03-Groq.com API for full dev set

In this notebook, we will make API calls to Groq.com to summarize the article (up to 20k characters) in the full dev set (about 2,000 examples).

We would use Mixtral 8x7B as it has very good performance scores, and it's open source.

```
In [1]: # !pip install groq
In [2]: # Load api key
        import json
        import urllib.parse
        with open('./data/credentials.json') as f:
            login = json.load(f)
        api_key = login["GROQ_API_KEY"]
        print(len(api_key))
       56
In [3]: from groq import Groq
        client = Groq(
            api_key=api_key,
In [4]: # test pause
        import time
        print("Hello")
        time.sleep(2)
        print("World")
       Hello
       World
In [5]: SLEEP_TIME = 10 # pause between requests
In [6]: def send_sumarize_request(content, model=client, min_words=250, max_words=500, quie
                summarize the content
                input: context (text), model (groq_api client), max_words (int)
                output: summarized text
            if not quiet:
                print("Sending request for text =", content[:100])
            prompt = f'Simplify and summarize in minimum {min_words} to maximum {max_words}
            try:
                completion = client.chat.completions.create(
                    model="mixtral-8x7b-32768",
```

```
messages=[
                {
                    "role": "user",
                    "content": prompt
               },
            ],
            temperature=1,
            max_tokens=2048,
            top_p=1,
            stream=True,
            stop=None,
        )
       for chunk in completion:
            result += chunk.choices[0].delta.content or ""
   except Exception as err:
        print("Skipping, error : ", err)
        result = ""
   # pause to avoid hitting bandwidth limit (~ 14K token / minute)
   print(f"Completed. Pausing for {SLEEP_TIME} secs...", end="")
   time.sleep(SLEEP_TIME)
   print("OK")
   return result
dev_df_filename = "../../data/biolaysumm2024_data/eLife_val.jsonl"
```

```
In [7]: import pandas as pd
```

```
In [8]: # Load in some data
        df = pd.read_json(dev_df_filename,
                          orient="records",
                          lines=True
                          )
        df.head()
```

id	keywords	headings	article	lay_summary	
elife- 15477- v3	[developmental biology]	[Abstract, Introduction, Results, Discussion,	Cell-fate reprograming is at the heart of deve	The DNA in genes encodes the basic information	0
elife- 56656- v2	[microbiology and infectious disease, immunolo	[Abstract, Introduction, Results, Discussion,	Klebsiella pneumoniae is a respiratory , blood	Klebsiella pneumoniae is a type of bacteria th	1
elife- 04692- v2	[epidemiology and global health]	[Abstract, Introduction, Results, Discussion,	Plasmodium vivax relapse infections occur foll	Malaria is one of the world's most deadly infe	2
elife- 21394- v2	[ecology]	[Abstract, Introduction, Results, Discussion,	When 2 Mha of Amazonian forests are disturbed	The Amazon rainforest in South America is the	3
elife- 02669- v2	[stem cells and regenerative medicine]	[Abstract, Introduction, Results, Discussion,	Neurosphere formation is commonly used as a su	Neurons that arise in the adult nervous system	4

```
In [9]: # apply to all rows in eval miniset
    text_cap = 20_000 # temporarily limit to 20k characters, set to -1 for full text
    print("Summarization process started...")
    df["groq_mistral_summary"] = df["article"].apply(lambda text: send_sumarize_request
    print("Completed")
```

Summarization process started...

Sending request for text = Cell-fate reprograming is at the heart of development , y et very little is known about the molecular

Completed. Pausing for 10 secs...OK

Sending request for text = Klebsiella pneumoniae is a respiratory , blood , liver , and bladder pathogen of significant clinica

Completed. Pausing for 10 secs...OK

Sending request for text = Plasmodium vivax relapse infections occur following activ ation of latent liver-stages parasites (hy

Completed. Pausing for 10 secs...OK

Sending request for text = When 2 Mha of Amazonian forests are disturbed by selective logging each year, more than 90 Tg of ca

Completed. Pausing for 10 secs...OK

Sending request for text = Neurosphere formation is commonly used as a surrogate for neural stem cell (NSC) function but the

Completed. Pausing for 10 secs...OK

Sending request for text = Piezo1 is a mechanically activated ion channel involved i n sensing forces in various cell types and

Completed. Pausing for 10 secs...OK

Sending request for text = Many decisions are thought to arise via the accumulation of noisy evidence to a threshold or bound .

Completed. Pausing for 10 secs...OK

Sending request for text = The insulin-like signaling pathway maintains a relatively short wild-type lifespan in Caenorhabditis

Completed. Pausing for 10 secs...OK

Sending request for text = Motor sequences are formed through the serial execution o f different movements , but how nervous sys

Completed. Pausing for 10 secs...OK

Sending request for text = Accurate chromosome segregation depends on coordination b etween cohesion resolution and kinetochore-

Completed. Pausing for 10 secs...OK

Sending request for text = The persistence of experience-dependent changes in brain connectivity requires RNA localization and

Completed. Pausing for 10 secs...OK

Sending request for text = Morphogenesis involves interactions of asymmetric cell populations to form complex multicellular pat

Completed. Pausing for 10 secs...OK

Sending request for text = Encoding precision in visual working memory decreases with the number of encoded items . Here , we p

Completed. Pausing for 10 secs...OK

Sending request for text = Plants use autophagy to safeguard against infectious dise ases . However , how plant pathogens interf

Completed. Pausing for 10 secs...OK

Sending request for text = Upon cardiac pathological conditions such as ischemia , m icroenvironmental changes instruct a series

Completed. Pausing for 10 secs...OK

Sending request for text = Histone acetylation and deposition of H2A . Z variant are integral aspects of active transcription .

Completed. Pausing for 10 secs...OK

Sending request for text = Neuromuscular junction formation requires proper interact ion between motoneurons and muscle cells .

Completed. Pausing for 10 secs...OK

Sending request for text = Force transduction at cell-cell adhesions regulates tissu e development , maintenance and adaptation

Completed. Pausing for 10 secs...OK

Sending request for text = The polyglutamine expansion in huntingtin protein causes

Huntington's disease . Here , we investigat

Completed. Pausing for 10 secs...OK

Sending request for text = NCOA4 is a selective cargo receptor for the autophagic tu rnover of ferritin , a process critical for

Completed. Pausing for 10 secs...OK

Sending request for text = Higher-level cognition depends on the lateral prefrontal cortex (LPFC) , but its functional organi

Completed. Pausing for 10 secs...OK

Sending request for text = Cortical expansion and folding are often linked to the evolution of higher intelligence, but molecu

Completed. Pausing for 10 secs...OK

Sending request for text = Activation of systemic acquired resistance in plants is a ssociated with transcriptome reprogramming

Completed. Pausing for 10 secs...OK

Sending request for text = In Arabidopsis thaliana , abundant 24 nucleotide small in terfering RNAs (24 nt siRNA) guide the cy

Completed. Pausing for 10 secs...OK

Sending request for text = Mature neural networks synchronize and integrate spatiote mporal activity patterns to support cogniti

Completed. Pausing for 10 secs...OK

Sending request for text = The coexistence of multiple independently circulating str ains in pathogen populations that undergo s

Completed. Pausing for 10 secs...OK

Sending request for text = The deamidase OspI from enteric bacteria Shigella flexner i deamidates a glutamine residue in the hos

Completed. Pausing for 10 secs...OK

Sending request for text = Bidirectional manipulations - activation and inactivation - are widely used to identify the function

Completed. Pausing for 10 secs...OK

Sending request for text = Cognitive functions such as working memory (\mbox{WM}) are emergent properties of large-scale network int

Completed. Pausing for 10 secs...OK

Sending request for text = Embryonic polarity of invertebrates , amphibians and fish is specified largely by maternal determina

Completed. Pausing for 10 secs...OK

Sending request for text = Temporal experience of odor gradients is important in spa tial orientation of animals . The fruit fly

Completed. Pausing for 10 secs...OK

Sending request for text = In flowering plants , seed development is initiated by the fusion of the maternal egg and central ce

Completed. Pausing for 10 secs...OK

Sending request for text = The interaction between a bacteriophage and its host is m ediated by the phage's receptor binding pro

Completed. Pausing for 10 secs...OK

Sending request for text = Individuals with congenital amusia have a lifelong histor y of unreliable pitch processing . Accordin

Completed. Pausing for 10 secs...OK

Sending request for text = Devil Facial Tumour 2 (DFT2) is a recently discovered c ontagious cancer circulating in the Tasmani

Completed. Pausing for 10 secs...OK

Sending request for text = The granular retrosplenial cortex (RSG) is critical for both spatial and non-spatial behaviors , b

Completed. Pausing for 10 secs...OK

Sending request for text = Traumatic brain injury (TBI) is a prominent risk factor for dementias including tauopathies like c

Completed. Pausing for 10 secs...OK

Sending request for text = Brain connectivity is often considered in terms of the communication between functionally distinct b

Completed. Pausing for 10 secs...OK

Sending request for text = Change in the identity of the components of the transcription pre-initiation complex is proposed to

Completed. Pausing for 10 secs...OK

Sending request for text = Brain stimulation modulates the excitability of neural circuits and drives neuroplasticity . While t

Completed. Pausing for 10 secs...OK

Sending request for text = Lesions of primary visual cortex (V1) lead to loss of c onscious visual perception with significant

Completed. Pausing for 10 secs...OK

Sending request for text = The ability to recognize foreign double-stranded (ds) D NA of pathogenic origin in the intracellula

Completed. Pausing for 10 secs...OK

Sending request for text = Spatially targeted optical microproteomics (STOMP) is a novel proteomics technique for interrogati

Completed. Pausing for 10 secs...OK

Sending request for text = Disruption of the Frizzled3 (Fz3) gene leads to defects in axonal growth in the VIIth and XIIth cr

Completed. Pausing for 10 secs...OK

Sending request for text = Transposable elements (TEs) are thought to have helped establish gene regulatory networks . Both t

Completed. Pausing for 10 secs...OK

Sending request for text = C4 photosynthesis has independently evolved from the ance stral C3 pathway in at least 60 plant linea

Completed. Pausing for 10 secs...OK

Sending request for text = Hydrolysis of nucleoside triphosphates releases similar a mounts of energy . However , ATP hydrolysis

Completed. Pausing for 10 secs...OK

Sending request for text = Leptin regulates energy balance and also exhibits neurotr ophic effects during critical developmental

Completed. Pausing for 10 secs...OK

Sending request for text = The Arabidopsis immune receptor FLS2 perceives bacterial flagellin epitope flg22 to activate defense

Completed. Pausing for 10 secs...OK

Sending request for text = The Arabidopsis circadian clock orchestrates gene regulat ion across the day/night cycle . Although a

Completed. Pausing for 10 secs...OK

Sending request for text = In social settings , speech waveforms from nearby speaker s mix together in our ear canals . Normally

Completed. Pausing for 10 secs...OK

Sending request for text = Tissue light scatter limits the visualization of the micr ovascular network deep inside the living ma

Completed. Pausing for 10 secs...OK

Sending request for text = Symbiosis Receptor-like Kinase (SYMRK) is indispensable for the development of phosphate-acquiring

Completed. Pausing for 10 secs...OK

Sending request for text = Quantitative behavioral measurements are important for an swering questions across scientific discipl

Completed. Pausing for 10 secs...OK

Sending request for text = When innate immune cells such as macrophages are challeng ed with environmental stresses or infection

Completed. Pausing for 10 secs...OK

Sending request for text = BReast Cancer Associated proteins 1 and 2 (BRCA1 , -2) and Partner and Localizer of BRCA2 (PALB2

Sending request for text = Filaments of all actin-like proteins known to date are as sembled from pairs of protofilaments that a

Completed. Pausing for 10 secs...OK

Sending request for text = Invariant floral forms are important for reproductive success and robust to natural perturbations .

Completed. Pausing for 10 secs...OK

Sending request for text = Biosynthesis of insulin - critical to metabolic homeostas is - begins with folding of the proinsulin

Completed. Pausing for 10 secs...OK

Sending request for text = SUV39H is the major histone H3 lysine 9 (H3K9) -specific methyltransferase that targets pericentri

Completed. Pausing for 10 secs...OK

Sending request for text = Grid cells in the entorhinal cortex allow for the precise decoding of position in space . Along with

Completed. Pausing for 10 secs...OK

Sending request for text = Progress in science requires standardized assays whose results can be readily shared, compared, an

Completed. Pausing for 10 secs...OK

Sending request for text = Proper function and repair of the digestive system are vital to most animals. Deciphering the mecha

Completed. Pausing for 10 secs...OK

Sending request for text = Adaptations to an organism's environment often involve se nsory system modifications . In this study

Completed. Pausing for 10 secs...OK

Sending request for text = Bacteriophage BPP-1 infects and kills Bordetella species that cause whooping cough . Its diversity-g

Completed. Pausing for 10 secs...OK

Sending request for text = Dengue virus (DENV) cycles between mosquito and mammali an hosts . To examine how DENV populations

Completed. Pausing for 10 secs...OK

Sending request for text = Membrane nanodomains have been implicated in Ras signalin g , but what these domains are and how they

Completed. Pausing for 10 secs...OK

Sending request for text = A morphogen gradient of Bone Morphogenetic Protein (BMP) signaling patterns the dorsoventral embry

Completed. Pausing for 10 secs...OK

Sending request for text = Lysosomes are major sites for intracellular , acidic hydr olase-mediated proteolysis and cellular deg

Completed. Pausing for 10 secs...OK

Sending request for text = Microtubule-based transport by the kinesin motors , power ed by ATP hydrolysis , is essential for a w

Completed. Pausing for 10 secs...OK

Sending request for text = Maintaining the essential functions of mitochondria requires mechanisms to recognize and remove misf

Completed. Pausing for 10 secs...OK

Sending request for text = Extracellular signal-regulated kinase (ERK) is a key ef fector of many growth signalling pathways .

Completed. Pausing for 10 secs...OK

Sending request for text = Circadian rhythms are biological oscillations that schedu le daily changes in physiology . Outside th

Completed. Pausing for 10 secs...OK

Sending request for text = Although cardio-vascular incidents and sudden cardiac dea th (SCD) are among the leading causes of

Completed. Pausing for 10 secs...OK

Sending request for text = Surface-attached bacterial communities called biofilms di

splay a diversity of morphologies . Althoug

Completed. Pausing for 10 secs...OK

Sending request for text = The mechanisms generating epileptic neuronal networks fol lowing insults such as severe seizures are

Completed. Pausing for 10 secs...OK

Sending request for text = Splitting sensory information into parallel pathways is a common strategy in sensory systems . Yet ,

Completed. Pausing for 10 secs...OK

Sending request for text = The M2 muscarinic receptor is the prototypic model of all ostery in GPCRs, yet the molecular and the

Completed. Pausing for 10 secs...OK

Sending request for text = Histone modifications establish the chromatin states that coordinate the DNA damage response . In th

Completed. Pausing for 10 secs...OK

Sending request for text = Missense variants are a major source of human genetic variation . Here we analyze a new mouse missen

Completed. Pausing for 10 secs...OK

Sending request for text = Mutations in members of the SWI/SNF chromatin remodeling family are common events in cancer , but th

Completed. Pausing for 10 secs...OK

Sending request for text = Many species use social networks to buffer the effects of stress . The mere absence of a social netw

Completed. Pausing for 10 secs...OK

Sending request for text = Hemoglobin (Hb) represents a model protein to study mol ecular adaptation in vertebrates . Although

Completed. Pausing for 10 secs...OK

Sending request for text = Malaria infection starts with injection of Plasmodium sporozoites by an Anopheles mosquito into the

Completed. Pausing for 10 secs...OK

Sending request for text = Cells are organized by functional modules , which typical ly contain components whose removal severel

Completed. Pausing for 10 secs...OK

Sending request for text = Neurobiologists have studied decisions by offering succes sive , independent choices between goods or

Completed. Pausing for 10 secs...OK

Sending request for text = Paraspeckles are nuclear bodies form around the long non-coding RNA , Neat1 , and RNA-binding protei

Completed. Pausing for 10 secs...OK

Sending request for text = Presynaptic calcium channel function is critical for converting electrical information into chemical

Completed. Pausing for 10 secs...OK

Sending request for text = The shape and function of plant cells are often highly in terdependent . The puzzle-shaped cells that

Completed. Pausing for 10 secs...OK

Sending request for text = Most human genes contain multiple introns , necessitating mechanisms to effectively define exons and

Completed. Pausing for 10 secs...OK

Sending request for text = Many membrane proteins fold inefficiently and require the help of enzymes and chaperones . Here we r

Completed. Pausing for 10 secs...OK

Sending request for text = Sex-based modulation of cognitive processes could set the stage for individual differences in vulner

Completed. Pausing for 10 secs...OK

Sending request for text = In endoplasmic reticulum-associated protein degradation (ERAD), membrane proteins are ubiquitinat

Completed. Pausing for 10 secs...OK

Sending request for text = Extracellular Hedgehog (Hh) proteins induce transcripti onal changes in target cells by inhibiting

Completed. Pausing for 10 secs...OK

Sending request for text = Nociceptive information is relayed through the spinal cor d dorsal horn , a critical area in sensory

Completed. Pausing for 10 secs...OK

Sending request for text = Mutations in the gene encoding Ras-associated binding pro tein 23 (RAB23) cause Carpenter Syndrome

Completed. Pausing for 10 secs...OK

Sending request for text = Inheritance of gene expression states is fundamental for cells to 'remember' past events , such as e

Completed. Pausing for 10 secs...OK

Sending request for text = DnaK/Hsp70 chaperones form oligomers of poorly understood structure and functional significance . Si

Completed. Pausing for 10 secs...OK

Sending request for text = Flexible filamentous viruses include economically importa nt plant pathogens . Their viral particles

Completed. Pausing for 10 secs...OK

Sending request for text = Antibody binding to cell surface proteins plays a crucial role in immunity , and the location of an

Completed. Pausing for 10 secs...OK

Sending request for text = Systemic vascular pressure in vertebrates is regulated by a range of factors: one key element of con

Completed. Pausing for 10 secs...OK

Sending request for text = We describe refinements in optogenetic methods for circuit mapping that enable measurements of funct

Completed. Pausing for 10 secs...OK

Sending request for text = The mode of interaction of transcription factors (TFs) on eukaryotic genomes remains a matter of d

Completed. Pausing for 10 secs...OK

Sending request for text = Detecting pathogens and mounting immune responses upon in fection is crucial for animal health . Howe

Completed. Pausing for 10 secs...OK

Sending request for text = The generation of naïve T lymphocytes is critical for imm une function yet the mechanisms governing t

Completed. Pausing for 10 secs...OK

Sending request for text = A critical assumption of gene expression analysis is that mRNA abundances broadly correlate with pro

