "not to declare myself hastily the adherent of teen in his home city of Pergamum, Passions of the Soul c8); Galen says that Platonist, a Peripatetic, and even an Epicurean, starting at the age of fourand disciplines (thus in philosophy, he attended the lectures of a Stoic, a and Ghazâlî, represents himself as having examined many different sects that Ibn al-Haitham starts by quoting. Galen also, like Ibn al-Haitham what Galen attributes to himself in the passage from De methodo medendi VII childhood desire to "comprehend the realities of things" is very close to We have already seen that Ghazâlî's unchosen and divinely implanted

Galen also, more surprisingly, has something like the concept of taqlid, and uses it to motivate his search for some method, beyond the ones ordinarily practiced, for discovering the truth in the sciences. We would not expect to find the full Ghazâlian concept of taqlid in a Greek pagan author. For one thing, Ghazâlî is taking the word "taqlid" from technical discussions in Islamic jurisprudence, where a muqallid is someone who follows someone else's legal opinions, as opposed to a mujtahid, who makes his own decisions (based on the sources of law) about what is lawful and unlawful; and one of Ghazâlî's aims is to argue against the Ismâ'îlîs, who use sceptical arguments to show that no one except their infallible inâm is a competent mujtahid, and that everyone else must be muqallid on the imâm.¹² Nonetheless, Galen is much closer than any other Greek pagan author I know to having the

Ghazâlian concept of taqlîd. This is most striking in Galen's complaints about contemporary philosophers and doctors in On the Order of His Own Books c1:

Doctors and philosophers form admirations [thaumazousi] for other doctors or philosophers without having learned their doctrines, and without having practiced the art of demonstration [epistémé apodeiktiké], by which they would be able to distinguish the false arguments [logot] from the true ones, but some because their fathers were Empiricists or Dogmatists or Methodists, others because their teachers were, or their friends, or because someone from that sect had become celebrated [ethaumasthé] in their city. So too with the philosophical sects: people used to become Platonists or Peripatetics or Stoics or Epicureans for different reasons, but now, since it has become possible even to inherit a sect [nuni d'aph'hou kai diadochai haireseôn eisi; i.e. since the successive scholarchs of the Academy, the Peripatos etc. started leaving the sect to their designated successor], many people on this account name themselves after the sect in which they were brought up, especially when they have no other means of making a living. (Singer 23, SM II,80–81)

cited earlier on those who name themselves apo: some person or sect] than the followers of Moses and Christ [tous apo Môsou kai Christou; cf. the texts Greek pagan author of his time, Galen notices the Jews and Christians, and according to an irrational passion, like those who urge on [one side] in the doctors and philosophers who cling to their sects" (De pulsuum differentiis "One would more easily teach away [from their allegiance: metadidaxeien] he takes them as paradigms for the intellectual attitude he is deploring the Order of His Own Books c1, Singer 24, SM II,83). Very unusually for a the rivalry of the colors in the chariot-races [i.e. the circus-factions]" (On to one particular sect, contrasting "the lover of truth" with those who "choose Galen also speaks of irrational motives that lead people to attach themselves call slaves" (Singer 5, SM II,95); more interesting than this commonplace, name themselves Hippocrateans or Praxagoreans, or after any other man, I truth" (Watt 39, MR 45). Galen says in On His Own Books that "those who people "[try to] recognize the truth by the men, and not the men by the conclusions that are offered by rote in another sect. As Ghazâlî puts it, such their sect are any more demonstrative than the arguments for the opposite for themselves or have tested whether the arguments offered by rote in true, rather than because they know how to demonstrate the conclusions support myself, just as if my father were a shoemaker I might receive from because this is what they are used to hearing and so they assume it to be is that people take over the opinions of some philosophical or medical sect calling myself "Stephen the shoemaker."13 But Galen's more serious point him the tools of the trade and some instruction in how to use them and start quoted passage apparently means that, lacking other assets, I can call myself Stoics or Platonists only by title of inheritance. The slur at the end of the Peripatetic, and treat the sect as part of the inherited capital I can use to Galen has a number of different complaints about people who become "Stephen the Peripatetic" because my father or my schoolteacher was a

III,3, Kuehn 8.657); and in three passages (two of them preserved only in Arabic!) Galen contrasts his own method of teaching, which is based on demonstration, with that of "the people of Moses and Christ, [who] have commanded [their students] to accept everything by faith." These were among the very few Greek texts critical of the prophetic religions that were available to the Muslims, and they must have made an impression. Râzî may well be echoing them when he summarily dismisses all of the followers of all of the prophets as being in taqtid and therefore incapable of studying philosophy. Ghazâlî too takes "the children of Christians [who] grow up to be Christians, the children of Jews to be Jews and the children of Muslims to be Muslims" as paradigms of taqtid, and part of his project in the Deliverance from Error is to show, against people like Galen and Râzî, that it is possible to be a Muslim without being a muqallid.

Galen does not use his observation of taqlid, as Ghazâlî does, to justify an early loss of faith in inherited beliefs and thus a turning to the intellectual disciplines, and indeed this would be much less plausible in a Greek pagan context. For Galen, the encounter with taqlid, and the ensuing sceptical crisis, happen at a slightly later stage, after he has begun studying philosophy, at the age of fourteen, with teachers from different sects: Galen notices the disputes between the sects, and he also notices "that everyone claims that they themselves are giving demonstrations [apodeiknuein] and that they are refuting [elenchein] their debate-companions" (On His Oun Books C11, Singer 17–18, SM II,115; not entirely clear in context whether this is just philosophers, but probably). So Galen realizes that to resolve these disputes, he needs a secure method for constructing demonstrations, and also for judging when an allegedly demonstrative argument really is a demonstration and when it is not, but "like a counterfeit coin, resembles the genuine article but is in reality worthless" (Singer 18, SM II,116).

So, having handed myself over to all the famous Stoics and Peripatetics of that time [sc. because these schools had the best reputation in logic], I learned many other logical theorems [i.e. non-primitive argument-forms whose validity is demonstrated from the primitive ones] which when I investigated afterwards I found to be useless for demonstrations, but very few which they had discovered to any benefit and which were aimed at attaining the intended goal [i.e. discovering demonstrations]; and, even so, these were disputed among [the philosophers] themselves, and some were also contrary to the common [lit. natural = innate] notions. And by the gods, so far as it depended on teachers, I too would have fallen into the *aporia* of the Pyrrhonists, if I had not had a firm grasp of [kalechôn] the [truths] of geometry and arithmetic and calculation, in which, for the most part, I had been trained by my father to make progress from the beginning. (Singer 18, SM II, 116)

The problem with the philosophical sciences is not that people do not have arguments for their beliefs, or even that these arguments are not sometimes demonstrative, but that people do not hold these beliefs *because* they have

arguments that appear plausible to reason. appear to the senses, but a criterion for judging also among the different not simply in the way that reason is a "criterion" for judging the things that ent arguments each claiming to be demonstrative, Galen needs a criterion, ply between different beliefs each claiming to be true, but between differdemonstration, and pass off non-demonstrative arguments as if they were sired conclusions, the philosophers surreptitiously relax their conditions for the applications of their logical systems. Since the conflict here is not simthey are stacked, do not reach up from genuine first principles to the defor generating valid arguments; but since these arguments, no matter how that it is important to have demonstrations, and so they invent machinery sometimes, by good luck, they are. 16 Of course, the philosophers recognize right conclusions, and not because they are in fact demonstrative, even if strative because the arguments are traditional or because they support the and refute their rivals, and they believe that these arguments are demonherit the arguments or invent new ones to support the inherited beliefs demonstrative arguments for them; they inherit the beliefs, and they in-

that will not require another criterion to confirm that we have found the stresses the difficulty of finding a "judge" [kniés] or "criterion" [kniénon] and (analogously) among things that appear to reason (Errors c6); and he right one (Errors c4, SM I,61). Nonetheless, Galen believes that it is possible of error, Galen shows us the ways that we might falsely take something as evident that is really non-evident, both among things that appear to the senses trusted to avoid error in the sciences, Errors c6). To make us realize the risk for people who give precipitous assent in such everyday matters cannot be or Theodorus approaching, or whether so-and-so is back in town as reported; sent even in matters of everyday life – for example, whether that is Menippus so disciplined himself that never since childhood has he given precipitous astics on the importance of avoiding precipitous assent (Galen personally has (Errors c1, Singer 128, SM I,47). And Galen entirely agrees with the scepconflict with each other, can all be true, although they might all be false" philosophers who make positive assertions about goods and evils, since these is possibly false; and they say that it is not possible that the opinions of the seeking, every assent is necessarily precipitous [i.e. non-cataleptic], and so concede that we [can] have scientific demonstration of the things we are which it is of the highest importance for us to resolve, gives an occasion the different philosophical sects about the human telos. This disagreement, for scepticism: "according to the Academics and Pyrrhonists, who do not Soul, the process is supposed to begin with observing the disagreement of Own Books C11, is clearly supposed to be paradigmatic. In the Errors of the ful search for a criterion or demonstrative method, as described in $On\ His$ education of his reader; but his own education, including his own successin the Errors of the Soul, in laying out a program for the scientific-and-moral Galen expands at greatest length on our need to seek such a criterion

method], he must first practice it for a long time [on small matters] before c1, Singer 128-9, SM I,47, picking up immediately after the passage on the stration], he must seek ... what the demonstrative method may be" (Errors assent to things beyond those immediately evident to sensation or reason, the telos and other great philosophical issues]" (ibid.). he passes to the investigation of the greatest things [such as the question of sceptical challenge); then, "when he is persuaded that he has found such [a non-manifest thing; then, when he discovers [an instance of such demonerror must first investigate whether there is [= can be] demonstration of a based on such a self-justifying criterion. "Someone who wants to be without to overcome scepticism, and to reconstruct a practice of assent, including

Stoic) syllogistic, which is inadequate to produce the kinds of arguments ophy and medicine; here, geometry contrasts with formal (Peripatetic or geometrical analysis, have been the model for his own reasoning in philosc3, c5). And Galen claims that geometrical demonstrations, and specifically subject (and also to spot the defects in non-demonstrative arguments, Error. to the desired conclusion (Errors c5, with an emphatic contrast between c4-5), both because it is specifically a method for discovering a demonstrasuccessful, whereas your errors in philosophy might remain concealed from recognize and to work towards discovering demonstrative arguments on any confirmation of our results; for the geometrical paradigm will allow us to ophy and medicine and other disciplines where we do not have immediate apply the same method, or transfer the same intellectual habits, to philos discovering demonstrations in these disciplines, Galen thinks we can simply geometrical analysis and philosophy). Once we have practiced ourselves in first principles and of a sequence of valid arguments from these principles of analysis are self-confirming, since they lead to the discovery of evident tion of a given proposition or its contradictory, and because the successes eral; Galen especially recommends the model of geometrical analysis (Errors these disciplines will give us good training in demonstrative method in genyourself and from others (Errors c3, c5). So learning how to demonstrate in disciplines you can immediately tell whether your solution to a problem is but unite in praising those of the geometers), but also because in these the different philosophical sects criticize each other's "demonstrations," established in them than in philosophy (as he says in On His Own Books C11, plines, not only because the practice of demonstration has become better devices such as sundials and water-clocks. Galen recommends these disciprofession), by which he means especially the construction of mechanical subjects, especially geometry and what he calls "architecture" (his father's Galen stresses the importance of beginning with smaller, non-philosophical in the Errors of the Soul (recommending a like procedure for his reader), they are. Both in On His Own Books C11 (recounting his own discovery) and himself has discovered such a criterion and a method, and what exactly But Galen becomes rather mysterious and allusive about how exactly he

> apparently he thinks that if you are not practiced in geometry, such an ex explain how his own modes of reasoning are like those of the geometers ably Galen said more about this in his great lost treatise On Demonstration planation will do you no good, and if you are practiced in geometry, it will b than that of the Stoics). At least in extant works, though, he says very little t as well as in his lost monograph That the Analysis of the Geometers is Bett needed in the real practice of the sciences (On His Own Books C11; presum

soul is immortal, which have no connection with what is evident to us, he will continue to suspend judgment. eternity, whether there is anything spatially outside it, whether the human on such questions as whether the cosmos came-to-be or has existed from senses or to reason (which includes most philosophical questions). And by suspending judgment on all questions not immediately evident to the of people who make grandiose claims to knowledge; he will have begun best doctor and philosopher is not omniscient, and he will be suspicious method, that led him to range further afield, to the mathematical disciplines conclusions, but also discover truths beyond what he himself had discovered as to discover paradigms of scientific method; once we have grasped what (so especially in That the Best Doctor is Also a Philosopher). Nonetheless, the (say) Hippocrates' implicit method was, we can not only confirm most of his but also to the books of the ancients, not so much to discover true doctrines For it was the degeneracy of the moderns, especially their lack of scientific Epicureans; to a lesser extent Herophilus, the Empiricists, and Aristotle). their recent rivals (Erasistrateans, Asclepiadeans, Methodists, Stoics, and in medicine, Plato in philosophy) over their recent imitators and also over of any established sect. Still, he will prefer the ancient models (Hippocrates spurious). He will thus be qualified to be an eclectic rather than a member some of their books - especially among those ascribed to Hippocrates - are particular interpretations of what his predecessors have said, or to judge that conclusions on faith, but applying his criterion to sift what is true from what is false in them (this may also lead him, guided by a principle of charity, to favor He will also make use of the books of his predecessors, not accepting their by both reason and sense-experience, and show that these do not conflict discovered things in dissections that his predecessors had never seen (O) His Own Books c2). The best doctor or philosopher will support his claim: but by successful cures and by observations; in particular, he claims to have his medical claims, and to confound his medical rivals, not just by reasoning is heavier than water (Errors c7). And Galen boasts of being able to prove empirical test, even on issues that should be testable, such as whether wood the architects) for their inability or unwillingness to put their claims to an in favor of observation; he berates the philosophers (contrasting them wit he adopts purely "rationalist" criteria in philosophy and medicine. Galen i But Galen's emphasis on the geometrical paradigm does not mean tha

