



ע"ש ד"ר מג'די אבו לטיף - على اسم الدكتور مجدي أبو لطيف - Named after Dr. Majdi Abo Latif

## DARWIN'S EVOLUTION THEORY AS A CONTINUATION OF THE BIG BANG THEORY

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### Abstract

*The theory is a supposition of notions intended to illustrate something specifically based on the general principle that rationalises the course of action. The big bang theory is an illustration of the universe's early creation. This theory gives an idea about the expansion of the inverse from a tiny to an extremely dense state including the hotness and coolness of the environment as well. Whereas, Darwin depicts that the species can develop over a period because the new species come from their parents which have common ancestors. Thus, the concept of expansion in both theories are same but one theory is based on an expansion of the universe and the other is based on the expansion of species. Therefore, the present study is aimed to examine Darwin's evolution theory as a continuation of the big bang theory. The problem of this study is based on the continuation based on the similarities and differences of both theories and provides the factors used for the process of continuation amongst both theoretical concepts. The qualitative research method has been used in this study as a process where data is collected by using secondary data collection sources. The analysis has been performed with the help of content analysis. It has been found that there is a possibility of continuation because both theories are based on the notion of expansion and can be studied further in order to provide connection amongst the similar things and contradiction amongst the different things. Darwin's evolution theory has a composite nature and a realistic way of working with natural selection.*

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### Keywords

*Darwin's Evolution Theory, Continuation, Big Bang Theory, environment, Natural Selection, species, Humans, Astrophysical, Cosmos, Birth.*



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## Introduction

### *Contextual Background*

It has been proposed by Darwin that species can change with the passage of time, that new species is the production of pre-existing species and that all other species have a sharing of the same ancestors. This type of theoretical model depicts that each species has its unique set of heredities (genetics) transformations from the common descendants which have amassed gradually over a longer period. When it comes to the depiction of evolution the basic notion of biological evolution is that species and populations of organism change with the period. Currently, it has been extracted by people through thinking about evolution one has probably been interested to link this concept with the specific person named British naturalist Charles Darwin (Richerson, Gavrilets & Waal, 2021).

Evolution has been depicted by Darwin as a descent with modification where the concept is clear about the species with the time as one gives birth to the other and the other gives birth to else and the cycle is created for turning. The mechanism proposed by Darwin for the evolution of the concept is natural selection. The reason for this is because in nature the resources are limited, and organisms with genetic traits that favour reproduction and survival that will direct to dispense more offspring in comparison to their peers, instigating the traits to enhance the frequency of compeers (Ludwig & Welch, 2019). In light of a study conducted by Patricelli, Hebets & Mendelson (2019), it has been addressed that the natural assortment causes populations to become well-suited are preferably adapted to their



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environments over time. The rationale for this is that natural selection relies mainly on the environments and requires current heritable changes in the group.

The other theory in this study is big band theory relies on the concept based on the physical theory that defines how the overall universe is prolonged from an initial state of greater temperature and density. Way back in 1927 almost a century ago the renowned astronomer Georges Lemaître had a great idea and depict that for a long time, the universe was initiated as just a single point. The universe is a bigger place and it is been around for a while it is examining how it all initiated is hard to imagine as well.

Numerous astrophysical models of the Big Bang depict the evolution of the noticeable universe from the earliest known times through its subsequent form of larger scales. The big bang is the depiction of how astronomers illustrate the roadmap through which the universe began. It is a notion that the universe began as just a sole point then stretched and expanded to develop as it is in the current stage and still it is stretching as well. It has been believed by scientists that the universe began, with every fragment of its energy congested into a miniature point. Therefore, it is an enormously dense point blasted with unimaginable force, originating matter and impelling it outward to produce the billions of congregations of this vast universe. This titanic blast is dubbed the big bang by Astrophysicists (Spremo, 2021).



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### ***Aim and Objectives of the study***

This study has focused on different depictions of both theories and aimed to recognise Darwin's evolution theory as a continuation of the big bang theory. To achieve this aim the objectives are premeditated that are tailored throughout the study.