Completed. Pausing for 10 secs...OK

Sending request for text = Despite being an early event in ALS , it remains unclear whether the denervation of neuromuscular ju

Completed. Pausing for 10 secs...OK

Sending request for text = Adjuvant tamoxifen therapy improves survival in breast cancer patients . Unfortunately , long-term t

Completed. Pausing for 10 secs...OK

Sending request for text = ISG15 is an interferon-stimulated , linear di-ubiquitin-l ike protein , with anti-viral activity . Th

Completed. Pausing for 10 secs...OK

Sending request for text = Single-molecule Förster Resonance energy transfer (smFRE T) is an adaptable method for studying the

Completed. Pausing for 10 secs...OK

Sending request for text = Polycomb repressive complex-1 (PRC1) is essential for the epigenetic regulation of gene expression

Completed. Pausing for 10 secs...OK

Sending request for text = Regulation of translating ribosomes is a major component of gene expression control network . In Esc

Sending request for text = We provide the first measures of foveal cone density as a function of axial length in living eyes an

Completed. Pausing for 10 secs...OK

Sending request for text = Streptococcus pneumoniae is a leading cause of invasive d isease in infants , especially in low-incom

Completed. Pausing for 10 secs...OK

Sending request for text = Cardiac repolarization is determined in part by the slow delayed rectifier current (IKs) , through

Completed. Pausing for 10 secs...OK

Sending request for text = Cellular responses to injury are crucial for complete tis sue regeneration , but their underlying pro

Completed. Pausing for 10 secs...OK

Sending request for text = Much of the molecular motion in the cytoplasm is diffusiv e , which possibly limits the tempo of proc

Completed. Pausing for 10 secs...OK

Sending request for text = Regeneration is widespread , but mechanisms that activate regeneration remain mysterious . Planarian

Completed. Pausing for 10 secs...OK

Sending request for text = DNA replication errors that persist as mismatch mutations make up the molecular fingerprint of misma

Completed. Pausing for 10 secs...OK

Sending request for text = Light-inducible dimerization protein modules enable precise temporal and spatial control of biologic

Completed. Pausing for 10 secs...OK

Sending request for text = Ribosome stalling during translation has recently been sh own to cause neurodegeneration , yet the si

Completed. Pausing for 10 secs...OK

Sending request for text = Being taller is associated with enhanced longevity , and higher education and earnings . We reanalys

Completed. Pausing for 10 secs...OK

Sending request for text = The rates of opioid overdose in the United States quadrup led between 1999 and 2017 , reaching a stag

Completed. Pausing for 10 secs...OK

Sending request for text = Human hepatitis B virus (HBV) infection and HBV-related diseases remain a major public health prob

Completed. Pausing for 10 secs...OK

Sending request for text = The global health burden due to sepsis and the associated cytokine storm is substantial . While earl

Completed. Pausing for 10 secs...OK

Sending request for text = Long INterspersed Element-1 (LINE-1 or L1) retrotranspo sition poses a mutagenic threat to human ge

Completed. Pausing for 10 secs...OK

Sending request for text = Sensory experience plays an important role in shaping neural circuitry by affecting the synaptic con

Completed. Pausing for 10 secs...OK

Sending request for text = This is an analysis of how magnetic fields affect biological molecules and cells . It was prompted b $\,$

Completed. Pausing for 10 secs...OK

Sending request for text = Stem cells can self-renew , differentiate , or enter quie scence . Understanding how stem cells switc

Completed. Pausing for 10 secs...OK

Sending request for text = Uncoating of the metastable HIV-1 capsid is a tightly reg ulated disassembly process required for rel

Completed. Pausing for 10 secs...OK

Sending request for text = Breast cancer is the most commonly diagnosed malignancy i

n women . Analysis of breast cancer genomic

Completed. Pausing for 10 secs...OK

Sending request for text = The pathways controlling cilium biogenesis in different c ell types have not been fully elucidated .

Completed. Pausing for 10 secs...OK

Sending request for text = Class III myosins (Myo3) and actin-bundling protein Esp in play critical roles in regulating the de

Completed. Pausing for 10 secs...OK

Sending request for text = Voltage-gated calcium channels control key functions of e xcitable cells , like synaptic transmission

Completed. Pausing for 10 secs...OK

Sending request for text = The ability of the adult brain to undergo plastic changes is of particular interest in medicine , es

Completed. Pausing for 10 secs...OK

Sending request for text = Signal transduction at vertebrate excitatory synapses involves the rapid activation of AMPA (α -amin

Completed. Pausing for 10 secs...OK

Sending request for text = Single cell isolation from helminth-infected murine intes tines has been notoriously difficult , due

Completed. Pausing for 10 secs...OK

Sending request for text = Proteasomal protein degradation is a key determinant of p rotein half-life and hence of cellular proc

Completed. Pausing for 10 secs...OK

Sending request for text = The recycling of neurotransmitters is essential for susta ined synaptic transmission . In Drosophila

Completed. Pausing for 10 secs...OK

Sending request for text = The precise roles that oxidants play in lifespan and agin g are still unknown . Here , we report the

Completed. Pausing for 10 secs...OK

Sending request for text = The biological macromolecular world is homochiral and eff ective enforcement and perpetuation of this

Completed. Pausing for 10 secs...OK

Sending request for text = In CFTR , the chloride channel mutated in cystic fibrosis (CF) patients , ATP-binding-induced dime

Completed. Pausing for 10 secs...OK

Sending request for text = We present a mechanism for a generic , powerful force of assembly and mobility for transmembrane pro

Completed. Pausing for 10 secs...OK

Sending request for text = Fluorescent calcium indicators are often used to investig ate neural dynamics , but the relationship

Completed. Pausing for 10 secs...OK

Sending request for text = We report a functional switching valve within the female genitalia of the Brazilian cave insect Neot

Completed. Pausing for 10 secs...OK

Sending request for text = Synaptic-soluble N-ethylmaleimide-sensitive factor attach ment receptor (SNARE) proteins couple the

Completed. Pausing for 10 secs...OK

Sending request for text = How can the integrin adhesome get self-assembled locally , rapidly , and correctly as diverse cell-m

Completed. Pausing for 10 secs...OK

Sending request for text = Deep non-rapid eye movement sleep (NREM) and general an esthesia with propofol are prominent states

Completed. Pausing for 10 secs...OK

Sending request for text = Dynamic tubular extensions from chloroplasts called strom ules have recently been shown to connect wi

Completed. Pausing for 10 secs...OK

Sending request for text = Do the amino acid sequence identities of residues that make contact across protein interfaces covary

Completed. Pausing for 10 secs...OK

Sending request for text = Interpreting visual scenes typically requires us to accumulate information from multiple locations i

Completed. Pausing for 10 secs...OK

Sending request for text = Nucleocytoplasmic transport is tightly regulated by the n uclear pore complex (NPC) . Among the tho

Completed. Pausing for 10 secs...OK

Sending request for text = The co-stimulatory molecule CD28 is essential for activat ion of helper T cells . Despite this critic

Completed. Pausing for 10 secs...OK

Sending request for text = Helical cell shape is necessary for efficient stomach col onization by Helicobacter pylori , but the

Completed. Pausing for 10 secs...OK

Sending request for text = Cdc48/p97, a ubiquitin-selective chaperone, orchestrate s the function of E3 ligases and deubiquity

Completed. Pausing for 10 secs...OK

Sending request for text = Is vision necessary for the development of the categorica lorganization of the Ventral Occipito-Temp

Completed. Pausing for 10 secs...OK

Sending request for text = Many microbes induce striking behavioral changes in their animal hosts , but how they achieve this i

Completed. Pausing for 10 secs...OK

Sending request for text = RNA degradation pathways enable RNA processing , the regulation of RNA levels , and the surveillance $\frac{1}{2}$

Completed. Pausing for 10 secs...OK

Sending request for text = Temporal dynamics of gene expression underpin responses t o internal and environmental stimuli . In e

Completed. Pausing for 10 secs...OK

Sending request for text = The epigenetic mechanisms that enable specialized astrocy tes to retain neurogenic competence through

Completed. Pausing for 10 secs...OK

Sending request for text = Viruses modulate microbial communities and alter ecosyste m functions . However , due to cultivation

Completed. Pausing for 10 secs...OK

Sending request for text = Cilia/flagella are assembled and maintained by the proces s of intraflagellar transport (IFT) , a h

Completed. Pausing for 10 secs...OK

Sending request for text = Lymphatic invasion and lymph node metastasis correlate wi th poor clinical outcome in melanoma . Howe

Completed. Pausing for 10 secs...OK

Sending request for text = MicroRNAs (miRNAs) are conserved noncoding RNAs that function as posttranscriptional regulators of

Completed. Pausing for 10 secs...OK

Sending request for text = Social visual engagement difficulties are hallmark early signs of autism (ASD) and are easily quan

Completed. Pausing for 10 secs...OK

Sending request for text = Virtually all species of coelomate animals contain blood cells that display a division of labor nece

Completed. Pausing for 10 secs...OK

Sending request for text = Aneuploidy is linked to myriad diseases but also facilita tes organismal evolution . It remains uncle

Completed. Pausing for 10 secs...OK

Sending request for text = Animals detect light using opsin photopigments . Xenopsin , a recently classified subtype of opsin ,

Sending request for text = Spatial and temporal cues are required to specify neurona l diversity , but how these cues are integr

Completed. Pausing for 10 secs...OK

Sending request for text = P2X receptors function by opening a transmembrane pore in response to extracellular ATP . Recent cry

Completed. Pausing for 10 secs...OK

Sending request for text = Cytokinesis , the physical division of one cell into two , is powered by constriction of an actomyos

Completed. Pausing for 10 secs...OK

Sending request for text = Bacterial flagella mediate host-microbe interactions through tissue tropism during colonization , as

Completed. Pausing for 10 secs...OK

Sending request for text = Genome instability is associated with mitotic errors and cancer . This phenomenon can lead to delete

Completed. Pausing for 10 secs...OK

Sending request for text = Latent Epstein-Barr virus (EBV) infection is causally l inked to several human cancers . EBV expres

Completed. Pausing for 10 secs...OK

Sending request for text = Plants produce diverse metabolites to cope with the chall enges presented by complex and ever-changin

Completed. Pausing for 10 secs...OK

Sending request for text = Apoptosis and its molecular mediators , the caspases , have long been regarded as tumor suppressors

Completed. Pausing for 10 secs...OK

Sending request for text = Communication through body gestures permeates our daily l ife . Efficient perception of the message t

Completed. Pausing for 10 secs...OK

Sending request for text = The interaction between the SARS-CoV-2 virus Spike protein receptor binding domain (RBD) and the A

Completed. Pausing for 10 secs...OK

Sending request for text = Gene-gene interactions shape complex phenotypes and modify the effects of mutations during developme

Completed. Pausing for 10 secs...OK

Sending request for text = Heterostyly is a wide-spread floral adaptation to promote outbreeding , yet its genetic basis and ev

Completed. Pausing for 10 secs...OK

Sending request for text = Kisspeptin (Kiss1) and neurokinin B (NKB) neurocircui ts are essential for pubertal development a

Completed. Pausing for 10 secs...OK

Sending request for text = Bone morphogenic protein (BMP) signalling contributes towards maintenance of pluripotency and favo

Completed. Pausing for 10 secs...OK

Sending request for text = The two centrioles of the centrosome in quiescent cells a re inherently asymmetric structures that di

Completed. Pausing for 10 secs...OK

Sending request for text = Neuron-glia interactions play a critical role in the maturation of neural circuits; however, little

Completed. Pausing for 10 secs...OK

Sending request for text = Establishing the time since death is critical in every de ath investigation , yet existing techniques

Completed. Pausing for 10 secs...OK

Sending request for text = Despite tremendous body form diversity in nature , bilate rian animals share common sets of developme

Completed. Pausing for 10 secs...OK

Sending request for text = Previous studies tracking AMPA receptor (AMPAR) diffusi

on at synapses observed a large mobile extr

Completed. Pausing for 10 secs...OK

Sending request for text = The mechanism for the earliest response of central neuron s to hypoxia—an increase in voltage-gated s

Completed. Pausing for 10 secs...OK

Sending request for text = Thermal biology predicts that vector-borne disease transm ission peaks at intermediate temperatures a

Completed. Pausing for 10 secs...OK

Sending request for text = Motor cortical beta oscillations have been reported for d ecades , yet their behavioral correlates re

Completed. Pausing for 10 secs...OK

Sending request for text = TRAF2 is a component of TNF superfamily signalling comple xes and plays an essential role in the regu

Completed. Pausing for 10 secs...OK

Sending request for text = The exocytosis of synaptic vesicles (SVs) elicited by p otent stimulation is rapidly compensated by

Completed. Pausing for 10 secs...OK

Sending request for text = Glucocorticoids are among the most commonly prescribed dr ugs , but there is no biomarker that can qu

Completed. Pausing for 10 secs...OK

Sending request for text = Amino acids are essential activators of mTORC1 via a comp lex containing RAG GTPases , RAGULATOR and

Completed. Pausing for 10 secs...OK

Sending request for text = Antigen uptake by dendritic cells and intracellular routing of antigens to specific compartments is

Completed. Pausing for 10 secs...OK

Sending request for text = Burkholderia thailandensis uses acyl-homoserine lactone-m ediated quorum sensing systems to regulate

Completed. Pausing for 10 secs...OK

Sending request for text = The long-range coupling within prefrontal-hippocampal net works that account for cognitive performanc

Completed. Pausing for 10 secs...OK

Sending request for text = Dynamic post-translational modification of RNA polymerase II (RNAPII) coordinates the co-transcrip

Completed. Pausing for 10 secs...OK

Sending request for text = Skeletal muscle satellite cells in their niche are quiesc ent and upon muscle injury , exit quiescenc

Completed. Pausing for 10 secs...OK

Sending request for text = Infants with defects in the interleukin 10 receptor (IL1 OR) develop very early onset inflammatory

Completed. Pausing for 10 secs...OK

Sending request for text = piRNAs play a critical role in the regulation of transpos ons and other germline genes . In Caenorhab

Completed. Pausing for 10 secs...OK

Sending request for text = Purkinje neurons are central to cerebellar function and s how membrane bistability when recorded in v

Completed. Pausing for 10 secs...OK

Sending request for text = Force generation by actin assembly shapes cellular membra nes . An experimentally constrained multisc

Completed. Pausing for 10 secs...OK

Sending request for text = Macropinocytosis is a fundamental mechanism that allows c ells to take up extracellular liquid into l

Completed. Pausing for 10 secs...OK

Sending request for text = The cohesin ring holds newly replicated sister chromatids together until their separation at anaphas

Completed. Pausing for 10 secs...OK

Sending request for text = For hibernators , being born late in the active season may have important effects on growth and fatt

Completed. Pausing for 10 secs...OK

Sending request for text = ADAR proteins alter gene expression both by catalyzing ad enosine (A) to inosine (I) RNA editing

Completed. Pausing for 10 secs...OK

Sending request for text = Host shutoff is a common strategy used by viruses to repress cellular mRNA translation and concomita

Completed. Pausing for 10 secs...OK

Sending request for text = Gradients of signaling proteins are essential for inducin g tissue morphogenesis . However , mechanis

Completed. Pausing for 10 secs...OK

Sending request for text = Coiled coils are the best-understood protein fold , as their backbone structure can uniquely be desc

Completed. Pausing for 10 secs...OK

Sending request for text = Epsin is an evolutionarily conserved endocytic clathrin a daptor whose most critical function (s) i

Completed. Pausing for 10 secs...OK

Sending request for text = Data on asthma aetiology in Africa are scarce . We invest igated the risk factors for asthma among sc

Completed. Pausing for 10 secs...OK

Sending request for text = Interactions between all three pigment cell types are required to form the stripe pattern of adult z

Completed. Pausing for 10 secs...OK

Sending request for text = The olfactory sense detects a plethora of behaviorally re levant odor molecules; gene families involv

Completed. Pausing for 10 secs...OK

Sending request for text = The global malaria burden has decreased over the last dec ade and many nations are attempting elimina

Completed. Pausing for 10 secs...OK

Sending request for text = Divergent morphology of species has largely been ascribed to genetic differences in the tissue-speci

Completed. Pausing for 10 secs...OK

Sending request for text = The extensive crosstalk between the developing heart and lung is critical to their proper morphogene

Completed. Pausing for 10 secs...OK

Sending request for text = While specific mutations allow organisms to adapt to stre ssful environments , most changes in an org

Completed. Pausing for 10 secs...OK

Sending request for text = Metabolic adjustment to changing environmental conditions , particularly balancing of growth and def

Completed. Pausing for 10 secs...OK

Sending request for text = Synapses and nuclei are connected by bidirectional commun ication mechanisms that enable information

Completed. Pausing for 10 secs...OK

Sending request for text = Swi2/Snf2 ATPases remodel substrates such as nucleosomes and transcription complexes to control a wi

Completed. Pausing for 10 secs...OK

Sending request for text = Cyclic peptide natural products have evolved to exploit d iverse protein targets , many of which cont

Completed. Pausing for 10 secs...OK

Sending request for text = Mutations in the inositol 5-phosphatase OCRL cause Lowe s yndrome and Dent's disease . Although OCRL

Completed. Pausing for 10 secs...OK

Sending request for text = Aberrant activation of Wnt/ β -catenin signaling plays an u nequivocal role in colorectal cancer , but

Sending request for text = The neural control of transition between posture and move ment encompasses the regulation of reflex-s

Completed. Pausing for 10 secs...OK

Sending request for text = The transcription factor RpaA is the master regulator of circadian transcription in cyanobacteria ,

Completed. Pausing for 10 secs...OK

Sending request for text = Transition metals , such as zinc , are essential micronut rients in all organisms , but also highly t

Completed. Pausing for 10 secs...OK

Sending request for text = In mammals , numerous autosomal genes are subject to mito tically stable monoallelic expression (MAE

Completed. Pausing for 10 secs...OK

Sending request for text = Ring-forming AAA+ chaperones exert ATP-fueled substrate u nfolding by threading through a central por

Completed. Pausing for 10 secs...OK

Sending request for text = How stem cells specified during development keep their no n-differentiated quiescent state , and how

Completed. Pausing for 10 secs...OK

Sending request for text = Certain neuron types fire spontaneously at high rates , a n ability that is crucial for their functio

Completed. Pausing for 10 secs...OK

Sending request for text = Antibiotics from few culturable microorganisms have saved millions of lives since the 20th century .