doctors and philosophers, and he claims to have learned more toward it; he contrasts his own honest uncertainty with the arrogant claims of the lack not only of scientific knowledge but also of any method for deciding determine the truth in the sciences, Galen speaks of his early aporia, his for the reader, by covering his intellectual arrogance with a kind of humility. to win his reader's goodwill, and present himself as an attractive paradeigma eclectic, applying his demonstrative method and his criterion for good and set of opinions in philosophy any more than in medicine: philosophy, like Rather than just claiming that he possesses a criterion and has used it to bad arguments to sort out the truth from among the sects. And Galen helps medicine, is mired in irresolvable disputes, and so here too Galen must be an is also important for Galen to show that he did not accept a ready-made the teleological study of the parts of animals and into psychology). But it and because of his knowledge of the human body and soul, based on physics because of his demonstrative method, based on logic (and mathematics), contemporary doctors is not simply that he selects different doctrines from strategy of justification that he be not merely a doctor; his superiority to other sect, and on each philosophical sect as well. For it is important to Galen's to possess such a criterion by his many critical writings on each medical him to sift the true from the false in each sect. Galen supports his claim and his possession of a demonstrative method and of a criterion enabling describing the defects of the education offered by his own teachers, and their authenticity and interpretation, On the Order of His Own Books c3). By since it is unsafe to read the works of Galen's predecessors without also authority in philosophy and medicine - indeed, as the authority in medicine, strategy of justification to establish himself (in the face of real hostility) as an (going beyond the knowledge of even the rationalist doctors, especially into the different sects, but that he can base this judgment on philosophy, both in the On Prognosis), but also in his independence of any established sect only on his external successes in the practice of medicine (listed ad nauseam books). Of course, in the nature of his case, Galen cannot urge you to follow warns his readers against going to anyone but him (personally or through his indeed by all recent teachers, Galen both establishes his own originality and to read the works of Hippocrates without Galen's commentaries to settle reading Galen's assessment of them (Galen warns us that it is unsafe even just uncontrollable boastfulness, but a rational and remarkably successful some of the boasting. Nonetheless, Galen's motivation in these works is not discussing, and I have been selective even with these in order to trim away about himself - the On Prognosis is much worse than the works I have been doubt. Sometimes it becomes simply unbearable to read Galen's boasting him slavishly either. Nonetheless, he works to establish his own authority, not of this. One of Galen's most sympathetic recent students attributes to him "an intense and overpowering personal conceit," and of this there is no At this point, we should step back and ask why Galen is telling us all

criterion of truth from humbler professions such as architecture than from the philosophers; and to the end he continues to suspend judgment, against the rash claims of the different philosophical sects, on such questions as the plurality of worlds and the immortality of the soul. If we are persuaded of Galen's honesty and love of truth, and see that he has reached success in the sciences starting from a position of *aporia*, we may also be persuaded that we can follow his path to reach the same success ourselves, at least those few of us who have Galen's rare natural abilities and his rare devotion to truth.

but he tries to show that accepting his authority can be perfectly rational of irrational attachment to a single authority that Galen has been deploring, true opinion. We might think that the second path would involve the kind demonstrative method) and an easier path for those who will be content with those who want scientific knowledge (and must thus start by learning the though unscientific: For the point of the On the Order of His Own Books is that there are two different not "for beginners," but for those who wish to acquire scientific knowledge. will prepare you to read with profit the series of books that Galen has written if accompanied by a natural love of truth and by practice in demonstration, start by reading Galen's On Demonstration (now unfortunately lost), and this, "orders" that a reader may follow through Galen's books, a hard path for reading Galen; in particular, after some introductory material, you should to come as close as possible to doing what Galen did, you should start by experiences in the search for truth, to teach you the demonstrative method, presuppositions, and to filter all earlier authorities for you. If you want to instruct you in all the different areas of medicine and their philosophical in the On the Order of His Own Books. Rather, Galen is able, through his demonstration in their works. But this is not what Galen is recommending writers to learn the range of issues in dispute and perhaps spot the occasional much reading at all, though we might find it useful to read some earlier medicine; this need not involve reading Galen, and it might not involve to apply this method directly to the disputed questions of philosophy or discipline, then to work out a method of demonstration and a method of to an aspiring young doctor or philosopher was first to study a mathematical testing arguments on the basis of our mathematical experience, and then From the Errors of the Soul, we might get the impression that Galen's advice

If someone has examined us [Galen's royal "we"] with regard both to [my] whole [way of] life and to [my] works in the art, so as to be persuaded, with regard to the character [tropos] of [my] soul, that we do everything without hatred or contentiousness or irrational friendship toward any sect, and with regard to [my] works in the art [i.e. the successes of my medical practice], that they bear witness to the truth of my doctrines—then he, even without demonstrative theory, will be able to benefit from our writings [hupomnêmala], not by exact knowledge of the subject-matter (for this belongs only to those capable of demonstration), but by right opinion. (On the Order of His Own Books c2, Singer 25, SM II,83)

make this examination, so Galen obliges us by leaving us a written record by Galen's death or geographically far from him, it will be harder for us to character and practical success as a doctor. Naturally, if we are living after the sect to which we belong), but on objectively observable facts about his trines will not be based simply on his relation to us (he is the founder of So this would not be pure taglid, because our acceptance of Galen's docbe used for educational purposes, and he is determined to write his own that Galen sees himself as an authoritative scientific author whose works will order that Porphyry had imposed on them.) The difference, of course, is still to this day is prefaced to editions of Plotinus' collected works, in the literature is Porphyry's On the Life of Plotinus and the Order of his Books, which books, and to gain credibility for him as an authority. (A paradigm of this contain a bios of the author, in order to show how he came to write these how we should read them and in what order; such prolegomena typically ence, classifying his works, saying who they were written for and why, and introductions to the collected works of some authoritative figure in a sciographies belong in an older and wider genre of prolegomena-literature, the less demanding user. As Jaap Mansfeld has shown, Galen's autobiblias a user's guide to this written record, both for the scientific user and for Books and, written as a sequel, the comprehensive On His Own Books) serve doctrines were. The two autobibliographies (the On the Order of His Own which we can both gain confidence in his doctrines, and learn what those prolegomena rather than leaving them to the whim of posterity.18

My concentration on Galen here may seem excessive. But since he is the founder of the genre of intellectual autobiography that Ibn al-Haitham and Ghazâlî and Descartes are pursuing, it seemed important to lay out the different elements of Galen's self-presentation. Part of the problem is that what Galen established was not so much a genre of writing as a more general strategy of self-presentation, which Galen tries out not just in a single canonical Autobiography but in passages of many different books, so I have had to bring them together to write his autobiography for him. Nonetheless, later intellectual autobiographers did tend to write one canonical book summing up the strategy of self-presentation which they had, in their different ways and to different degrees, adapted from Galen; and while the most important literary model for the genre in Galen was the On His Own Books (especially c11), the Galenic autobiographical genre looks more like the composite I have presented than like any one book of Galen's.

How you react to the information I have assembled from Galen depends on who you are. My official reason for describing Galen's autobiographies was to prove that the points of agreement between Ibn al-Haitham and Ghazâlî were also to be found in Galen, and thus to establish Galen as the founder of the autobiographical genre that Ibn al-Haitham and Ghazâlî share. And that much should be clear. But if, like me, you are more of an Islamicist than a historian of medicine, and were more familiar with

very closely, and I will argue that this is conscious and deliberate. Galen's texts. But, in fact, Ghazâlî follows Galen's autobiographical model scepticism about immortality, and had no more specific engagement with one might think that Ghazâlî knew of Galen simply as a famous ancient doctor-philosopher with pious views about natural teleology and an impious on the Temperaments/Mixtures of the Body.20 From these texts by themselves Usefulness of the Parts of the Body and the That the Powers of the Soul are Consequent him, Râzî), and includes citations of two of Galen's book-titles, the On the MR 35-6), that in fact applies exclusively to Galen (and perhaps, following long description of an alleged sect of philosophers, the "naturalists" (Watt $3\,\iota_1$ usual Aristotelian-Avicennian philosophy and atheistic materialism) a pagephilosophers that he had to overcome, Ghazâlî has added (alongside the question. 19 And earlier in the Deliverance from Error, in his list of the infidel Galen was an exception among the philosophers, and quotes a passage from Galen's On My Own Opinions where Galen professes agnosticism about the that most philosophers believe in the eternity of the world, Ghazâlî says that in those fields] (Watt 67, MR 68). In the Incoherence of the Philosophers, in saying madhhab] is a jurist and that Galen is a doctor" [i.e. that they are authorities we can have "knowledge that Shâfi'î [the founder of Ghazâfi's own legal Deliverance from Error, in a passage that I will come back to, describes how Ghazâlian is in fact Galenic. Ghazâlî was of course well aware of Galen: the to be astonishment that so much of what we had regarded as distinctively the Deliverance from Error than with the Galen texts, your reaction is likely

Deliverance from Error, he is chiefly concerned to refute the philosophers and has done something similar is Galen, in the Outline of Empiricism). In the statement of the Avicennian standpoint (the only writer I can think of who of philosophy that was accepted by Jews and Christians as an authoritative refutation of the divinity of Christ based on the Gospels, and an exposition expound their views at least as well as they can: notoriously, Ghazâlî wrote a away from them. Ghazâlî stresses that we must refute each sect on grounds that its own followers will accept, and that to do this we must be able to and disciplines; like Galen especially, he has made a habit of writing refutaand Ibn al-Haitham, describes the books he has written on all of these sects tions of the errors of every sect he encountered, in order to warn his readers path to a knowledge that would bring him close to God. Ghazâlî, like Galen they were practiced in his time; and his final satisfaction with a discipline disappointment with most of these sects and with most of the disciplines as (for Ghazâlî, şûfism) that could overcome his scepticism and show him the ent sects within these disciplines as well as of different religious sects; his Ghazâlî's case especially kalâm, philosophy, and sûfism); his study of differand his consequent sceptical crisis; his pursuit of different disciplines (in ity about different opinions (especially in religion); his observation of taqtid his unquenchable thirst since childhood for genuine knowledge; his curios-As I have already said, Ghazâlî, like Galen and Ibn al-Haitham, describes

the Ismâ'îlîs,²¹ and indeed at the end of the *Deliverance from Error*, Ghazâlî sums up the content of the book as "criticism of the faults of philosophy and of [Ismâ'îlî] authoritative instruction and the faults of those who oppose them without using their methods" (Watt 85, MR 82). Nor is it merely as a means to refutation that one must learn the methods of the different sects and disciplines; like Galen, he thinks that wisdom requires mastering many disciplines, and like Galen he refuses to identify himself with any sect among them, but insists on passing his own judgment on what is true and what is false within the claims of each group. However (as Galen argues in *On the Best Kind of Teaching*), "2" it is not enough simply to learn the arguments on both sides and then make up one's own mind. We also need a criterion by which to judge, and we cannot simply accept a criterion offered by any of the contending parties; unless our natural faculties of sensation and reason are fundamentally sound and can be applied reliably, no amount of study will give us certain knowledge.

and to use its concepts and methods and accept some of its conclusions, ditional sunnî critics, that he himself has been able to study philosophy, without falling into taqlid on the philosophers (which Ghazâlî thinks is what religious practice, including keeping external peace with the caliph and with the broad Muslim community). He also wants to show, against his more trathat the content of this knowledge, in religious matters, will support sunni based on a reliable criterion, without resorting to taqlid on the imâm (and against Ismâ'îlî sceptical arguments, that it is possible to have knowledge, process ourselves. But Ghazâlî also has more specific aims. He wants to show if we do not have the strength of mind and will to go through the whole is doing this to establish himself as an authority whom we may safely trust where he has established a reliable source of knowledge. Ghazâlî, like Galen, those rules are), then he is not in any hidden taqlid, but is assenting only of habitual assent and has examined and for a time rejected even the most edge, and thus that no certainty at all was possible. By showing that he has them (although, like Galen, he never tells us in any substantive way what fidence in his faculties of sensation and reason and finds rules for applying fundamental, Chazâlî hopes to persuade us that, when he does regain congone to the very roots of our beliefs, that he has stripped away all our layers conclude that neither sensation nor reason were reliable sources of knowljudge the different sects and disciplines. He presents his sceptical crisis as the different possible criteria that might resolve his aporia; this led him to and Christians, had been based on taqlid, but also on his examination of the result, not simply of his discovery that his beliefs, like those of the Jews claims on authority, and his insistence on judging for himself, but on his curiosity about the teachings of different groups, his refusal to accept their search for and discovery of a criterion of truth and his application of it to His intellectual autobiography is centered, not just on his unquenchable This is where Ghazâlî's self-presentation draws most deeply on Galen's.

happens to most people who study philosophy, Watt 33, MR 38), and so without accepting their infidel doctrines; even if we do not understand the details, we should accept that Ghazâlî has been able to sort out the true from the false in the teachings of the philosophers, and we should not think that the content of his Islam has been compromised when he speaks in ways that sound suspiciously like the philosophers. Finally Ghazâlî wants to show, against the philosophers (and I think more specifically against the comments of Galen and Râzî that I have cited here) that it is possible to be a Muslim without being a mugallid, because the prophets have a reliable source of knowledge, analogous but superior to sensation and reason, whose superior authority the philosophers are bound to acknowledge by the same methods that they use to establish their own authority; and Ghazâlî wants to show that this same prophetic source of knowledge is also possessed (not, say, by the Ismâ'îlî imâm, or by anyone else who disregards normal Muslim religious practice, but) by the şûfîs, and notably by Ghazâlî himself.

