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Eve Preserves Humanity's Blueprint; Adam Drives Its Evolution

Eve's Oocytes (Eggs): Genetically Stable to Safeguard Heritage;
Adam's Sperm: Dynamically Unstable to Drive Evolution

N.B.
The Arabic version of this article is the reference. Read it via one of the following links:


لآدمَ فعلُ التَّمكين، ولحوَّاءَ حفظُ التَّكوين!

They declared: Adam only begins producing sperm at puberty, while Eve's ovarian reserve is fixed at birth. Adam's sperm production persists throughout life, while Eve's precious reserve dwindles monthly. Adam's reserves never deplete, but Eve's treasures soon vanish.

They said it and departed. Without reason or justification, they uttered it and were content. They uttered it truncated, without elaboration in a sequel or a conclusion. They said it, and left confusion to devour the minds of readers and the thoughts of questioners. For no beginning is valid without its end, just as no truth exists without a consequence that traces its path. Did they not know there is no futility in the creation of the Merciful? That premises cannot exist without outcomes shrouded in secrets? How, then, could they abandon it—and us—without a conclusion to heal, without any revelation?

My Reflections:

Eve endures pregnancy, nursing, and upbringing. How can her delicate body and sensitive soul bear such burdens? Thus, her Creator shortened her fertile window, aligning it with her prime strength. He tempered her excessive reproductive zeal.

As for her limited eggs, her reserve suffices for countless children. Unlike Adam, she spends her reserve prudently, releasing few monthly. One egg suffices for a full dose of hardship. Even if blessed with lifelong fertility, her reserve exceeds need.

Yet one mystery endures: Why are all her oocytes formed during her embryonic stage? Why not delay this, like Adam's sperm production?

Adam's sperm-generating cells (spermatogonia) lie dormant until puberty. Similarly, Eve's eggs-producing cells (oogonia) could remain inactive until maturity. What wisdom lies in forming her eggs so early, while she is still a fetus?

Critical Note:

Eve's oogonia begin meiosis I during her embryonic stage. Meiosis II completes at puberty. Each menstrual cycle, dormant oocytes resume development. One oogonium yields one oocyte and three polar bodies.

This detail doesn't alter the narrative's purpose or accuracy, so I omitted it earlier.

Deliberately and calmly, I say:

The Creator is not devoid of wisdom and planning in the orchestration of His creation's affairs. The Almighty, has perfectly ordained what must come to be. As for us, the believers, our duty is but to seek out the purposes and intents until we reach the truth—or what we deem to be truth, at the very least. This is what I strive for in every endeavor I undertake, and my sufficiency in this is diligent effort and discernment.

Thus, I perceive that Eve hastened to establish her reserve of eggs out of concern for safeguarding humanity from unforeseen adversities. For she was made aware of the cell's vulnerability during phases of division and reproduction. And she was informed that within them lay the potential for an external will to tamper and alter fundamental traits at will—traits that could jeopardize the very essence of humankind in its entirety. Creation is a sacred trust, and its stewardship is vigilantly guarded. There is no room for error in preserving humanity's existence in the primordial state it was fashioned in—the state willed by its Creator.

In the ovaries—while Eve was yet a fetus in her mother's womb—the oogonial cells divide, each yielding a single oocyte. Thereafter, the oocytes encyst themselves, each within its own follicle. Then, they all enter a prolonged dormancy, lasting beyond birth until the dawn of puberty. At that time, periodically, some of the dormant ones awaken, initiating a life cycle and an opportunity for fertilization—and perhaps a

birth that enriches the world with a new human. A new human endowed with the traits of the species and the defining characteristics of humankind.

Thus, within the womb of the mother, Eve found security and sanctuary to fulfill her entire mission. Time does not stretch out before those who lie in wait or seek to meddle. Thus, the core genes of humanity remain shielded from alterations, and with them, the foundation that distinguishes the human species remains beyond all distortion or substitution—or nearly so.

Had the Almighty willed for her a process akin to Adam, her partner in life—delaying egg production until puberty and beyond—the window of potential peril to genetic integrity would have spanned far longer. Then, those lying in wait might have succeeded in genetic tampering here and modification there, unleashing a catastrophic threat to the defining traits of the species and humankind. Over ages, such genetic variations could accumulate, until humanity no longer resembles the humans of yesterday—or perhaps even those of today.

Counterargument:

One might argue: "But Adam, too, is exposed to such potential peril. He produces sperm ceaselessly, minute by minute, hour by hour. The spermatogonial cells never cease dividing at every moment to generate functional sperm. And these, as we know and as you've described, follow the same system of division and proliferation. They, too, would undergo what occurs in oogonial cells. Thus, the opportunity for a meddling intruder would recur perpetually, with every cellular division."