To conceptualise Darwin's evolution theory in difference to the big bang theory.

To conceptualise the big bang theory as different to Darwin's evolution theory.

To understand the significance of Darwin's evolution theory and big bang theory alongside their continuation.

To highlight the point of continuation of Darwin's evolution theory in relation to the big bang theory.

To recommend the major points of Darwin's evolution theory as a continuation of the big bang theory.

### ***Research Questions***

The questions of the study are given as under which are answers throughout the study in order to reach the specific aims and objectives.

What is the concept of Darwin's evolution theory different from the big bang theory?

What is the notion of the big bang theory different to Darwin's evolution theory?

What is the significance of Darwin's evolution theory and big bang theory alongside their continuation?



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What is the point of continuation of Darwin's evolution theory in relation to the big bang theory?

What is the recommendation concerning major points of Darwin's evolution theory as a continuation of the big bang theory?

### ***Problem of Study***

As studied above these are two different theoretical concepts having different makeup of ideas, recommendations and thoughts. In light of a study conducted by Nastase & Skenderis (2020), it has been studied that there is a need for the evolution of different notions in science reflecting, new observations, relationships and explanations related to both theories which are Darwin's evolution theory and big bang theory. On the other side, there is also a need for theoretical resources comprising the contribution of different researchers in prior studies and the need for levelling up both concepts and the need for continuation in the big bang theory. There is a magnificence in this aspect of life with its numerous powers originally having respired into different forms or one and that whilst this globe has gone pedalling on bestowing to the fixed rules and regulations of gravity. Overall, from so simple and instigating endless forms most beautiful have been and are being developed under the theoretical construction of Darwin's evolution theory in continuation of the big bang theory (Vasconcellos et al., 2019). Therefore, the present study is based on the securitisation of the aforementioned problem reflecting the solutions, recommendations, outcomes, rationale and effectiveness of Darwin's evolution theory in continuation of the big bang theory. Throughout the study, the aforementioned problem



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has been focused on alongside the discussion through the usage of effective methods and materials.

### ***Rationale of Study***

Under this section, the reason to conduct this study has been justified in differences or similarities to other studies. The research proposed by Garte (2022) has addressed the simplification, continuation and paradigm-shifting in the concept of Darwin under the construction of biological evolution. The other study was undertaken by Wen (2021) it examined the research of American verbal humour in contradiction to the big bang theory and following the perspective of the cooperative principle. Considering the above studies there is a contradiction in the subject matters and identified problems therefore both studies have different sorts of rationale in the literature. The other research given by Prša (2019) is linked with the recognition of elucidation of sarcasm in the big bang theory mainly linked with the social science-based literature. Thus, the present study is entirely different in relation to the above studies because of its aim, objectives, construction of study, design, importance, applications and problems of study. Therefore, this is a new study in the literature addressing Darwin's evolution theory as a continuation of the big bang theory where all the concepts have been categorically discussed with critical aspects and have distinct features when it comes to identifying the specific continuation.



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### ***Significance of Study***

It is important to the study alongside its usage which can be bifurcated into two parts one is a practical type of significance and the other is theoretical significance. On the other side, it also refers to the contribution and the influence of study on the relevant research fields. The importance of the study also signals who can have the advantage from the existing research findings and its related future work (Naqvi et al., 2021). As this study is entirely based on theoretical perspectives involving the contradiction and similarities of two renowned theories which big bang theory and Darwin's evolution theory. Big bang theory has different applications in comparison to Darwin's evolution theory therefore when it comes to theoretical significance the outcomes of this study are helpful for future scholars who want to undertake a study on the most matched topic. Similarly, they have the facility to extract the problem for their study alongside the selection of proper methodology and critical evaluation of concepts in the literature review. Technically, the outcomes of this study are most important by looking at earlier studies similar to the current one this is something important to create the gap in the literature. The practical significance is linked with whether the result of the study is due to the practical significance and is linked to whether the outcome is important in the real world or not. Whereas, the results of this study will also be productive because they can be used in the examination, discussion, communicative meetings, speaking in a conference, mutual discussions and role modelling of an individual.