The overall strategy of the *Deliverance from Error* is brilliant and intricate, and impossible to present in brief compass without oversimplification. But I will select some aspects of how Ghazáli's self-presentation helps him achieve his aims in the book, and I will note some ways that he seems to be drawing on or adapting Galen.

about the prophetic power. first about the sceptical crisis, then about the demonstrative method, then Ghazâlî's encounter with Galen is important for both. So I will say something turn only on the rational criterion, some on the supra-rational criterion, but superior to reason - the prophetic power - and that he himself possesses a way for testing whether other people's arguments are demonstrations or strative method, both as a way for finding demonstrations himself, and as this power in some degree. Some of the claims of the Deliverance from Error not. But Ghazâlî also claims, unlike Galen, that there is a cognitive faculty And Ghazâlî, like Galen, makes much of his claim to possess the demonsensation and reason (as faculties) are valid criteria, and that the demonstracriterion, as can a rule for applying it, and Ghazâlî, like Galen, thinks that tive method is a valid criterion (as a rule for applying the faculty of reason). present himself as possessing. A human cognitive faculty can be called a Galen's is that there are two different levels of criteria that he wants to One way in which Ghazâlî's self-presentation is more complicated than

As I have said, Ghazâlî presents his sceptical crisis as resulting, first from a recognition of taqtid, then from a critical examination of his possible sources of certainty – namely, sensation and reason. Scepticism arises not just from a critique of dogmatic theses, but from a critique of our faculties; Ghazâlî, like Galen (notably in Errors of the Soul c6 and On the Best Kind of Teaching, concerned with such sceptical critiques) presents sensation and reason as separate and analogous powers, each with its own domain of primitively intuited truths (in the case of reason, these would be "necessary truths"

such as the principle of non-contradiction or that 10 > 3, Watt 23, MR 28). Ghazall's critique of sensation is nothing unusual, but his critique of reason is quite distinctive. The distinctive critique of reason, and also the distinctive standard of certainty that he tests our faculties against, are (as we will see) both designed to highlight features of Ghazall's response to the sceptical challenge.

or a kritêrion of truth that will not require another judge or criterion to of the Soul speaks indifferently of the difficulty of finding a judge [hrites] Ghazall's talk of judges [hakim] is reminiscent of Galen, who in the Errors with an accusation against which there is no defense" (Watt 23, MR 27-8). passes judgment, but the reason-judge accuses him of falsehood and deceit, us astray and must be corrected by reason. In such cases, "the sense-judge all the standard cases (such as the size of the sun) where sensation leads that taglid sometimes deceives, we know that sensation can deceive, from turned, like our earlier confidence in matters of laqlid: for, just as we know And Ghazâlî argues that our confidence in sensation can indeed be over could overrule them as the stronger miracle-worker overrules the weaker not by an external authority, but by a higher "judge" internal to me, who a question whether my sensory or rational judgments can be overturned, someone else, no matter what miracles he performs. However, there is still cise of sensation or rational intuition, it cannot be overturned by taqlid on By contrast, if my confidence were based not on taqlid but on my own exeralso be brought to accept the contrary beliefs by a more powerful miracle. 23 in the strongest case, where I have witnessed the miracle myself), then I can religious community simply on the strength of an evidentiary miracle (even man from the dead in the case of Jesus. For if I believe the doctrines of my acles," such as turning a rod into a serpent in the case of Moses, or raising a status as authorized messengers from God by performing "evidentiary mir-Muslims ordinarily have from taqlid on their prophets, who establish their designed to eliminate all the "knowledge" that Jews and Christians and the test. The serpent-test is apparently original to Ghazalî, and is especially sary truths of reason, and he then argues that neither of these really passes seems to; he finds that the only candidates are sense-perceptions and neces what knowledge he has that would pass this serpent-test, as "10 > 3" initially this, but not doubt about what I knew" (Watt 22, MR p.26). So Ghazâlî asks nothing would happen in me except wonderment about how he could do nessed him doing so, then I would not for this reason doubt my knowledge: shall transform this rod into a serpent,' and if he did transform it and I witthen if someone said to me, 'No, three is greater, by the sign [dalîl] that I induced to doubt or deny it. "For if I know that ten is greater than three that is, we must be so certain of it that once we possess it we cannot be tally psychological: the knowledge Ghazâlî is looking for must be certain, them, by what I will call the serpent-test for certainty. The test is fundamen-Ghazâlî tests our faculties, or the particular truths that we perceive by

confirm its correctness (*Errors* c4, SM I,61, cited earlier). And just this is Ghazâlî's problem. We have found that a judge within us, sensation, like the judges outside us, can turn out to lead us astray in judgments that seemed unproblematic. So why should we have any more confidence in the higher judge, reason?

of knowledge beyond the objects of sensation. knowledge beyond the objects of reason, as reason reveals a realm of objects such a state, since the suffs claim to perceive things in that state that seem reason as reason corrects sensation, and might reveal a realm of objects of they die they wake." So death or the sûfî hâl might correct the judgments of death is such a state, since a hadith says, "the people are dreaming, and when to contradict the usual judgments of reason. Or perhaps we will find that their turn as mere imaginings. Perhaps the sufi hâl would turn out to be spective of that higher state, the judgments of reason might be revealed in cognitive state that is to waking as waking is to dreaming? From the peras false and as mere imaginings; so why should there not be some further we make judgments that seem solid, but that when we awake we recognize Ghazâlî's aggrieved sense-faculty further points out, when we are dreaming not appeared is no sign that it is impossible" (Watt 24, MR 28). And, as and accused sensation of falsehood in its judging. That this perception has will accuse reason of falsehood in its judging, as the reason-judge appeared beyond the perceptions of reason there is another judge, who if he appears for the reason-judge you would have continued to hold me true. Perhaps then the reason-judge came and accused me of falsehood; if it were not As Ghazâlî puts it, sensation can complain, "You used to trust in me, and

when sensation is operating correctly. Nonetheless, if we rely on sensation contradicts the deliverances of reason when reason is operating correctly, is scepticism about reason: he does not believe that the prophetic faculty share with the prophets. This does not mean that Ghazali's mature position as the master-discipline based on the supra-rational faculty that the suffis a period before he had discovered sûfism (and when he could only guess But then again, reason does not contradict the deliverances of sensation not simply of prophetic revelation as superior to philosophy, but of sufism what a sûfî hâl would be like), in fact it comes from his own mature view, a supra-rational faculty. And although Ghazâlî backdates this argument to gives to the argument depends on Islam and specifically on the suff idea of Ghazâlî would be likely to have read. But the particular twist that Ghazâlî Galen's On Medical Experience, a work that is extant only in Arabic, 24 and that give it its starting-points). This fragment of Democritus is preserved only in on the un-Ghazâlian ground that reason needs the evidence of the senses to reason, talks back and says that reason has also undermined itself (though dialogue of Democritus B125, where sensation, having been overturned by ments about the impossibility of a criterion. In form it strikingly recalls the Ghazâlî's argument here is recognizably a twist on Greek sceptical argu-

not correctly guided by reason, we are likely to go astray in the things we think we are learning from sensation, and if we rely on reason not correctly guided by the prophetic faculty, we will be likely to go astray in the things we think we are learning from reason. And because we cannot be sure at any given moment that reason is not thus leading us astray, it follows that reason, although it is a legitimate source of truths, cannot of itself give us the psychological certainty that Ghazâlî has demanded. ²⁵ Ghazâlî tells us that, following this argument within himself, he fell into scepticism for two months, until God cured his illness and restored him to confidence in the first truths of reason: he could have knowledge only through this special divine action on his soul, not because without it he was lacking truth, but because without it he was lacking certainty.

unable to discern what is a genuine demonstration and what is not, and so, tion, but whether from deliberate rejection or from incompetence they are these critics of philosophy actually reject logic as a pagan Greek importaand so are unable to understand or properly criticize philosophy. Some of to master logic or the other philosophical sciences that are based on logic, opponents' assumptions, and so fall short of demonstrative certainty, Watt 28-9, MR 33), 27 and then the Muslim critics of philosophy, who have failed and accidents, but argue dialectically from common beliefs or from their criticism. Ghazâlî follows much the same procedure in criticizing first the not study philosophy or in particular logic, and they too fall under the same mutakallimûn (who have pretensions to a systematic science of substances tors, who have pretensions to scientific knowledge of non-evident things, do generally harmless Empiricists. But even the Dogmatic or Rationalist docridiculing the Methodists for their ignorance of proper logical procedure periority to his hopelessly unscientific medical rivals. He particularly enjoys and to write new and better treatises on the subject himself) to show his sustudy of logic (enabling him to criticize both Peripatetic and Stoic logicians, pass judgment on non-evident things. Galen uses his long and profound strations, and as the necessary means for applying the power of reason to (so especially De methodo medendi I), and patronizing the simple-minded but embodied in mathematical practice, as a method for constructing demonphilosophers (for Galen, by Aristotelians and also Stoics) and above all as evident. Ghazâlî, like Galen, makes much of logic, as taught by Aristotelian plying these powers to acquire knowledge of things that are not immediately that are evident to sense and reason is not enough; we also need rules for apnitive powers are sound, and unless we have confidence in them.26 But, as a higher criterion. It is equally Galenic to insist that we can have no rational search for a self-sufficient criterion, from which no appeal can be made to both Galen and Ghazâlî make clear, simply having confidence in the things method for selecting among the conflicting opinions unless our natural cogminable quarrels between the sects, to scepticism or to the brink of it, and to It is Galenic to be pushed, by one's awareness of taqlid and of the inter-

in criticizing philosophy, they make fools of themselves by rejecting philosophical doctrines that are in fact demonstrative, and so help to discredit Islam and to raise the credit of pagan philosophy. By contrast, Ghazâlî himself has in three years mastered all of philosophy (despite heavy teaching duties in other fields, Watt 30, MR 34-5), and in particular logic, which is Rut concerning the key to the other philosophical disciplines.

Analytics and its methods for producing definitions and demonstrations. and Gianfrancesco Pico in Christendom were to give religiously motivated tack logic and even mathematics with equal gusto; and Ibn Taimîya in Islam (and often acute) attacks on Aristotelian logic, meaning chiefly the Posterior the ancient sceptics attack dogmatic physics and metaphysics, they also at-I can tell, nobody except Galen and Ghazâlî had actually said this. While philosophical claims of similar scope, are much less certain. But as far as the world-order and the theory of the movers of the heavens), or any other mathematics are certain, Aristotelian metaphysics (including the eternity of cannot be demonstrative, and so he suspends judgment on these questions. And indeed it may seem quite obvious to us to say that while Greek logic and creation-in-time of the world and the immortality of the soul) are not and the philosophers' reasonings on these issues (including the pre-eternity or their assertion of the pre-eternity of the world. Now Galen too thinks that to showing this in detail on the twenty most objectionable points, above all on which the philosophers contradict Islam are all points where their arguments are non-demonstrative, and he devotes his Incoherence of the Philosophers through pure taqlid" (Watt 33, MR 38). Ghazâlî is convinced that the points and its successful application in mathematics, and supposes that the other philosophical disciplines are just like mathematics, "becomes an infidel physics/theology" (Watt 36, MR 41). Someone like this, who studies logic hastens into infidelity before reaching [a scientific examination of] metato [the philosophers] are supported by demonstrations of this kind, and sees its clarity, considers logic and supposes that the infidelities attributed relax them in the extreme; and sometimes someone who admires logic and in metaphysics/theology], they are unable to meet these conditions, but tainty without fail. But when they reach matters of religion [sc. especially lect the conditions of demonstration, which are known to produce cerin their logic and practice in their mathematics.28 "[The logicians] col-Galen, that the philosophers, in many of the disciplines they pursue, have fallen hopelessly short of the ideals of demonstration that they proclaim But once armed with this knowledge of logic, Ghazâlî concludes, like

Ghazâlî, then, accepts the notion that Aristotelian logic yields a method of demonstration: this gives him (he claims) an ability to assess without taqlid whether a given argument is demonstrative, which sets him apart both from the followers of the philosophers, who accept the philosophers' non-demonstrative arguments out of taqlid, and from the anti-philosophers who reject the demonstrative arguments along with the non-demonstrative ones.

strative method as a criterion, like a moneychanger who can safely "put his article but is in reality worthless" (On His Own Books C11, Singer 18, SM II, 116, stration "is such in reality, or, like a counterfeit coin, resembles the genuine demonstrative method should enable anyone who has learned it to recogdiscernment" (Watt 40, MR 45) - very similarly, Galen had said that the hand into the counterfeiter's purse and draw out the unadulterated gold intrinsic criterion of arguments. By contrast, Ghazâlî can use the demonmen by the truth" (Watt 39, MR 45), and this is all they can do, lacking an Both of these groups try to "recognize the truth by the men and not the also, like Galen, setting himself up as a final authority for all readers except cited earlier).29 Ghazâlî uses this comparison to defend himself against his nize whether an argument that someone else puts forward as a demonfrom among the counterfeit and worthless [coins], since he trusts in his of the people of error, as much as possible" (Watt 40, MR 45); they should supports "shutting the gate in preventing the masses from reading the books good from bad arguments, and since many people think they can, Ghazâlî the philosophers' arguments. Indeed, since most people cannot distinguish the very few who are competent to exercise an equally critical judgment on Muslim critics who think he should not have been studying philosophy, while rest content with the safe bits that Ghazâlî has extracted.

and that these people wrongly assume, simply because Ghazali engages in of those whose minds have not taken root in the sciences" (Watt 40, MR 45), intellectuals afraid of engaging with the philosophers' arguments, "a party earlier). He does his best to make it look as if his Muslim critics are antithose who oppose them without using their methods" (Watt 85, MR 82, cited of philosophy and of [Ismâ'îlî] authoritative instruction and the faults of the general program of the Deliverance from Error, as "criticism of the faults or that he and the philosophers had come on the same thoughts indepenand Ghazâlî argues unconvincingly that in many cases where he and the discussion with the philosophers, that he must have been corrupted by them. acknowledge Galen as a source, even while it is precisely Galen's model that MR 47). So it is no surprise that Ghazâlî does not (like Ibn al-Haitham) suspect source, so as not to encourage them to try it themselves (Watt 42-3, the scholar should not let ordinary people observe him taking things from a dently (Watt 40-41, MR 45). A bit further on, Ghazâlî actually argues that that Ghazâlî is merely using philosophical terminology to set out şûfî ideas. prophets and $\hat{\text{suffs}}$ who existed even in Aristotle's day (Watt 38–9, MR 44), or philosophers say the same thing, the philosophers had stolen it from the had taken far more from the philosophers than he is willing to admit, he uses to establish his independence from all earlier authorities. In fact, these people had substantive grounds for thinking that Ghazâli Ghazâlî frames his criticisms of these two kinds of opponents, in terms of