Completed. Pausing for 10 secs...OK

Sending request for text = Tuberculous meningitis has high mortality , linked to exc essive inflammation . However , adjunctive

Completed. Pausing for 10 secs...OK

Sending request for text = Growth cones navigate axonal projection in response to gu idance cues . However , it is unclear how t

Completed. Pausing for 10 secs...OK

Sending request for text = How hummingbirds hum is not fully understood , but its bi ophysical origin is encoded in the acoustic

Completed. Pausing for 10 secs...OK

Sending request for text = The roles of chance , contingency , and necessity in evol ution are unresolved because they have neve

Completed. Pausing for 10 secs...OK

Sending request for text = Similarity between two individuals in the combination of genetic markers along their chromosomes ind

Completed. Pausing for 10 secs...OK

Sending request for text = Early development of many animals is characterized by rap id cleavages that dramatically decrease cel

Completed. Pausing for 10 secs...OK

Sending request for text = Gene control systems sometimes interpret multiple signals to set the expression levels of the genes

Completed. Pausing for 10 secs...OK

Sending request for text = The number of neurotransmitter-filled vesicles released i nto the synaptic cleft with each action pot

Completed. Pausing for 10 secs...OK

Sending request for text = HIV-1 Gag selects and packages a dimeric , unspliced vira 1 RNA in the context of a large excess of c

Completed. Pausing for 10 secs...OK

Completed

```
print(len(empty_df))
```

In [11]:	df	.head()									
Out[11]:		lay_summary	article	headings	keywords	id	groq_mistral_summary				
	0	The DNA in genes encodes the basic information	Cell-fate reprograming is at the heart of deve	[Abstract, Introduction, Results, Discussion, 	[developmental biology]	elife- 15477- v3	Cell-fate decisions are regulated by intercell				
	1	Klebsiella pneumoniae is a type of bacteria th	Klebsiella pneumoniae is a respiratory , blood	[Abstract, Introduction, Results, Discussion, 	[microbiology and infectious disease, immunolo	elife- 56656- v2	Klebsiella pneumoniae is a dangerous pathogen				
	2	Malaria is one of the world's most deadly infe	Plasmodium vivax relapse infections occur foll	[Abstract, Introduction, Results, Discussion, 	[epidemiology and global health]	elife- 04692- v2	The paper discusses the development of a withi				
	3	The Amazon rainforest in South America is the	When 2 Mha of Amazonian forests are disturbed	[Abstract, Introduction, Results, Discussion, 	[ecology]	elife- 21394- v2	Selective logging in Amazonian forests, which				
	4	Neurons that arise in the adult nervous system	Neurosphere formation is commonly used as a su	[Abstract, Introduction, Results, Discussion, 	[stem cells and regenerative medicine]	elife- 02669- v2	Neural stem cells (NSCs) in the adult mammalia				
In [12]:	<pre>coutput_path = "./data/output/full_dev_set/" output_filename = "elife_groq_mistral_summary.csv" print("Writing to file ", output_filename) df.to_csv(output_path+output_filename,</pre>										
	Writing to file elife_groq_mistral_summary.csv Completed										
In [13]:	<pre>coutput_filename = "elife_groq_mistral_summary.json" print("Writing to file ", output_filename) df.to_json(output_path+output_filename,</pre>										

```
print("Completed")
         Writing to file elife_groq_mistral_summary.json
         Completed
In [14]: # process the PLOS dataset:
           dev_df_filename = "../../data/biolaysumm2024_data/PLOS_val.jsonl"
           df = pd.read_json(dev_df_filename,
                                orient="records",
                                lines=True
                               )
           df.head()
Out[14]:
                  lay_summary
                                               article
                                                           headings
                                                                               keywords
                                                                                                             i
                                                           [Abstract,
               Messenger RNAs
                                      Gene expression Introduction,
                                                                       [genetics, biology,
                       carry the
           0
                                         varies widely
                                                             Results.
                                                                               genomics, journal.pgen.100288
                    instructions
                                    between individu...
                                                         Discussion,
                                                                      genetics and gen...
                      necessar...
                                                           [Abstract,
                                   The live attenuated
                Annually, more
                                                        Introduction,
                                               simian
                than two million
                                                           Materials
                                                                                       [] journal.ppat.100463
                                    immunodeficiency
                 people are in...
                                                                and
                                                          Methods...
                            The
                                                           [Abstract,
                                    Mucosal infections Introduction,
                   opportunistic
                                                                         [blood cells, cell
           2
                                         with Candida
                                                                       motility, medicine
                                                                                           journal.ppat.100588
                      pathogen
                                                             Results,
               Candida albicans
                                      albicans belon...
                                                         Discussion.
                                                                               and heal...
                            is...
                      Lymphatic
                                                           [Abstract,
                                  Between 2000-2007
                                                                              [infectious
                  filariasis (LF),
                                                        Introduction,
           3
                                                                      diseases/neglected journal.pntd.000070
                                          , the Global
                                                           Methods,
                     commonly
                                    Programme to El...
                                                                         tropical diseas...
                      known a...
                                                        Results, Dis...
```

```
In [15]: # apply to all rows in eval miniset
    text_cap = 20_000 # temporarily limit to 20k characters, set to -1 for full text
    print("Summarization process started...")
    df["groq_mistral_summary"] = df["article"].apply(lambda text: send_sumarize_request
    print("Completed")
```

Homozygous

mutations in the

Parkinson's

neurodegenerat... glucocerebrosidase...

4 disease (PD) is a

[Abstract,

Results.

[] journal.pgen.100506

Introduction,

Discussion,

Summarization process started...

Sending request for text = Gene expression varies widely between individuals of a population , and regulatory change can underl

Completed. Pausing for 10 secs...OK

Sending request for text = The live attenuated simian immunodeficiency virus (LASIV) vaccine $SIV\Delta nef$ is one of the most effec

Completed. Pausing for 10 secs...OK

Sending request for text = Mucosal infections with Candida albicans belong to the mo st frequent forms of fungal diseases . Host

Completed. Pausing for 10 secs...OK

Sending request for text = Between 2000-2007 , the Global Programme to Eliminate Lym phatic Filariasis (GPELF) delivered more

Completed. Pausing for 10 secs...OK

Sending request for text = Homozygous mutations in the glucocerebrosidase (GBA) ge ne result in Gaucher disease (GD) , the m

Completed. Pausing for 10 secs...OK

Sending request for text = Listeria monocytogenes is a facultative intracellular pat hogen capable of inducing a robust cell-med

Completed. Pausing for 10 secs...OK

Sending request for text = Glaucoma is a leading cause of blindness worldwide . Prim ary open-angle glaucoma (POAG) is the mos

Completed. Pausing for 10 secs...OK

Sending request for text = In the human intestinal pathogen Clostridium difficile , flagella promote adherence to intestinal ep

Completed. Pausing for 10 secs...OK

Sending request for text = Endosporulation is an ancient bacterial developmental pro gram that culminates with the differentiati

Completed. Pausing for 10 secs...OK

Sending request for text = We explore a framework to model the dose response of allo steric multisite phosphorylation proteins u

Completed. Pausing for 10 secs...OK

Sending request for text = Quorum sensing (QS) enables bacterial multicellularity and selective advantage for communicating p

Completed. Pausing for 10 secs...OK

Sending request for text = Malaria burden remains high in the sub-Saharan region whe re helminths are prevalent and where childr

Completed. Pausing for 10 secs...OK

Sending request for text = Inflammation is known to be necessary for promoting , sustaining , and tuning CD8+ T cell responses

Completed. Pausing for 10 secs...OK

Sending request for text = In the current context of high fatality rates associated with American visceral leishmaniasis (VL)

Completed. Pausing for 10 secs...OK

Sending request for text = In Algeria , the treatment of visceral and cutaneous leis hmanioses (VL and CL) has been and contin

Completed. Pausing for 10 secs...OK

Sending request for text = Crohn's disease (CD) is a chronic inflammatory condition of diverse etiology . Exposure to foodbor

Completed. Pausing for 10 secs...OK

Sending request for text = In flowering plants , the egg and sperm cells form within haploid gametophytes . The female gametoph

Completed. Pausing for 10 secs...OK

Sending request for text = The role of footwear in protection against a range of Neg lected Tropical Diseases (NTDs) is gainin

Completed. Pausing for 10 secs...OK

Sending request for text = The pseudorabies virus (PRV) Us9 protein plays a centra

l role in targeting viral capsids and glyco

Completed. Pausing for 10 secs...OK

Sending request for text = Genetically identical cells exhibit extensive phenotypic variation even under constant and benign co

Completed. Pausing for 10 secs...OK

Sending request for text = Chikungunya virus (CHIKV) , an alphavirus and member of the Togaviridae family , is capable of cau

Completed. Pausing for 10 secs...OK

Sending request for text = The mTOR signaling pathways regulate cell growth and are involved in multiple human diseases . Here

Completed. Pausing for 10 secs...OK

Sending request for text = The functions of the majority of trypanosomatid-specific proteins are unknown , hindering our unders

Completed. Pausing for 10 secs...OK

Sending request for text = Tuberculosis is commonly considered a chronic lung diseas e , however , extrapulmonary infection can

Completed. Pausing for 10 secs...OK

Sending request for text = Microsporidia are fungi-related intracellular pathogens t hat may infect virtually all animals , but

Completed. Pausing for 10 secs...OK

Sending request for text = Chemokine receptors , a subclass of G protein coupled receptors (GPCRs) , play essential roles in

Completed. Pausing for 10 secs...OK

Sending request for text = Systemic leishmaniasis has been known to present with pro longed fever , hepatosplenomegaly and wasti

Completed. Pausing for 10 secs...OK

Sending request for text = The millions of mutations and polymorphisms that occur in human populations are potential predictors

Completed. Pausing for 10 secs...OK

Sending request for text = Within the human host , the malaria parasite Plasmodium f alciparum is exposed to multiple selection

Completed. Pausing for 10 secs...OK

Sending request for text = Long-term delivery of potent broadly-neutralizing antibod ies is a promising approach for the prevent

Completed. Pausing for 10 secs...OK

Sending request for text = The assumption of linear response of protein molecules to thermal noise or structural perturbations

Completed. Pausing for 10 secs...OK

Sending request for text = Several studies have suggested crosstalk between differen t clathrin-independent endocytic pathways .

Completed. Pausing for 10 secs...OK

Sending request for text = Two-component signaling systems are ubiquitous in bacteri a , Archaea and plants and play important r

Completed. Pausing for 10 secs...OK

Sending request for text = Oncolytic herpes simplex viruses (oHSVs) showed efficac y in clinical trials and practice . Most of

Completed. Pausing for 10 secs...OK

Sending request for text = The concerns raised from adenovirus 5 (Ad5) -based HIV vaccine clinical trials , where excess HIV

Completed. Pausing for 10 secs...OK

Sending request for text = X inactivation—the transcriptional silencing of one X chr omosome copy per female somatic cell—is uni

Completed. Pausing for 10 secs...OK

Sending request for text = CCCH-type zinc-finger antiviral protein (ZAP) is a host factor that restricts the infection of man

Completed. Pausing for 10 secs...OK

Sending request for text = Rift Valley fever virus (RVFV) is a major human and ani mal pathogen associated with severe disease

Completed. Pausing for 10 secs...OK

Sending request for text = Chemotherapeutic resistance in triple-negative breast can cer (TNBC) has brought great challenges t

Completed. Pausing for 10 secs...OK

Sending request for text = Toxoplasma gondii is an obligate intracellular parasite t hat can infect virtually all nucleated cell

Completed. Pausing for 10 secs...OK

Sending request for text = The origin recognition complex (ORC) coordinates a seri es of events that lead to initiation of DNA

Completed. Pausing for 10 secs...OK

Sending request for text = Brucellosis is one of the most common zoonoses globally , and Central Asia remains a Brucella hotspo

Completed. Pausing for 10 secs...OK

Sending request for text = Chromosome and genome stability are important for normal cell function as instability often correlat

Completed. Pausing for 10 secs...OK

Sending request for text = Prompt post-exposure prophylaxis (PEP) is essential in preventing the fatal onset of disease in pe

Completed. Pausing for 10 secs...OK

Sending request for text = Toxoplasma is an obligate intracellular parasite that rep licates in mammalian cells within a parasit

Completed. Pausing for 10 secs...OK

Sending request for text = Increased reports of human infections have led fasciolosi s , a widespread disease of cattle and shee

Completed. Pausing for 10 secs...OK

Sending request for text = The visual system transmits information about fast and sl ow changes in light intensity through separ

Completed. Pausing for 10 secs...OK

Sending request for text = Deeper exploration of the brain's vast synaptic networks will require new tools for high-throughput

Completed. Pausing for 10 secs...OK

Sending request for text = Zinc is a vital trace element crucial for the proper function of some 3 , 000 cellular proteins . Sp

Completed. Pausing for 10 secs...OK

Sending request for text = Replication fork integrity , which is essential for the m aintenance of genome stability , is monitor

Completed. Pausing for 10 secs...OK

Sending request for text = The role of plasmacytoid dendritic cells (pDC) in human immunodeficiency virus type 1 (HIV-1) in

Completed. Pausing for 10 secs...OK

Sending request for text = Marburg virus , the Kaposi's sarcoma-associated herpesvir us (KSHV) and Dengue virus all activate ,

Completed. Pausing for 10 secs...OK

Sending request for text = Geohelminth infections are common in rural western Kenya, but risk factors and effects among pregna

Completed. Pausing for 10 secs...OK

Sending request for text = Mycolactone is a macrolide produced by the skin pathogen Mycobacterium ulcerans , with cytotoxic , a

Completed. Pausing for 10 secs...OK

Sending request for text = Human African trypanosomiasis (HAT) , a lethal disease induced by Trypanosoma brucei gambiense , h

Completed. Pausing for 10 secs...OK

Sending request for text = South Asia possesses a significant amount of genetic dive rsity due to considerable intergroup differ

Sending request for text = Burkholderia pseudomallei is intrinsically resistant to a minoglycosides and macrolides , mostly due

Completed. Pausing for 10 secs...OK

Sending request for text = During eukaryotic development , the induction of a lineag e-specific transcription factor typically d

Completed. Pausing for 10 secs...OK

Sending request for text = C . elegans PAQR-2 is homologous to the insulin-sensitizing adiponectin receptors in mammals, and e

Completed. Pausing for 10 secs...OK

Sending request for text = Herpes viruses are prevalent and well characterized human pathogens . Despite extensive study , much

Completed. Pausing for 10 secs...OK

Sending request for text = Parasitic helminths evade , skew and dampen human immune responses through numerous mechanisms . Suc

Completed. Pausing for 10 secs...OK

Sending request for text = Neuronal stimulation causes $\sim 30\%$ shrinkage of the extrace llular space (ECS) between neurons and su

Completed. Pausing for 10 secs...OK

Sending request for text = Eukaryotic genomes contain significant amounts of transposons and repetitive DNA elements , which ,

Completed. Pausing for 10 secs...OK

Sending request for text = While the roles of rpoSBb and RpoS-dependent genes have b een studied extensively within the mammal ,

Completed. Pausing for 10 secs...OK

Sending request for text = Precise coordination between stamen and pistil developmen t is essential to make a fertile flower . M

Completed. Pausing for 10 secs...OK

Sending request for text = Dietary restriction (DR) extends lifespan in various sp ecies and also slows the onset of age-relat

Completed. Pausing for 10 secs...OK

Sending request for text = Transcription factor binding , chromatin modifications an d large scale chromatin re-organization und

Completed. Pausing for 10 secs...OK

Sending request for text = Endogenous retroviruses (ERVs) are remnants of ancient retroviral infections of the host germline

Completed. Pausing for 10 secs...OK

Sending request for text = The diagnosis of schistosomiasis currently relies on micr oscopic detection of schistosome eggs in st

Completed. Pausing for 10 secs...OK

Sending request for text = Machine learning has been used for estimation of potentia l energy surfaces to speed up molecular dyn

Completed. Pausing for 10 secs...OK

Sending request for text = Central Africa is a "hotspot" for emerging infectious dis eases (EIDs) of global and local importan

Completed. Pausing for 10 secs...OK

Sending request for text = Type III effectors are virulence factors of Gram-negative bacterial pathogens delivered directly int

Completed. Pausing for 10 secs...OK

Sending request for text = The RV254 cohort of HIV-infected very early acute (4thG stage 1 and 2) (stage 1/2) and late acut

Completed. Pausing for 10 secs...OK

Sending request for text = Schistosomiasis is a tropical parasitic disease afflictin g ~200 million people worldwide and current

Completed. Pausing for 10 secs...OK

Sending request for text = The primordial organization of the metazoan body is achie

ved during gastrulation by the establishmen

Completed. Pausing for 10 secs...OK

Sending request for text = The number of diagnosed cases of Autism Spectrum Disorder s (ASD) has increased dramatically over t

Completed. Pausing for 10 secs...OK

Sending request for text = Leishmaniasis is endemic in 98 countries with an estimate d 350 million people at risk and approximat

Skipping, error: Error code: 429 - {'error': {'message': 'Rate limit reached for m odel `mixtral-8x7b-32768` in organization `org_01ht1dgjfcej6vgd7m1qqbgj05` on tokens per minute (TPM): Limit 18000, Used 18198, Requested ~5045. Please try again in 17.4 773333333. Visit https://console.groq.com/docs/rate-limits for more information.',

'type': 'tokens', 'code': 'rate_limit_exceeded'}}

Completed. Pausing for 10 secs...OK

Sending request for text = As dengue spreads to new geographical regions and the for ce of infection changes in existing endemic

Completed. Pausing for 10 secs...OK

Sending request for text = In contrast to HIV infection in humans and SIV in macaque s , SIV infection of natural hosts includin

Completed. Pausing for 10 secs...OK

Sending request for text = The contribution of MEF2 TFs to the tumorigenic process i s still mysterious . Here we clarify that M

Completed. Pausing for 10 secs...OK

Sending request for text = Hydrophobins represent an important group of proteins fro m both a biological and nanotechnological s

Completed. Pausing for 10 secs...OK

Sending request for text = Aminoacyl tRNA synthetases are central enzymes required f or protein synthesis . These enzymes are th

Completed. Pausing for 10 secs...OK

Sending request for text = Viral infection of mammalian cells triggers the innate im mune response through non-self recognition

Completed. Pausing for 10 secs...OK

Sending request for text = It has become increasingly clear that the functions of eo sinophils extend beyond host defense and al

Completed. Pausing for 10 secs...OK

Sending request for text = Genome-wide replication timing studies have suggested tha t mammalian chromosomes consist of megabase

Completed. Pausing for 10 secs...OK

Sending request for text = Our nervous system can efficiently recognize objects in s pite of changes in contextual variables suc

Completed. Pausing for 10 secs...OK

Sending request for text = Understanding intrinsic and acquired resistance is crucia l to overcoming cancer chemotherapy failure

Completed. Pausing for 10 secs...OK

Sending request for text = Rickettsioses are endemic in sub-Sahara Africa . Burden o f disease , risk factors and transmission a

Completed. Pausing for 10 secs...OK

Sending request for text = Fatty acids affect a number of physiological processes , in addition to forming the building blocks

Completed. Pausing for 10 secs...OK

Sending request for text = Riboswitches are regulatory elements modulating gene expression in response to specific metabolite b

