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## MORALITY IN SPITE OF INTERESTS: ABSOLUTE PRINCIPLES GROUNDED IN SKEPTICISM'S NECESSITIES ENABLE RE-EXAMINING EVOLUTION AND EPIGENESIS<sup>1</sup>

### Abstract

The issue of the relationship between matter and mind (biology and freedom that makes morality possible) did not commence with Darwin's (mis-titled) *Origin of the Species* (more accurate: *Origin of Species from Other Species*). In the 18th century alone, one only need recall the British/Scottish Rationalist/Moral Sense school, d'Holbach's and Bonnet's materialist reductionism, Leibniz' pre-established harmony between consciousness and matter, or Lessing's ugly ditch. Johann Nicolaus Tetens' (1777) *Philosophische Versuche über die menschliche Natur und ihre Entwicklung* was on Kant's desk as he wrote the *Kritik der reinen Vernunft*.<sup>2</sup> The issues (not the technology, to be sure) of today's morality and neurobiological reductionism are at the core of Tetens' debate with Charles Bonnet. Tetens' project on the nature and development of humanity is a defense of the complementarity of "evolution" (preformation) and "epigenesis" (novelty), which is engaged by Kant in his discussion of teleology and morals later in the *Critique of Judgment*. At issue is causal explanation. Are causal explanations analytic (grounded merely in perception) or synthetic (requiring the mind to add imperceptible elements to perception)? This paper engages Kant's *a priori* synthetic argument for understanding causal order in nature (physical necessity) as well as causal order in the novelty of creative freedom (self-legislated moral necessity) when it comes to humanity's capacity to initiate a sequence of events that nature cannot accomplish on its own. The significance: Humans are moral beings because they can be, not because they must be – and this makes all the difference.

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<sup>1</sup> Special thanks to Prof. James R. Cochrane, Emeritus Professor of the Department of Religious Studies in Cape Town, SA, for his careful reading and helpful suggestions. I alone, of course, am responsible for any errors.

<sup>2</sup> Fom Marie Luisa Allemeyer, „Kein Land ohne Deich--!": Lebenswelten einer Küstengesellschaft in der Frühen Neuzeit (Göttingen: Vandenhoeck & Ruprecht, 2006): 215, n. 192.

## Preface

Experience teaches that, before launching into a Kantian project, it is valuable to identify at least some of the misleading and downright erroneous prejudices that have currency among Kant readings. For all of the following, there is a legitimate and well-grounded Kantian counter-response that undercuts interpretations that argue:

- 1) That there is a direct line from Kant to Nazism (see Bergson's "Two Kinds of Morality and Religion" in the on-line Stanford Encyclopedia of Philosophy and Michael Mark's *German Idealism and the Jew* [Chicago, 2003]).
- 2) Science: That Kant is trapped in a Newtonian and Euclidean worldview (Alasdair MacIntyre)
- 3) That Autonomy means exclusively Western Individualism (Postcolonialism)
- 4) That *a priori* synthetic judgments are illusions (Vienna Circle)
- 5) That Kant posits a dualism between transcendental consciousness and empirical world (not the dualism identified by Heidegger between "empirical intuition" and "pure intuition" though Heidegger's assertion of a Kantian dualism is also erroneous)
- 6) That he engages in constructivism (laws of nature are merely our construction) and violates of the "Principle of Significance" (= empiricism) (Strawson)
- 7) That Absolute Morality is an illusion; there is only cultural relativism (Habermas)
- 8) That freedom is only freedom of choice rather than creativity (Hegel, Searle)
- 9) That ethics are irrevocably compromised by self-interest (Schelling)
- 10) That ethics requires you to betray your best friend (an incomplete reading of Kant's example of lying)<sup>3</sup>
- 11) That Kant succumbed to doctrine of original sin in *Religion within the Boundaries of mere Reason* by his claim for "radical evil" (Goethe, Ricoeur).

Although it is not possible here to address all of the Kantian counter-responses that can be made to these points, it is enough to alert the reader to particular misplaced prejudices that may otherwise stand in the way of understanding what follows.

## Introduction

The Western tradition can be viewed as a drunken sailor staggering back and forth between Rationalism and Materialism. The 18th century was no exception. Descartes' 17<sup>th</sup> century proposal of two substances (mind and matter) framed the discussion of the 18th century.

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<sup>3</sup> Kant gives two accounts of the temptation to lie to someone at the door. One is in his *On a Supposed Right to Lie from Philanthropy* AA VIII: 426-427, where the lie to the murderer at the door results in the death on the street of the person purported to be protected by the lie; and in the "Doctrine of Virtue" of *The Metaphysics of Morals* AA VI: 431, where the lie at the door results in the person purported to be protected leads to that very persons committing a murder on the street. Both cases serve to illustrate one's control over the principle one acts on but lack of control over its consequences because consequences are incalculable.

Rationalism was represented by the British Earl of Shaftesbury<sup>4</sup> and Scottish “moral sense” philosophers such as Francis Hutcheson<sup>5</sup> and Adam Smith,<sup>6</sup> and Materialism was represented by the French-German Paul-Henri Thiry, Baron d’Holbach, and the Swiss Charles Bonnet.<sup>7</sup> The middle terrain was occupied by Leibniz, who defended the notion of a pre-established harmony,<sup>8</sup> which held that God preserved the incessant correspondence between the mental and the material worlds in a parallel complementarity. In his *Über den Beweis des Geistes und der Kraft* (1777), however, Lessing spoke of the “ugly ditch” that remained for which “accidental truths of history can never become the proof of necessary truths of reason,”<sup>9</sup> which formulated the problem in a manner that privileged Rationalism. However, the distinction between accidental and necessary truths opened the door for Immanuel Kant to provide an ingenious solution to the relationship between the phenomenal (material) and the transcendental (including the moral) dimensions of experience. This is his so-called Copernican Turn.

Kant may not have accomplished his Copernican Turn were it not for the work of Johann Nicolaus Tetens, whose *Philosophische Versuche über die menschliche Natur und ihre Entwicklung* (1777) shifted the focus from substances (mental or material) to capacities. Tetens went beyond the Lockean notion that ideas are derived from experience to stress that *the mind had to contribute something* to the formulation of ideas more than merely observing an aggregate of particulars.<sup>10</sup> If not a trigger, Tetens’ discussion of what consciousness must *add to* the phenomena in order to judge what they are,<sup>11</sup> constituted a confirmation for Kant of the notion of

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<sup>4</sup> See Anthony Ashley Cooper Earl of Shaftesbury, *The Moralists, a Philosophical Rhapsody*, vol. II of *Characteristicks* (London, 1733 (1711)), 181–443.