Nonetheless, Ghazâlî has serious criticisms of the philosophers. He believes, correctly, that many of their alleged demonstrations are not real

demonstrations, and that their methods are incapable of resolving many fundamental questions about God and the world, and he also objects to their practical contempt for Islamic law, resting on their conviction that they understand the higher aims of the law and that its practical details are needed only for the unintellectual masses. ³⁰ Ghazâlî thinks that a higher criterion is needed both for thought and for action, and that this can be found only in the prophetic power; and he wants to show that on the philosophers' own grounds, they must admit such a source of knowledge superior to reason.

we do not know that he obtained these particular gold pieces unlawfully, the ruler and his deputies, and the property of those who have no means of if his main sources of income are unlawful: this includes "the property of and we must abstain from living off of money given by someone, even if this includes money given by someone else who had obtained it unlawfully; or the like, but also if it is purchased with unlawfully obtained money, and ing unlawful food. Food is unlawful, not only if it contains pork or wine volume with the Deliverance from Error). He is there warning us against eatof his little treatise The Beginning of Guidance (translated by Watt in the same he felt himself to be involved in, the answer becomes clear from a passage teaching and debate. While Ghazâlî does not say explicitly what sort of sin why he left, and also why he now feels it is legitimate for him to return to tion; one of his announced goals in the Deliverance from Error is to explain on a pilgrimage and to follow the suff path of austerities and contemplaof a conviction of sin and a spiritual crisis that forced him, for the sake of his own salvation, to leave his teaching position in Baghdâd and to set off He speaks (in terms partly borrowed from the early suff Hârith Muhâsibi) were intellectually correct, and yet he is now deeply dissatisfied with them. continues to feel that his public teaching and arguing against the Ismâ'îlîs instructor to the particular case at hand. Ghazâlî, in the Deliverance from Error, needed such a practical criterion to apply the teachings of their infallible methods against the Ismâ'îlîs, showing that the Ismâ'îlîs, like the sunnîs, ance or weighing device) for practical-legal judgments, and, using Isma'îlî sceptical arguments, showing how to give a criterion (his word is mîzân, a balsion was to undermine that appeal. So Ghazâlî set to work refuting Ismâ'îlî promise to reveal a deeper inner meaning of the law, and Ghazâlî's commisto show that an infallible inspired leader was necessary, as well as on their in part on their sceptical arguments against sunnî jurisprudence, designed revolutionary threat to the state; the Ismâ'îlîs' ideological appeal was based commissioned Ghazâlî to refute the Ismâ'îlîs because the Ismâ'îlîs were a burden. As I have said, the caliph (or the real power, Nizâm al-Mulk) had And this turns partly on Ghazâlî's personal history, and on his apologetic philosophical and Ismâ'îlî doctrines and practices that he is arguing against. more of what he is arguing for in the Deliverance from Error – and not just the To understand Ghazâlî's strategy here, it helps to understand something

on behalf of sunnî practice against Ismâ'îlî subversion and philosophical is no benefit if you do not actually perform the acts as outwardly prescribed. acts, and performing the acts with knowledge of their inner meaning is suprisprudence, he will provide a positive sûfî alternative. That is: the sûfîs, like to turn to Ismâ'îlism. Ghazâlî tries to distinguish his current program of why the masses have a desire for something more, so that they are tempted posed to be spiritually beneficial, a step toward the vision of God; but there the Ismâ'îlîs, promise to show you the inner meanings of legally prescribed that now, besides simply refuting the Ismâ'îlî arguments against sunnî juteaching, after his şûfî retreat, from his old state-sponsored teaching, in religion or morality except as a means to an end; this attitude is precisely rect, Ghazâlî is being paid to argue on its behalf, not because it is correct, This şûfî program gives Chazâlî something positive to promise as he argues but because it supports obedience to the state, a state that does not value that he has been coopted by the state; even if sunnî legal practice is coroutside of the particular Islamic legal context, we can say that Ghazâlî feels or playing flutes or other instruments of pleasure" (Watt 139).31 Stepping livelihood except mourning for the dead or selling wine or practicing usury

a priori the purposes of the law, and must follow the external law without thus conceives the prophet's knowledge as something analogous to the sûfî's in spiritual understanding that are the law's ultimate justification. Ghazâlî initially knowing why, in the hope that he will eventually reap the gains is to sensation: so that the philosopher must give up his claim to knowing which ordains sunnî religious practice, is as superior to reason as reason the prophet. By contrast, Ghazâlî wants to show that the prophetic ability, philosopher himself has nothing more to learn and no need to be guided by descriptions of spiritual realities) is helping the masses toward, so that the the knowledge that the prophet (by external prescriptions and imaginative prophecy, except that the philosophers think that philosophy contains all Here, Ghazâlî is not so far from the Islamic philosophers' conception of as a means toward spiritual purification and ultimately a vision of God. knowledge of what laws (rituals, taboos, and so on) will be most beneficial leaves open (such as, perhaps, immortality or creation-in-time) as of his of his somehow intuiting) the answers to theoretical questions that reason special expertise, and this is not so much a matter of God's telling him (or comprehensive legal system from it. The prophet's authority rests on his to give guidelines in interpreting the Qur'an and specifically in deriving a rather than the words of God revealed to Muhammad), which are supposed subject to their own interpretations) as the hadith (the sayings of Muḥammad defending not so much the Qur'an (which most of his opponents accept, defends prophecy, and specifically the prophethood of Muḥammad, he is particular conception of what prophecy is supposed to be. When Ghazâlî This background to Ghazâlî's defence of prophecy helps to explain his

> only basis for recognizing the full-grown prophethood of Muḥammad on anything more than taqlid. prophetic ability, and he thinks that such a "taste" of prophecy gives us our some of them will be able to experience in themselves lesser degrees of the hopes that while his readers will of course not become prophets, at least Ghazâlî himself, as knowers of the inner meaning of the law. And Ghazâlî of sunnism, based on the hadith), but also the authority of the sûfîs, and of power, Ghazâlî intends to justify not only the authority of Muḥammad (and degree. So in establishing the prophetic ability as the supreme cognitive come from the same source or power, and that the difference is one of the final prophet - but that their knowledge and the prophet's knowledge 60, MR 62). This does not mean that the sufis are prophets - Muhammad is is no light on the face of the earth from which we may be illumined" (Watt the light of the lamp of prophecy, and beyond the light of prophecy there "[the sûfîs'] every movement and rest, external or internal, is kindled from knowledge of the inner meaning and justification of religious acts. Indeed,

Beyond arguing to undermine our confidence that reason must be the highest cognitive power, Chazâlî gives two kinds of positive arguments: first to show that prophecy exists (that is, that there have been some prophets or other), and then specifically to show that Muhammad is a prophet. Both go Galen one better.

scribe the same treatments, and this seems to imply that the rationalists' Galen concedes to the empiricists that they and the rationalists will prefrom a Greek dispute between rationalist doctors and empiricist doctors. and that reason could not, and indeed he means to say both. This comes vacillate between saying that experience could not discover these properties medical argument is referring to a specific problem. Ghazáli's text seems to I am not sure I understand the astronomical or astrological argument, the model for this aspect of prophecy in what we perceive in our dreams. While not perceive" (Watt 65-6, MR 67); Ghazâlî goes on to say that we have a the existence of a path to the perception of those things that reason does the properties of drugs. This demonstration makes clear the possibility of every thousand years – how can these be given by experience? – and likewise exalted!), and there is no path to them by experience [lajniba = empeiria]. There are some conditions [aḥkâm] of the stars which occur only once in not perceived except by divine inspiration and through God's help (be He of the stars: for whoever investigates these necessarily knows that they are could not conceivably be given by reason, like the sciences of medicine and we are supposed to have learned by studying medicine. "The proof of its [prophecy's] existence is the existence of cognitions in the world which comparison with Galen. For here, as so often, Ghazâlî refers to something most readers as utterly mystifying, but we can shed some light on it by The argument for the existence of prophecy is very brief, and has struck

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added knowledge of natures and causes makes no practical difference. But, experience. However, there are cases, particularly involving so-called comcure has been observed to work, the doctor will prescribe it on the basis of craving, or by analogy to a cure for a similar condition, but now that the this cure for this condition was first tried purely at random, or to satisfy a that the now standard treatments were first discovered by trial and error have been discovered in the first place. The empiricists would like to say Galen says, if we were all empiricists, many of the treatments would never would be discovered by trial and error without the guidance of some causal dream-instructions might be purely ritual, but often they include detailed dreams. Rather, they are thinking of the common Greek practice of praying was a random guess, nor does it come from a secular psychological theory of came to him in a dream. This is not simply a colorful way of saying that it try the treatment was guided by some rationalist theory, but rather that it to Galen De methodo medendi III, Kuehn 10,164), not that the first person to theory of the powers of drugs. In such cases, the empiricists say (according fixed proportions, in which it seems extremely unlikely that the treatment pound drugs where the ingredients (often rather exotic) must be mixed in onto the origins of medicine, and conclude that many of the cognitions any better, project this current religious-medical practice historically back actual result, but unpersuaded that rationalist causal theories would fare cases where it is hard to maintain that trial and error would give rise to the prescriptions that a human doctor would give. The empiricists, faced with prescriptions analogous to (and surely somehow modelled on) the kinds of dream is often to be received while incubating in a temple of the god): the to a god to send in a dream directions for relief from an illness (where the status confirmed by experience, have their origin in some kind of divine that make up the science of medicine, although they have their scientific

This is what Chazâlî means when he speaks of properties of drugs that could not have been initially discovered either by experience or by reason, but must have been discovered by divine inspiration and by a prophetic power analogous to what we can possess in dreaming. Ghazâlî relies on the assumption that God does indeed inspire some dreams, and that this is the most widely given form of personal communication from God³²; Galen of course accepts this assumption too, and thinks that he himself has been favored with divinely-sent dreams, and he seems willing in some texts to grant that particular individuals' medical knowledge, and perhaps even the art of medicine as such, owe their origin to divine inspiration.³³ But Ghazâlî argues that once the doctors admit that their practice goes back to some prophet's knowledge of the properties of drugs, they should be equally willing to admit that the practices of the religious communities go back to an analogous prophetic knowledge of the properties of ritual acts (Watt 69–70, MR 71–2).³⁴ We cannot give any rational explanation of why these medical

and also for the suffs including himself.36 sess; and Ghazâlî wants to claim this superior knowledge for Muḥammad medicine of the soul superior to any knowledge that they themselves posdoctors of the body, is trying to force them to admit that there is a prophetic as well as of the body, and Ghazâlî, while conceding their claim to be good especially Râzî, had claimed that they themselves were doctors of the soul superior to the medicine of the body. But there is a sharp edge: Galen, and şûfî claim to an 'ilm al-qulûb'). Ghazâlî is here echoing the claim, a commona higher knowledge because "the prophets are doctors of the diseases of cannot give any rational explanation as to why the rituals should succeed place of Greek philosophy, that there is a medicine of the soul analogous but hearts" (Watt 70, MR 72, "heart" meaning something like "spirit," as in the knowledge of ritual is analogous to prophetic knowledge of drugs, it is the religious community had prophetic knowledge.35 Although prophetic if we experience that they do succeed, we should grant that the founder of should credit the prophetic power of their inventor; likewise, although we treatments should succeed, but if we experience that they do succeed, we

claim to give us without relying on religious law, and that the Ismâ'îlîs claim deepening the outward sunni practice. to give by revealing an inner meaning of the law that contradicts rather than and only in this way will we get the spiritual rewards that the philosophers outward actions, with a correct inner disposition to accompany the actions, sunnî practice and a sunnî-şûfî meditation on the inner meaning of the spiritual results, and what Ghazâlî is recommending is not simply external we reap the spiritual benefits promised by various hadiths. Of course, many and the hadith (the example and sayings of Muḥammad), and to see whether community for good religious behavior), and the only way to test whether than, say, external successes that God might bestow on an individual or the supposed to succeed at is "the purification of hearts" (Watt 67, MR 69; rather performance. Rather, he is saying that we should pursue both the external people live in external conformity to sunnî law without any remarkable Muhammad's prescription succeeds is to live a life according to the sunna knowing that the prescriptions he has given do in fact succeed. What they are in the world. The knowledge that Muhammad is a prophet depends on What we have seen is the argument that there have been some prophets

Ghazâlî urges us to "seek certainty about prophecy by this path, not from [the prophet's] changing a rod into a serpent or splitting the moon" (Watt 67, MR 69), since such a miracle might have come from magic or from God's leading into error; and so any certainty based on serpent-changing might be overturned. This is the only place in the *Deliverance from Error* where Ghazâlî takes up the serpent-test for certainty from the beginning, and this is what he had put the serpent-test there for in the first place. Ghazâlî is claiming that we can have a different kind of certainty about the prophet's ability, not based on inference from miracles, and that this kind of certainty will not

be taqlid and will not be overthrown when taqlid is overthrown. This higher kind of certainty comes from studying the prophet's sunna and testing his prescriptions, and to the extent that we reap spiritual benefit from these prescriptions, we will also come to a knowledge of their inner meaning and purpose, so that we will have for ourselves a lesser degree of the prophetic ability, which we can use to recognize the true expert, not by mere taqlid but by a competent assessment of his qualities. And Ghazâlî's model here is the one that his opponents will be compelled to accept – namely, Galen's model – as we have seen it earlier, for how his contemporaries and his later readers should come to recognize his authority in medicine.