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## Literature Review

Darwin's theory is based on five major points comprising common descent, evolution, multiplication of species, gradualism and natural selection. In contrast, there are four major principles at work when it comes to evolution comprising variation, Inheritance, Selection and Time (VIST) and therefore it is also known as VIST evolutionary principle. The continuous evolution over numerous generations can result in the creation of new species and variety. Similarly, failure to progress in response to environmental alternations can and mainly does direct extermination. When evolution is a theory scientist speaks that the theory they do not mean it as similar is mere speculation (Clarage et al., n.d).

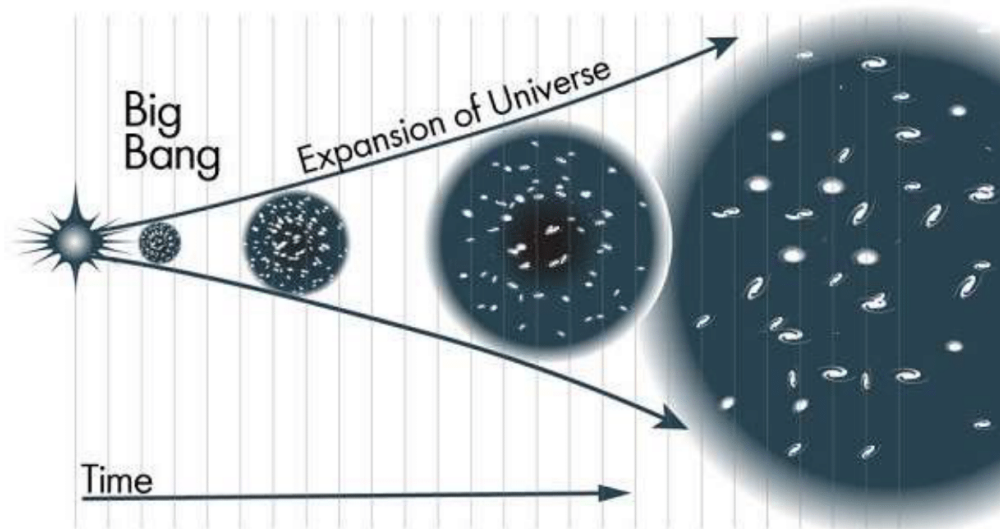


Figure 1: Big Bang Theory

Source: Busch (2022)





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The other related concept to the current study used for continuation is saltationism which is based on the discussion that arousal of new species is an outcome of greater mutations. Therefore, it was observed as a much greater-paced alternative to Darwin's concept of a gradual procedure of lesser random changes that are being replaced by natural selection (Jalalluddin et al., 2022).

In relation to the Different biologists of the 19<sup>th</sup> century and Darwin found convincing evidence for biological progression have been stated in the reflection of living organisms by portraying the geographical distribution as well as the fossil remnants of vanished organisms. Based on the continuation of big bang theory since Darwin's time, the evidence from these types of sources has become significantly stronger and become more comprehensive while there is a greater emergence of biological disciplines, physiology, biochemistry, genetics, ethology or animal behaviour and ecology. Contrary to this theory, it has been reinforced by Today (2021) that there is a greater role of molecular biology throughout evolution that has supplied powerful additional confirmations and detailed shreds of evidence. Eventually, the big bang concept has an underpinning in that the amount of evidence about evolutionary history present in the Deoxyribonucleic Acid (DNA) and the proteins of incarnate things is virtually not present as required. Therefore, it can be claimed based on Darwin's evolution theory that scientists can recreate any portion of the evolutionary life history by capitalising on present resources of laboratory and time (Broo, 2022).