Completed. Pausing for 10 secs...OK

Sending request for text = To elucidate how gaze informs the construction of mental space during wayfinding in visual species 1

Completed. Pausing for 10 secs...OK

Sending request for text = The isthmic organizer mediating differentiation of mid- a

```
nd hindbrain during vertebrate development
Completed. Pausing for 10 secs...OK
Sending request for text = The apicomplexan parasite Theileria annulata transforms i
nfected host cells , inducing uncontrolled
Completed. Pausing for 10 secs...OK
Sending request for text = Broken replication forks result in DNA breaks that are no
rmally repaired via homologous recombinatio
Completed. Pausing for 10 secs...OK
Sending request for text = Onchocerciasis , an infection caused by the filarial nema
tode Onchocerca volvulus , is a major publi
Completed. Pausing for 10 secs...OK
Sending request for text = Intermittent iron-folic acid supplementation and regular
de-worming are effective initiatives to red
Completed. Pausing for 10 secs...OK
Sending request for text = Cell-mediated immunity plays a key role in host control o
f viral infection . This is exemplified by
Completed. Pausing for 10 secs...OK
Sending request for text = The translocated actin recruiting phosphoprotein ( Tarp )
is conserved among all pathogenic chlamydi
Completed. Pausing for 10 secs...OK
Sending request for text = Schistosomiasis japonica is a zoonosis with a number of m
ammalian species acting as reservoir hosts
Completed. Pausing for 10 secs...OK
Sending request for text = Mutations in the genes encoding cartilage associated prot
ein ( CRTAP ) and prolyl 3-hydroxylase 1 (
Completed. Pausing for 10 secs...OK
Sending request for text = In a classic example of the invasion of a species by a se
lfish genetic element , the P-element was h
Completed. Pausing for 10 secs...OK
Sending request for text = Recent interest in male-based sterile insect technique (
SIT ) and incompatible insect technique ( I
Completed. Pausing for 10 secs...OK
Sending request for text = Bacterial superantigens , a diverse family of toxins , in
duce an inflammatory cytokine storm that ca
Completed. Pausing for 10 secs...OK
Sending request for text = Understanding the mechanisms regulating cell cycle , prol
iferation and potency of pluripotent stem c
Completed. Pausing for 10 secs...OK
Sending request for text = Dengue displays a broad spectrum of clinical manifestatio
ns that may vary from asymptomatic to sever
Completed. Pausing for 10 secs...OK
Sending request for text = The immune response to Mycobacterium tuberculosis ( Mtb )
infection is complex . Experimental eviden
Completed. Pausing for 10 secs...OK
Sending request for text = Gene retroposition leads to considerable genetic variatio
n between individuals . Recent studies reve
Completed. Pausing for 10 secs...OK
Sending request for text = Neurocysticercosis ( NCC ) , infection of the central ner
vous system by Taenia solium cysticerci , i
Completed. Pausing for 10 secs...OK
Sending request for text = Yaws , caused by Treponema pallidum ssp . pertenue , is r
eportedly endemic in Ghana . Mass distribut
Completed. Pausing for 10 secs...OK
Sending request for text = Despite advances in the treatment of HIV infection with A
RT , elucidating strategies to overcome HIV
Completed. Pausing for 10 secs...OK
```

Sending request for text = Spodoptera exigua microarray was used to determine genes differentially expressed in S . exigua cell

Completed. Pausing for 10 secs...OK

Sending request for text = Apomixis , or asexual clonal reproduction through seeds , is of immense interest due to its potentia

Completed. Pausing for 10 secs...OK

Sending request for text = The prioritization of candidate disease-causing genes is a fundamental challenge in the post-genomic

Completed. Pausing for 10 secs...OK

Sending request for text = We develop a flexible , two-locus model for the spread of insecticide resistance applicable to mosqu

Completed. Pausing for 10 secs...OK

Sending request for text = Triatomines are hematophagous insects that act as vectors of Chagas disease . Rhodnius neglectus is

Completed. Pausing for 10 secs...OK

Sending request for text = With the post-genomic era came a dramatic increase in hig h-throughput technologies , of which transc

Completed. Pausing for 10 secs...OK

Sending request for text = A critical event in mammalian embryo development is const ruction of an inner cell mass surrounded by

Completed. Pausing for 10 secs...OK

Sending request for text = Structural flexibility in germline gene-encoded antibodie s allows promiscuous binding to diverse ant

Completed. Pausing for 10 secs...OK

Sending request for text = Locusts exhibit two interconvertible behavioral phases , solitarious and gregarious . While solitari

Completed. Pausing for 10 secs...OK

Sending request for text = Viral membrane fusion proceeds through a sequence of step s that are driven by triggered conformation

Completed. Pausing for 10 secs...OK

Sending request for text = It is widely recognized that we are entering an extinctio n event on a scale approaching the mass ext

Completed. Pausing for 10 secs...OK

Sending request for text = Phagocytosis of the opportunistic fungal pathogen Candida albicans by cells of the innate immune sys

Completed. Pausing for 10 secs...OK

Sending request for text = Rift Valley fever (RVF) is a vector-borne disease affecting ruminants and humans . Madagascar was

Completed. Pausing for 10 secs...OK

Sending request for text = Prions are self-propagating protein conformations . Transmission of the prion state between non-iden

Completed. Pausing for 10 secs...OK

Sending request for text = Given genomic variation data from multiple individuals , computing the likelihood of complex populat

Completed. Pausing for 10 secs...OK

Sending request for text = Persistent expression of high-risk HPV oncogenes is neces sary for the development of anogenital and

Completed. Pausing for 10 secs...OK

Sending request for text = The Southern Chiapas focus of onchocerciasis in Southern Mexico represents one of the major onchocer

Completed. Pausing for 10 secs...OK

Sending request for text = Listeria monocytogenes is a Gram-positive facultative int racellular bacterial pathogen that invades

Completed. Pausing for 10 secs...OK

Sending request for text = Bacterial pathogens are highly adaptable organisms , a quality that enables them to overcome changin

Sending request for text = Mlh1-Mlh3 is an endonuclease hypothesized to act in meios is to resolve double Holliday junctions int

Completed. Pausing for 10 secs...OK

Sending request for text = Intense use of antibiotics for the treatment of diseases such as tuberculosis , malaria , Staphyloco

Completed. Pausing for 10 secs...OK

Sending request for text = Autism spectrum disorders (ASDs) are highly heritable a nd characterised by deficits in social inte

Completed. Pausing for 10 secs...OK

Sending request for text = There is significant evidence that brain-infiltrating CD8 + T cells play a central role in the develo

Completed. Pausing for 10 secs...OK

Sending request for text = Tungiasis is a parasitic disease caused by the sand flea Tunga penetrans also known as jigger flea .

Completed. Pausing for 10 secs...OK

Sending request for text = An auxin maximum is positioned along the xylem axis of the Arabidopsis root tip . The pattern depend

Completed. Pausing for 10 secs...OK

Sending request for text = Gene expression changes in neural systems are essential f or environment-induced behavioral plasticit

Completed. Pausing for 10 secs...OK

Sending request for text = The earliest stages of development in most metazoans are driven by maternally deposited proteins and

Skipping, error: Error code: 429 - {'error': {'message': 'Rate limit reached for m odel `mixtral-8x7b-32768` in organization `org_01ht1dgjfcej6vgd7m1qqbgj05` on tokens per minute (TPM): Limit 18000, Used 17323, Requested ~5048. Please try again in 14.5 693333333s. Visit https://console.groq.com/docs/rate-limits for more information.', 'type': 'tokens', 'code': 'rate_limit_exceeded'}}

Completed. Pausing for 10 secs...OK

Sending request for text = Essentially all biological processes depend on protein-pr otein interactions (PPIs) . Timing of suc

Completed. Pausing for 10 secs...OK

Sending request for text = Nematode polyprotein allergens (NPAs) are an unusual cl ass of lipid-binding proteins found only in

Completed. Pausing for 10 secs...OK

Sending request for text = Ciguatera is a type of fish poisoning that occurs through out the tropics , particularly in vulnerabl

Completed. Pausing for 10 secs...OK

Sending request for text = Chagas disease is caused by Trypanosoma cruzi . The persi stence of the parasite is associated with t

Completed. Pausing for 10 secs...OK

Sending request for text = Phosphoinositides represent important lipid signals in the plant development and stress response . H

Completed. Pausing for 10 secs...OK

Sending request for text = Reductionism assumes that causation in the physical world occurs at the micro level , excluding the

Skipping, error: Error code: 429 - {'error': {'message': 'Rate limit reached for m odel `mixtral-8x7b-32768` in organization `org_01ht1dgjfcej6vgd7m1qqbgj05` on tokens per minute (TPM): Limit 18000, Used 16831, Requested ~5060. Please try again in 12.9 69s. Visit https://console.groq.com/docs/rate-limits for more information.', 'type': 'tokens', 'code': 'rate_limit_exceeded'}}

Completed. Pausing for 10 secs...OK

Sending request for text = Reactive oxygen species (ROS) produced in the mitochond rial respiratory chain (RC) are primary s

Completed. Pausing for 10 secs...OK

Sending request for text = Intracellular transport is an essential function in eucar yotic cells , facilitated by motor proteins

Completed. Pausing for 10 secs...OK

Sending request for text = Behavioral experiments are usually designed to tap into a specific cognitive function , but animals

Completed. Pausing for 10 secs...OK

Sending request for text = Aedes aegypti mosquitoes infected with Wolbachia bacteria are currently being released for arbovirus

Completed. Pausing for 10 secs...OK

Sending request for text = Adenoviruses are important human pathogens that have been developed as vectors for gene therapies an

Completed. Pausing for 10 secs...OK

Sending request for text = The eukaryotic genome is packaged into a nucleus in the f orm of chromatin . The fundamental structur

Completed. Pausing for 10 secs...OK

Sending request for text = Environmental insults such as oxidative stress can damage cell membranes . Lysosomes are particularl

Completed. Pausing for 10 secs...OK

Sending request for text = Phlebotomus orientalis Parrot (Diptera: Psychodidae) is the main vector of visceral leishmaniasis

Completed. Pausing for 10 secs...OK

Sending request for text = The Chinese government lists advanced schistosomiasis as a leading healthcare priority due to its se

Completed. Pausing for 10 secs...OK

Sending request for text = Human African Trypanosomiasis (HAT) , also referred to as sleeping sickness , and African Animal T

Completed. Pausing for 10 secs...OK

Sending request for text = Hexamethylene bisacetamide (HMBA) is a potent inducer o f cell differentiation and HIV production i

Completed. Pausing for 10 secs...OK

Sending request for text = Patients suffering from cutaneous leishmaniasis (CL) caused by New World Leishmania (Viannia) sp

Completed. Pausing for 10 secs...OK

Sending request for text = Enteropathogenic and enterohemorrhagic Escherichia coli (EPEC and EHEC) are closely-related pathog

Completed. Pausing for 10 secs...OK

Sending request for text = Robust protocols for the isolation of extracellular vesic les (EVs) from the rest of their excretor

Completed. Pausing for 10 secs...OK

Sending request for text = Systems biology proceeds through repeated cycles of experiment and modeling . One way to implement t

Completed. Pausing for 10 secs...OK

Sending request for text = Rotavirus is a major cause of diarrhea worldwide and exhi bits a pronounced small intestinal epitheli

Completed. Pausing for 10 secs...OK

Sending request for text = We report on results from whole-exome sequencing (WES) of 1 , 039 subjects diagnosed with autism s

Completed. Pausing for 10 secs...OK

Sending request for text = Madurella mycetomatis is the most prevalent causative age nt of eumycetoma in Sudan , an infection ch

Completed. Pausing for 10 secs...OK

Sending request for text = Herpes simplex virus (HSV) has provided the prototype f or viral latency with previously well-defin

Completed. Pausing for 10 secs...OK

Sending request for text = Misfolding and aggregation of host proteins are important features of the pathogenesis of neurodegen

Sending request for text = The 3D organization of chromosomes is crucial for regulating gene expression and cell function . Man

Completed. Pausing for 10 secs...OK

Sending request for text = Genetic variants in cis-regulatory elements or trans-acting regulators frequently influence the quan

Completed. Pausing for 10 secs...OK

Sending request for text = Over the last decade , multiple broadly neutralizing mono clonal antibodies (bN-mAbs) to the HIV-1

Completed. Pausing for 10 secs...OK

Sending request for text = Parasitic nematodes are responsible for devastating illne sses that plague many of the world's poores

Completed. Pausing for 10 secs...OK

Sending request for text = Cancers exhibit spatially heterogeneous , unique vascular architectures across individual samples ,

Completed. Pausing for 10 secs...OK

Sending request for text = HIV is known to spread efficiently both in a cell-free st ate and from cell to cell , however the rel

Completed. Pausing for 10 secs...OK

Sending request for text = Visual attention has many effects on neural responses , p roducing complex changes in firing rates ,

Completed. Pausing for 10 secs...OK

Sending request for text = The posterior signalling centre (PSC) , a small group o f specialised cells , controls hemocyte (b

Completed. Pausing for 10 secs...OK

Sending request for text = Genetic recombination is an important process during the evolution of many virus species and occurs

Completed. Pausing for 10 secs...OK

Sending request for text = Nucleosomes , the basic repeat units of eukaryotic chroma tin , have been suggested to influence the

Completed. Pausing for 10 secs...OK

Sending request for text = Conformational diversity of the native state plays a cent ral role in modulating protein function . T

Completed. Pausing for 10 secs...OK

Sending request for text = Metabolic pathways used by Mycobacterium tuberculosis (M tb) to establish and maintain infections a

Completed. Pausing for 10 secs...OK

Sending request for text = Two-cysteine peroxiredoxins are ubiquitous peroxidases th at play various functions in cells . In Lei

Completed. Pausing for 10 secs...OK

Sending request for text = The Histoplasma urine antigen (HUAg) is the preferred m ethod to diagnose progressive disseminated

Completed. Pausing for 10 secs...OK

Sending request for text = Worldwide , approximately ${\tt 1}$. ${\tt 8}$ million children die from diarrhea annually , and millions more suff

Completed. Pausing for 10 secs...OK

Sending request for text = Aedes-borne arboviruses continue to precipitate epidemics worldwide . In Dominican Republic , the ap

Completed. Pausing for 10 secs...OK

Sending request for text = Poly (ADP-ribose) polymerases (PARPs) catalyze the transfer of multiple poly (ADP-ribose) unit

Completed. Pausing for 10 secs...OK

Sending request for text = The Pam/Highwire/RPM-1 (PHR) proteins are conserved int racellular signaling hubs that regulate syn

Completed. Pausing for 10 secs...OK

Sending request for text = A subset of transcription factors like Gli2 and Oct1 are

bipotential — they can activate or repress

Completed. Pausing for 10 secs...OK

Sending request for text = A recent measure of 'integrated information', ΦDM , quantifies the extent to which a system generat

Completed. Pausing for 10 secs...OK

Sending request for text = The persistent spread of Rhodesian human African trypanos omiasis (HAT) in Uganda in recent years h

Completed. Pausing for 10 secs...OK

Sending request for text = The consensus that complexity begets stability in ecosyst ems was challenged in the seventies , a res

Completed. Pausing for 10 secs...OK

Sending request for text = Evidence suggests that the intracellular bacterial pathog en Coxiella burnetii (which causes Q fever

Completed. Pausing for 10 secs...OK

Sending request for text = Genome sequences are available for the human blood flukes , Schistosoma japonicum , S . mansoni and

Completed. Pausing for 10 secs...OK

Sending request for text = Heart valve disease is a major clinical problem worldwide . Cardiac valve development and homeostasi

Completed. Pausing for 10 secs...OK

Sending request for text = Since the initial description of the genomic patterns exp ected under models of positive selection ac

Completed. Pausing for 10 secs...OK

Sending request for text = Female Aedes aegypti mosquitoes are the principal vector for dengue fever , causing 50-100 million i

Completed. Pausing for 10 secs...OK

Sending request for text = Schistosomiasis is a parasitic disease and its distributi on , in space and time , can be influenced

Skipping, error: Error code: 429 - {'error': {'message': 'Rate limit reached for m odel `mixtral-8x7b-32768` in organization `org_01ht1dgjfcej6vgd7m1qqbgj05` on tokens per minute (TPM): Limit 18000, Used 17448, Requested ~5054. Please try again in 15.0 05999999s. Visit https://console.groq.com/docs/rate-limits for more information.', 'type': 'tokens', 'code': 'rate_limit_exceeded'}}

Completed. Pausing for 10 secs...OK

Sending request for text = Streptococcus pneumoniae (pneumococcal) meningitis is a common bacterial infection of the brain .