I say: Yes! It is so. Science confirms such genetic incidents—termed mutations. The eye continually observes numerous genetic deformities and aberrations in Adam's sperm. Nevertheless, I assert that the danger to humankind is negated. Nay, I say more: these mutations and genetic anomalies may harbor beneficial aspects and even noble functions in empowering the human species.

For the sperm's journey is a race of selection, where only the most resilient and harmonious with life's laws prevail. Most mutations—whether harmful or redundant—perish in this gauntlet, while rare advantageous ones may slip through, enriching the genetic tapestry. Thus, the Creator's wisdom manifests in this duality: a dynamic equilibrium where risk is tempered by rigor, and imperfection becomes a tool for refinement. The integrity of humankind remains safeguarded, not through

stagnation, but through a covenant of balance—between preservation and evolution, between the immutable and the adaptive.

We shall elaborate on these benefits and gains in due time—do not leap ahead of words. For now, let us delve into the first matter: the absence of danger to humankind from such genetic variations, as the organism possesses ingenious mechanisms for monitoring and correcting when necessary. I shall expound on all of this, beginning with:

***First**, in control and governance, I say—starting with the act of fertilization. Reaching the egg and fertilizing it is a monumental feat, preceded by a long and arduous journey. Only the strongest, healthiest sperm hold the greatest chance of traversing the arduous ascent to the queenly egg. Thus, there is no fear of aberrant, weak sperm reaching such distant thresholds—let alone their near-certain failure to fertilize the egg even if one slips through after immense struggle, as I will swiftly detail.*

Now, suppose one of these aberrant sperm defies the odds, breaches the obstacles, and ultimately reaches the egg. Suppose it violates the egg's sanctity and forcibly fertilizes it. ***What then? How does the organism resolve this emergent crisis?***

I say: Fear not. The egg is not devoid of means and wisdom to rectify. A healthy egg, if it finds the genetic deviation falls under the acceptable spectrum of mutations—posing no imminent or eventual threat to humankind—may reluctantly proceed with the pregnancy. Yet it reserves the right to object and halt at any moment if deviations contradict the hoped-for design. Often, genetically aberrant pregnancies are miscarried at some developmental stage. Frequently, their offspring are sterile, leaving no lineage. Thus, the ripple effect on humankind is severed, and the act of sabotage ends with the aberrant individual, never transcending it.

You may now grasp the necessity of keeping eggs as insulated as possible from genetic mutations. Pregnancy is a partnership between egg and sperm. Ensuring one partner remains free of mutations is the sole guarantee of preserving the species' defining traits. If both were mutable, the loss of the species' identity—sooner or later—would be an irrevocable inevitability in the eyes of the wise.

Eve's egg is akin to the hardware of a computer—it defines the system's core identity and species-specific traits. Adam's sperm are the operational software, carrying

updates to enhance efficiency and speed. What was cutting-edge software in antiquity becomes sluggish and obsolete in our era, necessitating perpetual updates and adaptations. Failure to evolve would relegate the species to obsolescence in the face of competition, rendering it obsolete.

The necessary and sufficient condition for such updates and adaptations is their compatibility with the computer's hardware. Apply any software update you wish, but only those compatible with the hardware are accepted and operationalized. Those that conflict are rejected and discarded.

So it is with sperm: they perpetually update genetic traits to align with the demands of their time and environment, delivering these updates to the eggs—the guardians of species identity. Each sperm carries its unique genetic "patch notes." If the update aligns with the egg's genetic specifications, the pregnancy proceeds. If it violates the oocyte's standard protocols, the project is aborted. The fertilized ovum dies immediately or after a few cell divisions.

Conversely, if you alter both hardware and software—updating and modifying both—you inevitably create a new class of device, incompatible with its predecessors in species or kind. Identity is lost, and you must then seek a new name for your novel creation. Reflect!"

(In Parentheses)

At times, certain mutations of ill repute and effect slip through the mechanisms of regulation and control. It may also occur that their carrier is a fertile individual capable of progeny. In such cases, these mutations either:

1. *Fail to transmit genetically from parents to offspring,*
2. *Are passed down in a recessive form with minimal impact and prevalence,*
3. *Or, if potent and lethal, terminate their host prematurely—curtailing their spread.*
4. *Alternatively, if strong yet non-lethal, they entrench themselves as unwelcome fixtures within an entire afflicted lineage.*

***Second**, concerning benefits and empowerment, I proceed. For not all mutations fall under the ledger of harm or threat to humankind. Some genetic variations carry*

immense good for their human host. Others emerge as necessities, granting greater advantage and adaptability to prevailing environmental conditions. And as holds true for humans, so it does for all other creatures—partners in existence.