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The related concepts have a major emphasis on the applications of both theories like the big bang or Darwin's theory of evolution employed in cloud computing. On the other side, the big bang theory is the prominent explanation for the initiation of the universe involving the critics, implementations and applications of the other presented concepts. For instance, Darwin supports nature and environmental science throughout evolution and the big bang in continuation also emphasises that the universe started with a dense and infinitely hot single point that is stretched and inflated. The different speeds that have been tested were first the unimaginable speed and after that, the more measurable pace has been developed and tested under the process of continuation (Hendy & Penny, 2020). Approximately, over the next, 14 billion years to the ever-growing cosmos that is known by the interested people are under evolution. The technology of the 21<sup>st</sup> century does not still permit astronomers to exactly peer back at the development or birth of the universe because immensely it has been understood that the formulation of the Big Bang comes from mathematical models and formulas. Nonetheless, astronomers can observe the echo of the enlargement through a different phenomenon recognised as the background of a cosmic microwave (Busch, 2022).



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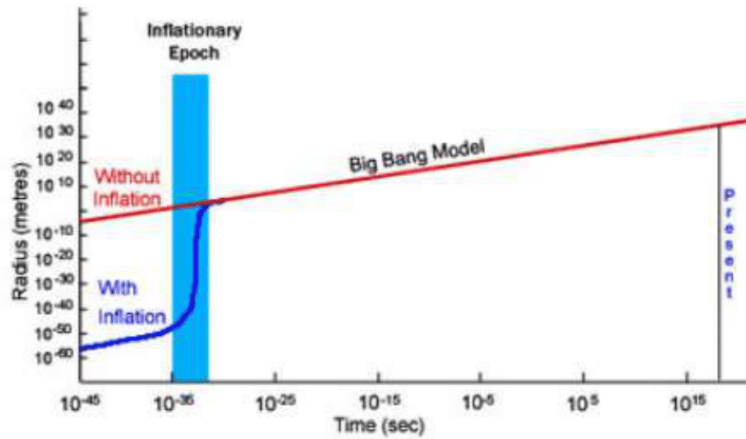


Figure 2: Big Bang Theory Universe and Time of Inflation

Source: Swin (2022)

It has been highlighted by Soham (2022) that while the majority of cosmological people accept the theory and depict that some theorists have distinct marginal descriptions and understandings of Darwin's evolution theory and big bang theory for instance an oscillating universe and eternal inflation. In the current controversies on evolution, there is an extraction of one frequency based on the reference examination treated to the concept of Darwin regarding evolution as if it were a unitary entity.



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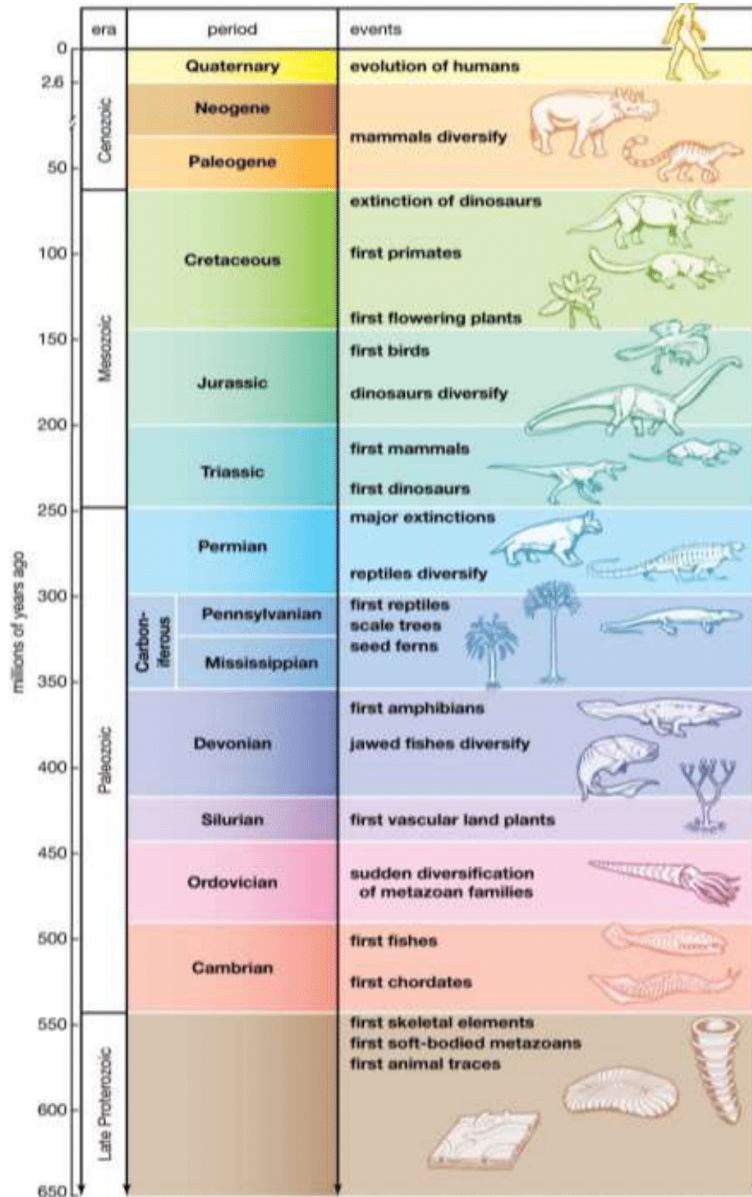