Completed. Pausing for 10 secs...OK

Sending request for text = Human papillomaviruses (HPVs) are DNA viruses associate d with major human cancers . As such there

Completed. Pausing for 10 secs...OK

Sending request for text = Penicillium marneffei is the most important thermal dimor phic fungus causing systemic mycosis in Chi

Completed. Pausing for 10 secs...OK

Sending request for text = In 2013 , Zika virus (ZIKV) emerged in French Polynesia and spread through the Pacific region betw

Completed. Pausing for 10 secs...OK

Sending request for text = The long non-coding RNA (lncRNA) Xist is a master regul ator of X-chromosome inactivation in mammal

Completed. Pausing for 10 secs...OK

Sending request for text = An increasing number of genetic variants have been identified for many complex diseases . However,

Completed. Pausing for 10 secs...OK

Sending request for text = Diagnosis and treatment are central elements of strategie s to control Trypanosoma brucei gambiense h

Completed. Pausing for 10 secs...OK

Sending request for text = Chagas disease , a neglected tropical disease that affect

s millions of Latin Americans , has been ef

Completed. Pausing for 10 secs...OK

Sending request for text = Citrobacter rodentium is a natural mouse pathogen that causes attaching and effacing (A/E) lesions

Completed. Pausing for 10 secs...OK

Sending request for text = Stochastic fluctuations in gene expression give rise to d istributions of protein levels across cell

Completed. Pausing for 10 secs...OK

Sending request for text = Monkeypox virus (MPXV) is the etiological agent of huma n (MPX). It is an emerging orthopoxvirus

Completed. Pausing for 10 secs...OK

Sending request for text = 5'-3' decay is the major mRNA decay pathway in many eukar yotes , including trypanosomes . After dead

Completed. Pausing for 10 secs...OK

Sending request for text = Recently , it was demonstrated that pancreatic new-born g lucagon-producing cells can regenerate and

Completed. Pausing for 10 secs...OK

Sending request for text = Eukaryotic cells must inhibit re-initiation of DNA replic ation at each of the thousands of origins i

Completed. Pausing for 10 secs...OK

Sending request for text = Invasive amebic diseases caused by Entamoeba histolytica are increasing among men who have sex with

Completed. Pausing for 10 secs...OK

Sending request for text = Gambian sleeping sickness or HAT (human African trypanos omiasis) is a neglected tropical disease c

Completed. Pausing for 10 secs...OK

Sending request for text = Imported strongyloidiasis is increasingly being diagnosed in non-endemic areas . The aim of this stu

Completed. Pausing for 10 secs...OK

Sending request for text = Vaccination is an effective method to protect against inf ectious diseases . An important considerati

Completed. Pausing for 10 secs...OK

Sending request for text = Under nitrogen deprivation , filaments of the cyanobacter ium Anabaena undergo a process of developme

Completed. Pausing for 10 secs...OK

Sending request for text = Japanese encephalitis virus (JEV) genotype dominance has shifted to genotype I (GI) from genotyp

Completed. Pausing for 10 secs...OK

Sending request for text = Biofilm formation by Candida albicans is a key aspect of its pathobiology and is regulated by an int

Completed. Pausing for 10 secs...OK

Sending request for text = A growing interest in asparagine (Asn) metabolism has c urrently been observed in cancer and infect

Completed. Pausing for 10 secs...OK

Sending request for text = To gain further insight on the association between human toxocariasis and epilepsy in light of the n

Completed. Pausing for 10 secs...OK

Sending request for text = ATM plays a critical role in cellular responses to DNA do uble-strand breaks (DSBs) . We describe a

Completed. Pausing for 10 secs...OK

Sending request for text = When it comes to interpreting others' behaviour , we almo st irrepressibly engage in the attribution

Completed. Pausing for 10 secs...OK

Sending request for text = Biological networks provide additional information for the analysis of human diseases , beyond the t

Completed. Pausing for 10 secs...OK

Sending request for text = Slowly varying activity in the striatum , the main Basal Ganglia input structure , is important for

Completed. Pausing for 10 secs...OK

Sending request for text = Polarized growth is maintained by both polarized exocytos is , which transports membrane components t

Completed. Pausing for 10 secs...OK

Sending request for text = Acetaminophen-induced liver injury in mice is a model for drug-induced liver injury in humans . A pr

Completed. Pausing for 10 secs...OK

Sending request for text = According to the Chagas congenital transmission guides , the diagnosis of infants , born to Trypanos

Completed. Pausing for 10 secs...OK

Sending request for text = We propose a biophysical model of Escherichia coli that p redicts growth rate and an effective cellul

Completed. Pausing for 10 secs...OK

Sending request for text = MYB transcription factors are involved in many biological processes , including metabolism , develop

Completed. Pausing for 10 secs...OK

Sending request for text = Mitochondrial complex I , the largest and most complicate d proton pump of the respiratory chain , li

Completed. Pausing for 10 secs...OK

Sending request for text = Fever is a regulated increase of the body temperature resulting from both infectious and non-infecti

Completed. Pausing for 10 secs...OK

Sending request for text = Actomyosin-based cortical flow is a fundamental engine for cellular morphogenesis . Cortical flows a

Completed. Pausing for 10 secs...OK

Sending request for text = Seedling establishment is inhibited on media containing h igh levels (\sim 6%) of glucose or fructose .

Completed. Pausing for 10 secs...OK

Sending request for text = The molecular basis of second messenger signaling relies on an array of proteins that synthesize , d

Completed. Pausing for 10 secs...OK

Sending request for text = Humans can learn and store multiple visuomotor mappings (dual-adaptation) when feedback for each i

Completed. Pausing for 10 secs...OK

Sending request for text = The inferior olivary nucleus provides one of the two main inputs to the cerebellum: the so-called cl

Completed. Pausing for 10 secs...OK

Sending request for text = Iron is essential for all known life due to its redox properties; however , these same properties ca

Completed. Pausing for 10 secs...OK

Sending request for text = The nuclear pore complex (\mbox{NPC}) regulates molecular traffic across the nuclear envelope (\mbox{NE}) . Se

Completed. Pausing for 10 secs...OK

Sending request for text = The nonhuman primate (NHP) model is often the best experimental model for testing interventions de

Completed. Pausing for 10 secs...OK

Sending request for text = Sensory systems adapt their neural code to changes in the sensory environment , often on multiple ti

Completed. Pausing for 10 secs...OK

Sending request for text = Previous studies identified two mammalian prion protein (PrP) polybasic domains that bind the dise

Completed. Pausing for 10 secs...OK

Sending request for text = Animals are able to reach a desired state in an environme nt by controlling various behavioral patter

Sending request for text = Haptophytes are recognized as seminal players in aquatic ecosystem function . These algae are import

Completed. Pausing for 10 secs...OK

Sending request for text = Breast cancers that are "triple-negative" for the clinica l markers ESR1 , PGR , and HER2 typically b

Completed. Pausing for 10 secs...OK

Sending request for text = Aedes aegypti (L.) is the primary vector of dengue, the most important arboviral infection globa

Completed. Pausing for 10 secs...OK

Sending request for text = Animals integrate external cues with information about in ternal conditions such as metabolic state t

Completed. Pausing for 10 secs...OK

Sending request for text = Understanding the transcriptional regulation of pluripote nt cells is of fundamental interest and wil

Completed. Pausing for 10 secs...OK

Sending request for text = Replication of non-segmented negative-strand RNA viruses requires the continuous supply of the nucle

Completed. Pausing for 10 secs...OK

Sending request for text = Understanding the computational implications of specific synaptic connectivity patterns is a fundame

Completed. Pausing for 10 secs...OK

Sending request for text = Enterovirus 71 (EV71) is one of the major causative age nts of hand , foot , and mouth disease , a

Completed. Pausing for 10 secs...OK

Sending request for text = Leishmaniasis is a serious global health problem affectin g many people worldwide . While patients wi

Completed. Pausing for 10 secs...OK

Sending request for text = Natural transformation is the widespread biological proce ss by which "competent" bacteria take up fr

Completed. Pausing for 10 secs...OK

Sending request for text = In fungal cells cytokinesis requires coordinated closure of a contractile actomyosin ring (CAR) an

Completed. Pausing for 10 secs...OK

Sending request for text = Glanders , caused by the gram-negative bacterium Burkhold eria mallei , is a highly infectious zoonot

Completed. Pausing for 10 secs...OK

Sending request for text = American cutaneous leishmaniasis (ACL) is a complicated disease producing about 67 . 000 new cases

Completed. Pausing for 10 secs...OK

Sending request for text = In Escherichia coli , the biosynthetic pathways of severa l small iron-scavenging molecules known as

Completed. Pausing for 10 secs...OK

Sending request for text = A fundamental task in sequence analysis is to calculate the probability of a multiple alignment give

Completed. Pausing for 10 secs...OK

Sending request for text = The mechanism by which immunity to Herpes Simplex Virus (HSV) is initiated is not completely defin

Skipping, error: Error code: 429 - {'error': {'message': 'Rate limit reached for m odel `mixtral-8x7b-32768` in organization `org_01ht1dgjfcej6vgd7m1qqbgj05` on tokens per minute (TPM): Limit 18000, Used 17458, Requested ~5044. Please try again in 15.0 06s. Visit https://console.groq.com/docs/rate-limits for more information.', 'type': 'tokens', 'code': 'rate_limit_exceeded'}}

Completed. Pausing for 10 secs...OK

Sending request for text = An important area in the cell biology of intracellular parasitism is the customization of parasitoph

Skipping, error: Error code: 429 - {'error': {'message': 'Rate limit reached for m odel `mixtral-8x7b-32768` in organization `org_01ht1dgjfcej6vgd7m1qqbgj05` on tokens per minute (TPM): Limit 18000, Used 18608, Requested ~5051. Please try again in 18.8 66333333s. Visit https://console.groq.com/docs/rate-limits for more information.', 'type': 'tokens', 'code': 'rate_limit_exceeded'}}

Completed. Pausing for 10 secs...OK

Sending request for text = Homology-directed repair is a powerful mechanism for main taining and altering genomic structure . We

Skipping, error: Error code: 429 - {'error': {'message': 'Rate limit reached for m odel `mixtral-8x7b-32768` in organization `org_01ht1dgjfcej6vgd7m1qqbgj05` on tokens per minute (TPM): Limit 18000, Used 18302, Requested ~5083. Please try again in 17.9 503333333s. Visit https://console.groq.com/docs/rate-limits for more information.',

'type': 'tokens', 'code': 'rate_limit_exceeded'}}

Completed. Pausing for 10 secs...OK

Sending request for text = The cerebellum allows us to rapidly adjust motor behavior to the needs of the situation . It is comm

Completed. Pausing for 10 secs...OK

Sending request for text = Amyotrophic lateral sclerosis (ALS) is a devastating ne urodegenerative disease characterized by se

Completed. Pausing for 10 secs...OK

Sending request for text = Chagas disease is still a major public health issue in many Latin American countries. One of the cu

Completed. Pausing for 10 secs...OK

Sending request for text = Rabies in bats is considered enzootic throughout the New World , but few comparative data are availa

Completed. Pausing for 10 secs...OK

Sending request for text = Posttranslational modification of histones is known to regulate chromatin structure and transcriptio

Completed. Pausing for 10 secs...OK

Sending request for text = Mitochondria originated from proteobacterial endosymbiont s , and their transition to organelles was

Completed. Pausing for 10 secs...OK

Sending request for text = Inappropriate activation or inadequate regulation of CD4+ and CD8+ T cells may contribute to the ini

Completed. Pausing for 10 secs...OK

Sending request for text = Socio-cultural and economic factors constitute real barri ers for uptake of screening and treatment o

Completed. Pausing for 10 secs...OK

Sending request for text = Since December 2009 , Médecins Sans Frontières has diagno sed and treated patients with visceral leis

Completed. Pausing for 10 secs...OK

Sending request for text = Gyrase catalyzes negative supercoiling of DNA in an ATP-d ependent reaction that helps condense bacte

Completed. Pausing for 10 secs...OK

Sending request for text = The intracellular protozoan Leishmania replicates in para sitophorous vacuoles (PV) that share many

Completed. Pausing for 10 secs...OK

Sending request for text = The mechanisms and treatment of psychomotor retardation , which includes motor and cognitive impairm

Completed. Pausing for 10 secs...OK

Sending request for text = Human cytomegalovirus (HCMV) is a ubiquitous virus that is a major pathogen in newborns and immuno

Completed. Pausing for 10 secs...OK

Sending request for text = Mitochondrial DNA (mtDNA) sequence variants segregate i n mutation and tissue-specific manners , bu

Completed. Pausing for 10 secs...OK

Sending request for text = Buruli ulcer (BU) is a geographically-restricted infect ion caused by Mycobacterium ulcerans; conta

Completed. Pausing for 10 secs...OK

Sending request for text = Several proteins that play key roles in cholesterol synth esis , regulation , trafficking and signali

Completed. Pausing for 10 secs...OK

Sending request for text = Ophthalmo-acromelic syndrome (OAS) , also known as Waar denburg Anophthalmia syndrome , is defined

Completed. Pausing for 10 secs...OK

Sending request for text = Treatment of human cells with Type 1 interferons restrict s HIV replication . Here we report that the

Completed. Pausing for 10 secs...OK

Sending request for text = Mutualisms are interspecific interactions in which both p layers benefit . Explaining their maintenan

Completed. Pausing for 10 secs...OK

Sending request for text = Vertical growth of plants is a dynamic process that is in fluenced by genetic and environmental facto

Completed. Pausing for 10 secs...OK

Sending request for text = The wetlands of the Brazilian Pantanal host large concent rations of diverse wildlife species and hem

Completed. Pausing for 10 secs...OK

Sending request for text = Scabies is one of the commonest dermatological conditions globally; however it is a largely underexp

Completed. Pausing for 10 secs...OK

Sending request for text = Many important cellular processes are performed by molecular machines, composed of multiple protein

Completed. Pausing for 10 secs...OK

Sending request for text = Burkholderia pseudomallei is a mostly saprophytic bacteri um , but can infect humans where it causes

Completed. Pausing for 10 secs...OK

Sending request for text = $Understanding\ cellular\ function\ requires\ accurate\ ,\ comprehensive\ representations\ of\ metabolism\ .$ Ge

Completed. Pausing for 10 secs...OK

Sending request for text = Differentiating cells interact with their extracellular e nvironment over time . Chondrocytes embed t

Completed. Pausing for 10 secs...OK

Sending request for text = Heterochromatic homology ensures the segregation of achia smate chromosomes during meiosis I in Droso

Completed. Pausing for 10 secs...OK

Sending request for text = Visceral leishmaniasis (VL) is a zoonosis of great importance . Limitations in current VL control

Completed. Pausing for 10 secs...OK

Sending request for text = X chromosomes are unusual in many regards , not least of which is their nonrandom gene content . The

Completed. Pausing for 10 secs...OK

Sending request for text = Both anatomically modern humans and the gastric pathogen Helicobacter pylori originated in Africa ,

Completed. Pausing for 10 secs...OK

Sending request for text = Dengue virus NS5 is the most highly conserved amongst the viral non-structural proteins and is respo

Completed. Pausing for 10 secs...OK

Sending request for text = Vertical control and elimination programs focused on spec ific neglected tropical diseases (NTDs) c

Completed. Pausing for 10 secs...OK

Sending request for text = In Saccharomyces cerevisiae , the conserved phosphatase C dc14 is required for the exit from mitosis $\frac{1}{2}$

Sending request for text = An important research problem in computational biology is the identification of expression programs

Completed. Pausing for 10 secs...OK

Sending request for text = Memory type 1 T helper (TH1) cells are characterized by the stable expression of interferon (IFN

Completed. Pausing for 10 secs...OK

Sending request for text = Pathogen-associated secretion systems translocate numerou s effector proteins into eukaryotic host ce

Completed. Pausing for 10 secs...OK

Sending request for text = The pattern of viral diversification in newly infected in dividuals provides information about the ho

Completed. Pausing for 10 secs...OK

Sending request for text = We introduce and analyze a minimal model of epigenetic si lencing in budding yeast , built upon known

Completed. Pausing for 10 secs...OK

Sending request for text = Severe acute malnutrition (SAM) among children remains a major health problem in many developing c

Completed. Pausing for 10 secs...OK

Sending request for text = In yeast , as in humans , telomere length varies among in dividuals and is controlled by multiple loc

Completed. Pausing for 10 secs...OK

Sending request for text = Understanding the cognitive and neural processes that und erlie human decision making requires the su

Completed. Pausing for 10 secs...OK

Sending request for text = Hereditary nasal parakeratosis (HNPK) , an inherited mo nogenic autosomal recessive skin disorder ,

Completed. Pausing for 10 secs...OK

Sending request for text = Genetic reassortment between influenza A viruses (IAVs) facilitate emergence of pandemic strains,

Completed. Pausing for 10 secs...OK

Sending request for text = Offspring of Schistosoma mansoni-infected women in schist osomiasis-endemic areas may be sensitised i

Completed. Pausing for 10 secs...OK

Sending request for text = Following an infectious challenge , macrophages have to b e activated in order to allow efficient cle

Completed. Pausing for 10 secs...OK

Sending request for text = There is renewed vigour in efforts to eliminate neglected tropical diseases including sleeping sickn

Completed. Pausing for 10 secs...OK

Sending request for text = Recombination is a fundamental biological process with pr ofound evolutionary implications . Theory p

Completed. Pausing for 10 secs...OK

Sending request for text = IDN2/RDM12 has been previously identified as a component of the RNA-directed DNA methylation (RdDM

Completed. Pausing for 10 secs...OK

Sending request for text = Neutrophils are the first line of defense against invading pathogens and are rapidly recruited to th

Completed. Pausing for 10 secs...OK

Sending request for text = Vaccination for the control of bovine tuberculosis (bTB) in cattle is not currently used within an

Completed. Pausing for 10 secs...OK

Sending request for text = Trichuris trichiura is a human parasitic whipworm infecting around 500 million people globally , dam $\,$

Completed. Pausing for 10 secs...OK

Sending request for text = The idea of "date" and "party" hubs has been influential

in the study of protein-protein interaction

Completed. Pausing for 10 secs...OK

Sending request for text = Recent years have seen the development of numerous method ologies for reconstructing transmission tre

Completed. Pausing for 10 secs...OK

Sending request for text = X chromosome inactivation (XCI) silences most genes on one X chromosome in female mammals , but so

Completed. Pausing for 10 secs...OK

Sending request for text = Multiple cysteine proteases of malaria parasites are required for maintenance of parasite metabolic

Completed. Pausing for 10 secs...OK

Sending request for text = The unique capability of acetogens to ferment a broad ran ge of substrates renders them ideal candida

Completed. Pausing for 10 secs...OK

Sending request for text = Current genome-wide association studies (GWAS) are moving towards the use of large cohorts of prim

Completed. Pausing for 10 secs...OK

Sending request for text = Saccharomyces eubayanus is the non-S . cerevisiae parent of the lager-brewing hybrid S . pastorianus

Completed. Pausing for 10 secs...OK

Sending request for text = The variants of human influenza virus have caused , and c ontinue to cause , substantial morbidity an

Completed. Pausing for 10 secs...OK

Sending request for text = The Asian soybean rust fungus , Phakopsora pachyrhizi , i s an obligate biotrophic pathogen causing s

Completed. Pausing for 10 secs...OK

Sending request for text = The obligate intracellular bacterium Chlamydia trachomati s invades into host cells to replicate insi

Completed. Pausing for 10 secs...OK

Sending request for text = Since the first experimental evidences of active conducta nces in dendrites , most neurons have been

Completed. Pausing for 10 secs...OK

Sending request for text = The inference of regulatory interactions and quantitative models of gene regulation from time-series

Skipping, error : The read operation timed out

Completed. Pausing for 10 secs...OK

Sending request for text = Hotspot detection and characterization has played an increasing role in understanding the maintenanc

Completed. Pausing for 10 secs...OK

Sending request for text = Distinguishing mutations that determine an organism's phe notype from (near-) neutral 'hitchhikers'

Completed. Pausing for 10 secs...OK

Sending request for text = A two-step , high-throughput RNAi silencing screen was us ed to identify host cell factors required d

Completed. Pausing for 10 secs...OK

Sending request for text = Black Sigatoka or black leaf streak disease , caused by t he Dothideomycete fungus Pseudocercospora f

Completed. Pausing for 10 secs...OK

Sending request for text = Changes in cis-regulatory element composition that result in novel patterns of gene expression are t

Completed. Pausing for 10 secs...OK

Sending request for text = For most species , light represents the principal environ mental signal for entraining the endogenous

Completed. Pausing for 10 secs...OK

Sending request for text = Parasites causing malaria need to migrate in order to pen etrate tissue barriers and enter host cells

Sending request for text = Amphotericin B is an increasingly important tool in effor ts to reduce the global disease burden pose

Completed. Pausing for 10 secs...OK

Sending request for text = The encoding of sensory information in the human brain is thought to be optimised by two principal p

Completed. Pausing for 10 secs...OK

Sending request for text = The three sub-species of Trypanosoma brucei are important pathogens of sub-Saharan Africa . T . b .

