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| aa.  which modern  enquirers  ~~circumstance~~ ✗  {?~~of~~} ~~was had~~  state of mind had  place ✗  in the light of  morning | Chap. 5 (61  14  From this day natural philosophy and parti  nearly  cularly chemistry became my sole ~~appli~~  [5]  ^  study. I read with ardour ~~m~~ those books  so full of genius and discrimination  th~~at have been~~ written on these sub-  jects. I attended the lectures, and culti  vated the acquaintance of the men [10]  of science of the university; and I found  even in M Krempe a great deal  of sound sense & real information  combined it is true with a repulsive  phisiognomy & manners, but not on [15]  that account the less valuable.  In M. Waldman I found a true friend.  His gentleness was never tinged by ~~dg~~  dogmatism and his instructions were  given with an air of frankness and [20]  good nature that banished every idea  of ~~pedantl~~ pedantry. It was perhaps the  amiable character of this man that  enclined me more to the study of that  natural philosophy which he professed [25]  branch of ~~science~~ than an intrinsic  ^  love for the science itself. But this  ~~was~~ only in the first steps towards  the more fully  knowledge; ~~as~~ I entered ~~more fully~~ into [30]  science pursued  ~~the~~ ~~philosophy~~ the more I ~~studied~~ it  for its own sake. That application  which at first had been a matter  & resolution, [35]  of ~~ch~~ duty now became so ardent  ^  and eager that the stars often  dissapeared while I was yet ~~labouring~~  ^ engaged  in my labrotary. [40] | [78:]CHAPTER III.  From this day natural philosophy, and particularly  chemistry, in the most comprehensive sense of the term, became nearly my sole  occupation. I read with ardour those works,  so full of genius and discrimination,  which modern inquirers  have written on these subjects.  I attended the lectures, and cultivated  the acquaintance, of the men  of science of the university; and I found  even in M. Krempe a great deal  of sound sense and real information,  combined, it is true, with a repulsive  physiognomy and manners, but not on  that account the less valuable.  In M. Waldman I found [79:]a true friend.  His gentleness was never tinged by  dogmatism; and his instructions were  given with an air of frankness and  good nature, that banished every idea  of pedantry. It was, perhaps, the  amiable character of this man that  inclined me more to that  branch of natural philosophy which he professed, than an intrinsic  love for the science itself. But this  state of mind had place  only in the first steps towards  knowledge: the more fully I entered into  the science, the more exclusively I pursued it  for its own sake. That application,  which at first had been a matter  of duty and resolution, now became so ardent  and eager, that the stars often  disappeared in the light of morning whilst I was yet  engaged  in my laboratory. |

**left edge]***remaining stub (from folio 5) with glue residue*  **lower quarter of page]***darker areas in photofacsimile exaggerate soiling and surface texture of paper*  **1]***wet offset ink blots after* Chap. *(from ink blot on final stroke of* mechanism *on facing folio 13 verso [page 60], line 1)*  **2]***Bodleian folio number* 14 **8]***uncanceled* th *in* th~~at~~*;* ese *overlays* e *in* these **15]***variant spelling* phisiognomy **17]***see note on* Waldham*/*Waldman *on folio 11 recto [page 56], lines 18,19* **21]***pbs* y *added in* every **32]***smeared cancel line on* ~~studied~~ **38]***misspelled* dissapeared **40]***misspelled* labrotary*; show-through dot above period (from blotted beginning of cancel line on* ~~that~~ *on verso [page 62], line 35)*