Were it not for mutations, skin would not darken to repel solar rays in one clime, nor lighten to absorb them in another. Were it not for them, hair would not coarsen for ventilation and cooling in the former, nor grow lush and flowing for insulation in the latter. But for them, fair-skinned folk would burn under equatorial suns, and dark-skinned ones would falter in northern cold. The protective means enjoyed by modern humanity are luxuries of the present. In ages past, the organism alone managed affairs of defense and empowerment—suppressing one trait here, amplifying another there. Thus, generation upon generation, specific traits come to define the inhabitants of one region, while others dominate the lineages of a distant land.

"Do you now grasp the imperative for one partner—male or female—to remain the focal point of genetic variation? Humanity is bound to an unknown destiny. It has endured long, and we know not how much longer it shall persist. Countless other creatures once existed, only to fade into oblivion. They failed to conquer life's shifting demands and transcend time's relentless trials, thus retreating into extinction.

In this light—and most often—a mutation is an act of intent and insight orchestrated by the organism, compelled by the urgency of adaptation and the necessity of empowerment. It is the conscious rearrangement of life's alphabet to forge novel words never before spoken. In other terms, it is the deliberate amplification of certain genetic sequences and the erasure of others—all in service to the species, its survival, and its unyielding mandate to adapt and endure."

(In Parentheses)

Thus, I refute the notion of mutation as random and unconscious. I do not fully align with those who espouse such claims. It is neither a stroke of luck—born of chance and error—nor a capricious, irresponsible force that occasionally succeeds but often fails. Yes! At times, the organism may stray and err in its course, yielding outcomes contrary to its intent. In such cases, deleterious mutations emerge, and the

organism must contend with this reality. For though the organism possesses innate intelligence and is endowed by God with flawless operational software, it remains a creation marked by inherent limitation and imperfection.

Believe it or not!

Adam is the progeny of genetic mutation and transgression—and so is Eve. Whether praised or lamented, mutation remains the very foundation of their existence as Adam and Eve. Through them, and with them, the human species has become a subject of ceaseless inquiry and debate, brimming with inspired brilliance and fiery contention. Through them, diversity in traits and attributes has been achieved as a tangible triumph. For the virtue of genetic diversity in enriching life's lexicon and multiplying its manifestations is well attested.

No discerning mind can overlook the role of sexual reproduction in reshuffling genes and redistributing traits. No descendant mirrors their ancestor in form or capacity. Thus, creation diverges and varies. Each generation is suited to its era, harmonizing with the environment of its dwelling and livelihood. What thrives in one age may falter in another; what aligns with one landscape may spell ruin in a harsher, wilder realm. I do not exaggerate when I assert Adam's pivotal role in assembling and selecting traits most attuned to the demands of time and the specifications of place.

If I claim this, it is not out of bias or ostentation toward Adam. Reality whispers of this role, and both theoretical and comparative science corroborate my assertion. In the animal kingdom, males contribute over 60% of the heritable traits to their offspring. Females do not diversify genetic traits, while males perpetually compete and clash. The victorious male claims all females of the tribe, fertilizes them, and disseminates his genes and traits across an entire generation. And why not? For these are the newest and finest traits, as proven by the trials of male rivalry and quality assessments.

Here, strength is the language of active genes and traits. They were imbued, by primal design, to equate strength with genetic excellence—a marker and proof. If you doubt my words, behold the evidence from the animal realm, where nature's unadulterated logic still operates.

An Example from the Realm of Unadulterated Nature:

Despite, their capacity to multiply and persist through asexual replication, bees, still bound to their primordial design, labor to produce an army of male drones. These drones live lives of idle indulgence. They neither gather nectar nor craft honey. They are not enlisted to defend or protect the hive. Nor can they carry pollen or pollinate flowers. Their existence is one of perpetual leisure—until the hour of reckoning arrives. They are reserved for a destined fate, inevitable and ordained.

When the moment comes, the queen—swift and unmatched—takes flight. Behind her trails the army of drones, long accustomed to luxury. They lived pampered, fed, and watered. Now, their purpose beckons. Reaching the queen is an act of struggle and toil. Many drones fall victim to weakness and incapacity.

In the end, a single male triumphs, fertilizes the queen, and dies a martyr of exertion. The queen returns victorious, bearing her precious cargo—a progeny born of the union between the finest eggs and the choicest sperm. She rebuilds her hive with a new generation: one most suited to her era, most fit for her domain.