Completed. Pausing for 10 secs...OK

Sending request for text = DNA methylation of retroviral promoters and enhancers loc alized in the provirus 5' long terminal rep

Completed. Pausing for 10 secs...OK

Sending request for text = Understanding the relationship between genetic and phenot ypic variation is one of the great outstand

Completed. Pausing for 10 secs...OK

Sending request for text = The rectified surface EMG signal is commonly used as an e stimator of the neural drive to muscles and

Completed. Pausing for 10 secs...OK

Sending request for text = Auxin is necessary for the inhibition of root growth indu ced by aluminium (Al) stress , however th

Completed. Pausing for 10 secs...OK

Sending request for text = Natural killer (NK) cell responses in primates are regulated in part through interactions between

Completed. Pausing for 10 secs...OK

Sending request for text = Bacterial pathogens must sense , respond and adapt to a m yriad of dynamic microenvironmental stresso

Completed. Pausing for 10 secs...OK

Sending request for text = The control over iron homeostasis is critical in host-pat hogen-interaction . Iron plays not only mul

Completed. Pausing for 10 secs...OK

Sending request for text = Proteins frequently accomplish their biological function by collective atomic motions . Yet the iden

Completed. Pausing for 10 secs...OK

Sending request for text = Nuclear genes of euglenids and marine diplonemids harbor atypical , nonconventional introns which ar

Completed. Pausing for 10 secs...OK

Sending request for text = $Coxsackievirus\ B$ (CVB) is an enterovirus that most comm only causes a self-limited febrile illness

Completed. Pausing for 10 secs...OK

Sending request for text = The cytosolic pathogen Burkholderia pseudomallei and caus ative agent of melioidosis has been shown t

Completed. Pausing for 10 secs...OK

Sending request for text = Pollen-stigma interactions are essential for pollen germi nation . The highly regulated process of po

Completed. Pausing for 10 secs...OK

Sending request for text = RNase III-related enzymes play key roles in cleaving doub le-stranded RNA in many biological systems

Completed. Pausing for 10 secs...OK

Sending request for text = The filarial nematode Brugia malayi is an etiological age nt of Lymphatic Filariasis . The capability

Completed. Pausing for 10 secs...OK

Sending request for text = Scabies and impetigo are common , important and treatable skin conditions . Reports from several Pac

Completed. Pausing for 10 secs...OK

Sending request for text = Neurogenesis continues through the adult life of mice in

the subgranular zone of the dentate gyrus i

Completed. Pausing for 10 secs...OK

Sending request for text = Chagas disease is a major health problem in Latin America , and an emerging infectious disease in th

Completed. Pausing for 10 secs...OK

Sending request for text = Genome-wide association studies (GWAS) have been fruitf ul in identifying disease susceptibility lo

Completed. Pausing for 10 secs...OK

Sending request for text = Memory CD8+ T cells in the circulation rapidly infiltrate non-lymphoid tissues following infection a

Completed. Pausing for 10 secs...OK

Sending request for text = In neurons polarized trafficking of vesicle-bound membran e proteins gives rise to the distinct molec

Completed. Pausing for 10 secs...OK

Sending request for text = Sex-determining mechanisms are diverse among animal linea ges and can be broadly divided into two maj

Completed. Pausing for 10 secs...OK

Sending request for text = A genital herpes vaccine is urgently needed to prevent pa in and suffering , reduce the incidence of

Completed. Pausing for 10 secs...OK

Sending request for text = Segmental duplications and other highly repetitive region s of genomes contribute significantly to ce

Completed. Pausing for 10 secs...OK

Sending request for text = Schistosomiasis affects 218 million people worldwide , wi th most infections in Africa . Prevalence s

Completed. Pausing for 10 secs...OK

Sending request for text = Ribosomal DNA is one of the most variable regions in the human genome with respect to copy number .

Completed. Pausing for 10 secs...OK

Sending request for text = Mechanistic determinants of bacterial growth , death , an d spread within mammalian hosts cannot be f

Completed. Pausing for 10 secs...OK

Sending request for text = It is shown that existing processing schemes of 3D motion perception such as interocular velocity di

Completed. Pausing for 10 secs...OK

Sending request for text = The O-acetylation of polysaccharides is a common modifica tion used by pathogenic organisms to protec

Completed. Pausing for 10 secs...OK

Sending request for text = Candida albicans is among the most common causes of human fungal infections and is an important sour

Completed. Pausing for 10 secs...OK

Sending request for text = Alzheimer's disease (AD) and related dementias are a ma jor public health challenge and present a t

Completed. Pausing for 10 secs...OK

Sending request for text = After decades of using urea as denaturant , the kinetic r ole of this molecule in the unfolding proce

Completed. Pausing for 10 secs...OK

Sending request for text = A systematic literature review was conducted to describe the epidemiology of dengue disease in Colom

Completed. Pausing for 10 secs...OK

Sending request for text = Tegumentary leishmaniasis (TL) is a disease of skin an d/or mucosal tissues caused by Leishmania pa

Completed. Pausing for 10 secs...OK

Sending request for text = Genetic variation in the major histocompatibility complex (MHC) affects CD4:CD8 lineage commitment

Sending request for text = After the United States , Spain comes second in the list of countries receiving migrants from Latin

Completed. Pausing for 10 secs...OK

Sending request for text = Hundreds of genetic markers have shown associations with various complex diseases , yet the "missing

Completed. Pausing for 10 secs...OK

Sending request for text = Agenesis of the corpus callosum (ACC), cerebellar hypoplasia (CBLH), and polymicrogyria (PMG

Completed. Pausing for 10 secs...OK

Sending request for text = Regeneration requires the precise integration of cues that initiate proliferation, direct different

Completed. Pausing for 10 secs...OK

Sending request for text = Exosomes can transfer genetic materials between cells . T heir roles in viral infections are beginnin

Completed. Pausing for 10 secs...OK

Sending request for text = PTEN-induced kinase 1 (PINK1) , which is required for m itochondrial homeostasis , is a gene produc

Completed. Pausing for 10 secs...OK

Sending request for text = Buruli ulcer (BU) , caused by infection with Mycobacter ium ulcerans , is a chronic necrotizing hum

Completed. Pausing for 10 secs...OK

Sending request for text = Increased production of reactive oxygen species (ROS) in mitochondria underlies major systemic dis

Completed. Pausing for 10 secs...OK

Sending request for text = The early embryo of Drosophila melanogaster provides a powerful model system to study the role of ge

Completed. Pausing for 10 secs...OK

Sending request for text = Brucellosis is an important zoonotic disease causing huge economic losses worldwide . Currently no e

Completed. Pausing for 10 secs...OK

Sending request for text = The cyclin-dependent kinases (CDKs) that promote cell-c ycle progression are targets for negative r

Completed. Pausing for 10 secs...OK

Sending request for text = Turning genetic discoveries identified in genome-wide ass ociation (GWA) studies into biological me

Completed. Pausing for 10 secs...OK

Sending request for text = The mechanism (s) of action of most commonly used pharm acological blockers of voltage-gated ion ch

Completed. Pausing for 10 secs...OK

Sending request for text = MicroRNAs play key roles in tumor metastasis . Here , we describe the regulation and function of miR

Completed. Pausing for 10 secs...OK

Sending request for text = Despite the well-documented effects of plasma lipid lower ing regimes halting atherosclerosis lesion

Completed. Pausing for 10 secs...OK

Sending request for text = The cell envelope of Gram-negative bacteria is a formidab le barrier that is difficult for antimicrob

Completed. Pausing for 10 secs...OK

Sending request for text = Dynamical processes in biology are studied using an ever-increasing number of techniques , each of w

Completed. Pausing for 10 secs...OK

Sending request for text = Snake venom hemorrhagic metalloproteinases (SVMPs) of the PI , PII and PIII classes were compared

Completed. Pausing for 10 secs...OK

Sending request for text = The homeotic genes in Drosophila melanogaster are aligned on the chromosome in the order of the body

Sending request for text = Focal seizures are episodes of pathological brain activit y that appear to arise from a localised are

Completed. Pausing for 10 secs...OK

Sending request for text = In contrast to animals and lower plant species , sperm ce lls of flowering plants are non-motile and

Completed. Pausing for 10 secs...OK

Sending request for text = Oncolytic viruses aim to specifically kill tumor cells .

A major challenge is the effective targetin

Completed. Pausing for 10 secs...OK

Sending request for text = Duplication of centrosomes once per cell cycle is essenti al for bipolar spindle formation and genome

Completed. Pausing for 10 secs...OK

Sending request for text = The precise role of viral protein R (\mbox{Vpr}) , an HIV-1-en coded protein , during HIV-1 infection and

Completed. Pausing for 10 secs...OK

Sending request for text = Vivax malaria was successfully eliminated in the Republic of Korea (South Korea) in the late 1970s

Completed. Pausing for 10 secs...OK

Sending request for text = Enhancement of transcription by a splicing-competent intr on is an evolutionarily conserved feature a

Completed. Pausing for 10 secs...OK

Sending request for text = A single nucleotide substitution in intron 3 of IGF2 in p igs abrogates a binding site for a represso

Completed. Pausing for 10 secs...OK

Sending request for text = Understanding of the RNA editing process has been broaden ed considerably by the next generation sequ

Completed. Pausing for 10 secs...OK

Sending request for text = Several studies have reported optimal population decoding of sensory responses in two-alternative vi

Completed. Pausing for 10 secs...OK

Sending request for text = Piwi-interacting RNAs (piRNAs) fulfill a critical , con served role in defending the genome against

Completed. Pausing for 10 secs...OK

Sending request for text = Brucella species replicate within host cells in the form of endoplasmic reticulum (ER) -derived va

Completed. Pausing for 10 secs...OK

Sending request for text = Tombusviruses depend on subversions of multiple host fact ors and retarget cellular pathways to suppo

Completed. Pausing for 10 secs...OK

Sending request for text = Transmission of dengue virus (DENV) from humans to mosq uitoes represents a critical component of d

Completed. Pausing for 10 secs...OK

Sending request for text = Many chemotherapeutic drugs are differentially effective from one patient to the next . Understandin

Completed. Pausing for 10 secs...OK

Sending request for text = The genetics of lifespan determination is poorly understo od . Most research has been done on short-l

Completed. Pausing for 10 secs...OK

Sending request for text = Among the strategies targeting vector control , the exploitation of the endosymbiont Wolbachia to pr

Completed. Pausing for 10 secs...OK

Sending request for text = Many biological responses to intra- and extracellular sti muli are regulated through complex networks

Completed. Pausing for 10 secs...OK

Sending request for text = Environmental enteropathy (EE) is associated with growt

h failure , micronutrient malabsorption and

Completed. Pausing for 10 secs...OK

Sending request for text = Diverse animal and plant viruses block the re-infection o f host cells by the same or highly similar

Completed. Pausing for 10 secs...OK

Sending request for text = Immunization of mice with the Trypanosoma cruzi trans-sia lidase (TS) gene using plasmid DNA , aden

Completed. Pausing for 10 secs...OK

Sending request for text = The Polo-like kinase homolog in Trypanosoma brucei , TbPL K , plays essential roles in basal body seg

Completed. Pausing for 10 secs...OK

Sending request for text = DExD/H box RNA helicases , such as the RIG-I-like receptors (RLR) , are important components of th

Completed. Pausing for 10 secs...OK

Sending request for text = A biophysical model of receptor potential generation in t he male moth olfactory receptor neuron is p

Completed. Pausing for 10 secs...OK

Sending request for text = Cellular stresses activate the tumor suppressor p53 prote in leading to selective binding to DNA resp

Completed. Pausing for 10 secs...OK

Sending request for text = Synthetic biology aims to design de novo biological syste ms and reengineer existing ones . These eff

Completed. Pausing for 10 secs...OK

Sending request for text = From bacteria to humans , individual cells within isogeni c populations can show significant variatio

Completed. Pausing for 10 secs...OK

Sending request for text = African trypanosomiasis is caused by the protozoan parasi te Trypanosoma brucei , transmitted between

Completed. Pausing for 10 secs...OK

Sending request for text = For most organisms , chemosensation is critical for survival and is mediated by large families of $\operatorname{\mathsf{ch}}$

Completed. Pausing for 10 secs...OK

Sending request for text = Studies of human trisomies indicate a remarkable relation ship between abnormal meiotic recombination

Completed. Pausing for 10 secs...OK

Sending request for text = Blood-feeding arthropods—like mosquitoes , sand flies , a nd ticks—transmit many diseases that impose

Completed. Pausing for 10 secs...OK

Sending request for text = Leishmaniasis is an important disease that affects 12 mil lion people in 88 countries , with 2 millio

Completed. Pausing for 10 secs...OK

Sending request for text = AID (Activation Induced Deaminase) deaminates cytosines in DNA to initiate immunoglobulin gene div

Completed. Pausing for 10 secs...OK

Sending request for text = Microbial metabolism of plant polysaccharides is an important part of environmental carbon cycling,

Completed. Pausing for 10 secs...OK

Sending request for text = 1974-2005 studies across Sierra Leone showed onchocercias is endemicity in 12 of 14 health districts

Completed. Pausing for 10 secs...OK

Sending request for text = High-throughput sequencing based techniques , such as 16S rRNA gene profiling , have the potential t

Completed. Pausing for 10 secs...OK

Sending request for text = The abundance of lysozyme on mucosal surfaces suggests th at successful colonizers must be able to ev Completed. Pausing for 10 secs...OK

Sending request for text = Dengue is the most important arthropod borne viral diseas e worldwide in terms of morbidity and morta

Completed. Pausing for 10 secs...OK

Sending request for text = Multiple Myeloma (MM) is a plasma cell malignancy with significantly greater incidence and mortali

Completed. Pausing for 10 secs...OK

Sending request for text = The vast majority of mutations in the exome of cancer cel ls are passengers , which do not affect the

Completed. Pausing for 10 secs...OK

Sending request for text = Polyglutamine (polyQ) expansion in exon1 (XN1) of the huntingtin protein is linked to Huntington

Completed. Pausing for 10 secs...OK

Sending request for text = CRISPR (Clustered Regularly Interspaced Short Palindromi c Repeats) loci , together with cas (CRIS

Completed. Pausing for 10 secs...OK

Sending request for text = Most organisms have an endogenous circadian clock that is synchronized to environmental signals such

Completed. Pausing for 10 secs...OK

Sending request for text = The Saccharomyces cerevisae RAD3 gene is the homolog of h uman XPD , an essential gene encoding a DNA

Completed. Pausing for 10 secs...OK

Sending request for text = During persistent infection , optimal expression of bacte rial factors is required to match the ever-

Completed. Pausing for 10 secs...OK

Sending request for text = High-risk human papillomavirus (HPV) must evade innate immune surveillance to establish persistent

Completed. Pausing for 10 secs...OK

Sending request for text = Salmonella enterica serotype Typhi can colonize and persi st in the biliary tract of infected individ

Completed. Pausing for 10 secs...OK

Sending request for text = In order to study the role played by cellular RNA pools p roduced by homologous genomic loci in defin

Completed. Pausing for 10 secs...OK

Sending request for text = Hematophagous mosquitos and ticks avoid host hemostatic s ystem through expression of enzyme inhibito

Completed. Pausing for 10 secs...OK

Sending request for text = The mucosa of the intestinal tract represents a finely tu ned system where tissue structure strongly

Completed. Pausing for 10 secs...OK

Sending request for text = Traditional vector control approaches such as source reduction and insecticide spraying have limited

Completed. Pausing for 10 secs...OK

Sending request for text = Poxviruses employ sophisticated , but incompletely unders tood , signaling pathways that engage cellu

Completed. Pausing for 10 secs...OK

Sending request for text = Secondary amphiphilicity is inherent to the secondary structural elements of proteins . By forming e

Completed. Pausing for 10 secs...OK

Sending request for text = Human herpesvirus 6A (HHV-6A) and 6B (HHV-6B) are ubiquitous betaherpesviruses that infects huma

Completed. Pausing for 10 secs...OK

Sending request for text = In contrast to most enveloped viruses , poxviruses produc e infectious particles that do not acquire

Completed. Pausing for 10 secs...OK

Sending request for text = Observations gained from model organisms are essential , yet it remains unclear to which degree they

Sending request for text = Understanding why genes evolve at different rates is fund amental to evolutionary thinking . In speci

Completed. Pausing for 10 secs...OK

Sending request for text = Activation of I- κ B kinases (IKKs) and NF- κ B by the huma n T lymphotropic virus type 1 (HTLV-1) tr

Completed. Pausing for 10 secs...OK

Sending request for text = The frontal lobes subserve decision-making and executive control—that is , the selection and coordin

Completed. Pausing for 10 secs...OK

Sending request for text = The field of medical systems biology aims to advance understanding of molecular mechanisms that driv

Completed. Pausing for 10 secs...OK

Sending request for text = Why are sensory signals and motor command signals combine d in the neurons of origin of the spinocere

Completed. Pausing for 10 secs...OK

Sending request for text = Application of genomics and Next Generation sequencing has led to the identification of new class of

Completed. Pausing for 10 secs...OK

Sending request for text = Cystic echinococcosis (CE) is a globally distributed parasitic infection of humans and livestock .

Completed. Pausing for 10 secs...OK

Sending request for text = Mouse polyomavirus (MPyV) lytically infects mouse cells , transforms rat cells in culture , and is

Completed. Pausing for 10 secs...OK

Sending request for text = Each year in the past three decades has seen hundreds of thousands of runners register to run a majo

Completed. Pausing for 10 secs...OK

Sending request for text = Most isolates of Toxoplasma from Europe and North America fall into one of three genetically distinc

Completed. Pausing for 10 secs...OK

Sending request for text = Recombination in enteroviruses provides an evolutionary m echanism for acquiring extensive regions of

Completed. Pausing for 10 secs...OK

Sending request for text = Beiging of white adipose tissue (WAT) is a particularly appealing target for therapeutics in the t

Completed. Pausing for 10 secs...OK

Sending request for text = The heterochromatin-enriched HP1 proteins play a critical role in regulation of transcription . Thes

Completed. Pausing for 10 secs...OK

Sending request for text = RNA molecules will tend to adopt a folded conformation th rough the pairing of bases on a single stra

Completed. Pausing for 10 secs...OK

Sending request for text = Host cells use an intricate signaling system to respond to invasions by pathogenic microorganisms.