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| 62)  while M. Waldham  expressed the most  heartfelt exultation  in my progress.  pursuit  and hadng learned  all the professors  at Ingolstadt were | As I applied so closely, it may be  easily conceived that I improved rapid  ly. ~~It~~ My ardour was indeed the astonish  ment of the students, and my proficiency  that of the master. ~~and~~ Professor Krempe [5]  often asked me with a sly smile  how Cornelius Agrippa went on; Two  ^  years passed in this manner during  which I paid no visit to Geneva, but  ~~ws~~ was engaged heart and soul in the [10]  pursuit of some discoveries which I  hoped to make. ~~No one~~ None but those  who have experienced it can conceive  of the enticements of science – ~~especially~~ In  other studies you go as far as others have [15]  gone before you and there is nothing  know,  more to ~~learn~~, but in a scientific  pursuit ~~their~~ there is continual  food for discovery and wonder. A mind [20]  of ~~even~~ moderate capacity who closely pursues  one study must infallibly arrive at  great proficiency in that study—And I  sought the attainment of  who ~~was~~ continually ~~applied to~~ one [25]  object was  ~~thing~~ and wrapt up ~~as I was~~ in this sole  ~~I~~ improved so rapidly that at the end  of the two years I made ~~one or two~~ some  ~~trifling~~ discoveries in the improvement [30]  instruments  of some chemical ~~machines~~ which pro  cured me great esteem and admiration  at the university. When I arrived at  this point, ~~that~~ my residence ~~at In~~ [35]  qualified to teac h ^ | ¶As I applied so closely, it may be  easily conceived that I improved ra- [80:]pidly.  My ardour was indeed the astonishment  of the students; and my proficiency,  that of the masters. Professor Krempe  often asked me, with a sly smile,  how Cornelius Agrippa went on?  whilst M. Waldman expressed the most heartfelt exultation in my progress. Two  years passed in this manner, during  which I paid no visit to Geneva, but  was engaged, heart and soul, in the  pursuit of some discoveries, which I  hoped to make. None but those  who have experienced them can conceive  of the enticements of science. In  other studies you go as far as others have  gone before you, and there is nothing  more to know; but in a scientific  pursuit there is continual  food for discovery and wonder. A mind  of moderate capacity, which closely pursues  one study, must infallibly arrive at  great proficiency in that study; and I,  who con- [81:]tinually sought the attainment of one  object of pursuit, and was solely wrapt up in this,  improved so rapidly, that, at the end  of two years, I made some  discoveries in the improvement  of some chemical instruments, which procured  me great esteem and admiration  at the university. When I had arrived at  this point, and had become as well acquainted with the theory and practice of natural philosophy as depended on the lessons of any of the professors at Ingolstadt,  my residence |

**bottom of page]***darker areas in photofacsimile exaggerate soiling and surface texture of paper*  **margin:7]***see note on* Waldham*/*Waldman *on folio 11 recto (page 56), lines 18,19* **margin:33]***pbs* having *was altered to pbs* had*, with* ng *neither canceled nor covered* **1]***wet offset ink blot between* it *and* may *(from pbs* there *on facing folio 15 recto [page 63], margin, line 2)*  **3]***blotted pbs period after* ly **4]***re-inked* y *(or* y *overlays* e*) in* proficiency **7]***stray ink line above* n *in* on*, below which is an almost horizontal pbs semicolon and pbs caret marking marginal insert*  **11]***wet offset ink blots below* which *(from pbs* which *on facing folio 15 recto [page 63], margin, line 15)* **15]***wet offset ink blots above* studies *(from pbs* our enquiries? *on facing folio 15 recto [page 63], line 19)* **16]***pbs* g *overlays mws* d *in* gone **23]**the *altered to* that **27]***pbs* pt *overlays mws {*?*} in* wrapt **29]***faint pbs cancel line on* ~~two~~ **35]***mispositioned ?caret below* this *(insert mark should be after* point*) could be pbs comma after pbs* teach *in line 36; mws* y *overlays {*?*} in* my

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| which | ~~golstadt was~~ no longer conducive to (63  there being  my improvement, I thought of returning  15  to my friends and to my native town, [5]  when an incident happened that  protracted my stay.  One of those phænonoma which  had ~~most~~ peculiarly attracted my atten  tion was the structure of the human [10]  frame; and indeed that of any animal  endued with life. Whence I often asked  myself did this principle of life proceed.  It was a bold question, and one ~~that~~  has ever been considered as a mystery. [15]  Yet how many things are we on the  brink of becoming acquainted with  if cowardice or carelessness did  our enquiries?  not restrain ~~us~~. I revolved these circum [20]  stances in my mind and determined  from thenceforth to apply myself more  particularly to those branches of natural  relate to  philosophy which ~~treats~~ ~~of~~ phisiology. [25]  Unless I had been animated by an al-  most supernatural enthusiasm, my  application to this study would have  been irksome and almost intolerable.  To examine the causes of life {?~~de~~} we must [30]  first have ~~recou~~ recourse to death.  ~~No is ano anatomy~~ I became acquainted  with the science of anatomy but this  was not sufficient. I must also observe  the natural decay & corruption of the [35]  human body. In my education | there being no longer conducive to  my improvements, I thought of returning  to my friends and my native town,  when an incident happened that  protracted my stay.  ¶One of the phænomena which  had peculiarly attracted my attention  was the structure of the human  frame, and, indeed, any animal  endued with life. Whence, I often asked  myself, did the [82:]principle of life proceed?  It was a bold question, and one  which has ever been considered as a mystery;  yet with how many things are we upon the  brink of becoming acquainted,  if cowardice or carelessness did  not restrain our inquiries. I revolved these circumstances  in my mind, and determined  thenceforth to apply myself more  particularly to those branches of natural  philosophy which relate to physiology.  Unless I had been animated by an almost  supernatural enthusiasm, my  application to this study would have  been irksome, and almost intolerable.  To examine the causes of life, we must  first have recourse to death.  I became acquainted  with the science of anatomy: but this  was not sufficient; I must also observe  the natural decay and corruption of the  human body. In my education |