<sup>5</sup> See Francis Hutcheson, *An Inquiry into the Original of Our Ideas of Beauty and Virtue; In Two Treatises: I. Concerning Beauty, Order, Harmony, Design; II. Concerning Moral Good and Evil* (London: J. Darby, A. Bettesworth, F. Fayram, J. Pemberton, C. Rivington, J. Hooke, F. Clay, J. Batley, and E. Symon, 1726).

<sup>6</sup> See Adam Smith, *The Theory of Moral Sentiments* (Indianapolis: Liberty Fund, 1982).

<sup>7</sup> For a discussion of d’Holbach and Bonnet, see Johann Nicolaus Tetens, *Philosophische Versuche über die menschliche Natur und ihre Entwicklung* (Leipzig: M.G. Weidmanns Erben und Reich, 1777).

<sup>8</sup> See G.W.V. Leibniz, *Monadology and Other Philosophical Essays* (Indianapolis: Bobbs-Merrill, 1965).

<sup>9</sup> Gotthold Lessing, *Lessing’s Theological Writings*, Henry (trans) Chadwick (Stanford, CA: Stanford University Press, 1967), 53.

<sup>10</sup> See Tetens, *Philosophische Versuche über die menschliche Natur und ihre Entwicklung* I, 322–23. Tetens’ discussion of the impossibility of getting from an aggregate to a universal is exactly the theme one finds ubiquitously in Ernst Cassirer’s work. See Cassirer’s *Substanzbegriff und Funktionsbegriff* (Berlin: Bruno Cassirer, 1910) and *Das Erkenntnisproblem in der Philosophie und Wissenschaft der neueren Zeit*, 4 vols. (Darmstadt: Wissenschaftliche Buchgesellschaft, 1994).

<sup>11</sup> See *Philosophische Versuche über die menschliche Natur und ihre Entwicklung* I, 136, 139, 156, 162, 164, 220, 224, 226, 235, 299, 303, 305, 321, 325–27, 437, 512–13. Obviously, not a tangential theme for Tetens.

*a priori* synthetic judgment. However, synthetic judgment here does not consist in identifying a “synthesis” between a thesis and antithesis (as Hegel sought to do). In contrast, an *a priori* synthetic judgment adds elements that are not directly given in the thesis and/or antithesis, which make understanding possible. This, of course, raises the issue of which elements are to be added? The Copernican Turn provides the strategy for answering precisely this question.

Furthermore, in addition to the mind’s capacity to *add something to* the phenomena in order to understand them, Tetens confirmed another cornerstone for Kant’s sobering of our sailor: The second volume of Tetens’ work is devoted to the notion of humanity’s *creative freedom* above, but never separate from, nature. This form of efficient causality is anticipated in Descartes’ distinction between eminent and formal causality, and it had been praised by Kant already in his *Vorlesung zur Moralphilosophie* of 1774/5 so that one cannot suggest that Kant has the notion from Tetens, but Tetens, again, is a valuable ally for Kant’s defense of this “second” causality over against Ferdinand Christian Wolff’s monistic Materialism that claimed there can be only “one” causality governing the world.<sup>12</sup>

These two themes (*a priori* synthetic judgment and two kinds of efficient causality) provide the framework for an understanding of the relationship between evolution as preformation (the emergence of a form out of the already given elements in the seed/embryo; we would say DNA) and epigenesis (the development of *a new form* out of a seed/embryo; we would say as a consequence of species variation). Although Tetens is not talking about the emergence of a new species from a given species, he does emphasize that there is more involved in organisms, particularly with the occurrence of consciousness, than a merely inorganic process. He argued for the necessity of combining evolution and epigenesis,<sup>13</sup> which is not far from what Darwin meant by “evolution” of species based on the givenness of a species *plus* species variation, in order to properly account for the development of organisms. Kant agrees with Tetens especially when it comes to understanding all that is added to physical phenomena by consciousness.<sup>14</sup> Tetens’ thesis with respect to the development of organic phenomena is entirely compatible with his insistence that mental experience and personal creativity both involve capacities “above” inorganic nature and that it is what is more than mere inorganic nature that makes us moral beings.

It was Immanuel Kant, however, who turned skepticism with respect to these issues into a strategy of hypothetical and categorical *necessity* by arguing that: 1) there is no experience

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<sup>12</sup> Tetens, *Philosophische Versuche über die menschliche Natur und ihre Entwicklung* I, 136, 139, 156, 162, 164, 220, 224, 226, 235, 299, 303, 305, 321, 325–27, 437, 512–13. Again, obviously not a tangential theme.

<sup>13</sup> See *Philosophische Versuche über die menschliche Natur und ihre Entwicklung* (Leipzig: M.G. Weidmanns Erben und Reich, 1777), II:445, 465, 497, 479, 500, 512, 515, 519, 521, 526, 535, 536, 537, 548, 549. An equally central theme for Tetens.

<sup>14</sup> This is the central theme of the “Second Part: Critique of the Teleological Power of Judgment” that concludes Kant’s *Critique of Judgment* and leads to a further formulation of the “moral argument for God” on the basis of human creative freedom and the moral order that it presupposes.

without appearances (empirical intuition); 2) causal explanations are *a priori* synthetic judgments; 3) all causal systems have an order to which they must conform; and, 4) just as we must presuppose an order of natural law that governs physical nature so, too, we must presuppose an order of moral law that governs humanity's creativity. Although Kant agrees with Francis Hutcheson that morality brackets personal interest, he shifted the focus of morality from Hutcheson's concern for utilitarian consequences (over which, Kant argued, we have no control<sup>15</sup> and which would require possession of omniscience to calculate them<sup>16</sup>) to concentrate on that over which we *do have* control: the selection of moral principles to govern our actions.<sup>17</sup> This moral capacity is something, it appears, that only humanity is capable of adding to its experience of the physical conditions of life. It is no more reducible to the physical conditions of life alone than is our grasp of concepts or of beauty<sup>18</sup> in nature.