Figure 3: The Geologic Time Scale from 650 Million Years ago to the Current Stage  
Source: Ayala (2022)



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The aforementioned picture depicts the geologic time scale from 650 million years ago to the current stage and it's from the initial stage period of the quaternary to the Cambrian where the evolution of the first fishes has been noted.

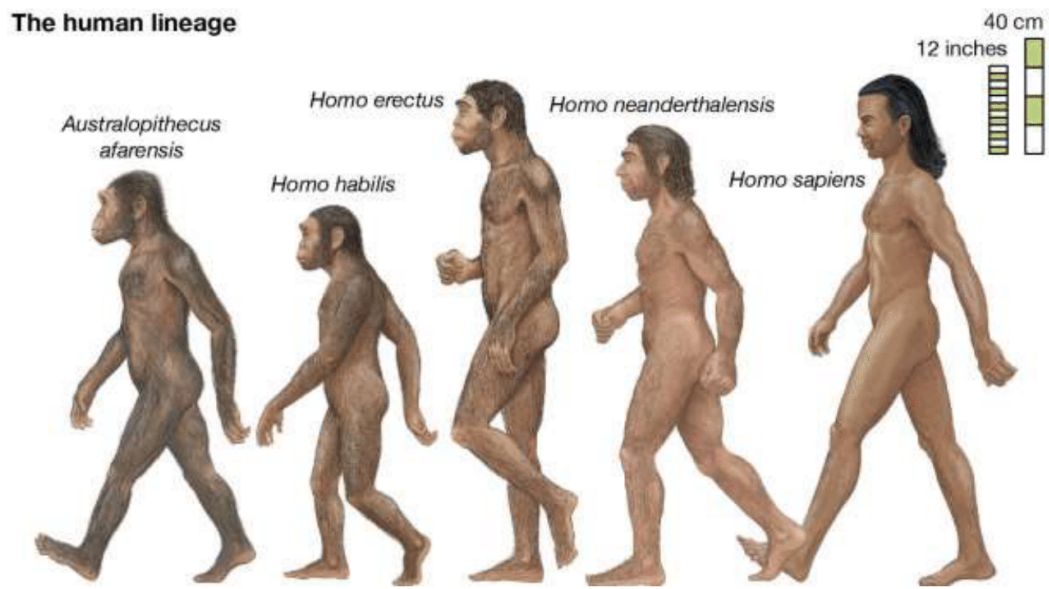


Figure 4: The Lineage of Human

Source: Ayala (2022)

The above-mentioned picture contains the human lineage reflecting the skeptical generations of Darwin in which the missing link is based on the deficiency of any known transitional forms between humans and apes which was a battle of cry.