**left edge]***glue residue* **lower right corner]***darker areas in photofacsimile exaggerate show-through pbs words (from lower left corner of verso [page 64])* **margin:32-34]***combination of ink marks, tear line, and show-through ink line (from pbs* g *in* analyzing *on verso [page 64], line 37)* **4]***Bodleian folio number* 15 **8]***misspelled* phænonoma **9]**more *altered to* most *before being canceled* **11]***pbs semicolon could be comma with two ink blots* **12]***re-inked and enlarged* I **21]***wet offset ink blot before* determined *(from tail of pbs* g *in* gone *on facing folio 14 verso [page 62], line 16)* **23]***pbs* ose *overlays mws* at *in* those*; pbs* es *added to mws* branch **25]***variant spelling* phisiology **34]***wet offset ink blot before* not *(from pbs* instruments *on facing folio 14 verso [page 62], line 31)* **34-36]***wet offset ink blots near right edge (from pbs additions on facing folio 14 verso [page 62], margin, lines 33-36)*

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| 64)  was  all the minutiæ  of causation  as exemplified in  the change from  life to death, &  death to life, | my father had taken the greatest  precautions that my mind should  no  ~~not~~ be impressed by supernatural  ^  horrors. I do not ever remember [5]  tale of superstition  having trembled at a ~~ghost story~~ or  a  to have feared the apparition of spirit  ~~Ligh~~ Darkness had no effect upon my [10]  fancy and a churchyard was to  as  me merely the receptacle of ~~rotten b~~  ^ which  bodies deprived of life and ~~becoming~~ [15]  from being the seat of beauty &  become  strength food for the worm. ~~But~~  ^  ~~I~~ ~~A loathsome~~ {?c} ~~But~~ now I was  led cause [20]  ~~obliged~~ to examine the ~~cause~~ & progress  of this decay and forced to spend days  and nights in vaults and Charnel  houses. I ~~was obliged~~ My attention was  object ~~calculated to~~ [25]  fixed upon every ~~horror of whic~~h  the most insupportable to the delicacy of  the human feelings. ~~are suscept~~able–  I saw how the fine form of ~~a~~ man  ~~became~~ [30]  ~~was~~ degraded and wasted. I beheld the  corruption of death succeed to the bloom  I saw  -ing cheek of life – how the worm ~~suc~~  inherited [35]  ~~ceeded to~~ the wonders of the eye and  brain. I paused, examining and analyzing  ~~every~~ ~~minutiæ~~ of ~~causation~~ untill  from the midst of this darkness  a sudden light broke in upon me. [40]  A light so brilliant & wondrous yet | my father had taken the [83:]greatest  precautions that my mind should  be impressed with no supernatural  horrors. I do not ever remember  to have trembled at a tale of superstition, or  to have feared the apparition of a spirit.  Darkness had no effect upon my  fancy; and a church-yard was to  me merely the receptacle of  bodies deprived of life, which,  from being the seat of beauty and  strength, had become food for the worm.  Now I was  led to examine the cause and progress  of this decay, and forced to spend days  and nights in vaults and charnel  houses. My attention was  fixed upon every object  the most insupportable to the delicacy of  the human feelings.  I saw how the fine form of man  was degraded and wasted; I beheld the  corruption of death succeed to the blooming  cheek of life; I saw how the worm  inherited the wonders of the eye and  brain. I [84:]paused, examining and analysing  all the minutiæ of causation, as exemplified in the change from life to death, and death to life,  until  from the midst of this darkness  a sudden light broke in upon me—  a light so brilliant and wondrous, yet |