Completed. Pausing for 10 secs...OK

Sending request for text = Successful embryo implantation requires a receptive endom etrium . Poor uterine receptivity can accou

Completed. Pausing for 10 secs...OK

Sending request for text = Geographical mapping of dengue in resource-limited settings is crucial for targeting control interve

Completed. Pausing for 10 secs...OK

Sending request for text = When introduced into a novel environment , mammals establ ish in it a preferred place marked by the h

Completed. Pausing for 10 secs...OK

Sending request for text = Invasive infections by fungal pathogens cause more deaths

than malaria worldwide . We found the ergo

Completed. Pausing for 10 secs...OK

Sending request for text = The treatment and control of schistosomiasis , an often n eglected tropical disease that exacerbates

Completed. Pausing for 10 secs...OK

Sending request for text = Podoconiosis is a non-filarial elephantiasis , which caus es massive swelling of the lower legs . It

Completed. Pausing for 10 secs...OK

Sending request for text = Stem cells have an innate ability to occupy their stem cell niche, which in turn, is optimized to

Completed. Pausing for 10 secs...OK

Sending request for text = The UL97 protein of human cytomegalovirus (HCMV , or HHV -5 (human herpesvirus 5)) , is a kinase

Completed. Pausing for 10 secs...OK

Sending request for text = Burkholderia pseudomallei , a Tier 1 Select Agent and the cause of melioidosis , is a Gram-negative

Completed. Pausing for 10 secs...OK

Sending request for text = The mechanism of membrane fusion by "class II" viral fusi on proteins follows a pathway that involves

Completed. Pausing for 10 secs...OK

Sending request for text = Global estimates for cholera annually approximate 4 milli on cases worldwide with 95 , 000 deaths . ${\sf R}$

Completed. Pausing for 10 secs...OK

Sending request for text = Intense investigation has identified an elaborate protein network controlling epithelial polarity .

Completed. Pausing for 10 secs...OK

Sending request for text = The mode of reproduction in Leishmania spp has been argue d to be essentially clonal . However , rece

Completed. Pausing for 10 secs...OK

Sending request for text = Visceral leishmaniasis (VL) caused by Leishmania donova ni is a major health problem in Ethiopia .

Completed. Pausing for 10 secs...OK

Sending request for text = Recombinant HIV-1 genomes contribute significantly to the diversity of variants within the HIV/AIDS

Completed. Pausing for 10 secs...OK

Sending request for text = Computational modeling plays an important role in modern neuroscience research . Much previous resea

Completed. Pausing for 10 secs...OK

Sending request for text = Rhombomeres (r) contribute to brainstem auditory nuclei during development . Hox genes are determi

Completed. Pausing for 10 secs...OK

Sending request for text = The marine bacterium Saccharophagus degradans strain 2-40 (Sde 2-40) is emerging as a vanguard of

Completed. Pausing for 10 secs...OK

Sending request for text = Japanese Encephalitis virus (JEV) is a zoonotic flavivirus that represents the most significant et

Completed. Pausing for 10 secs...OK

Sending request for text = Dengue infection is the fastest spreading mosquito-borne viral disease , which affects people living ${\sf viral}$

Completed. Pausing for 10 secs...OK

Sending request for text = Individuals choose their mates so as to maximize reproductive success, and one important component

Completed. Pausing for 10 secs...OK

Sending request for text = The Ebola virus disease (\mbox{EVD}) epidemic in West Africa i n 2013-2015 spread heterogeneously across t

Sending request for text = What factors determine a protein's rate of evolution are actively debated . Especially unclear is th

Completed. Pausing for 10 secs...OK

Sending request for text = Polycomb repressive complex 2 (PRC2) trimethylates lysi ne 27 of histone H3 (H3K27me3) to regulat

Completed. Pausing for 10 secs...OK

Sending request for text = Food and feeding-state dependent changes in chemoreceptor gene expression may allow Caenorhabditis e

Completed. Pausing for 10 secs...OK

Sending request for text = Buruli ulcer (BU) is a destructive skin condition cause d by infection with the environmental bacte

Completed. Pausing for 10 secs...OK

Sending request for text = The rat demyelination (dmy) mutation serves as a unique model system to investigate the maintenanc

Completed. Pausing for 10 secs...OK

Sending request for text = Microarray gene expression signatures hold great promise to improve diagnosis and prognosis of disea

Completed. Pausing for 10 secs...OK

Sending request for text = Curli amyloid fibrils secreted by Enterobacteriaceae medi ate host cell adhesion and contribute to bi

Completed. Pausing for 10 secs...OK

Sending request for text = Japanese encephalitis virus (JEV) is an important cause of encephalitis in most of Asia , with hig

Completed. Pausing for 10 secs...OK

Sending request for text = The evolutionary origins of genetic robustness are still under debate: it may arise as a consequence

Completed. Pausing for 10 secs...OK

Sending request for text = Schistosoma infection is associated with immune modulatio n that can influence responses to non-schis

Completed. Pausing for 10 secs...OK

Sending request for text = The evolution of bacterial populations has recently becom e considerably better understood due to lar

Completed. Pausing for 10 secs...OK

Sending request for text = Cortical rhythms have been thought to play crucial roles in our cognitive abilities . Rhythmic activ

Completed. Pausing for 10 secs...OK

Sending request for text = Stochastic transmission dynamic models are especially use ful for studying the early emergence of nov

Completed. Pausing for 10 secs...OK

Sending request for text = Every instant of perception depends on a cascade of brain processes calibrated to the history of sen

Completed. Pausing for 10 secs...OK

Sending request for text = The Clock-Cycle (CLK-CYC) heterodimer constitutes a key circadian transcription complex in Drosoph

Completed. Pausing for 10 secs...OK

Sending request for text = Horizontally acquired genes typically function as autonom ous units conferring new abilities when int

Completed. Pausing for 10 secs...OK

Sending request for text = The differentiation of embryonic stem cells is initiated by a gradual loss of pluripotency-associate

Completed. Pausing for 10 secs...OK

Sending request for text = Groupwise functional analysis of gene variants is becomin g standard in next-generation sequencing st

Completed. Pausing for 10 secs...OK

Sending request for text = In an effort to prevent continued increases in obesity an d diabetes , in January 2014 , the Mexican $\frac{1}{2}$

Sending request for text = Power laws describe brain functions at many levels (from biophysics to psychophysics) . It is ther

Completed. Pausing for 10 secs...OK

Sending request for text = Cameroon is endemic for Buruli ulcer (BU) and organised institutional BU control began in 2002 . T

Completed. Pausing for 10 secs...OK

Sending request for text = The ability to correctly estimate the probability of on e's choices being correct is fundamental to o

Completed. Pausing for 10 secs...OK

Sending request for text = Among the four non-structural proteins of alphaviruses the function of nsP3 is the least well unders

Completed. Pausing for 10 secs...OK

Sending request for text = The human mutilating disease chromoblastomycosis is cause d by melanized members of the order Chaetot

Completed. Pausing for 10 secs...OK

Sending request for text = The DNA damage response (DDR) is an essential signaling pathway that detects DNA lesions , which c

Completed. Pausing for 10 secs...OK

Sending request for text = The human HSV-1 and -2 are common pathogens of human dise ases . Both host and viral factors are invo

Completed. Pausing for 10 secs...OK

Sending request for text = We aim to understand the microbial ecology of noma (canc rum oris) , a devastating ancient illness

Completed. Pausing for 10 secs...OK

Sending request for text = Bacteria use quorum sensing to coordinate adaptation properties , cell fate or commitment to sporula

Completed. Pausing for 10 secs...OK

Sending request for text = Infection with HIV cannot currently be cured; however it can be controlled by combination treatment

Completed. Pausing for 10 secs...OK

Sending request for text = The mechanism of eukaryotic chemotaxis remains unclear de spite intensive study . The most frequently

Completed. Pausing for 10 secs...OK

Sending request for text = Fleas can transmit Yersinia pestis by two mechanisms , early-phase transmission (EPT) and biofilm-

Completed. Pausing for 10 secs...OK

Sending request for text = Positive correlations in the activity of neurons are wide ly observed in the brain . Previous studies

Completed. Pausing for 10 secs...OK

Sending request for text = Vibrio cholerae is the cause of cholera , a severe watery diarrhea . Protection against cholera is s

Completed. Pausing for 10 secs...OK

Sending request for text = Immunochromatographic card test (ICT) is a tool to map the distribution of Wuchereria bancrofti .

Completed. Pausing for 10 secs...OK

Sending request for text = Positive-strand RNA viruses , a large group including hum an pathogens such as SARS-coronavirus (SAR

Completed. Pausing for 10 secs...OK

Sending request for text = Though central to our understanding of how roots perform their vital function of scavenging water an

Completed. Pausing for 10 secs...OK

Sending request for text = The single photon response (SPR) in vertebrate phototra nsduction is regulated by the dynamics of R

Completed. Pausing for 10 secs...OK

Sending request for text = The dynamics of stochastic reaction networks within cells

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are inevitably modulated by factors consid
```

Sending request for text = Much progress has been made in brain-machine interfaces (BMI) using decoders such as Kalman filter

Completed. Pausing for 10 secs...OK

Sending request for text = Redundancies and correlations in the responses of sensory neurons may seem to waste neural resources

Completed. Pausing for 10 secs...OK

Sending request for text = Genetic interactions occur when a combination of mutation s results in a surprising phenotype . These

Completed. Pausing for 10 secs...OK

Sending request for text = The BRCA Challenge is a long-term data-sharing project in itiated within the Global Alliance for Geno

Completed. Pausing for 10 secs...OK

Sending request for text = Malaria , caused by the apicomplexan parasite Plasmodium , still represents a major threat to human

Completed. Pausing for 10 secs...OK

Sending request for text = PUMA , which belongs to the BH3-only protein family , is an intrinsically disordered protein (IDP)

Completed. Pausing for 10 secs...OK

Sending request for text = Polycomb group (PcG) proteins are conserved chromatin f actors that maintain silencing of key devel

Completed. Pausing for 10 secs...OK

Sending request for text = Somatic mutations of mtDNA are implicated in the aging process, but there is no universally accepte

Completed. Pausing for 10 secs...OK

Sending request for text = The anaerobic bacterium Fusobacterium nucleatum uses glut amate decarboxylation to generate a transme

Completed. Pausing for 10 secs...OK

Sending request for text = $\alpha\beta$ T cell receptor (TCR) recognition of foreign peptide s bound to major histocompatibility complex

Completed. Pausing for 10 secs...OK

Sending request for text = The ascomycetous fungus Nectria haematococca , (asexual name Fusarium solani) , is a member of a g

Completed. Pausing for 10 secs...OK

Sending request for text = Egress of newly assembled herpesvirus particles from infected cells is a highly dynamic process invo

Completed. Pausing for 10 secs...OK

Sending request for text = Previous studies on the association of enterobiasis and c hronic inflammatory diseases have revealed

Completed. Pausing for 10 secs...OK

Sending request for text = Efforts to identify loci underlying complex traits generally assume that most genetic variance is ad

Completed. Pausing for 10 secs...OK

Sending request for text = Inherited mitochondrial DNA (${\sf mtDNA}$) mutations have emerged as a common cause of human disease , wi

Completed. Pausing for 10 secs...OK

Sending request for text = In cancer metastasis , embryonic development , and wound healing , cells can coordinate their motion

Completed. Pausing for 10 secs...OK

Sending request for text = The dissociation mechanism of the thioredoxin (Trx) mix ed disulfide complexes is unknown and has b

Completed. Pausing for 10 secs...OK

Sending request for text = The weight with which a specific outcome feature contributes to preference quantifies a person's 'ta

Sending request for text = An important emerging question in the area of signal tran sduction is how information from different

Completed. Pausing for 10 secs...OK

Sending request for text = Changes in gene expression have been hypothesized to play an important role in the evolution of dive

Completed. Pausing for 10 secs...OK

Sending request for text = The schistosome egg represents an attractive developmenta l stage at which to target transgenes becau

Completed. Pausing for 10 secs...OK

Sending request for text = Large macromolecular assemblies are often important for b iological processes in cells . Allosteric c

Completed. Pausing for 10 secs...OK

Sending request for text = The physiological role of fungal galectins has remained e lusive . Here , we show that feeding of a m

Completed. Pausing for 10 secs...OK

Sending request for text = The existence of long-lived reservoirs of latently infect ed CD4+ T cells is the major barrier to cur

Completed. Pausing for 10 secs...OK

Sending request for text = Many viruses encode proteins whose major function is to e vade or disable the host T cell response .

Completed. Pausing for 10 secs...OK

Sending request for text = Leprosy Type 1 reactions are a major cause of nerve damag e and the preventable disability that resul

Completed. Pausing for 10 secs...OK

Sending request for text = We , and others , have reported that in the HIV-negative settings , regulatory CD4+CD25highFoxP3+ T

Completed. Pausing for 10 secs...OK

Sending request for text = Lymphatic filarial parasites survive within the lymphatic vessels for years despite the complex immu

Completed. Pausing for 10 secs...OK

Sending request for text = CRISPR-Cas9 technologies have transformed genome-editing of experimental organisms and have immense

Completed. Pausing for 10 secs...OK

Sending request for text = The stomatal pores are located on the plant leaf epidermi s and regulate CO2 uptake for photosynthesi

Completed. Pausing for 10 secs...OK

Sending request for text = In eukaryotes , RNA polymerase II (PolII) dependent gen e expression requires accessory factors ter

Completed. Pausing for 10 secs...OK

Sending request for text = An animal's ability to navigate through space rests on it s ability to create a mental map of its env

Completed. Pausing for 10 secs...OK

Sending request for text = The current model of hepatitis C virus (HCV) production involves the assembly of virions on or nea

Completed. Pausing for 10 secs...OK

Sending request for text = Imprinted genes are expressed from only one parental alle le and heterozygous loss involving the expr

Completed. Pausing for 10 secs...OK

Sending request for text = Learning to predict threat from environmental cues is a ${\sf f}$ undamental skill in changing environments .

Completed. Pausing for 10 secs...OK

Sending request for text = The septation initiation network (SIN) , composed of a conserved SepH (Cdc7p) kinase cascade , p

Completed. Pausing for 10 secs...OK

Sending request for text = Tegumentary Leishmaniasis (TL) is endemic in Latin America , and Brazil contributes approximately

Sending request for text = Streptococcus pneumoniae infection is a leading cause of bacterial pneumonia , sepsis and meningitis

Completed. Pausing for 10 secs...OK

Sending request for text = Neural networks with a single plastic layer employing rew ard modulated spike time dependent plastici

Completed. Pausing for 10 secs...OK

Sending request for text = During pregnancy , the ETS transcription factor ELF5 esta blishes the milk-secreting alveolar cell li

Completed. Pausing for 10 secs...OK

Sending request for text = According to recent experimental evidence , the interacti on between chromatin loops , which can be c

Completed. Pausing for 10 secs...OK

Sending request for text = Metabolic engineering increasingly depends upon RNA techn ology to customly rewire the metabolism to

Completed. Pausing for 10 secs...OK

Sending request for text = Transient associations among neurons are thought to under lie memory and behavior . However , little

Completed. Pausing for 10 secs...OK

Sending request for text = Nuclear size correlates with cell size , but the mechanis m by which this scaling is achieved is not

Completed. Pausing for 10 secs...OK

Sending request for text = Deep brain stimulation (DBS) is known to be an effective treatment for a variety of neurological d

Completed. Pausing for 10 secs...OK

Sending request for text = Schistosomiasis remains one of the most common endemic parasitic diseases affecting over 230 million

Completed. Pausing for 10 secs...OK

Sending request for text = Reported as a public health problem since the 1960s in Sr i Lanka , dengue has become a high priority

Completed. Pausing for 10 secs...OK

Sending request for text = The relative contributions to modern European populations of Paleolithic hunter-gatherers and Neolit

Completed. Pausing for 10 secs...OK

Sending request for text = It has recently been suggested that movement variability directly increases the speed of motor learn

Completed. Pausing for 10 secs...OK

Sending request for text = NF- κ B plays a vital role in cellular immune and inflammat ory response , survival , and proliferation

Completed. Pausing for 10 secs...OK

Sending request for text = Gene set analysis methods , which consider predefined groups of genes in the analysis of genomic dat

Completed. Pausing for 10 secs...OK

Sending request for text = Current understanding of the spatial epidemiology and geo graphical distribution of Plasmodium vivax

Completed. Pausing for 10 secs...OK

Sending request for text = Staphylococcus aureus expresses a number of cell wall-anc hored proteins that mediate adhesion and in

Completed. Pausing for 10 secs...OK

Sending request for text = To achieve the 90-90-90 goals set by UNAIDS , the number of new HIV infections needs to decrease to

Completed. Pausing for 10 secs...OK

Sending request for text = Hepatitis C virus (HCV) induces autophagy to enhance it s replication . However , how HCV regulates

Completed. Pausing for 10 secs...OK

Sending request for text = Cyclin Y-like 1 (Ccnyl1) is a newly-identified member o

f the cyclin family and is highly similar i

Completed. Pausing for 10 secs...OK

Sending request for text = Enterohemorrhagic Escherichia coli (EHEC) strains cause diarrhea and hemolytic uremic syndrome res

Completed. Pausing for 10 secs...OK

Sending request for text = Transcript elongation by RNA polymerase II (RNAPII) is accompanied by conserved patterns of histon

Completed. Pausing for 10 secs...OK

Sending request for text = Yellow fever virus (YFV) remains the cause of severe morbidity and mortality in South America and

Completed. Pausing for 10 secs...OK

Sending request for text = Herein , we studied a virulent isolate of the leading bac terial pathogen Streptococcus pneumoniae in

Completed. Pausing for 10 secs...OK

Sending request for text = Phlebotomus orientalis is a vector of Leishmania donovani , the causative agent of life threatening

Completed. Pausing for 10 secs...OK

Sending request for text = IncC conjugative plasmids and Salmonella genomic island 1 (SGI1) and relatives are frequently asso

Completed. Pausing for 10 secs...OK

Sending request for text = The Saccharomyces cerevisiae polo-like kinase Cdc5 promot es adaptation to the DNA damage checkpoint

Completed. Pausing for 10 secs...OK

Sending request for text = Many pathological conditions , such as seizures , stroke , and spreading depression , are associated

Completed. Pausing for 10 secs...OK

Sending request for text = A budget proposal to stop the U . S . Centers for Disease Control and Prevention (CDC) funding in

Completed. Pausing for 10 secs...OK

Sending request for text = Dengue is an emerging infectious disease of global significance . Suspected dengue , especially in c

Completed. Pausing for 10 secs...OK

Sending request for text = Plant-parasitic nematodes are destructive pests causing ${\bf l}$ osses of billions of dollars annually . An

Completed. Pausing for 10 secs...OK

Sending request for text = Miltefosine , an anti-cancer drug that has been successfully repositioned for treatment of Leishmani

Completed. Pausing for 10 secs...OK

Sending request for text = In host-pathogen interactions , the struggle for iron may have major consequences on the outcome of

Completed. Pausing for 10 secs...OK

Sending request for text = The principal pacemaker of the circadian clock of the cya nobacterium S . elongatus is a protein phos

Completed. Pausing for 10 secs...OK

Sending request for text = Hepatitis B virus (HBV) suppresses innate immune signal ing to establish persistent infection . Alt

Completed. Pausing for 10 secs...OK

Sending request for text = T cell responses to enteric bacteria are important in inf lammatory bowel disease . I2 , encoded by t

Completed. Pausing for 10 secs...OK

Sending request for text = Nanog is a principal pluripotency regulator exhibiting a disperse distribution within stem cell popu

Completed. Pausing for 10 secs...OK

Sending request for text = The costs and benefits of protein expression are balanced through evolution . Expression of un-utili

Sending request for text = Recent large genome-wide association studies (GWAS) hav e identified multiple loci which harbor gen

Completed. Pausing for 10 secs...OK

Sending request for text = The nuclear division takes place in the daughter cell in the basidiomycetous budding yeast Cryptococ

Completed. Pausing for 10 secs...OK

Sending request for text = Synonymous mutations continue to be filtered out from mos t large-scale cancer genome studies , but s

Completed. Pausing for 10 secs...OK

Sending request for text = Metagenomic sequencing of patient samples is a very promi sing method for the diagnosis of human infe

Completed. Pausing for 10 secs...OK

Sending request for text = While Human African Trypanosomiasis (HAT) is in decline on the continent of Africa , the disease s

Completed. Pausing for 10 secs...OK

Sending request for text = Thioredoxin-interacting protein (TXNIP) has multiple functions , including tumor suppression and i

Completed. Pausing for 10 secs...OK

Sending request for text = Germline mutations in DNA repair genes are linked to tumo r progression . Furthermore , failure in ei

Completed. Pausing for 10 secs...OK

Sending request for text = During tissue development , multipotent progenitors diffe rentiate into specific cell types in charac

Completed. Pausing for 10 secs...OK

Sending request for text = In mouse models of influenza , T cells can confer broad p rotection against multiple viral subtypes w

Completed. Pausing for 10 secs...OK

Sending request for text = Q fever is the most widespread zoonosis , and domestic an imals are the most common sources of transm

Completed. Pausing for 10 secs...OK

Sending request for text = Cancers often display gene expression profiles resembling those of undifferentiated cells . The mech

Completed. Pausing for 10 secs...OK

Sending request for text = Natural selection drives populations towards higher fitne ss , but crossing fitness valleys or platea

Completed. Pausing for 10 secs...OK

Sending request for text = We describe the first comprehensive analysis of the midgu t metabolome of Aedes aegypti , the primary

Completed. Pausing for 10 secs...OK

Sending request for text = Elucidating the underlying mechanisms of fatal cardiac ar rhythmias requires a tight integration of e

Completed. Pausing for 10 secs...OK

Sending request for text = During the sexual cycle of the ciliate Paramecium , assem bly of the somatic genome includes the prec

Completed. Pausing for 10 secs...OK

Sending request for text = Sudden death has been considered the main cause of death in patients with Chagas heart disease . Nev

Completed. Pausing for 10 secs...OK

Sending request for text = The NSP-interacting kinase (NIK) receptor-mediated defense pathway has been identified recently as

Completed. Pausing for 10 secs...OK

Sending request for text = Paracoccidioides brasiliensis is a human thermal dimorphi c pathogenic fungus . Survival of P . brasi

Completed. Pausing for 10 secs...OK

Sending request for text = Episodic-like memory is thought to be supported by attrac tor dynamics in the hippocampus . A possibl

Sending request for text = Entamoeba histolytica , a microaerophilic enteric protozo an parasite , causes amebic colitis and ext

Completed. Pausing for 10 secs...OK

Sending request for text = IKAROS is a critical regulator of hematopoietic cell fate and its dynamic expression pattern is requ

Completed. Pausing for 10 secs...OK

Sending request for text = Bat rabies is an emerging disease of public health significance in the Americas . The Caribbean isla

Completed. Pausing for 10 secs...OK

Sending request for text = The cerebral cortex is divided into many functionally distinct areas . The emergence of these areas

Completed. Pausing for 10 secs...OK

Sending request for text = Polycomb group (PcG) proteins control organism developm ent by regulating the expression of develop

Completed. Pausing for 10 secs...OK

Sending request for text = Pregnancy-induced noncoding RNA (PINC) and retinoblasto ma-associated protein 46 (RbAp46) are upr

Completed. Pausing for 10 secs...OK

Sending request for text = PML (Promyelocytic Leukemia protein) , also known as TR IM19 , belongs to the family of tripartite

Completed. Pausing for 10 secs...OK

Sending request for text = Even when there is agreement on what measure a protein multiple structure alignment should be optimi

Completed. Pausing for 10 secs...OK

Sending request for text = Entry into mitosis is triggered by activation of Cdk1 and inactivation of its counteracting phosphat

Completed. Pausing for 10 secs...OK

Sending request for text = One aim for an HIV vaccine is to elicit neutralizing anti bodies (Nab) that can limit replication o

Completed. Pausing for 10 secs...OK

Sending request for text = The extent that both positive and negative selection vary across different portions of plant genomes

Completed. Pausing for 10 secs...OK

Sending request for text = Epstein-Barr Virus (EBV) transforms resting B-lymphocyt es into proliferating lymphoblasts to estab

Completed. Pausing for 10 secs...OK

Sending request for text = Aedes aegypti is the main mosquito vector of the four ser otypes of dengue virus (DENV) . Previous

Completed. Pausing for 10 secs...OK

Sending request for text = The bacterial replication cycle is driven by the DnaA pro tein which cycles between the active ATP-bo

Completed. Pausing for 10 secs...OK

Sending request for text = Oscillatory activity plays a critical role in regulating biological processes at levels ranging from

Completed. Pausing for 10 secs...OK

Sending request for text = Inferring the ancestry at each locus in the genome of recently admixed individuals (e . g . , Latin

Completed. Pausing for 10 secs...OK

Sending request for text = In mammals , circadian periodicity has been described for gene expression in the hypothalamus and mu

Completed. Pausing for 10 secs...OK

Sending request for text = Recombination is an engine of genetic diversity and there fore constitutes a key process in evolution

Completed. Pausing for 10 secs...OK

Sending request for text = Repeat-proteins are made up of near repetitions of 20- to

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40-amino acid stretches . These polypeptid
Completed. Pausing for 10 secs...OK
Sending request for text = Viral hepatitis , obesity , and alcoholism all represent
major risk factors for hepatocellular carci
Completed. Pausing for 10 secs...OK
Sending request for text = Leishmania aethiopica is the etiological agent of cutaneo
us leishmaniasis ( CL ) in Ethiopia and can
Completed. Pausing for 10 secs...OK
Sending request for text = A biochemical oscillator can be reconstituted in vitro wi
th three purified proteins , that displays
Completed. Pausing for 10 secs...OK
Sending request for text = It is well known that even under identical task condition
s , there is a tremendous amount of trial-t
Completed. Pausing for 10 secs...OK
Sending request for text = Sexual development is a key evolutionary innovation of eu
karyotes . In many species , mating involve
Completed. Pausing for 10 secs...OK
Sending request for text = Chagas disease is the most important vector-borne disease
in Latin America . Regional initiatives ba
Completed. Pausing for 10 secs...OK
Sending request for text = Feathers are arranged in a precise pattern in avian skin
. They first arise during development in a
Completed. Pausing for 10 secs...OK
Sending request for text = The 2013-15 Ebola outbreak was unprecedented due to susta
ined transmission within urban environments
Completed. Pausing for 10 secs...OK
Sending request for text = The voltage trace of neuronal activities can follow multi
ple timescale dynamics that arise from corr
Completed. Pausing for 10 secs...OK
Sending request for text = The ability of Paracoccidioides to defend itself against
reactive oxygen species ( ROS ) produced by
Completed. Pausing for 10 secs...OK
Sending request for text = Intrinsically disordered/unstructured proteins ( IDPs ) a
re extremely sensitive to proteolysis in vi
Completed. Pausing for 10 secs...OK
Sending request for text = The Drosophila genes spalt major ( salm ) and spalt-relat
ed ( salr ) encode Zn-finger transcription
Completed. Pausing for 10 secs...OK
Sending request for text = In humans perturbations of centriole number are associate
d with tumorigenesis and microcephaly , the
Completed. Pausing for 10 secs...OK
Sending request for text = Leishmaniasis is a rapidly expanding zoonosis that shows
increasing urbanization . Concern exists re
Completed. Pausing for 10 secs...OK
Sending request for text = MicroRNAs ( miRNAs ) are a family of small RNA molecules
that negatively regulate the expression of
Completed. Pausing for 10 secs...OK
Sending request for text = We present ggsashimi , a command-line tool for the visual
ization of splicing events across multiple
Completed. Pausing for 10 secs...OK
Sending request for text = Cross-species comparison has emerged as a powerful paradi
gm for predicting cis-regulatory modules (
Completed. Pausing for 10 secs...OK
Sending request for text = Transposons and other selfish DNA elements can be found i
n all phyla , and mobilization of these ele
```