### Appearances and Hypothetical Necessity

The lesson of the Copernican Revolution (CR) in astronomy is that the appearances are not what establish the truth of a judgment through the mere confirmation or contradiction of our claim about those appearances. Rather, our claim must conform to the invisible order that governs those appearances because our judgment can require (as in the case of Copernicus) the very denial of our sense experience. In short, the significance of the CR is not that we've been displaced from the center of the physical universe but that *humanity is at the center of the epistemological universe*.<sup>19</sup> We are the species capable of "seeing things that are not there" in the phenomena, namely, the invisible orders of the physical and the moral, so that everything depends upon what it is that we "see."

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<sup>15</sup> See *Groundwork of the Metaphysics of Morals* AA IV: 399-400. Furthermore, Kant proposes that duty has a worth "*without regard for the ends*" because ends and their objects inspire *inclination* but never *respect* in light of the fact that ends and their objects are "effects and not an activity of a will." See *ibid.*, AA IV: 400. See as well, *Religion within the Boundaries of Mere Reason* AA VI: 4\*. Kant proposes in the first preface to *Religion* that it can only be our hope that there is a connection between the categorical and the contingent, and it is precisely this connection, which, among other elements, requires belief in (but no proof of!) God (AA IV: 6\*).

<sup>16</sup> See *Groundwork* AA IV: 418. In part, the inadequacy of happiness as the goal of morality is that it is incalculable and malleable. See *Groundwork* AA IV: 399.

<sup>17</sup> See *Critique of Practical Reason* AA V: 80-82 and *Groundwork* AA IV: 437-438.

<sup>18</sup> Experience of what Kant calls "free" beauty in nature is extraordinary because it involves a universal judgment without a concept that we hold, nevertheless, to be normative. See *Critique of Judgment* AA V: 214-216, 219, not a play of unity in sensations 224-225, 227-8, 244-245, although beauty "[...] has its ground in the object [...] it does not indicate the relation of the object to others in accordance with concepts [...]" 279, 286-287, 338, 340-341, 341. (Trans. CUP) This capacity is what makes our experience of free beauty a symbol for the moral because it ennobles and elevates us and encourages our esteem of others. See *Ibid.*, AA V: 353-354.

<sup>19</sup> See Ernst Cassirer, *An Essay on Man: An Introduction to a Philosophy of Human Culture*, reprint, 1944 (New Haven: Yale University Press, 1962), 15.

Even without having to invoke the twelve categories of the understanding sketched by Kant in the *Critique of Pure Reason* B 106, one can illustrate the ubiquitous invocation of imperceptible elements in understanding by observing everyday pragmatic activities. *If I wish to build a house* (the hypothetical starting point of my activity), then there are certain steps that I must *necessarily* follow if I am to be successful. Not only must I know what materials are appropriate to the enterprise, I must also possess the appropriate skills and tools, and I must follow a certain sequence (e.g., I can't begin by hanging the roof in the air). All of these elements to the project are anchored in the imperceptible that, in turn, governs the perceptible (e.g., the imperceptible mathematics governing the construction of the Parthenon; or the superior gift by Athena of the horse harness in contrast to Poseidon's gift of a well that constitutes the scene of the west pediment).

The fact that we experience only appearances, then, is no hindrance to our discernment of the understanding of materials, skills, tools, and sequences necessary for us to accomplish a hypothetical task. Most education is concerned with such technical necessity. However, the intangible plays an equally significant role when it comes to preparing ourselves for a particular career. I choose a career, hopefully, not only because it will bring me financial security (tangible things like houses and food) but also because it will bring me personal satisfaction (intangible things like meaning and purpose). However, selection of a career is also a submission to hypothetical necessities. *If I want to become a truck driver* (the hypothetical starting point of my career), I don't go to medical school. It is necessary that I go to truck driving school.

The world of appearances is no chaotic realm of confusion, but it is a world governed by hypothetical necessities that we must learn to "see even if they are not there in the appearances." The heart of the pragmatic worldview is imperceptible hypothetical necessity.

### Affects and Causes

One of the few occasions where Kant explicitly identified his indebtedness to a fellow philosopher was his acknowledgement that David Hume woke him from his dogmatic slumber.<sup>20</sup> Hume's observation that we only experience effects, not causes, is a crucial step further along the pathway of the Copernican Turn in Kant because it forces the recognition that our causal explanations are our constructions for explaining how events occur as they do. The test for one's causal explanation is *not merely the appearances* and certainly not merely the pragmatic successes that our causal explanations might bring to the phenomena, but, rather, the internal,

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<sup>20</sup> See *Prolegomena* AA III: 260, although he criticized Hume for never having considered that causal explanations are not derived from experience but are the condition of possibility for experience: "[The] complete solution of the Humean problem, albeit contrary to the missing but presumed solution by Hume himself, rescues the *a priori* origin of the concepts of pure understanding and the validity of the general laws of nature as laws of the understanding but in a fashion that their application is limited to only experience. This is because the possibility of these laws of understanding have their ground in the relationship of understanding to experience: not that they can be derived from experience but, rather, [the understanding of] experience is derived from, which allows for a completely opposite connection [between laws and experience], which never occurred to Hume." (*Ibid.*, AA III: 313) (Trans. McG)

lawful coherence and totality of the system of causal explanation itself. Once again, it is the imperceptible that we add to our investigations, not merely the perceptible, which makes all the difference between an instinctual and an understanding response to stimuli.

### Causes and Nocturnal Dreams

In his First Meditation, Descartes grounded his skeptical methodology, in part, on the claim that we experience the same “clarity and distinctness” of perception in dreams as we do when we are awake. Again, Kant’s Copernican Turn reverses the focus away from the *content* of the perception to an investigation of its *conditions of possibility*.

What distinguishes the dream from our waking state, Kant insists, is that the dream does not *conform to a system of predictable causality*<sup>21</sup> whereas the waking state does. The *necessary* presupposition of all understanding is that every system of causality is anchored in an order or in rules/maxims. If we give up this presupposition, then we have no basis for our continued search for understanding. If we embrace this presupposition, then our ever-expanding development of the invisible, coherent system of causal explanation will reward us with ever more thorough and richer understanding of our experience.