Thus, drones are living laboratories of genetic refinement and innovation—labs of quality, dynamically interacting with their environment. They adapt to shifting spatial conditions and temporal demands. Each drone is an independent experiment: inputs converge, outputs diverge. The outputs are genes unique to each drone. After this "production," the practical test of genetic quality unfolds—a grueling race only those confident in their output can endure.

Does this not echo a parallel in humankind? Do sperm not race fiercely through that arduous ascent to reach the queenly egg? The swiftest and strongest among them fertilizes the egg, uniting the finest of Adam's sperm with the genes of Eve's ovum.

In this sense, Adam—like the drones—is a laboratory for the fabrication and enhancement of present and future genes. He absorbs environmental variables, amplifies inputs (his readings of lived reality), and, after rigorous scrutiny, distills conclusions into sperm endowed with genes tailored to necessity and demand.

But why is Eve tasked with preserving form, and Adam with enacting adaptation and empowerment? *I find no recourse but to remind: this matter belongs to the Knower of the unseen and the seen. Yet as I delve into it—driven by newfound insights that kindle my passion—I navigate the mysteries of creation undaunted. For a glimmer of light has pierced the enigma, and here I lay it bare before you.*

To me, it is a division of roles and functions. One preserves the core traits of humanity from dissolution; the other drives adaptation and empowerment. Both cannot be preservers, lest offspring mirror ancestors exactly, rendering the species extinct for lack of genetic renewal. Nor can both be perpetual adapters, lest humanity's essence erode with time. Soon, descendants would bear no resemblance to their forebears in form or substance. Adam was chosen for adaptation because he is more exposed to environmental pressures than Eve. To him fell the primordial duty of stewardship (qiwāmah), while Eve was endowed with the sacred charge of nurturing (qiyāmah)—innate and fervent.

Since time immemorial, Eve has sought refuge to shield herself and her offspring from nature's ravages and its inhabitants—human and beast. She hollowed caves for shelter, cloaked herself in leaves and branches for armor, and when means allowed, built homes: tents, huts, dwellings. Within these, she rested, crafting her cherished kingdom—pregnant, nursing, nurturing. Sublime are your deeds, Eve!

Like the bee queen rooted in her hive, she does not wander. Obsessed, she fills combs with eggs, uncompromising. Provisions are brought to her throne; security is her foremost bounty. She heeds not the harshness of place or the treachery of time, for another attends to these labors. How, then, could she update her genes to align with evolving eras and shifting environments? She entrusted this task to the one with freedom to absorb the land's essence and anticipate time's demands.

Thus, drones became the genius of bees' primal design—a solution for genetic renewal. They roam the land, inhale the zeitgeist, their delicate sensors capturing survival's terms. Their internal machinery manufactures needed genes, retaining the useful, integrating the novel. Each drone crafts its unique genetic updates. Then, selection unfolds through trials of strength: the fittest earns the queen's favor, and his genes harvest the hive's next generation.

Meanwhile, Adam treads life's arduous paths. He confronts obstacles, overcomes them. Hunts gains, secures them. Wrestles beasts—evading some, felling others. Skies rain upon him for ages; the noon sun scorches him long. He loses himself in land's twists and time's torments.

Nature was Adam's abode and livelihood. From it, he drew sustenance and character. He came to know time's moods, traverse land's contours. Such is the way of living organisms; such is existence's magic. Those who wish to endure in a world of flux must marshal their energies—exploring, adapting. What serves one era may doom in another. What sustains in one place may perish elsewhere. I cite bees because they abide by unspoiled instinct, while humanity—distorted from its primal nature—circles and schemes, ever estranged from its original design.

The Great Revelation

In this context, the Barr Body emerges as a pivotal agent in safeguarding the traits and essence of humankind. This chromosomal entity secludes itself early from other genes within the nucleus. Shortly after fertilization, as the female zygote (ovum) forms and undergoes initial cell divisions, the colossal X chromosome fortifies itself within a self-woven cocoon. It shields itself from meddling intruders or rogue mutations, adopting the name Barr Body thenceforth.

It is a grave error—a sin of ignorance—to deem it a mere 'inactivated X chromosome.' Confusion arose when it resisted conventional dyes, leading observers to assume dormancy. They falsely attributed Eve's femininity to the diminutive X chromosome (Small Chromosome X), which I reject outright. That chromosome is but a porter, devoid of sexual traits. The true custodian of sexual identity lies in the Barr Body—the Giant Chromosome X. Within it reside all secrets of human creation, male and female.

It is the Female Sexual Chromosome. Unfertilized, it resembles its peers in the oocyte's nucleus. Post-fertilization, it swiftly isolates itself, pious and vigilant, guarding its structure against parasitic interference. Its duties are monumental: preserving Eve's traits—and through her, the entire human species—as their vigilant guardian.