If doubt befalls you about whether a given individual is a prophet or not, certainty will not come except by knowledge of his qualities [aḥwāl], either by eyewitnessing or by transmission and report. For if you know medicine and jurisprudence, you can recognize jurists and doctors by witnessing their qualities, or by hearing their doctrines even if you cannot witness them. So you are not incapable of knowing that Shāfi'i (may God have mercy on him!) is a jurist and that Galen is a doctor, by true knowledge, not by taqlid on someone else but by your knowing something of jurisprudence and medicine and reading their books and compositions; and so there comes to you a necessary knowledge of their quality. And likewise if you understand the meaning of prophecy, and study constantly the Qur'ân and traditions, there will come to you a necessary knowledge that [Muḥammad] (may God incline to him and give him peace!) is in the highest of the degrees of prophecy – confirm this by experience [tajriba = empeiria] of what he says about acts of worship and their effect on the purification of hearts! (Watt 66–7, MR 68–9)

This passage is the only reference to Galen by name in the *Deliverance from Error*, and it might look like a throwaway, but it is not: this is the conclusion that Ghazâlî has been building up to – namely, that the means Galen uses to validate his authority in medicine, by showing those who can the path to repeat his insights, and by displaying to the others the records of his character and his proved medical successes – that these means also validate the higher authority of the prophetic sunna as Ghazâlî has systematized it, and the authority of Ghazâlî himself who can do this based on his demonstrative method, his sunnî practice, and his şûfî experiences. That it describes, just as Galen's descriptions of his philosophical studies, scientific method, and medical experience in *On His Own Books* and *On the Order of His Own Books* introduce and give authority to the many books that present the fruits of his studies.

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III. Renaissance Christian Authors and the Practice of Galenic Autobiography

We have seen from Ibn al-Haitham and Ghazâlî that Galen's self-description, as presented especially in On His Own Books and On the Order of His Own

of his great predecessors, and who condemns teachers who demand blind and Râzî replies by citing as his model Galen, who wrote criticisms of many acceptance of their teachings. Galen would have wanted us to continue this great philosopher, and one to whom he owes more than to any other man, Galen by the standards of his own ideal. Thus Râzî starts his Doubts against Galen by considering the reproach that he should not be attacking such a live up to it or not³⁸; and Galenism included the possibility of criticizing Galen's work was to create an ideal, Galenism, whether Galen himself could called forth such attempts to outbid him. As Owsei Temkin puts it, much of Galenist ought by his own standards to acknowledge. But Galen has always Galen, to show that there is a higher prophetic-sûfî medicine of souls that a that reason must overcome, could give Ghazâlî no model and do nothof the different sciences, with no scepticism and no conflicting arguments ing to endear him to his readers. Of course, Ghazâlî is trying to out-Galen provingly, Watt 73, MR 74), which is unrelieved boasting about his mastery by contrast, Avicenna's autobiography (which Ghazâlî knew, and cites disaphe presents himself to himself and for how he presents himself to others; autobiography thus gives him an important positive model, both for how a life without taqlid; he recognizes himself in Galen, and he tries to live up his own example that one can be Muslim without being muqallid. Galen's Galen had, and to proceed by demonstration as Galen had, and to show by to Galen's model, trying to investigate the different disciplines and sects as against Galen, nonetheless Ghazâlî genuinely admires Galen's example of ture), and although the Deliverance from Error is at one level an argument scepticism about immortality and his rejection of the prophetic religions available in Arabic). And although Ghazâlî strongly disapproves of Galen's (while accepting Galen as a great doctor and student of the wonders of najustify himself by, Galen's life in a way that he could not by, say, the ancient was thoroughly Galenic), but Ibn al-Haitham can recognize himself in, and sumably his enormous medical work On the Constitution of the Art of Medicine lives of Aristotle (of which at least one, attributed to Ptolemy al-Ghârib, was be more or less Galenic. Even Ibn al-Haitham, who cites Galen by name as his model, is much more of an Aristotelian than Galen was (though pre-And the content that the Galenic self-presentation is used to justify might adheres closely to Galen's autobibliographical form, Ghazâlî more loosely. range of things that a medieval author could do with Galen. Ibn al-Haitham of authority and as authorities in their own right. There was surely a broad for how they could establish their own credentials, as writers independent discovery and application of a criterion or demonstrative method, a model tion of his dissatisfaction with the existing disciplines and his search for and ing Galen, could recognize their own lives in him, and Ibn al-Haitham is tobiographical self-presentations. Both Ibn al-Haitham and Ghazâlî, readparticularly frank about admitting it. And they also saw, in Galen's presenta-Books, was recognized as one available model for medieval authors' own au-

turther progress beyond him. process by criticizing Galen, and, Râzî says, it is not impossible for us to make

authors, in various ways appropriate Galen's self-presentation. Is there a alerted me - to the existence of the Galenic autobiographical genre, which studying the Christian ones. The Muslim texts can alert us - certainly, they ancient root. But this does not mean that the Muslim texts are of no help in the Christian phenomenon may be two independent growths from the same have been able to trace, and quite possibly there is none; the Muslim and line of influence from the Muslim to the Christian authors? Not one that I people can borrow crucial elements of their autobiographies, even of autowe can now look for elsewhere, and they can get us used to the idea that biographies that stress the author's intellectual independence and persona Not only medieval Muslim authors, but also Renaissance Christian

ered Galen as one possible model for their own self-descriptions. I have instead; this shows both that Galenic autobiography was available as one posrecall the titles of Galen's autobibliographies). But, for example, Cardano as a model (although Campanella does discuss his reading of Galen, and discussed Descartes and Campanella, neither of whom explicitly cite Galen autobiographical discussions in the other treatises - and that they considof Galen's autobiography - both in the autobibliographies and in scattered separate De libris propriis, besides including an autobibliographical chapter raphy modelled on someone else's (and Cardano follows Galen in writing a sible form, and that people saw nothing wrong with the idea of an autobiogfor autobiography, though he announces that he will follow Marcus Aurelius in the preface to his De vila propria mentions Galen as one possible model Campanella's title De libris propriis et de recta ratione studendi syntagma seems to guides to the vast amounts of Galen they would have to read. Unfortunately, of Galen, and who would be likely to turn to Galen's autobibliographies as suspect that Western Galenizing autobiographical texts will be more often which is, of course, how Galen wants you to think of him. For this reason, I all-round intellectual, a philosopher and logician as much as a doctor chiefly as a model doctor, while Muslims often think of him as a model suspect that this is because the Western tradition here will be rather diftext. But I suspect that I do not know most of the relevant texts. And I modelling himself directly on Galen without any more contemporary conit is important, for getting a context for thinking about the Discourse on the texts that seem to be modelled to one extent or another on Galen.³⁹ And in the De vita propria). I know of several other Renaissance autobiographical by people with technical medical training, who will have read a great deal ferent from the Muslim tradition, since Westerners tend to think of Galen Method, that there were such texts, because it is hard to imagine Descartes am out of my depth in Renaissance medicine, and will have to appeal to There is no doubt whatever that many Renaissance writers were aware

> Galenic influence, however this may have been mediated. lier between Campanella and Descartes seem to be explained by a common of the tradition I am sketching. 40 But Campanella, who was not a doctor by Galen's self-presentation, and all the points of contact that I noted earbut simply an omnivorous reader and polymath, is also clearly influenced my readers for suggestions about writers who may help to fill out the picture

sorting out a physical or chemical mixture into its ingredients: "I came to At least sometimes, this "resolution" is meant in a very physical sense, as this resolution [/analysis], whether of animals, plants, or minerals" (ibid.). to follow such a true axiom and maxim, as the most luminous and certain torchlight of nature . . . that I began twenty-six years ago to work diligently at de Clave's great methodological revelation: "I was seized by such a desire sition of things is by [first] resolving [/analyzing] them" (198). This was that he found the key insight that "the only way to understand the compo-Aristotelian orientation of his treatise, De Clave says that it was in Aristotle physics, starting by rereading his Aristotle. And despite the professed antiroughly from Aristotle De Sensu c1, also De Juventute c27), and began to study that "the doctor begins where the physicist leaves off" (197; the quote is grounded teaching among them. De Clave was, of course, disappointed. But having returned home as ignorant as before, he reflected on the old maxim the most famous doctors of all lands, in the hope of finding some solidly to serve humanity stirred him up not to despair, but to travel to seek out posed to Christian faith) are vain and uncertain (195). But de Clave's desire accept the thesis of Cornelius Agrippa, that all human disciplines (as oplittle for me to subscribe to the vanity of the human sciences" - that is, to and solid foundations" (ibid.); indeed, "often it would have taken only a ences, and especially the natural sciences, which need to have more stable to the truth, and some of them to others, and indeed many to themselves" medicine) have fallen, so that those who teach them "are directly opposed plunged me into great doubts concerning the truth and certainty of the sci-(192). "These so manifest contradictions of the most learned have often dictions into which the different disciplines (he stresses astronomy, physics, of all our reasoning. De Clave expands on this point, describing the contraforms of reasoning, and lose touch with sense-experience, the touchstone particularly when they are trying to reach a knowledge of things by scholastic had he not reflected that even great thinkers are prone to fall into error, writers (Patrizì, Basso; Campanella, Gassendi, and "Catharina Oliva"), 42 and had not been strengthened by the example of several recent anti-Aristotelian would not have had the audacity to publish a work so critical of Aristotle if he et Pierrenes (1635).41 De Clave starts by giving an apologia for his work: he Book II of his treatise on minerals and gems, Traittez Philosophiques des Pierres would be unlikely to know. This is by Etienne de Clave, and it is the preface to a doctor, which may well be typical of many texts that I do not know and I will, however, mention one rather obscure Renaissance text written by

obstacles) when he will be able to "open the door of the treasure-house of his discoveries to a more favorable time (he hints darkly at some present all the lovers of truth" (200). As far as I know, de Clave never delivered on which has been barred to our predecessors up to now, to give access to it to analysis as applied to minerals, but de Clave postpones a full communication to wise Nature's sacred cabinet; which, after long labor, showed me the fi-(199). Evidently de Clave's work contains some preliminary results of this nal resolution of mixtures into their purest and most admirable principles" discover by means of fermentation the true key which gave me full access

every way a far lesser light than Descartes. coveries are quite different: as Bloch says, de Clave's source is Aristotelian, formal, and the content of de Clave's and Descartes' methodological dissources" (Bloch (1990), 160-61). As Bloch notes, these parallels are purely à prendre pour modèle une science déterminée et à promettre des résultats contemporaines à la révélation d'un principe méthodologique qui conduit déceptions, va de la tentation du doute universel devant l'état des sciences his master-science is chemistry, his epistemology is empiricist, 44 and he is in féconds pour un avenir meilleur, en passant par les voyages et le retour aux d'une expérience à la fois personnelle et épistémologique qui, d'espoirs en fois assurer leur solidité et en permettre l'apprentissage systématique, récit et leurs contradictions, désir de leur donner un fondement qui pût à la tre la scolastique et satire de son verbiage obscur, tableau des différentes envers l'autorité des doctes, et tout particulièrement d'Aristote, charge conworks present themselves as "l'annonce et le programme d'une série de méthode d'Etienne de Clave (1635),"43 has brought them together: both are obvious, and Olivier Bloch, in an article entitled "Le discours de la disciplines et, théologie mise à part, dénonciation de leurs incertitudes traités scientifiques" and include a "défense du principe de la libre critique The formal parallels between this preface and the Discourse on the Method

the features common to Descartes and de Clave go back to Galen, who must (apart from the stereotyped humanist criticisms of the sciences) almost al such as de Clave. I agree with almost all of this; what I want to add is that background of these common patterns, and compared with a lesser writer the Discourse comes out all the more strongly when it is read against the this I am more dubious about). Bloch also adds that the real originality of récits d'expérience religieuse ou mystique, initiatique ou occultiste" (ibid.; established disciplines (which is certainly right), and to "un pastiche des terns go back to the Renaissance humanist and sceptical critique of the schémas de présentation" (161): Bloch suggests that these common patqui organisent également le Discours de la Méthode... schémas de pensée et ery of their formal parallels to reveal common "schémas et modèles culturels Descartes; rather, he wants the juxtaposition of the two texts and the discov-Bloch is not trying to suggest that de Clave was in any way a source for

> not to Descartes as he ultimately appears in the Meditations and the Principles, but to the Descartes of the 1630s. presentation. But this description applies, up to a point, to Descartes too expect (in the West, as opposed to the Muslim world) to follow Galen's selftist rising to philosophical ambitions, is just the sort of person that I would been used to support. De Clave, as a practically trained doctor and scienwill not do any harm to the Christian orthodoxy that that philosophy had also to reassure their readers that in repudiating scholastic philosophy, they to justify why they are deviating from the inherited teaching of Aristotle, and from Galen (but close to other Renaissance Christian writers) is their need One shared feature that may make Descartes and de Clave a bit different Descartes' model (like Galen's) is geometrical and de Clave's is chemical. sic methodological discovery as some kind of method of analysis, although foundations of medicine, and that they both (like Galen) represent their banamely, that they are both (like Galen) undertaking to provide the physical can also add at least two more parallels between Descartes and de Clave directly or indirectly be a source for both (as well as for Campanella). We

sis in Discourse Part Six is on the need for experiments to determine how primitive objects which it can grasp on its own. Still, Descartes' emphawhile Descartes (like Galen elsewhere) believes that reason has its own that demonstration must always begin from premisses given by sensation, genuinely testable. But de Clave assumes (like Galen in some contexts) their propositions to the test of experiment even where the questions are the other hand ridiculing the school-philosophers who never dare to put physical theory and in the theory and practice of demonstration, while on against the empiricist doctors that we need a foundation for medicine in less starkly than Bloch suggests. It is Galenist, on the one hand to argue change. And to the extent that we focus on the medical sections of the Discourse, Descartes' epistemology will contrast with de Clave's "empiricism" psuchikon pneuma), though mechanizing Galen is of course a far-from-trivial version of Galen (much of the work being done by "animal spirits," Galen's much of the physiology of the Traité de l'Homme reads like a mechanized out the details of human physiology, and especially his theory of vision, and Certainly Descartes had become deeply involved in medicine in working appealing for support (please send money for experiments, AT VI,73). and it seems to be above all a medical research program for which he is good and the foundation of all the other goods of this life" (AT VI,62); master the powers of nature, partly for constructing useful machines but one could find a practical one" (AT VI,61-2) by applying his physics to "principally for the preservation of health, which is without doubt the first that "in place of this speculative philosophy which is taught in the schools, Five, especially the circulation of the blood. And in Part Six, Descartes hopes the Discourse would be the medical-physiological discussion in Discourse Part Much of what would strike Descartes' first readers as most novel in

the particular phenomena are derived from these rationally grasped first principles.