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The first relativistic astrophysical model was given by Einstein in 1917 and it can be deliberated as the initiation or birthdate of modern cosmology. The modern model of cosmology is mainly linked with mentioned theoretical involvement as a big bang model. Currently, inflation is taken as a cornerstone of the standardised astrophysical model and focuses its role in the architecture and growth of the model.

The understanding of the terminology Darwinism is most important because it will be supported significantly by discrimination among numerous evolutionary concepts proposed by Darwin. The other reason for this discrimination is that one cannot answer the asked questions properly of how and when Darwinism is implemented in various countries throughout the globe unless people focus on the numerous theories distinctly.

The big bang theory is an explanation regarding the initial development of the universe therefore there is a possibility of continuation. Likewise, Darwin's this they also have support that the universe is extendable from extremely dense, intensely hot and very small. In relation to its expansion, it becomes less cool and also less dense. Therefore, the big bang model is taken to be the best model employed by astronomers to illustrate the creation of space, time and matter approximately 14 billion years ago (Swin, 2022).

### **Material and methods**

To examine the quality of the study the materials and methods are significant portions catered by the researchers. The quality of any research distribution product entirely depends on the usage of methods for processing the data for the study. The research



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philosophy is used in this study by making considerations based on suitability and effectiveness as it is segregated into three parts interpretivism, positivism and pragmatism. Positivism is used for the statistical measures, interpretivism is used for the detailed studies and pragmatism is the combination of both other approaches (Bianco, 2020). Similarly, the approach is also addressing about the beliefs of the study differentiated into two parts one is inductive and the other is a deductive research approach. This study is based on the integration of the inductive research approach because the deductive research approach is used for quantitative types of studies. The rationale for using this type is that it permits flexibility, reflects in a close context and supports creating a new theory (Maarouf, 2019).

Most crucial in the methodology is the design of the study used in the research which is bifurcated into three types i-e qualitative, quantitative and mixed research design (Watkins et al., 2020). The quantitative research design is about the numerical measures or study undertaken with the help of statistical data, whereas the qualitative is linked with the usage of detailed data which is descriptive and detailed in nature whereas the mixed research is an assimilation of the other two methods. The technique used in this study for evolution is the qualitative research design. The reason for choosing this technique is because it supports fulfilling the requirements of study easily and effectively because of its applications and relevancy. The qualitative research design is a type of inquiry that examines the information conveyed via the behaviour and language in natural settings. It is used to capture expressive information that is possible to convey through quantitative



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data about values, motivations, beliefs and feelings that underlie the behaviours of the previous researchers (Johnson et al., 2019).

In any research there are only two types of data collection one is the primary data collection technique and the other is the secondary data collection technique. The primary data denotes the first-hand data collected by researchers or their own by making strong efforts. On the other side, the data is gathered with the help of someone else earlier with the help of suitable tools and search strategies (Alberto & Raggi, 2021). The data about the recognition of Darwin's evolution theory as a continuation of the big bang theory is collected with the help of a secondary data collection method. The rationale for using this is that it is cost-effective and has strong availability because data can be collected at any time by using authentic and proper sources. This is because someone else gathered the data for their study and the researcher has not had to invest more effort, resources and time into the process of data collection. The sources used for data collection are books, journals, governmental records, magazines, blogs, authentic literature websites, newspapers and research papers (Kleinheksel et al., 2020). The data is examined with the help of content analysis. This tool is employed to examine the presence of specific concepts, themes and certain words within the qualitative secondary study. Considering the ethical consideration this study is undertaken by the researcher with honesty, integrity and loyalty. The information can be collected from various studies has been credited to the original writer with the help of proper citation. Hence, the major emphasis throughout the study is to be on the line and specific pathway towards the study following the objectives.





