

LES MÉCANISMES DE L'ÉVOLUTION

L'innovation génétique est une des causes du polymorphisme des espèces. Elle est le résultat, d'une part de mécanismes strictement génétiques, duplication des gènes, translocation des chromosomes et, d'autre part, de l'action conjuguée du milieu sur les associations alléliques. On arrive ainsi à la formation d'espèces différentes ou spéciation.

Les mécanismes de l'innovation génétique

► Duplication des gènes et mutations

La duplication des gènes a pour résultat la multiplication des gènes et la formation de *famille multigénique*.

On peut envisager deux causes possibles de duplication :

– La duplication d'un gène par *enjambement inégal* (duplication en tandem) dont le principe est illustré par la figure 15.1.

L'apparition d'une nouveauté génétique à partir d'un gène ancestral peut se faire grâce au mécanisme de la *duplication de l'ADN par enjambement inégal* entre les deux chromosomes d'une paire. Dans un des lots, la fonction biologique correspondant au gène représenté sera assurée par deux loci. Si une *mutation* affecte un locus, elle sera sans effet puisque l'autre locus maintiendra la fonction. La duplication du gène met donc un locus à l'abri de la sélection, l'autre locus pourra subir diverses mutations jusqu'à ce qu'un gène nouveau, codant pour une nouvelle fonction utile à l'organisme fasse son apparition. Il sera désormais conservé par la sélection naturelle dans les générations successives.

C'est ainsi que la différence fonctionnelle très nette entre la myoglobine et l'hémoglobine et les homologies des chaînes sont deux observations conciliables si l'on admet l'existence d'une lignée évolutive dans les gènes codant pour ces polypeptides. Dans le cas de l'hémoglobine, le gène initial était certainement du type de la myoglobine. Une première duplication donne un gène d'une hémoglobine ancestrale (on retrouve cette hémoglobine à une chaîne chez un poisson cartilagineux, le Requin). Une deuxième duplication donne un gène de type α et un gène de type β . Deux duplications successives ont encore affecté le gène β , donnant les gènes γ et δ .

L'homologie confirme cette lignée : les chaînes β , γ et δ se ressemblent plus entre elles qu'elles ne ressemblent à la chaîne α .

Ainsi, la duplication des gènes suivie de mutation a-t-elle conduit, à partir d'un gène responsable d'une seule fonction (stockage d' O_2), à l'apparition à ses côtés d'autres gènes responsables d'une autre fonction (stockage + transport d' O_2). En revanche, les seules mutations dans les gènes actuels de l'hémoglobine créent des allèles nocifs (HbS).

Les études de la séquence de l'ADN ont montré que les gènes des chaînes γ , δ et β sont situés en tandem dans cet ordre sur le chromosome, alors que le gène de la chaîne α est porté par un autre chromosome. La figure 15.2 illustre cette filiation moléculaire de l'hémoglobine.

Ainsi l'apparition de fonctions biologiques nouvelles peut se réaliser sans

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Linnovation Moteur De Leacuteconomie Destruction Creacuteatrice: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous captivating novels enthralling the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the fascinating narratives that have enthralled audiences this year.

Linnovation Moteur De Leacuteconomie Destruction Creacuteatrice : Colleen Hoovers "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed.

Linnovation Moteur De Leacuteconomie Destruction Creacuteatrice : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery.

Linnovation Moteur De Leacuteconomie Destruction Creacuteatrice : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting.

These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered.

The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts.

The Secret History is a masterful and suspenseful novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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