justification: Descartes (respectively Galen, Ghazali, and so on) is the indiself-presentation, not because he wanted to tell his life story and needed one or more of his Renaissance imitators. 45 And Descartes seizes on this medicine, in working out the theory of vision and writing the Traité de ceives at each stage and working out demonstrations to take him from first out all of his old beliefs and begun afresh, accepting only what he clearly pervidual from whom the bonds of laqlid have been loosened, who has thrown some style for doing so, but in order to appropriate Galen's strategy of selfpresentation, whether by reading Galen or (more probably) by reading l'Homme, that he encountered the Galenic style of autobiographical selfand to create a body of followers for his whole scientific system. tion of Copernicanism), either within his lifetime or at least posthumously, over a larger group by his Essays, he will create the demand that will allow opinions and starting again, but he hopes that the few who can succeed in does not want all of his readers to imitate him in throwing out all of their own, but most readers will have to settle for trusting Descartes, not through and physics) can work out these demonstrations from first principles on their rather (since Descartes in the Discourse is refusing to publish his metaphysics there will be a few who can follow the full sequence of his demonstrations, or trust him. Descartes, like Galen and Ghazâlî, envisages two classes of readers: principles to testable and practically important results. We should therefore him to publish his metaphysics and physics (despite the Roman condemnathis radical procedure will be inspired to try. And he hopes that by winning them to test. Descartes (like Galen and Ghazâlî) is perfectly serious that he pure *taqlid* but from what they learn of his life and character and from the fruits of his method that he offers in the Geometry, Dioptrics, and Meteors for So it seems a likely guess that it was through Descartes' involvement in

None of this means that Descartes' views are the same as Galen's. The most important differences between the *Discourse* and Galen (or any of the other authors I have discussed) are not in the autobiography or in the absurdly short account of method in Part Two, but in the metaphysics of Part Four and the physics and physiology of Part Five. Of course there are differences in the autobiographical self-presentation too: Descartes takes scepticism much more seriously than Galen (though not more than Ghazâlî), and his provisional ethics in Part Three seems new, due partly to the need to show that he is not religiously or politically radical. But my guess is that the single most important difference between Descartes' self-presentation and Galen's (or Ghazâlî's or Ibn al-Haitham's) is that, where Galen and the others had presented themselves as recapturing the true doctrine and method of ancient models that their epigones had lost, Descartes starts afresh with no reference to ancient texts, and aspires to surpass the ancients. But even this difference is not absolute: Galen too thinks that by recapturing Hippocrates' method,

we can go beyond his results, and Descartes too suggests that the ancient mathematicians had powerful methods that had been forgotten until his own time (so especially in the *Rules*, AT X,376–7), although he thinks he can surpass their results. And I want to emphasize that the difference lies in Descartes' presentation of himself as independent of the ancients, not in

approve (AT VI,4), he can hardly think it is improper to take what someone else says about his own life as a model for conceiving one's own. Since Descartes offers his own life as a model for his readers to imitate if they deed that writing without an ancient model could be considered suspicious. sion of different possible models in the prologue to his *De vita propria* shows that it was perfectly acceptable to have a model for your autobiography, inthe parallels to Galen, with pride and not with shame, and Cardano's discuswhat Ibn al-Haitham and Ghazâlî and Campanella and de Clave and over and over again, apparently mesmerized, involuntarily mimicking Descartes were doing was not plagiarism. Ibn al-Haitham explicitly draws Kinnock's hand-gestures.) Now, clearly, in the context of their own times, New York Times about watching Biden watch the video of Kinnock's speech erations of Bidens, and so on. One of Biden's campaign workers told The the speaker who had never gone to university became generations and genwhere necessary. (The "generations and generations of Kinnocks" before Labour Party leader in the U.K., substituting the name "Biden" for "Kinnock" had been taken almost word-for-word from a speech of Neil Kinnock's, the known that a heavily autobiographical stump speech he had been giving withdraw from the race, under a wave of public ridicule, when it became ran for the Democratic presidential nomination in 1988. He was forced to Joe Biden, an American politician and still Senator from Delaware, who phy is about as low as you can stoop. You may remember the case of it. From a twentieth-century point of view, plagiarizing your autobiograabout the practice of borrowing crucial features of earlier writers' autobiographies. There is undeniably something uncomfortable-making about At this point, it is worth stepping back to ask ourselves how we feel

From some points of view, this stylization of medieval and Renaissance autobiographies means that they were not really autobiographies. I am think-lerror is not an autobiography. 46 Van Ess thinks that Ghazâlî the autobiographer is an invention of nineteenth-century European orientalists, who, better way Islam could have gone, the "free individual revealing his soul" in conventional and apologetic elements in the text that show that Ghazâlî is the tot simply "revealing his soul" (and since van Ess does not notice the Galen most to be arguing that there are no autobiographies in Islam, and that this

who writes an autobiography does so with some purpose, and will use both changes) into descriptions that once belonged to other people; and anyone extent stylize their self-descriptions, fitting their own lives (with appropriate curricula vitae. Where a literary tradition of autobiography exists, individthe raw facts of his life and the heritage of the literary tradition as materials uals who choose to make use of it to describe their own lives will to some dition, for them to become something more than self-defense speeches or takes a special effort, on the part of individuals and of a whole literary trasoul. That there should be autobiographies at all is not automatic, and it do not happen simply by some individual's spontaneously pouring out his and Ibn al-Haitham's are not really autobiographies, then a lot of Western end I do not much care whether Ghazâlî's text is called an autobiography no wish to involve myself in the political issues about orientalism, and in the for that purpose. or not. I would simply say that if Islamic "autobiographies" such as Ghazali's is a Western notion inappropriately foisted on the Islamic texts. Now I have "autobiographies" are not really autobiographies either. Autobiographies

since one of the authors' main aims in writing is to persuade us that they are the problem is more specifically with the Galenic type of autobiography, convey their personality, and cannot be held responsible for this. Perhaps out to have been borrowed; but the authors were not writing in order to it is because we read autobiographies looking for the personality of the author, and feel cheated if what we thought was part of this personality turns worth questioning why we should feel so much more cheated if something claims to have discovered a mathematically certain scientific system, and it is and people actually live more-or-less stylized lives. On the other hand, when they say that is more strictly autobiographical turns out to be false. Perhaps we read Galen or Descartes, we are not in the least tempted to believe their sis" vs. "nervous breakdown," and so on), rather than by actually falsifying, telling, or the way he retrospectively conceives those events ("sceptical cridescription simply by the way he selects which events in his life are worth we have to resign ourselves to not knowing. Someone may stylize his selfgest, and where we do not have other biographical sources for our authors, from Thucydides.) Unfortunately, here I have nothing in particular to sughistorian, turn out to be useless, since the authors simply copy the symptoms descriptions of plagues, which at first sight look promising for the medical compare the problem in medical history, where, for example, Byzantine grams of these works stop them from being historically accurate? (We might about their lives to believe: how far do the stylization or the apologetic prouse. The first difficulty is simply to know how much of what our authors say ficulties, but I will offer some concluding reflections that may be of some of study of the history of autobiography. I cannot entirely resolve the difdisturbing, or perhaps several different disturbing elements, about this sort All this is only to be expected. Nonetheless, there remains something

of one's own independence, turns out to be borrowed. of this. So it is disconcerting when so much, including the very description and indeed the texts are, on a first reading, often very good at persuading us independent thinkers who have rethought everything from the beginning,

useful for raising these questions, but it is not likely to resolve them.48-49 questions about ourselves. The study of the history of autobiography is very much of it we can still take as true, we are forced to confront the same with us. In realizing how much of (for example) Descartes' self-description is (perhaps unconsciously) constructed, and in wondering uneasily how born prejudices of the previous generation, and so on, are still very much more dubious fields, of resolving or bypassing the sterile disputes and stubfinding a paradigmatic "healthy" discipline that can be a model in our own discipline; the ideals of crossing beyond our original disciplinary training, of with our teachers and with any one school of thought and even with any one taqlid still strikes deep resonances; and we have experienced dissatisfaction is more usually chronic than acute. But especially Ghazâlî's description of philosophy, or in whatever our other fields are, and scepticism these days to believe that we or anyone else will reproduce mathematical certainty in our authors' life-stories. Not with every aspect of them: we are too jaded when we read these autobiographical texts, we spontaneously identify with it.47) But my guess is that for many of us, the root of the problem is that mythic speech, and the scholar should analyze that discourse, not continue will lead to despair. As John Schuster puts it, Descartes' method-talk is trace out how their actual work outside mathematics follows these methods the methods of the geometers as their paradigms instead, but any attempt to their first-order scientific claims. We approve of them perhaps especially reports about the methods they followed are much less likely to be true than because they recognize the emptiness of Aristotelian syllogistic, and take reports about this to be solid. (And yet, it seems to me, Galen's or Descartes' subjective, their personality or their method, and we want their first-person and trying to save something from the wreck, we fall back on something perhaps our problem is that, being unable to accept their scientific claims, their ideal of independence should not be one of those starting-points. So raries for many starting-points of their thought, and there is no reason why aware of it or not) they are indebted to their predecessors and contemporeproducing the thoughts of some previous thinker, but (whether they are are strong-minded individuals who are creating something new, and not just But independence is a matter of degree. Galen and Ghazâlî and Descartes

This chapter is dedicated to the memory of Arnaldo Momigliano, from whose I have tried to write in his spirit, although as far as I know Momigliano never lectures and writings I learned so much about biography and autobiography.

- Remarkably little has been written on the Discourse as a whole (though vasi amounts have been written on "Cartesian method") - Gilson's commentary of the Discourse and virtually nothing about its antecedents. But see the articles by Gadoffre and Curley in Grinddi and Marion (1987). Paris, 1925), while full of valuable things, has little to say about the overall plan (René Descartes, Discours de la méthode, texte et commentaire par Etienne Gilson,
- See especially Garber (1988).
- 4. With a rather similar title, Dissertatio de methodo recte regendae rationis et veritatis in scientiis investigandae.
- ڼ I am not sure which was written first: the Campanella was published posthuwork by Naudé, Paris, 1642; I have been unable to trace this edition.) There is a mously, in the Naudé volume, with no indication of its date of composition recent edition of the Campanella text by Armando Brissoni (Soveria Mannelli Nachlass, Frankfurt, 1969], p.735 n164, refers to an edition of the Campanella (Georg Misch (1949-69), vol.4., pt.2 [published posthumously from Misch's
- Actually, I first stumbled on A.I. Sabra's summary of this autobiography in his not by the same person. the prologue to the Optics are such that I would be very surprised if they were the text that Sabra (1998) calls "D1"). But the resonances between this text and I mean the author of the autobiography preserved by Ibn abî Uşaibi'a (that is, have not yet seen the promised continuation). In any case, by "Ibn al-Haitham" hopelessly intermixed in the bibliographical tradition (see now Sabra (1998); I about whether there were in fact two Ibn al-Haitham's, whose works have gotten was enough to give me the crucial information. There is now some dispute excellent article on Ibn al-Haitham in the Dictionary of Scientific Biography, which
- While the On Prognosis is even more autobiographical, Galen's self-presentation there is rather different. The main body of this chapter was complete before I Nutton's commentary, in that edition, will be a very useful resource. on the types of Galen's autobiographical self-presentation that I discuss here biography but has autobiographical aspects, and some interesting variations of Galen's On My Own Opinions (Berlin, 1999), which is not primarily an autowas able to see Vivian Nutton's editio princeps, in the Corpus Medicorum Graecorum,
- œ Cp. The Optics of Ibn al-Haytham, tr. Sabra, I,i,5–6 = v.1 pp.5–6: if two disciplines or sects, we must evaluate whether each of these methods is a correct method to the end; thus, when faced with contradictions between different disciplines to the same truth, but one or both of them has not been followed correctly truths: either one or both of the paths leads to falsehood, or they both lead or sects reach different and contradictory results, these cannot be two different for discovering truth, and whether it has been correctly followed by its own
- Ibn abî Uṣaibi'a (1965), 552.
- 10. I will cite the page numbers of W.M. Watt's (1953) translation, and of the Arabic edition I have used, in Majmû'at Rasâ'il al-Imâm al-Ghazâlî, Beirut, 1986, v.7.