**entire page]***soiling and discoloration at top right and bottom edges* **margin:41]***comma could be semicolon* **1-6]***wet offset ink blots in and near right margin (from pbs additions on facing folio 16 recto [page 65], margin, lines 2-6)* **21]***wet offset ink blot above* to *(from pbs cancel line on* ~~toil~~ *on facing folio 16 recto [page 65], line 18); canceled and blotted* cause *(or* causes*)* **23]***?pbs re-inked* l *in* vaults*, where* l *had been crossed by mws*  **26]***uncanceled terminal* h *in* ~~whic~~h **28]***uncanceled* able *in misspelled* ~~suscept~~able **37]***pbs* ing *overlays mws* ed *in* examining*; pbs* yzing *overlays mws* yzed *in* analyzing **38]**of *mistakenly uncanceled by pbs; variant spelling* untill

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| I became dizzy  with the immen  sity of the prospect  which it illus  trated,  After so much  ^time spent in  painful labour | so simple that while ~~it intoxica(~~65  ~~ted me~~ I was surprised that I 16  ~~was~~ among so many men of genius  who had applied to the same science  that I alone should discover [5]  this astonishing secret.  not  Remember I am recording the  ^  ~~no~~ vision ~~of~~ of a madman – the  sun does not more certainly shine [10]  in the heavens than that which  affirm,  I now ~~record~~ is true. Some miracle  might have produced it. But the  stages of discovery were distinct [15]  and probable. After days and nights  labour  of incredible ~~toil~~ and fatigue  I succeeded in discovering the  cause of generation & life. Nay [20]  became  more, I ~~was~~ myself capable of  bestowing animation upon lifeless  matter.  which at first [25]  ~~My~~ The surprise ~~that~~ I experienced  ^  on this discovery soon gave place to  delight and rapture. ~~After such~~  to arrive  ~~painful labour~~ ~~come~~ at onece [30]  ^ summit  at the ~~obj ect~~ ~~object~~ of my desires  was the most gratifying circumstance  that could have occurred. But this  discovery was so great and overwhelm [35]  ing that ~~the~~ ~~reflection~~ all the | so simple, that while  I became dizzy with the immensity of the prospect which it illustrated,  I was surprised that  among so many men of genius,  who had directed their inquiries towards the same science,  that I alone should be reserved to discover  so astonishing a secret.  ¶Remember, I am not recording the  vision of a madman. The  sun does not more certainly shine  in the heavens, than that which  I now affirm is true. Some miracle  might have produced it, yet the  stages of the discovery were distinct  and probable. After days and nights  of incredible labour and fatigue,  [85:]I succeeded in discovering the  cause of generation and life; nay,  more, I became myself capable of  bestowing animation upon lifeless  matter.  ¶The astonishment which I had at first experienced  on this discovery soon gave place to  delight and rapture.  After so much time spent in painful labour,  to arrive at once  at the summit of my desires,  was the most gratifying consummation  of my toils. But this  discovery was so great and overwhelming,  that all the |

**ruled margin]***some wet offset ink blots (from pbs cancel lines and words on right side of facing folio 15 verso [page 64])* **top left corner]***paper torn away*  **right edge]***carry-over ink lines from right edge of preceding rectos (e.g., ink lines to right of* ~~such~~ *and* onece *in lines 28 and 30 complete final strokes of* intolerable *and of* must *on folio 15 recto [page 63], lines 29 and 30)* **1]***show-through line below* while *(from cancel line on* ~~that~~ *on verso [page 66], line 2); cancel line on* ~~intoxica~~ *extends through parenthesis*  **2]***Bodleian folio number* 16 **5]***ink blot after* that **11]***pbs* ich *overlays mws*\pard cs8 at *in* which **12]***comma after* affirm *is in loop of* d *from next line* **20]***period is preceded by additional and ?stray ink dot* **25]***pbs* which *was added ?after mws added* at first **28]***wet offset ink blots after* delight *(from pbs* I saw *on facing folio 15 verso [page 64], line 33)* **30]***misspelled* onece **35]***wet offset ink blots on and above* and overwhelm *(from pbs ink blots and words on facing folio 15 verso [page 64], margin, lines 39-41)*