### Creativity and Categorical Necessity

Extra-ordinary (yet, all too ordinary) about humanity is its ability to initiate a sequence of events that nature cannot accomplish on its own. As with physical causality, this form of efficient causality must be assumed to have its own set of rules. No more than that the appearances of the physical world are encountered as a chaotic whirl of disorderliness, neither is creativity a rule-less, blind spontaneity. However, the rules governing the efficient causality of creativity are not (entirely) the same as those governing physical events. In the latter an order functions blindly and mechanically to determine events. In contrast, to the extent that creativity is not reducible to mechanical causality, the only system of order compatible with that which is above, but complementary, to nature would have to be self-imposed. That is precisely what distinguishes the moral from the physical order.

In other words, unlike the *hypothetical necessities* that shape our technical and pragmatic goals, our creative freedom consists of a system of *categorical necessities* that we must impose upon ourselves if we are to appropriately exercise this extraordinary efficient causality.<sup>22</sup> These necessities are categorical in the sense that they are *neither a product of natural causes nor driven by a goal or interest established by any particular (hypothetical) situation*. One might counter that one can only exercise one’s creative freedom in a particular situation, which is entirely correct. However, the rules governing one’s creative freedom are not derived from one’s particular situation as are the rules/laws one must follow to construct a house or pursue a career.

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<sup>21</sup> See *Critique of Pure Reason* B 247, B 479, *Prolegomena* AA III: 290, and *Metaphysik Mrongovius* XXIX: 860–61.

<sup>22</sup> On the difference between hypothetical and categorical imperatives, see *Groundwork* AA IV: 414 ff.

Decisive, though, is that because both orders (hypothetical, categorical) are systems of causal explanation, we are not in a position to *prove* one or the other, simply because we cannot experience these causes directly, only indirectly through their effects. Although it might appear to be the case, the physical order has no priority in this regard over the moral order because in both cases we are not concerned with appearances but with the *conditions of possibility* for the appearances. In both cases, if we approach our experience as if it is not a dream but governed by these two complementary systems of order, we will not only be more successful in our efforts, but also we will experience a kind of satisfaction that can only be experienced by *doing the right thing because it is right* and not because it satisfies some interest. This is the central theme that Kant obtained from (or applauded in) Francis Hutcheson although Hutcheson applies in “Treatise I” his rejection of self-interest by means of a utilitarian calculus<sup>23</sup> (consequentialism) and Kant, again, turned the spy glass around to emphasize not the calculation of consequences but the rightness of moral principles ( frequently labeled deontology from the Greek, δέον, which means “that which is binding” although as far as I know, Kant never used the label deontology for his work).

### **Morality in Spite of Interests**

Kant’s categorical moral system, though, must be appreciated in light of the Copernican Turn, as well. Succinctly, it is not that we must know in order to act, but, rather, we know *because* we act. So it is that Kant’s three criteria of the Categorical Imperative (CI), which are 1) act on the basis of a maxim “as if” a universal law, 2) treat others and self as an ends and not mere means, and 3) recognize each individual as an autonomous self-legislator of moral principles,<sup>24</sup> do not sketch out what would be an impossible set of requirements for the individual to satisfy *before being able to apply a moral maxim to one’s actions* – what Jennifer Uleman calls John Rawls’, Christine Korsgaard’s, and Onora O’Neil’s “cold fish” view of the categorical imperative.<sup>25</sup> Rather, given the fact that we *cannot not act*, the three forms of the CI are imposed by the individual upon her-/himself by the very condition of her-his action. The “universal law” criterion is required to rein in personal interest in one’s actions, which is necessary if one is to act on the basis of a maxim merely because it is right; the “ends not means” criterion is required because of the dignity of each individual as a unique source of efficient causality; and the “self-legislating” criterion is required because no form of causality is independent of a system of rules so that every rational being must be capable of legislating moral principles for her-/himself. In other words, the conditions and capacities that require us to act also provide us with categorical criteria for the exercising of those conditions and capacities.

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<sup>23</sup> See *An Inquiry Into the Original of Our Ideas of Beauty and Virtue; In Two Treatises: I. Concerning Beauty, Order, Harmony, Design; II. Concerning Moral Good and Evil*, 182f, 288f.

<sup>24</sup> Described in Section II of the *Groundwork*.

<sup>25</sup> See Jennifer K. Uleman, *An Introduction to Kant’s Moral Philosophy* (Cambridge: Cambridge University Press, 2010).



The elephant in the room here is dualism. Rawls and company insist on a categorical “purism” that maintains that there can be no contamination of interest in the selection of one’s moral principles. If that were possible, creative freedom and its categorical imperatives would belong to a purely “transcendental,” intelligible world that was independent of the empirical world of empirical intuition. This reading is by no means novel; it stands at the core of Schiller’s critique of Kant’s moral theory.<sup>26</sup> However, it is nonetheless already explicitly dismissed by Kant.<sup>27</sup> *Morality without any interest is analogous to objectivity without subjectivity.* As we have seen, the Copernican Revolution instructs us that objectivity is not established by our explanation conforming to the empirical appearances but, rather, by our explanation conforming to a coherent imperceptible system of causal explanation in principle capable of development into a totality of causal explanations for all experience – to be sure, not independent of appearances!

Morality can no more separate itself from interest than the Copernican Revolution can separate itself from the appearances that contradict it. However, the objectivity of the CR is anchored in an invisible physical order. The same is true of morality: it is anchored in an invisible moral order – different, to be sure, from the invisible physical order.<sup>28</sup> “Pure” interest would be our interest in the reality of these two invisible orders – yet, note: these are both invisible orders that we can experience only because we are in a physical world as Kant clearly announces in the very opening lines of the *Critique of Pure Reason* B 33-34. Without such a “pure” interest in invisible orders, we could neither understand the physical world nor hold ourselves accountable to moral principles. However, precisely because this “pure” interest is inseparable from realm of sensed appearances, such “pure” interest is susceptible to subreption (eclipsing and even denying “pure” self-interest) by taking the senses to exhaust experience.<sup>29</sup> To the degree that we embrace objective subreption, we delude ourselves into holding the opinion that objective understanding is achieved exclusively by and even moral principles are derived from the senses. However, we can experience neither objective reality nor morality

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<sup>26</sup> See Otfried Höffe, “‘Gern dien ich den Freunden, doch tue ich es leider mit Neigung...’-- Überwindet Schillers Gedanke der schönen Seele Kants Gegensatz von Pflicht und Neigung?” *Zeitschrift für philosophische Forschung* 60, no. 1 (Januar-März 2006): 1–20.