So long as Eve remains as she was primordially fashioned, humanity's defining traits shall never perish. Nay, I declare: the Barr Body has preserved its structure unchanged since entrusted to Mother Eve. She replicated it faithfully, bequeathing it as a sacred trust to all her daughters across time and space. No Eve born lacks it. Unchanging in form and function, it persists in Eve of yesterday, today, and tomorrow. Shielded in its impregnable fortress, it repels all harmful intruders. From its lofty tower, it oversees Eve's core traits, permitting only beneficial updates to humanity while thwarting those that threaten our species' essence. Reflect!

Note:

For full clarity, read the referenced article and video:
"Barr body, The Whole Story"

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In other contexts, you can also read the following articles:

- *The Spinal Reflex, New Hypothesis of Physiology*
- *The Hyperreflexia, Innovated Pathophysiology*
- *The Spinal Shock*
- *The Spinal Injury, the Pathophysiology of the Spinal Shock, the Pathophysiology of the Hyperreflexia*
- *Upper Motor Neuron Lesions, the Pathophysiology of the Symptomatology*
- *The Hyperreflexia (1), the Pathophysiology of Hyperactivity*
- *The Hyperreflexia (2), the Pathophysiology of Bilateral Responses*
- *The Hyperreflexia (3), the Pathophysiology of Extended Hyperreflex*
- *The Hyperreflexia (4), the Pathophysiology of Multi-Response Hyperreflex*

- *The Clonus, 1st Hypothesis of Pathophysiology*
- *The Clonus, 2nd Hypothesis of Pathophysiology*
- *The Clonus, Two Hypotheses of Pathophysiology*

- *The Nerve Transmission through Neural Fiber, Personal View vs. International View*
- *The Nerve Transmission through Neural Fiber (1), The Action Pressure Waves*
- *The Nerve Transmission through Neural Fiber (2), The Action Potentials*
- *The Nerve Transmission through Neural Fiber (3), The Action Electrical Currents*
- *The Function of Standard Action Potentials & Currents*
- *The Three Phases of Nerve transmission*

- *Neural Conduction in the Synapse (Innovated)*

- *Nodes of Ranvier, the Equalizers*
- *Nodes of Ranvier, the Functions*
- *Nodes of Ranvier, First Function*
- *Nodes of Ranvier, Second Function*
- *Nodes of Ranvier, Third Function*
- *Node of Ranvier, The Anatomy*

- *The Wallerian Degeneration*

- *The Neural Regeneration*
- *The Wallerian Degeneration Attacks Motor Axons, While Avoids Sensory Axons*
- *The Sensory Receptors*
- *Nerve Conduction Study, Wrong Hypothesis is the Origin of the Misinterpretation (Innovated)*
- *Piriformis Muscle Injection_ Personal Approach*
- *The Philosophy of Pain, Pain Comes First! (Innovated)*
- *The Philosophy of the Form (Innovated)*
- *Pronator Teres Syndrome, Struthers-Like Ligament (Innovated)*
- *Ulnar Nerve, Congenital Bilateral Dislocation*
- *Posterior Interosseous Nerve Syndrome*
- *The Multiple Sclerosis: The Causative Relationship Between The Galvanic Current & Multiple Sclerosis?*
- *Cauda Equina Injury, New Surgical Approach*
- *Carpal Tunnel Syndrome Complicated by Complete Rupture of Median Nerve*
- *Biceps Femoris' Long Head Syndrome (BFLHS)*
- *Barr Body, The Whole Story (Innovated)*
- *Adam's Rib and Adam's Apple, Two Faces of one Sin*

- *Adam's Rib, could be the Original Sin?*
- *Barr Body, the Second Look*

- *Who Decides the Sex of Coming Baby?*
- *Boy or Girl, Mother Decides!*
- *Oocytogenesis*
- *Spermatogenesis*
- *This Woman Can Only Give Birth to Female Children*
- *This Woman Can Only Give Birth to Male Children*
- *This Woman Can Give Birth to Female Children More Than to Male Children*
- *This Woman Can Give Birth to Male Children More Than to Female Children*
- *This Woman Can Equally Give Birth to Male Children & to Female Children*

- *Eve Saved Human Identity, Adam Ensured Human Adaptation*

- *Coronavirus (Covid-19): After Humiliation, Is Targeting Our Genes*
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- *The Black Hole is a (the) Falling Star?*
- *Mitosis in Animal Cell*
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- *Universe Creation, Hypothesis of Continuous Cosmic Nebula*
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