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the existing English translation but have usually modified it in the interest of Galen Scripla Minora or in Kuehn as appropriate), I have often started from likewise I give Singer's page-number followed by the reference in the Teubner Here, as with the treatises of Galen translated by Peter Singer (1997) (where

- Ghazâlî speaks of "plunging into" the study of these different sects and disciplines, using the same verb $[\mathit{kh\text{-}w\text{-}d}]$ that I have cited from Ibn al-Haitham in the into vain speech, or for entering into the same level of discourse with those who passages) cited by Lane (1863), Book I, p.822 col.3, where it is used for entering same context (Watt 20, MR 24); compare the texts (including some Qur'anic
- 2 morally forbidden, and na; ar commanded, on fundamental religious and moral incompatible with knowledge (about that subject) and that taqlid is legally/ to Mu'tazilite and Ash'arite claims, both that taqlid (about a given subject) is say to oneself that this is why one is following him. Ghazâlî is also responding cause he stands in a certain relationship to oneself, although one does not because he has an objective property like competence in a given field, but beseems different from Ghazâlian taqlid, where one follows someone else, not Presumably a legal muqallid would say that that is what he is doing, and this tent authority in a given field and decide to follow that person's judgment. that someone can make a rational judgment that someone else is a compe-On the other hand, the legal notion of taqlid goes badly with Ghazâlî's claim that a person cannot be knowingly or willingly muqallid. Chazali himself admits
- The financial advantage might come, not just from being able to support myself
- 14. For all these texts, see Walzer (1949), 10–15. by teaching, but also from the tax-exemption granted to philosophers.
- Râzî (1939), 303.
- ordinary believers, are in taqlid, in the texts cited and analyzed by Richard Frank (1991-2), 231-4. This is very close to Ghazáli's explanation of why the scholars, as well as the
- Nutton (1988), III,324.
- Marmura ed. (1997), 12. See Mansfeld (1994).
- these men, due to their constant investigation of nature, it appeared that the the construction of animals, and especially the construction of man. But to ference] knowledge of the perfection of the governance of the constructor in necessary [i.e. spontaneously forced on us rather than acquired through inthe uses of the parts [ajâ'ib manâfi' al-a'dâ'] without there coming on him this ends and purposes of things. No one can study anatomy and the wonders of wisdom compelled them to acknowledge a wise creator who is aware of the wonders of God's craftsmanship (be He exalted!) and the inventions of his the dissection/anatomy of the parts of animals. And what they saw there of the None of the editors or translators seems to have recognized the obvious referders of animals and plants, and constantly plunged $[kh\cdot w\cdot d]$ into the science of ence to Galen. Ghazâlî says: "The second group are the naturalists [iabî'îyûn]: they are a party who constantly investigated the science of nature and the won-

the naturalists' researches and conclusions applies only to Galen and not to the wrote against Galen's thesis on the rational soul). But Ghazâlî's description of used in the Arabic translations for Aristotle's "phusikor" for the pre-Socratics earlier groups, the materialists/eternalists and the naturalists, and succeeded of Plato, who was the teacher of Aristotle. ... They together refuted the two (and it is true that Platonists and Aristotelians, though not Plato and Aristotle, Watt 32, MR 36), but this is explained by the fact that "jabi "yun" is also the word in revealing their defects to such an extent that they relieved others of the task," ists/eternalists $\{dahr\hat{y}\hat{u}n\}$ and the naturalists]: Socrates, who was the teacher appeared before the "theists" or "metaphysicians" Socrates, Plato and Aristotle the proper mixture of the four humours.) Ghazali speaks as if the "naturalists" agent, but these "naturalists" have nothing to do with the teleological investigawith free will are causal agents, and the Ash'arite view that only God is a causal tures" or natural powers, as against the view of most Mu'tazilites that only beings so that the bridle is released from them, and they abandon themselves to their that there remains for them no reward for obedience nor punishment for sin: ("The theists/metaphysicians [ilahiyûn] are more recent than [the materialtion of the parts of animals, or with Galen's thesis of the soul's dependence on halâm doxographies, meaning those who believe in the causal efficacy of "naplication spelled out in detail) are unmistakable. ("Naturalists" also turn up in quwa 'l-nafs lâbi'ah li-mizâj al-badan] (with the latter work's most notorious imof the Soul are Consequent on the Temperamants/Mixtures of the Body [Kitâb fi anna the Usefulness of the Parts of the Body [Kilâb manâfi' al-a'dâ'] and That the Powers appetites like the beasts" (Watt 31, MR 35-6). The references to Galen's On hereafter and deny paradise and [hell]-fire and resurrection and judgment, so return. So they think that the soul dies and does not return, and they reject the it has been annihilated, it is unintelligible (they think) for the non-existent to and annihilated with the corruption of the temperament/mixture. Then, when al-qûwah al-'âqilah min al-insân tâbi'ah li-mizâjihi aydan], and that it is corrupted intellectual power of man is consequent on his temperament/mixture [anna cacy in constituting the powers of animals. And so they thought that even the balance of the temperament/mixture [of the four humours] has great effi

I. The Ismâ'îlîs were the most immediate threat: they argued, on sceptical grounds, that the usual Muslim authorities or types of reasoning were incapable of determining what is legally/morally commanded, and that only their imâm could determine the law; this undermined the authority both of sunnî religious practice and of the caliph or his vicegerents, and the Ismâ'îlîs were indeed using the authority of their imâm both to alter religious practice and to promote violent uprisings against political authorities. Ghazâlî had been commissioned by the caliph, or by the real powers behind the puppet caliphate, to provide arguments to check the growing appeal of Ismâ'îlîsm, and indeed one of his motivations for refuting the philosophers is that the Ismâ'îlîs were using neo-Platonic philosophy to fill out the content of the wisdom supposedly received from their imâm.

22. But note that this book, unlike the other books of Galen that I cite, seems not to have been translated into Arabic (it is not listed in Hunain ibn Ishâq's Risâla on

his translations of Galen, or in Ibn al-Nadîm's Fihrist, or in Manfred Ullmann's list of Arabic translations of Galen in his [1970]).

marvels might happen on both sides: Pharaoh's magicians also turn their rods into serpents, and are we really going to settle the issue by the fact that Moses's even if the Ismâ'îlî imâm publicly performed the miracle of Jesus, that would of truthfulness unless he knows magic and how to distinguish it from miracle, MR 53).

24. Though two small sections, one of them including the Democritus quote, turned up in Greek and were published in 1901. There is an edition and translation of the Arabic text of the On Medical Experience, with a brief discussion of its Democritus, in Walzer (1944). As Myles Burnyeat points out to me, Democritus' senses do not actually say that reason needs their evidence for its starting points: they merely ask "wretched mind, after having accepted our evidence [par hêmeôn just be read Ghazâli's way.

As Racha Omari has noted in an unpublished paper, Ghazâlî is probably influenced here by the Mu'tazilite definition of knowledge as "true judgment accompanied by rest in the soul" – that is, true judgment that is also psychologically unshakeable; compare with Greek definitions saying that knowledge must be ametaptitos.

26. So especially the On the Best Kind of Teaching, which stresses that having sound faculties but not trusting them is just as bad for science as not having sound faculties.

27. Cp. Galen's obsession with ranking other people's arguments as demonstrative or dialectical or rhetorical or sophistical, especially in the *Placita of Hippocrates and Plato*. There is useful discussion of Galen's practice here in Teun Tieleman (1996).

28. Ghazâlî thinks of mathematics, as one of the Greek sciences, as forming part of philosophy.

29. Presumably in both Galen and Ghazâlî, counterfeiting is not so much faking state authorization as passing off base metal, or a mixture of precious and base metals, as if it were the precious metal.

30. Ghazâli complains in particular about Avicenna's drinking, and about Avicenna's excusing or outright bragging about it in his autobiography.

31. It was a fairly common safe in the later of the la

able lawfulness and that a pious person should avoid them. In the *Deliverance* from Error, on a list of complaints about the 'ulamā' that have led to general drinking and outright corruption or non-performance of basic religious duties, 'so-and-so eats up the largesse of the ruler and does not guard himself from of his renunciation of teaching he took a personal vow, before the tomb of

Abraham in Hebron (where he had made a pilgrimage, described also in the Deliverance from Error, Watt 59, MR 61), that he would never again accept money from a ruler (the text – in Persian, a language that I unfortunately do not read – is in Makâtib-i Fârsî-i Chazzâtî, ed. 'Abbâs Iqbâl, Teheran, 1954, 45; there is a German translation in Krawulsky [(1971) 66]).

- 32. So Ghazálí, Watt 64, MR 67, and cp. the *hadíth* "the dreams of a wise man are one-fortieth part of prophecy."
- For Galen's attitudes toward dreams and inspiration, see Nutton's discussion of medicine through inspiration in dreams and visions delivering them from in general bear witness to the fact that it was God who gave them the craft of what he mentions in his Commentary on the Book of the Oaths by Hippocrates" Galen seems to go furthest are in the fragments of a commentary on the Hipand references in his edition of Galen's On My Own Opinions, 135-7. Where or similar texts and thought they were by Galen, this would give added bite to available in Arabic and attributed to Galen, and if Ghazâlî was aware of these sure whether these fragments are authentic, and neither am I. But they were Pergamon - the last-mentioned one being my own city" (60). Rosenthal is not through Asclepius, in the city of Epidaurus, the city of Cos, and the city of their cure came from God, some [obtaining it] through Serapis, and others severe diseases. Thus we find an innumerably large number of people to whom (59); "In his Commentary on the Oaths by Hippocrates, he [Galen] says: people by the intellect of man. This theory is the theory of Galen, and this is the text of that by referring to the fact that such an exalted science cannot be invented (1956): "Those who say that God created the craft of medicine argue in favor pocratic Oath preserved by Ibn abî Uşaibi'a, for which see Franz Rosenthal may have become aware of them. ideas were certainly current in late pagan antiquity, however exactly Ghazâli ing about Asclepius), that the art of medicine arose from divine inspiration; and Philostratus in his Life of Apollonius of Tyana (III,44) argues (both in talkhis argument. As Nutton also notes, Iamblichus in his De mysteriis (3,3) asserts, otic and dangerous drugs through experiment, is close to Ghazali's. So such Philostratus' argument, about the implausibility of discovering the uses of ex-
- 34. Ghazâlî here draws an extended analogy between compound drugs mixed in fixed proportions and the combination of different ritual elements with, for example, their time-lengths in fixed proportions.
- 35. Ghazâlî gives a number of examples of the vanity of rationalist attempts, either to show a priori that some phenomenon could not happen, or ex post facto to explain why it did happen. Particularly interesting is the example of the cooling power of opium, which is much greater than that of the cold elements (earth, water) contained in opium (Watt 78-9, MR 78-9): this seems to be referring specifically to Galen's discussion of the cooling properties of opium in On Mixtures Book III. Ghazâlî says that the opponent has been forced to admit this rationally inexplicable property of opium, and should therefore admit similarly inexplicable properties of religious ritual. Ghazâlî calls this opponent al-tabî'î: Watt translates "the physicist," which is the usual meaning, but this is the same word used before as the name for a sect of philosophers ("the naturalists") that is, as we have seen, effectively as a proper name for Galen.

- 36. As Sarah Stroumsa has shown in her (1999), esp. 93-107, Râzî in his Kitâl Makhârîq al-Anbiyâ' had attacked the traditional apologetics based on prophetic miracles, arguing that the prophets could have done all these things by trickery. Ghazâli's apologetics, which warns us against the argument from miracles and directs us instead to the prophet's knowledge of the psychological effects of ritual, is thus (among other things) a reply to Râzî's challenge, arguing for prophecy on a basis that Râzî would be forced to admit.
- 37. Ghazâlî may perhaps intend a reference not only to Galen's methods for validating his own authority, but also to Shâfi'i's, since Shâfi'i's disciple Ibrâhîm Muzanî cites Shâfi'i as forbidding taqlid whether of himself or of others (Muzanî, Mukhtaşar 1, cited Encyclopedia of Islam (II) s.v. taklid).
- 38. Temkin (1973), for example, 8-9.
- 39. Georg Misch's Geschichte der Autobiographie (not just the History of Autobiography Sigebertus, et Ioannes Trittenhemius," who "suas ipsi lucubrationes catalogis and cp. 54-5). Gesner cites as models "Hieronymus, Gennadius, Honorius, a iusta accusatione, sed etiam a calumnia in tutos fore nos existimamus" (8, aperte et sine dissimulatione aliqua haec omnia complexus est, non solum sius. Nos tamen Galenum in primis sequuti, qui, ut ingenuum decet virum, omnia scriptis suis mandarunt, quamquam quidam obscurius, quidam diffununquam legisse, aut si legerint, omnino contempsisse. Namque hi omnes haec quod fatentur se Hieronymum, Augustinum, Ciceronem, Galenum, Erasmum meorum Elencho aliqua de me gloriosius scripserim, hi nihil agunt aliud quam emulated explicitly pp. 149-51); Cardano is in general obsessed with rivalling ing or boasting about himself: "verum quibus grave videtur, quod cum librorum Galen. Cardano cites various models, and chiefly Galen, in defense of his speakorder, is pp. 179v-183r). The Cardano on p. 3 gives the fuller title Delibris propriis, ing to both of Galen's autobibliographies and also to the On Prognosis (cited and eorumque ordine et usu, ac de mirabilibus operibus in arte medica per ipsum factis, alludthe article on himself, "Conradus Gesnerus Tigurinus" in due alphabetical article on himself in his Bibliotheca universalis (Zürich, C. Froschouerum, 1545; model, are Cardano's De libris propriis (Leyden, 1557) and Conrad Gesner's ically sophisticated, literature on the history of biography and autobiography.) raphy seems to have entirely vanished from the more recent, and more theoretconnected discussion of a Galenic gerre (he comes closest in History, v. 1, 328-Two works that I have looked at, and that contain explicit references to Galen's 32), but his work contains suggestions, here and on much else, that might be fruitfully pursued. (By contrast, awareness of the Galenic subvariety of autobiog-736-7) with no mention of Galen. Misch never connects the dots to give any by his students, contains only a superficial two pages on the Discourse (vol. 4:2, Misch died before finishing the work, and volume 4, edited from Misch's notes to "the definite type of self-portrayal exhibited by Galen" (History, v. 1, 332), but Galenic type of autobiography. Misch also mentions the Discourse as belonging 984-91 and 1040-76), and was aware that they both belonged somehow to a Galen. Misch discusses both the Ibn al-Haitham and the Ghazâlî texts (vol. 3:2, ences to many Renaissance autobiographies, some of them clearly indebted to der Autobiographie [Misch (1949–1969)]], is a treasury of information, with referin Antiquity available in English [Misch (1950)] but the mammoth Geschichte

scriptorum, quos ecclesiasticos vocant, inseruerunt," and then also "divus Augustinus... de vita sua et scriptis libros Confessionum et Retractationum aedidit; et Cl. Galenus opusculum De libris propriis, et alterum De ordine suorum librorum" (179v). However, many of these Renaissance texts are less promising than they sound: Galen gives them a formal model or excuse, but often they are dry catalogues of compositions, or boasts of accomplishments, with nothing about the author's own process of discovery or of overcoming of methodological obstacles – in this respect resembling another frequently cited model, Cicero De divinatione II.i,1–ii.7 (and cp. the end of the Brutus), more than Galen or Ibn al-Haitham or Ghazâlî or Descartes.