<sup>27</sup> See in particular the opening of Section II of the *Groundwork*.

<sup>28</sup> On physical and moral teleology see §87 of the *Critique of Judgment*.

<sup>29</sup> Kant defines “subreption” as the “[...] substitution of a respect for the object instead of for the idea of humanity in our subject [...], which [...] makes clear [anschaulich] the superiority of the rational vocation of our cognitive faculty over the greatest capacity for sense perception” (the *Critique of Judgment*, AA 5, 257; see also the *Critique of Pure Reason* [B 53]) and *Metaphysik Mrongovius* (XXIX): 771. Kant defined subreption already in 1770 in the *Inaugural Dissertation* AA II: 412-414, but it is also found in the *Critique of Pure Reason* A 389; A 402; B 537, B 647. However, note what Kant says in the *Prolegomena* (AA IV: 293): “My idealism concerns not the existence of things (the doubting of which, however, constitutes idealism in the ordinary sense) because it never occurred to me to doubt the existence of things, only the mere perceptible representation of things [...]” (Trans. McG)

without *both* the “intelligible” and the “physical” worlds. *There is no dualism here! There is only one world of appearances viewed from two different perspectives* (i.e., two invisible orders). The issue is not how we anchor theoretical reason exclusively in the external world and how we anchor practical reason exclusively in the internal world, but, rather, what does the fact that we cannot not act teach us across both orders about capacities, conditions, and responsibilities that we must *necessarily* possess in order to be the species that we are?

### **Morality and Evolution: A Matter of Faith not Knowledge**

The *assumption* of Materialists is that *there must be a causal monism* that can explain all events both material and immaterial. John Searle is among the most vociferous defenders of such a monism.<sup>30</sup> He allows us to maintain the illusion of free will by arguing that, when it comes to our sense of free will, we experience a “causal gap” in our monistic explanation. There are two serious problems with his account: 1) it presumes that other causal explanations besides free will are provable; and 2) he does not distinguish carefully enough between free will and creative freedom.

To 1): As certain as we may be about our causal explanations of nature, the lesson from Hume is still valid: we do not experience causes, we only experience effects. Furthermore, the “proof” of a causal explanation is nothing that one can establish by sense experience alone as Copernicus teaches us. The senses deceive, and objectivity is a matter of coherence within an invisible physical order. Causal explanations cannot be “proved” in the senses. Hence, they are explanatory wagers (a version of non-epistemic faith), not absolute knowledge.

To 2): Free will must be distinguished from creative freedom to the extent that free will is the liberty to choose between and among existing options whereas creative freedom is an efficient causality that can initiate a sequence of events that nature cannot accomplish on its own.<sup>31</sup> In the “Doctrine of Right” of the *Metaphysics of Morals*, Kant distinguishes between “choice” (*Willkühr*) and the “faculty of the will” (*Wille*) as follows:

The faculty of desire whose inner determining ground [...] lies within the subject’s reason is called the *will* [*Wille*]. The will is therefore the faculty of desire considered not so much in relation to action (as choice [*Willkür*] is) but rather in relation to the ground determining choice to action. The will itself,

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<sup>30</sup> See John R. Searle, *Freedom & Neurobiology: Reflections on Free Will, Language, and Political Power* (New York: Columbia University Press, 2007).

<sup>31</sup> An example of the failure to make this distinction, which results in a complete distortion of Kant, is Ralf Stoecker’s analysis of Kant’s notion of autonomy. Because Stoecker only considers the notion of “liberty” rather than “creative freedom,” he can conclude that children, the mentally handicapped, comatose, and elderly suffering from Alzheimer’s are not autonomous beings. See Ralf Stoecker, “Die philosophischen Schwierigkeiten mit der Menschenwürde -- und wie sie sich vielleicht lösen lassen,” *Information Philosophie* 1 (March 2011): 13.

strictly speaking, has no determining ground; insofar as it can determine choice, it is instead practical reason itself.<sup>32</sup> (Trans. CUP)

To the extent that the difference between liberty (mere choice/*Willkür*) and freedom (*Wille*) is blurred, one introduces confusion into the discussion of freedom and autonomy. My liberty to choose between an SUV and a hybrid can be manipulated by corporate advertising and public opinion so that my belief that I freely chose the hybrid might be an illusion. However, my ability to initiate a sequence of events out of my own causal initiative (*Wille*) is as close as one can get to what Kant calls a “fact of reason,”<sup>33</sup> although the ideas of reason (God, Freedom, and the Soul), Kant tells us, as with causality, are inaccessible to the senses (i.e., cannot be empirical facts). If we deny our creative freedom (*Wille*), then we must regard ourselves as mere automatons of physical processes or marionettes.<sup>34</sup> To the extent that freedom is something far more profound than mere choice, then, it is not to be confused with liberty (*Willkür*). One can be robbed of one’s liberty (*Willkür*), but one’s freedom (*Wille*) can never be lost as long as one lives. The difference has empowered individuals to survive hardly comprehensible traumas of incarceration and torture as well as prejudice, oppression, and injustice.

Causal monism insists that morality must emerge as a strategy of species adaptation and survival.<sup>35</sup> As if causes were substances, the thought that there could be two kinds of efficient causality has been viewed by monists as the horror of dualism. Yet, we can invoke mutually interacting causes to account for a situation without fragmenting the world into multiple, metaphysical orders. The interaction of multiple medications in the treatment of a patient is an example.

As noted above, Johann Tetens proposed that the physical development of an organism can be governed by two processes: evolution and epigenesis. The former under the rubric of preformation (like DNA) programmed the development of the physical form of the organism; the latter acknowledged that the occurrence of new forms required a causal dynamic that consisted of more than the original evolutionary program. At the least with the emergence of consciousness, then, one must take into consideration all that consciousness *adds to* its processing of data as well as its creative freedom if one wishes to properly account for the organism.

Kant shares Tetens’ championing of “preformation” and “epigenesis” over divine “occasionalism” [Intelligent Design] in which God would have decided what each creature was

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<sup>32</sup> *The Metaphysics of Morals* AA VI: 213.

<sup>33</sup> See *Kritik der praktischen Vernunft*, 36–37, 122, and *Kritik der Urteilskraft* (Hamburg: Felix Meiner Verlag, 1974), 353.