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## Results

The results can be extracted with the help of content analysis which is extracted through the critical evaluation of objective-based discussion which is examined as under:

*Objective 1: Darwin's evolution theory in difference to the big bang theory.*

In this modern era, there is strong support taken by scholars, researchers, scientists and science-oriented people by aiming to understand, implement and revamp the said utilisation. Therefore, it has been found that there is a greater need to study and understand the concepts like the big bang theory and Darwin's theory of evolution and to strengthen the overviews of past great scholars. There are four major points of Darwin's theory of evolution that individuals and species are not similar. Likewise, the traits are conceded from different generations to generations in which more descendants are born in comparison to their survival and only the survivors of the rivalry for resources will be reproduced accordingly. Ultimately, the changes in people provide them with some benefits of species members in the competition to reproduce and survive. Those beneficial traits will mainly be passed to the upcoming youth or the next generation. The given four points are the variation in populations, inherited traits, offspring competition and survival of the fittest.

*Objective 2: Big bang theory as different to Darwin's evolution theory.*

Considering the big bang in every species there is a change where this variability occurs between the linked individuals and the sibling changes in colour, weight, height and



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other characteristics. Each species has the determining traits by inheritance because the inherited traits are passed from the parents to the descendants. When it comes to the factor of offspring competing most of the species recreate more progeny every year in comparison to the environment and can support as well. This greater ratio of birth results in the contest amongst the members of species for the scarce available natural resources. Inclusive, the struggle for resources depicts the rate of mortality within the species. Only the surviving people pass and breed on their genes to the coming generations.

Conclusively, the fittest survival is found that some individuals survive the resource-based struggle as these people reproduce the subject matter. These individuals replicate adding their genetic factor to the subsequent generations. These procedures are recognised as natural selection where the situations in the environment result in the individual's survival with specific traits which are crossed through the inheritance to the next generation. Indifference to the big bang Darwin claimed that heredity matters a lot in stretching and strengthening the population, species and natural creation. Currently, this is reflected in the procedures recognised as a survival of the fittest Darwin used this phrase and was also credited to following the herbal spencer and biologist as its source.

*Objective 3: To understand the significance of Darwin's evolution theory and big bang theory alongside their continuation.*

In consideration of the real facts of the big bang theory Darwin's concept of evolution was a whole package of theories and it is not possible to define the evolutionary



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ideas of Darwin constructively if one does not have the capability or interest to differentiate the numerous factors of which it comprises. Interestingly, quite aside from the given overview, it supports comprehension of the structure of both concepts and their distinguishing elements to carry the examination to the stages of sub-theories adopted by Darwin in continuation to the big bang theory. Thus, it is important to acclaim the significance to portray thoughtfulness to the composite nature of Darwin's theory of evolution against the big bang theory by keeping possible continuation in mind. Results related to the continuation of the big bang theory give the identification of three basic pieces of observational evidence that directly support the evolution of the big bang theory. In which the measured profusions of elements are the key throughout the continuation processes like the observed increment in space and evolution of Cosmic Microwave Background (CMB). Throughout evolution, this concept denotes the unvarying distribution of radiation that permeates the entire universe.

Objective 4: *The point of continuation of Darwin's evolution theory in relation to the big bang theory.*

The major distinction between evolution and Darwinism that has been found in the continuation of the big bang is that the Darwinism theory of evolution has relied on natural selection whereas evolution is an alteration in the genetic composition of inhabitants over a successive birthing. Ultimately, Darwinism defines organic evolution which ultimately resulted in speciation (Bagdonas & Kojevnikov, 2021). Whereas, Darwinism as a theory



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has different attributes to the evolutionary alternations to the selection forces. However, the non-biologists have mainly employed the term more extensively. Similarly, the big bang theory also has various imaginations and portrays the facts of the previous, existing modern era.