- 40. This appeal was originally directed in the first instance to my London commentator, Vivian Nutton, who indeed supplied many references to Renaissance medical autobiographies, many of which I have not yet been able to pursue. Nutton also points to Renaissance biographies of Galen, sometimes serving as prefaces to printed collections of Galen's works, which drew heavily on Galen's autobibliographies and could thus transmit Galen's self-presentation as a possible model for Renaissance writers to use in describing their own lives: see Nutton (2003). Both Cardano and Gesner, cited in the previous note, as well as van Helmont, cited in the following note, and de Clave, discussed in the main text, were doctors.
- 41. I would like to thank Dan Garber for bringing this text to my attention. I would and degrees, promising in an easie Method, Mathematical demonstrations of method ("Afterwards Galen . . . framed Suppositions or Complexions, humours van Helmont thinks that diseases are caused by something like a Lucretian natural philosophy of Aristotle and Galen," 41-7, with a particular attack on But his resentment of Galen also has to do with Galen's claims for his scientific "seed," but under the guidance of an incorporeal spirit, attacking the body). balances of the four humours, and should be treated by restoring that balance; philosophy it is based on (particularly the claim that diseases result from imis trying to overthrow orthodox Galenic therapeutic practice and the natural Galen, 46-7). Naturally, van Helmont has to be concerned with Galen, since he even more than with Aristotle (see, for example, the chapter on "the ignorant Calen but much more so); but he is also malevolently obsessed with Galen of inspiration to logic (van Helmont relies on divinely inspired dreams, like although with Christian and alchemical twists and a much higher proportion but neither Descartes nor van Helmont could have had much use for the other. whether his autobiographical preface was written before or after the Discourse at London in 1662 (I am using the London edition of 1664). I do not know same publisher as for Descartes and Campanella); the English version appeared son Franciscus Mercurius van Helmont in 1648 (Amsterdam, with Elzevier, the cite) Oriatrike. Van Helmont died in 1644, and his works were published by his van Helmont's posthumously published collected works, the Ortus Medicinae or called to my attention. This is the autobiographical beginning of Jean-Baptiste syncratic but obviously in the Galenic tradition, which Catherine Wilson first Van Helmont appropriates many aspects of Galen's self-presentation to himself, (to use the odd title of the seventeenth-century English translation, which I will also like to note here another, more famous and fascinating text, highly idio-

those things, which nature onely is able to measure: which same things, he [= nature] kept secret to himself, and at length, laid open some things to Alchymists alone" (2)), and with Galen's success in eclipsing his predecessors and taking sole credit for himself ("But Galen snatching the glory of his Predecessors in to himself, extended his own Art, contained in a few Rules, into huge Volumes" (3)). The following passage captures the tone:

he hath followed in most things (7-8). at Quintius his master, whom notwithstanding (though an Empiricist) he witnesseth, that Moses) and many that were before him, guilty of errour; yea, and he hath often carped which made Galen to go unpunished, yea to be praised, although he frequently makes the holy Scriptures better instructed me.... In the mean time, Reader, I am angry with vain promises, abuses, and very many errours. Therefore I long since considered with my Erostratus, Asclepiades, Protagoras, Erasistratus, Herophilus (I here make no mention of the esteem of Authours gone before me. But the liberty of former Ages hath raised me up myself, because it is scarce lawful to open my conceptions, in the truth, without hurting self, that the Art of healing was a meer juggle, brought in by the Greeks: till at length, in learning. But in multitude of Books there was no where comfort or knowledge; but it ingeniously grieved me, of the pains I before took, and of the disquietness I endured circumspect in presuming; but alike, yea more ignorant than the rest. In the mean time, seekers after knowledge, indeed I found also more stedfast in their purpose, and more sluggishness and ignorance amongst them all. But those who were the more diligent of healing, and minds of the healers. Therefore I straightway left off all Books of all, every way, the Seeds of ignorance, by the same contagion, pierced even into the Root Adeptical. I have thorowly viewed some foreign Nations, and I found almost the same to come down from the father of Lights [James 1:17], and rather also, that of Medicine accurate Discourses, and empty promises of the Schooles, firmly believing every good gift to doubt of the stedfastness of Galen's speculations, after I had beheld the very Maxims little, I more and more confirmed this conceit, by Discourse and Experience; to wit, that of the Schooles themselves, to be full of sores and defects; then at length, by little and them, or the flock of those that went before them? ... Straightway I learned, the more Indeed Physitians demanded, why I lesse cured according to Galen, and refused to follow I indeed, even from my tender bones or years, have esteemed knowledge before riches...

There is also a sceptical crisis (11) on the completion of his official philosophical studies in his seventeeenth year, then a series of experiments with and rejections of various academic disciplines; all this bears comparison with Descartes.

- 42. A "docte Espagnole," evidently Luisa Oliva Sabuco de Nantes y Barrera, author of a *Nueva filosofia de la naturaleza del hombre* (1587), written from a medical standpoint. But I cannot explain why De Clave calls her "Catharina."
- 43. Bloch (1990).
- 44. This last is actually putting it a bit too strongly, since de Clave stresses, against the empiricist doctors, that he is looking for philosophical reasons, and for physical foundations of medicine, although the reasons must have a point of departure in sense-experience.
- 45. But it is noteworthy that in a letter of 30 March 1628, Guez de Balzac reminds Descartes of "l'histoire de vostre esprit," which Descartes had apparently promised to write, whereas Descartes' intense involvement with medicine seems to date from the early 1630s. But we do not know how close Descartes' promise

of 1628 would have been to the published *Discourse*, and he may also have encountered the Galenic autobiographical tradition even by 1628.

46. Van Ess (1987).

47. See Schuster (1986). We can thus see how to answer one criticism I have heard – namely, that I have assumed that the parallels in our authors' self-descriptions are due to borrowing, when they might just be due to objective similarities in their lives, since they all faced the same objective need of discovering a method for their scientific work. The answer is that it is impossible to figure out, from our authors' descriptions of their methods, what methods they actually followed; it will not work, and is the wrong order of explanation, to explain their method-talk as the result of their method-practice. I do not mean that method-talk is just window-dressing: it is very important in creating an ideal that can be used in criticizing earlier thinkers (for example, Chazáli's criticism of the failure of the metaphysicians' demonstrations is brilliant and largely correct), and the ideal does, in the long run, have an effect in shaping scientific practice.

48. Let me repeat from before that I have only been trying to supply one relevant context for reading the Discourse on the Method: I do not claim that this is the seems to be simply that we are born with concept of good and bad, right and different schools of philosophy [or of any other discipline], or about people is by recognizing that their opinions conflict with their neighbors', or with the for a criterion, and the way people recognize the insufficiency of mere opinion narrative, such as we find (without first-person reference) in Epictetus Discourses are both independently responding to a simpler Stoic conversion-to-philosophy responding to a Pyrrhonist version of the story? Or perhaps Galen and Sextus story, except that the Pyrrhonian crisis is permanent and cheerful. Is Galen of happiness through the suspension of judgment. This sounds like the Galenic disappointment and despair with philosophy itself, leading to the attainment the contradictions among appearances and a conversion to philosophy, then a the typical Pyrrhonist's life-story (P.H. I,xii,25-30): first a dissatisfaction with comparandum, not strictly an autobiography, is Sextus Empiricus' account of was suggested already by Misch, History, v.1 pp.106-7 and p.331). Another ments in physics and his "second sailing" in dialectic (Phaedo 96a5-100a8; this is the Platonic Socrates' (probably largely fictional) account of his disappointnot appear to be indebted to him. One obvious possible antecedent for Galen self-descriptions, and about Galen's relation to other late ancient writers who do and I do not know anyone before Galen who is directly comparable to Galen. have described (though of course I must be missing many important figures), mediate source for both the Muslim and the Renaissance Christian traditions I incomplete. I have begun the story with Galen, because he seems to be the imitself. Let me also note another way in which the picture I have sketched is interpretation, and I know that I have said very little here about the Discourse magic key to the Discourse or that it will of itself produce radical revisions in our who believe things simply because they follow some authority. The problem opinions of foreign nations. But Epictetus does not talk about conflict between losophy is the recognition of the insufficiency of mere opinion and the search II. 11, "What is the beginning of philosophy?" (There, what turns people to phi-But there are still questions about Galen's appropriation of earlier intellectual

> of the Plotinian method of ascent from bodies to soul and God, and of specifiand disciplines, a sceptical crisis, and a resolution through the discovery both successes, an ambition for a higher wisdom, disappointments with various sects to Galen and to Sextus is Justin Martyr's, in the early chapters of the Dialogue equate knowledge and without feeling that we need to be taught how to use biographical genre to Augustine's Confessions. Augustine too has early scholastic them.) Another intellectual autobiography with some interesting parallels both wrong, and so on, and that we proceed to apply these concepts without ad for the metaphysics of Part Four) is not. I do not know how to proceed here. Meditations are indebted to Augustine, but my sense is that the Discourse (except in later Christian writers. I have emphasized elsewhere how deeply Descartes been compared; the Ghazâlî is to this extent more properly autobiographical ance from Error, although of course the Augustine and Ghazali texts have often also much more God-centered than any of the other works, even the Deliverothers I have discussed, although this is a matter of degree. The Confessions is is that Augustine is a more original and idiosyncratic autobiographer than the ine that Augustine knew Galen's autobiographies, or would care, and my feeling serve exactly this purpose in many editions of his works. But it is hard to imagprolegomena to an author's collected works (such as Porphyry's On the Life of placing of Galen's autobibliographies within a tradition of biobibliographical allegorical interpretation of scripture). I have noted earlier Jaap Mansfeld's cally Christian practices (faith in the scriptures, submission to church authority, A larger question is about the relation of what I have called the Galenic autowith Trypha: at the moment I do not know how to account for these similarities We can also ask to what extent the Galenic and Augustinian influences merge Plotinus and the Order of his Books), and Augustine's Confessions + Retractations

49. I would like to thank Rachana Kamtekar, Alison Laywine, Yaseen Noorani, and Rob Wisnovsky for comments on early drafts of this chapter, Vivian Nutton and Doug Wright for their comments in London and Toronto respectively, members of those audiences for their questions, and Richard Frank, Alexander Nehamas, Jim Whitman, and Fritz Zimmermann for more recent comments.

are convinced that it will be for our happiness, or at least not contrary to it." (xi a cool hour, we can neither justify to ourselves this or any other pursuit, till we it be allowed, though virtue or moral rectitude does indeed consist in affection these last too, as expressing the fitness of actions, are as real as truth itself. Let it is impossible there ever should be, any inconsistence between them: though to and pursuit of what is right and good, as such; yet, that when we sit down in those of order, and beauty, and harmony, proportion, if there ever should be, as

- The supremacy of self-love in the Sermons (in contrast to the Analogy) is mainto Butler is rejected by Raphael (1949), 236; Grave (1952), 83f. closer to that of the Greek moralists. McPherson's attribution of eudaemonism an "egoistic eudaemonist" (330). This view would bring his position somewhat regarded as the ground of rightness" (327). He thus concludes that Butler is science to be identical, and maintains that "'productive of happiness' may be tained by McPherson (1948), who argues that Butler takes self-love and con-
- **2**8 Sidgwick (1892), 196, takes this passage to affirm that self-love is a rational in Shaftesbury's argument... of rationality. After quoting the "cool hour" passage Sidgwick continues: "That distinctly rational point of view, to see whether it meets all the relevant standards the ultimate appeal must be to the individual's interest was similarly assumed that a course of action approved by conscience must still be examined from a principle not subordinate to conscience. This, in his view, is why Butler believes
- **29**. Waterland (1823), vol. ix (Sermons, collected 1741-2, not further dated), Sermon 3 on Self-Love, pp. 35-55. See Whewell (1852), 129.
- 30. independent of it." (39) as any separate advantage or felicity, opposite to the felicity of the whole, or and as his own particular good, God has been pleased to connect and intercreatures; yet since no one can pursue any good but with reference to himself system is what himself proposes as the noblest end, and holds forth to all his affair; that whereas the general happiness of the whole rational or intellectual happiness is included in that of the public: and there is, in reality, no such thing particular welfare without consulting the welfare of the whole. His own private weave these two, one with the other, that a man cannot really pursue his own "But the wisdom and goodness of Almighty God is highly conspicuous in this
- 31. The concessive reading is supported by the long sentence "It may be allowed ...", where Butler makes it clear that he is "allowing" several things. See Sturgeon (1976), 338, Broad (1930), 8o.
- 32. and consists in these respects and this subjection". (iii 2n, continued in the principle of reflexion or conscience. The system or constitution is formed by which the appetites, passions, and particular affections have to the one supreme but by the respects they have to each other; the chief of which is the subjection whose several parts are united, not by a physical principle of individuation, passage quoted in n.17). "[Nature] \dots is the inward frame of man considered as a system or constitution:
- 33. See Price (1787), 256-9; Sidgwick (1907), 501f.
- See iii 2n, quoted in notes 17 and 32.

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wasn't clear whether an item was a secondary or primary source, it is listed included, but those that are only mentioned are not. Finally, in cases where it in the bibliography of secondary sources. multiple philosophers are included in one book) as a collection. Also, this bibliography is not comprehensive; roughly speaking, works that are used are simplify its use, material has been grouped either by philosopher or (where works from many of the main figures in the two periods being studied. To This bibliography is unusual in the range of material covered, including

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