<sup>34</sup> See *Kritik der praktischen Vernunft*, 117, 169.

<sup>35</sup> See Richard Dawkins, *The Selfish Gene* (New York: Oxford University Press, 1976) and Michael Poole and Richard Dawkins, *Science and Christian Belief* 7, no. 1 (1995): 45–58.

to be by a special act.<sup>36</sup> What could be taken as a (rare) dogmatic claim by Kant is his famous assertion that “... it would be absurd ... to hope that there may yet arise a Newton who could make comprehensible even the generation of a blade of grass according to natural laws that no intention has ordered; rather, we must absolutely deny this insight to human beings.”<sup>37</sup> However, he curtails his dogmatism in the usual manner by observing, as well:

We can by no means prove the impossibility of the generation of organized products of nature through the mere mechanism of nature because[,] since the infinite manifold of particular laws of nature that are contingent for us are only cognized empirically, we have no insight into their primary internal ground, and thus we cannot reach the internal and completely sufficient principle of the possibility of a nature (which lies in the supersensible) at all.<sup>38</sup> (Trans. CUP)

Not only have we no insight “into their primary internal ground,” but also the assumption of such a teleological causality in nature would undermine our very capacity to seek explanatory grounds in nature:

It is of infinite importance to reason that it not allow the mechanism of nature in its productions to drop out of sight and be bypassed in its explanations [by a divine teleological intentionality]; for without this no insight into the nature of things can be attained.<sup>39</sup> (Trans. CUP)

In fact, the introduction of Intelligent Design destroys science:

[...] if one brings the concept of God into natural science and its context in order to make purposiveness in nature explicable, and subsequently uses this purposiveness in turn to prove that there is a God, then there is nothing of substance in either of the sciences, and a deceptive fallacy casts each into uncertainty by letting them cross each other’s borders.<sup>40</sup> (Trans. CUP)

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<sup>36</sup> See §81 of the *Critique of Judgment* and Kant’s discussion of *generatio aequivoca*, *generatio univoca*, *generatio homonyma* [epigenesis], and *generatio heteronyma* [special creation] in *Ibid.* AA V: 419\*.

<sup>37</sup> *Critique of Judgment* AA V: 400. He repeats this assertion on page 409, and in *Vorlesungen über die philosophische Religionslehre* (Leipzig: Bei Carl Friedrich Franz, 1817), 115, he makes the same claim with respect to a moth.

<sup>38</sup> Kant, *Critique of Judgment* AA V: 389.

<sup>39</sup> Kant, *Critique of Judgment* AA V: 410..

<sup>40</sup> *Critique of Judgment* AA V: 381. See further, AA V: 397: “The concept of a causality through ends (of art) certainly has objective reality, as does that of a causality in accordance with the mechanism of nature. But the concept of a causality of nature in accordance with the rule of ends, even more the concept of a being the likes of which is not given to us in experience at all, namely that of a original ground of nature, can of course be thought without contradiction, but is not good for any dogmatic determinations, because[,] since it cannot be drawn from

*Blind commitment to causal monism is as destructive to the understanding of the human condition and, particularly, morality as is the Special Creation of Intelligent Design.* These conclusions do not come from our ability to disprove either causal monism or Intelligent Design. *Because both are concerned with causal explanations, there is and can be no proof or disproof of either.* However, what is decisive is not an external proof or disproof but the consequences of both causal claims for our capacities and the conditions under which it is possible for us to experience the world as we do. Causal monism reduces humanity down to a product of the blind, mechanical causality of the physical world. Intelligent design not only undermines our confidence in the coherence and consistency of physical causality by insisting upon a causal agency entirely independent of that physical order, but it also completely undermines our moral efforts demanded by our creative freedom above, but never independent of, nature. Instead of acting on the basis of a moral principle merely because it is right, we transform our moral efforts into seeking to please this supersensible divine agent, and we develop sophisticated strategies by which we believe we are able to manipulate this divine agent. Personal interests trump moral effort.

When it comes to determining origins, we have two options: we can speak of temporal origin or of an origin of reason.<sup>41</sup> To seek a temporal origin for our creative freedom is a contradiction because its very categorical nature is beyond temporality. An origin in reason, given the limits to our reason, can at best consist of an assumption. One adjudicates among assumptions on the basis of their consequences for the conditions of possibility of our experience, whatsoever, and of our capacities. Kant has turned our exclusive dependence upon appearances for our theoretical understanding into a virtue because the very condition of possibility of our creative freedom (and moral responsibility) would be compromised were we to have direct access to the things themselves.

Here we have the suggestion that experience requires that we invoke both *nature* and *more than nature* if we are to adequately understand ourselves and the world. This is true of causal explanations in general and of our experience of creative freedom and morality in particular. Involved here, though, is more than merely the claim that we capriciously construct what we add to *nature* in order to understand experience. Further elements are required in order to understand any “empirical” epistemology: a) methodological skepticism (what Kant calls the **“Discipline of Pure Reason”** in his “Transcendental Method” at the end of the *Critique of Pure Reason*); b) a shift from substances to functions (what Kant calls the **“Canon of Pure Reason”**);

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experience and is not requisite for the possibility of experience its objective reality cannot be guaranteed by anything. But even if it could be, how could I count things that are definitely supposed to be products of divine art among the products of nature, whose incapacity for producing such things in accordance with its laws is precisely that which has made necessary the appeal to a cause that is distinct from it?” (Trans. CUP)

<sup>41</sup> See *Religion Within the Boundaries of Mere Reason* AA VI: 39-40.

and c) the coherent, unified totality of lawful functions (what Kant calls the “**Architectonic of Pure Reason**”).<sup>42</sup>

A brief examination of each is valuable here:

- a) **The “Discipline of Pure Reason”** or Methodological Skepticism: Kant provides a succinct account of the three steps of methodological skepticism in the *Critique of Pure Reason* B 789:

The first step in matters of pure reason, marking its infancy, is *dogmatic*. The second step is *skeptical*; and indicates that experience has rendered our judgment wiser and more circumspect. But a third step, such as can be taken only by fully matured judgment, based on assured principles of proved universality, is now necessary, namely, to subject to examination, not the facts of reason, but reason itself, in the whole extent of its powers, and as regards its aptitude for pure *a priori* modes of knowledge. This is [...] the *criticism* of reason, whereby not its present *barriers* [*Schranken* (not *Schränken*) here is better translated as bounds (McG)] but its determinate [and necessary (N.K. Smith)] *limits*, not its ignorance on this or that point but its ignorance in regard to all possible questions of a certain kind, are demonstrated from principles, and not merely arrived at by way of conjecture. Skepticism is thus a resting-place for human reason, where it can reflect upon its dogmatic wanderings and make survey of the reason in which it finds itself, so that for the future it may be able to choose its path with more certainty. But it is no dwelling-place for permanent settlement. Such can be obtained only through perfect certainty in our knowledge, alike of the objects themselves and of the limits within which all our knowledge of objects is enclosed. *Critique of Pure Reason* B 789 (Trans. N.K. Smith)

*Critique* shifts the focus of epistemology from the objects of our knowledge to concentrate on the *a priori* subjective conditions of possibility that are *necessary* (not capricious) in order for us to experience empirical objects in the first place. For this reason, skepticism is the crucial step that calls all merely dogmatic, objective certainties into question to open the path to *critique*.

The skeptic is [...] the taskmaster who constrains the dogmatic reasoner to develop a sound critique of the understanding and reason. When we have advanced thus far, we need fear no further challenge, since we have learned to distinguish our real possessions from that which lies entirely outside them [...] While [...] the skeptical procedure cannot of itself yield any *satisfying* answer to the questions of reason none the less it *prepares the way* by arousing reason to circumspection, and by indicating the radical measures which are adequate to secure it in its legitimate possessions. *Critique of Pure Reason* B 797 (Trans. N.K. Smith)

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<sup>42</sup> See “II. Transcendental Doctrine of Method” in the *Critique of Pure Reason* B 735-879.

b) **The “Canon of Pure Reason”**: Once the Copernican Turn to *critique* has been accomplished, one is concerned to substitute lawful functions for any and all substance aggregations of objective subreption.

One does not arrive at “true” judgments simply by opening one’s eyes. All understanding and knowledge depends upon our ability to identify the imperceptible, lawful relationality that governs but is concealed by merely objective phenomena. Today, even the natural sciences tend to be reluctant to speak of natural laws. However, mathematics, statistical significance, and algorithms seek to identify the functional order of phenomena. Ernst Cassirer wrote: “The general form of function, indicated by the letter  $f$  [in  $f(x)$ ], constitutes a sharp distinction from the values of the variable  $x$ , which are taken to be ‘true’ values in this function. Function establishes the relation among these values, but it itself is not one of those values: the  $f$  of  $x$  is not homogeneous with the sequence of  $x$  (that of  $x_1, x_2, x_3$ ).”<sup>43</sup> (Trans. McG)

Kant identified two “domains” of lawfulness<sup>44</sup>: nature and freedom. Theoretical reason identifies the functional regularities of empirical phenomena whereas practical reason applies broad, moral principles in its assumption of responsibility for its unique causality “above” nature.

c) **The “Architectonic of Pure Reason”**: Nonetheless, functionality is insufficient to establish *necessity*. In addition, one needs to presuppose a coherent, unified totality of lawful functions.

The totality of lawfulness is what makes possible *reflecting* judgment’s confidence that it can discern a coherent lawfulness in both nature and freedom that unites theoretical and practical reason. This is the crucial step of the third *Critique*. In the first *Critique*, Kant has suggested that it remains to address the “unknown root of the imagination”<sup>45</sup> that bridges the “gap” (*Kluft*) between the lawfulness of theoretical and practical reason. The *Critique of Judgment* does not provide an absolute bridge because there can be no absolute proof/disproof of causal explanations, but it assigns to *reflecting* judgment the task of seeking the functional concepts according to which we can understand both the phenomena of nature and of freedom,<sup>46</sup> though only analogically (AA V: 181), because the metaphysical lawfulness of nature and of freedom are not the same. It is judgment with its “respect for the law” and not merely imagination that grounds experience, understanding, agency, and responsibility.

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<sup>43</sup> Ernst Cassirer, *Philosophie der symbolischen Formen. Dritter Teil. Phänomenologie der Erkenntnis* (Darmstadt: Wissenschaftliche Buchgesellschaft 2002): 346.

<sup>44</sup> See the *Critique of Judgment* AA V: 174-176.

<sup>45</sup> *Critique of Pure Reason* B 30.

<sup>46</sup> See the *Critique of Judgment* AA V: 179-181.

Kant insisted, when it comes to seeking understanding of our experience, that we should pursue as far as is possible “mechanical” explanations of physical phenomena before turning to speculative explanations because, as far as we have or can experience, all of our “supersensible” (not super-natural) capacities have a material fundament even when those supersensible capacities rise “above” nature.<sup>47</sup>

However, Kant drew a clear distinction between understanding nature/biology and exercising agency over nature/biology. Our supersensible capacities are indispensable when it comes to *understanding* the imperceptible, functional order of phenomena because the functionality that governs phenomena is not directly given in phenomena. Functionality is heterogeneous to phenomena.

When it comes to exercising our *agency* on the basis of our grasp of imperceptible functionality, if consequences (outcomes) are the only focus for comprehension and testing the validity of our grasp of functionality, humanity profoundly ignores the transcendental grounds for the functioning of its own rationality and dangerously oversteps its rational limits. For in addition to consequences and outcomes, Kant pointed out in the “Transcendental Doctrine of Method”, rationality depends upon the “discipline of pure reason” in order to discern the functionality in the phenomena in the first place **as well as** the “canon of pure reason” (morality grounded in practical reason) and the “architectonic of pure reason” (the systematic totality of imperceptible, awfulness). Whereas the canon of pure reason (practical reason’s moral order) can be grasped and cultivated *exclusively internally* by the individual, to be sure with the supportive assistance of a community that grasps the significance of the invisible order of theoretical and practical reason, the architectonic of pure reason extends by definition beyond the resources of finite reason. Our grasp of the systematic coherence of functionality is limited to the horizon of our understanding, and we deceive ourselves if we don’t recognize that “the more we understand, the less we understand.”