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| 66)  so soon as I  ^should point  them towards  the object of  my search,  than to exhi  bit that ob-  ject already  accomplished. | by which I had been  steps ~~that~~ progressively led to it were  and beheld  obliterated. I ~~saw~~ only the result. What  ^ ^  had been the study and desire of the [5]  ~~m~~ wisest men since the creation of  within grasp;  the world was now ~~in~~ my ~~hands~~. Not  ^  that, like a magic {?~~sceen~~} scene it  all opened upon me at once. ~~on~~ [10]  ~~the contrary~~ The {?~~big~~} information  of a nature  I had obtained was rather ~~one that~~  to ^  ~~would~~ direct my endeavours. ~~that~~ [15]  ^ ^  ~~than show me the prospect with~~  ~~any precise certainty~~. I was like the  Arabian who had been buried with  the dead, and found a passage to life  aided only by one glimmering and seem [20]  ingly ineffectual light.  I see by your eargerness and the  wonder and hope which your eyes  express, my friend, that you expect to  be informed of the ~~scret~~ secret with [25]  that cannot be.  which I am acquainted; ~~but you are~~  ~~mistaken~~. Listen patiently to the end  of my story and you will easily  perceive why I am reserved upon that [30]  will not  subject.– ~~For why shoul~~d I lead you  on, ~~as~~ unguarded and ardent as I then  was, to your ~~destruct~~ destruction & | steps by which I had been progressively led to it were  obliterated, and I beheld only the result. What  had been the study and desire of the  wisest men since the creation of  the world, was now within my grasp. Not  that, like a magic scene, it  all opened upon me at once:  the information  I had obtained was of a nature rather  to direct my endeavours  so soon as I should point them towards [86:]the object of my search, than to exhibit that object already accomplished.  I was like the  Arabian who had been buried with  the dead, and found a passage to life  aided only by one glimmering, and seemingly  ineffectual,**†** light.  ¶I see by your eagerness, and the  wonder and hope which your eyes  express, my friend, that you expect to  be informed of the secret with  which I am acquainted; that cannot be:  listen patiently until the end  of my story, and you will easily  perceive why I am reserved upon that  subject. I will not**†** lead you  on, unguarded and ardent as I then  was, to your destruction and |

**top right corner]***paper torn away*  **10]**c *overlays* e *in* once*; semicolon (or colon) altered to period after* once **11]**the *altered to* The **15]***ink blot on period after* endeavours **18]***canceled comma after* Arabian **22]***misspelled* eargerness **25]***miswritten and canceled* scret *could be* seret **27]***pbs semicolon overlays (and cancels) mws comma*  **30]***blotted ?mws* I *is inserted between* why *and* am **31]***?mws* will not **34]***misformed* ain ru *in canceled* destruct **1818 text:21]***comma after* ineffectual *despite the faulty evidence of an imperfect photofacsimile in 1818 Wolf-1 (page 66)* **1818 text:31]***although all copies of 1818 that I have inspected print* not *(including the Library of Congress copy on which the 1818 Wolf-1 photofacsimile was based), 1818 Wolf-1 (page 66)* *represents the word without the* t

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|  | infallible misery. Learn from me, if (67  17  not by my precepts at least by my exam  ple, how dangerous is the acquirement  of knowledge and how much happier [5]  that man is who believes his native  town the world, than he {?~~whonto~~}  aspires to become greater than his  nature ~~allows.~~ will allow. | infallible misery. Learn from me, if  not by my precepts, at least by my example,  how dangerous is the acquirement  of knowledge, and how much happier  that man is who believes his [87:]native  town to be the world, than he  who  aspires to become greater than his  nature will allow. |

**2]***Bodleian folio number* 17 **3]***?mws* s *in* precepts **7]***mistakenly canceled (or not rewritten)* who *in the miswritten and then canceled ?*~~whonto~~ **below 9]***wet offset ink blots (from facing folio 16 verso [page 66], margin, lines 14-21 and from* to*, line 14); show-through ink lines (from cancel lines on verso [page 68])*