On the contrary, it has been noted that the big bang model has its basics in the work of colleagues, Gamow and Lemaitre who by retreating the experiential growth continued that the universe must have an imitation of hot and dense dots which can be connected for further pressures. Considering the statistics it has been projected that the rates of both genetics and morphological evolution at the time of the Cambrian explosion were 5 times more in comparison to the current one which is faster but also it is perfectly dependable with the concept of Darwin's theory of evolution. This is further confirmed by Michael et al. (2022) that there is a need for the continuation of the big bang theory when it comes to observing the need for Darwin's evolution theory.

The other statistics related to the expansion of the big bang theory are linked with the rapid rotation and acceleration of deterrence on the other matter. Nearly 8 billion years after the expansion of the Big Bang the Universe has begun to accelerate. Cosmologists have believed that an impact known as dark energy is instigating the universe to enlarge by making matter deter other matter. Currently, people still do not evolve the depiction of dark energy and sensible capacity regarding the dark energy concept in the big bang and Darwin's evolution theory. Hence, there is always room for changing and consideration



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towards the conceptual mapping and involvement regarding the decency of catered ideas and reflecting measures by other scientists (Spice, 2019).

## Discussion

From designing the conceptual framework, extracting the gaps, and capsulizing the objectives and literature it has been observed that there is an importance of big band theory and Darwin's theory of evolution. Moreover, things have been passed clear to the obvious meanings like all living things maintain a greater amount of complexity and order reflecting the increased population and species. Whereas all living things are part of greater ecosystems, subject matter and energy involvement due to their needs wants and other dependencies. It has been discussed by Silverstein (2021) that all life relies on the chemical reactions that took place in the operations of cells. All known life has the strong necessity for liquid water alongside food for the growth of organisms and development. Based on the applications of Darwin's theory of evolution all living things control their usage of energy and relevant responses to their environment. In contrast, all things are backed by a similar genetic code which is eventually passed from the parental offspring where the descendent of species from the common ancestors have been normalised.

The difference between Wallace and Darwin has been depicted by Kasih (2020) that Darwin argued that human evolution could be elucidated by sexual selection with a natural selection which alone is inadequate to account for a set of exceptionally human characteristics. The factors of continuation are to discuss the overproduction, adulthood



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variation, adaptation, observation and direct to his theory of natural selection. There are some alterations between subordinates of similar species where adaptability reflects suitability to the environment of species passed on with time. It has been added by Kwakye (2020) that addressing this kind of theory requires probable conditions as knowledge is a very important determinant for the proper understanding of easy to complex terms. The reason for this claim is that there are various meanings of one terminology depending on the usage and context even in theoretical overviews the usage period had greater meanings. Like, there is an origination of Darwin's day in which Darwinism to the majority of people simply understand the meaning of belief in evolution and perhaps descent man from the simians. Reflecting the contrary measures, if contemporary biologists make use of the terms, their focus is mainly on natural selection the emphasis has been used towards the continuation as well.

## Conclusion

Throughout the study, it has been concluded that the big bang theory and Darwin's theory of evolution have certain similarities and differences as well. Therefore, the continuation between the given phenomenons has been possible based on factors like transformation, increasing genetics, common descendants and spread in the population densely with the passage of time. On the other side, the other similarity for the continuation is natural selection, reproduction, survival and inheritance changes. Thus, the natural assortment has been taken important for the continuation because it is well suited among



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both concepts and depends on the changing environments and necessitates the past, current and futuristic heritable changes in the group. All through the results and discussion, it has also been concluded that the big bang also has reflection related to the distance of the galaxy from the earth and its changing speed due to cosmic microwave radiation. The continuation also depends on the age of the universe due to their travelling measure nearly 380,000 years after the Big Bang the creation become translucent to light. Because for the upcoming several billion years the rate of gravity is slowed down due to the expansion of the universe and this concept is also supported by Darwin's theory of evolution throughout the continuation process. It has been recommended that Darwin's theory of evolution has a composite nature against the big bang theory and it is one of the major reasons for the continuation of the professionals. Supporting this is the successive birthing discussion of Darwin's theory of evolution which portrays the significance concerning the dense expansion of the big bang theory.



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