With an amazing prescience not unlike his recognition that autonomous freedom gives us the power to destroy nature, Kant warned against “[...] external, artificial [when it comes to] modifications in the original prototypes of genera or species.”<sup>48</sup>

If I allow even one case of this kind, it would be as if I also conceded the validity of a ghost story or sorcery. Reason’s barriers would be punctured by this one case, and delusion would rush through the same hole for thousands of others [...] All such adventurous incidents share without any difference that no experiment confirms them, but they are only confirmed by the grasping after random perceptions. What they all are [...] is nothing but delusion and fiction. These are my reasons why I cannot embrace such explanations that basically feed the

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<sup>47</sup> See *Critique of Judgment* AA V: 383, 387-388, 415, 418, 429.

<sup>48</sup> *Determination of the Concept of a Human Race* AA VIII: 96-97.



rapturous slippery slope of magic: namely, that the manipulation of [proto-]types, even only accidentally, which doesn't always succeed, can always be capable of effecting other causes than those that are already present in the prototype and capacities of the genus itself.<sup>49</sup> (Trans. McG)

Furthermore, material monism will never be able to be proved, and if it were at all possible to prove what is imperceptible, it would eliminate what we must *assume in order to be human beings*. In the absence of either proof or disproof, we must engage in a wager of faith that we are creative beings and that we are, thereby, responsible for those capacities we possess and what we intend in using them in sequences of events that nature cannot accomplish on its own.

The canon of pure reason reminds us that the investigation of evolution is not an exception to the necessity of observing natural processes, but more than nature, in order to account for organic development. Tetens and Kant recognized that the preformation of organic phenomena needed the novelties of epigenesis for there to be species development – without pre-given order and “species variation” there can be no organic development (i.e., no evolution). Darwin presupposed the givenness of species as the condition for natural selection, and one can describe (similar to Tetens) the process of natural selection as the product of given species (preformation) and species variation (novelty) that make it possible for adaptations to occur that result in the generation of new species. As a consequence, one can claim an analogy between evolution and our moral capacity. Formally, the analogy is expressed: *species variation (epigenesis) : evolution (preformation) :: creativity (moral responsibility) : nature*.<sup>50</sup>

The contemporary discussion over evolution and morality is framed by a debate between two metaphorical contexts (one sociological, the other mathematical): 1) between Hamilton/Dawkins/Dennet (selfish genes) and Midgley (social importance) that is in the headlines most recently, as 2) between “kin selection” theory (Hamilton/Dawkins/Dennet) and “eusociality” theory (Nowak/Tarnita/Wilson).<sup>51</sup> Dawkins and Dennet follow the materialist explanation of the evolution of morality proposed initially by William Hamilton that views altruism as the life-enhancing strategy of kinship genes seeking to preserve themselves in contrast to Midgley's thesis that morality involves a far more complex social system than mere genetic individualism. Midgley recognizes that the social factor adds something to the evolutionary mix of humanity that she defends in an almost Durkheimian sense: the condition of possibility of humanity is society.<sup>52</sup> The Nowak/Tarnita/Wilson “eusociality” theory is a mathematical modeling of gene function that suggests that genes are not so much influenced by

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<sup>49</sup> *Bestimmung des Begriffs einer Menschenrasse* AA VIII: 96-97.

<sup>50</sup> Species variation (is to) evolution (as) creativity (is to) nature.

<sup>51</sup> Reported in the *Boston Globe* (April 17, 2011); Wilson/Nowak/Tarnita, “The Evolution of Eusociality” in *Nature* 466 (26 August 2010): 1057-1062.

<sup>40</sup> See Mary Midgley, *The Solitary Self: Darwin and the Selfish Gene* (Dublin: Acumen Press, 2010).

other genes of the same kind as by the “context” (Midgley would say “social system”) in which the gene is embedded.

For the purposes of the present project, two observations are significant: 1) Given the ambiguities of the relationship between DNA and RNA (the latter once having been dismissed as mere “junk”), one must observe that what is taken in genetic theory to be *an explanatory* is in fact *a descriptive* science. Metaphors (e.g., “transcription” and “translation”) are too easily turned into literal terms that conceal the fact that the novel, causal moment of variation is a profound mystery. The very terminology of “epigenesis” continues to be used in evolutionary theory as a metaphor for novelty.<sup>53</sup> 2) Genetics is a mathematical discipline clearly confirmed by Nowak, Tarnita, and Wilson’s article on eusociality. This is not only a confirmation of Koyré’s thesis<sup>54</sup> that the scientific revolution of the 16<sup>th</sup> and 17<sup>th</sup> centuries is a crossing of Aristotelian metaphysics (form in matter) and Platonic physics (mathematics) in place of Platonic physics (form without matter) and Aristotelian physics (the combination of perceptible elements), but it is also a confirmation of Kant’s claim that theoretical reason (i.e., natural science) is primarily an *a priori* synthetic reason because mathematics is *by definition an a priori* synthetic form of knowledge.<sup>55</sup> Mathematical formulae or statements are not given with the phenomena that they are meant to describe.

The two perspectives of kin selection and eusociality are capable of being united by Kant’s theoretical reason and practical reason. The selfish gene may well explain some of the phenomena of species development, as theoretical reason can argue, but it cannot account for all that in development that must be *added to* the phenomena for us to be who we are as a species. If we are to have an account of evolution that is adequate, we must include both preformation and novelty; material conditions and creativity. In other words, evolution presupposes novelty, and in humanity we encounter novelty of an extraordinary kind: a novelty that is “above” but “not inseparable” from nature’s blind causality.

Kant encourages us to reject mere blind, mechanical evolution and the speculations of Intelligent Design to embrace an understanding of the human condition that includes both evolution (preformation) and epigenesis (novelty): *nature and more than nature*. When it comes to humanity, then, evolution presupposes a moral capacity, not vice versa, and we must each yet *become* human through the exercise of this higher creative capacity. It is the key to human dignity: *We are moral beings not because we must be but because we can be*. Denial of this capacity is misanthropic.

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<sup>53</sup> See Tim R. Mercer, Marcel E. Dinger, and John S. Mottick, “Long Non-Coding RNAs: Insights into Functions,” *Nature Reviews Genetics* 10, no. 3 (2009): 156–57.

<sup>54</sup> See Alexander Koyré, “Galileo and Plato,” *Journal of the History of Ideas* IV (1943): 400–28.

<sup>55</sup> See *Critique of Pure Reason* B 746, 758; *Prolegomena*, AA III: 283; *Metaphysik Morgovius* XXIX: 973; *What Real Progress Has Metaphysics Made in Germany since the Time of Leibniz and Wolff?* AA 20: 323.

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