Sending request for text = Over the past 30 years , Zaire and Sudan ebolaviruses hav e been responsible for large hemorrhagic fe

Completed. Pausing for 10 secs...OK

Sending request for text = There have been several reports on the varying rates of p rogression among Alzheimer's Disease (AD)

Completed. Pausing for 10 secs...OK

Sending request for text = Recently , we presented a study of adult neurogenesis in a simplified hippocampal memory model . The

Completed. Pausing for 10 secs...OK

Sending request for text = African trypanosomes express three virtually identical no n-selenium glutathione peroxidase (Px) -t

Completed. Pausing for 10 secs...OK

Sending request for text = PMEL is an amyloidogenic protein that appears to be exclu sively expressed in pigment cells and forms

Completed. Pausing for 10 secs...OK

Sending request for text = Vector control remains the primary method to prevent deng ue infections . Environmental interventions

Completed. Pausing for 10 secs...OK

Sending request for text = Identifying small molecules that inhibit protein synthesis by selectively stalling the ribosome cons

Completed. Pausing for 10 secs...OK

Sending request for text = Regulation of messenger RNA (mRNA) stability plays crit ical roles in controlling gene expression ,

Completed. Pausing for 10 secs...OK

Sending request for text = The type III interferon (IFN λ) receptor IL-28R is abund antly expressed in the respiratory tract an

Completed. Pausing for 10 secs...OK

Sending request for text = We conducted a retrospective study on mortality trends an d risk factors in 781 naïve cases of advanc

Completed. Pausing for 10 secs...OK

Sending request for text = Isolation profoundly influences social behavior in all an imals . In humans , isolation has serious e

Completed. Pausing for 10 secs...OK

Sending request for text = The emergence of mobile technology offers new opportuniti es to improve clinical guideline adherence

Completed. Pausing for 10 secs...OK

Sending request for text = The complexity of host-parasite interactions makes it difficult to predict how host-parasite systems

Completed. Pausing for 10 secs...OK

Sending request for text = GABAergic interneurons play an important role in shaping the activity of excitatory pyramidal cells

Completed. Pausing for 10 secs...OK

Sending request for text = Microbiota contribute to many dimensions of host phenotype , including disease . To link specific mi

Completed. Pausing for 10 secs...OK

Sending request for text = Pathogen replication and transmission in Wolbachia infect ed insects are currently studied using thre

Completed. Pausing for 10 secs...OK

Sending request for text = Cilia are microtubule-based cellular organelles that medi ate signal transduction . Cilia are organiz

Completed. Pausing for 10 secs...OK

Sending request for text = The development and regeneration of myelin by oligodendro cytes , the myelin-forming cells of the cen

Completed. Pausing for 10 secs...OK

Sending request for text = Streptolysin S (SLS) is a bacteriocin-like haemolytic a nd cytotoxic virulence factor that plays a

Sending request for text = Mycetoma is a persistent , progressive granulomatous infl ammatory disease caused either by fungi or

Completed. Pausing for 10 secs...OK

Sending request for text = Molecular recognition by intrinsically disordered protein s (IDPs) commonly involves specific local

Completed. Pausing for 10 secs...OK

Sending request for text = The canonical ATP-dependent protease Lon participates in an assortment of biological processes in ba

Completed. Pausing for 10 secs...OK

Sending request for text = Fc gamma receptor (FcyR) -mediated antibody functions p lay a crucial role in preventing HIV infect

Completed. Pausing for 10 secs...OK

Sending request for text = Even though human hookworm infection is highly endemic in many countries throughout the world , its

Completed. Pausing for 10 secs...OK

Sending request for text = The mechanisms of hypoxic injury to the developing human brain are poorly understood , despite being

Completed. Pausing for 10 secs...OK

Sending request for text = Human paracoccidioidomycosis (PCM) is an endemic fungal disease of pulmonary origin . Follow-up of

Completed. Pausing for 10 secs...OK

Sending request for text = In areas endemic for visceral leishmaniasis (VL) , a large number of infected individuals mount a

Completed. Pausing for 10 secs...OK

Sending request for text = Gastrointestinal infections caused by enteric yersiniae c an become persistent and complicated by rel

Completed. Pausing for 10 secs...OK

Sending request for text = For successful colonization and further reproduction in h ost plants , pathogens need to overcome the

Completed. Pausing for 10 secs...OK

Sending request for text = Mapping the distribution of schistosomiasis is essential to determine where control programs should

Completed. Pausing for 10 secs...OK

Sending request for text = The mechanisms that guide motile sperm through the female reproductive tract to oocytes are not well

Completed. Pausing for 10 secs...OK

Sending request for text = The immunogenicity of biotherapeutics can bottleneck deve lopment pipelines and poses a barrier to wi

Completed. Pausing for 10 secs...OK

Sending request for text = For most eukaryotes , sexual reproduction is a fundamenta l process that requires meiosis . In turn ,

Completed. Pausing for 10 secs...OK

Sending request for text = The profusion of high-throughput instruments and the expl osion of new results in the scientific lite

Completed. Pausing for 10 secs...OK

Sending request for text = Helminth parasites secrete extracellular vesicles (EVs) that can be internalised by host immune ce

Completed. Pausing for 10 secs...OK

Sending request for text = The precise regulation of microRNA (miRNA) transcriptio n and processing is important for eukaryoti

Completed. Pausing for 10 secs...OK

Sending request for text = Folliculogenesis is a progressive and highly regulated process, which is essential to provide ova f

Completed. Pausing for 10 secs...OK

Sending request for text = The RNA polymerase II (Pol II) is a eukaryotic enzyme t

hat catalyzes the synthesis of the messenge

Completed. Pausing for 10 secs...OK

Sending request for text = Disease incidence data are needed to guide decision-makin g for public health interventions . Althoug

Completed. Pausing for 10 secs...OK

Sending request for text = Understanding the mechanisms that help promote protective immune responses to pathogens is a major c

Completed. Pausing for 10 secs...OK

Sending request for text = In eukaryotes , 45S rRNA genes are arranged in tandem arr ays in copy numbers ranging from several hu

Completed. Pausing for 10 secs...OK

Sending request for text = Histone deacetylation plays a pivotal role in regulating human cytomegalovirus gene expression . In

Completed. Pausing for 10 secs...OK

Sending request for text = Respiratory Syncytial Virus (RSV) is the major cause of pneumonia among infants . Here we elucidat

Completed. Pausing for 10 secs...OK

Sending request for text = Filariae are parasitic nematodes that are transmitted to their definitive host as third-stage larvae

Completed. Pausing for 10 secs...OK

Sending request for text = The Global Program to Eliminate Lymphatic Filariasis (LF) relies on rapid diagnostic tests (RDTs

Completed. Pausing for 10 secs...OK

Sending request for text = Primary cilia are specialised sensory and developmental s ignalling devices extending from the surfac

Completed. Pausing for 10 secs...OK

Sending request for text = An important task of the brain is to represent the outsid e world. It is unclear how the brain may d

Completed. Pausing for 10 secs...OK

Sending request for text = Viral fulminant hepatitis (FH) is a severe disease with high mortality resulting from excessive in

Completed. Pausing for 10 secs...OK

Sending request for text = Hookworm infections are an important cause of (severe) anemia and iron deficiency in children in t

Completed. Pausing for 10 secs...OK

Sending request for text = Successful completion of meiosis requires the induction a nd faithful repair of DNA double-strand bre

Completed. Pausing for 10 secs...OK

Sending request for text = Burkholderia pseudomallei causes melioidosis , a common s ource of pneumonia and sepsis in Southeast

Completed. Pausing for 10 secs...OK

Sending request for text = Activation of cyclin B1-cyclin-dependent kinase 1 (Cdk1) , triggered by a positive feedback loop a

Completed. Pausing for 10 secs...OK

Sending request for text = HIV-1 vaccines designed to date have failed to elicit neu tralizing antibodies (Nabs) that are capa

Completed. Pausing for 10 secs...OK

Sending request for text = Congenital human cytomegalovirus (HCMV) infection is the leading cause of neurological disabilitie

Completed. Pausing for 10 secs...OK

Sending request for text = To better characterize how variation in regulatory sequen ces drives divergence in gene expression ,

Completed. Pausing for 10 secs...OK

Sending request for text = Monitoring and evaluation guidelines of the programme to eliminate lymphatic filariasis require impa

Sending request for text = The application of the organophosphate larvicide temephos to water storage containers is one of the

Completed. Pausing for 10 secs...OK

Sending request for text = The cohesin complex holds sister chromatids together from the time of their duplication in S phase u

Completed. Pausing for 10 secs...OK

Sending request for text = Dengue virus (DENV) is the most widespread arbovirus wi th an estimated 100 million infections occu

Completed. Pausing for 10 secs...OK

Sending request for text = Research on Neglected Tropical Diseases (NTDs) has increased in recent decades , and significant n

Completed. Pausing for 10 secs...OK

Sending request for text = Lymphatic filariasis (LF) and soil-transmitted helminth s (STH) have been targeted since 2000 in

Completed. Pausing for 10 secs...OK

Sending request for text = In all domains of life , proper regulation of the cell cy cle is critical to coordinate genome replic

Completed. Pausing for 10 secs...OK

Sending request for text = Francisella tularensis is a highly infectious bacterium c ausing the zoonotic disease tularemia . Its

Completed. Pausing for 10 secs...OK

Sending request for text = Protozoan parasites of the genus Leishmania alternate bet ween flagellated , elongated extracellular

Completed. Pausing for 10 secs...OK

Sending request for text = Eliciting broad tier 2 neutralizing antibodies (nAbs) is a major goal of HIV-1 vaccine research .

Completed. Pausing for 10 secs...OK

Sending request for text = While traditionally surgery has dominated the clinical management of Buruli ulcer (BU), the intro

Completed. Pausing for 10 secs...OK

Sending request for text = Matching energy supply and demand is critical in the bioe nergetic homeostasis of all cells . This is

Completed. Pausing for 10 secs...OK

Sending request for text = Spondylocarpotarsal synostosis (SCT) is an autosomal recessive disorder characterized by progressi

Completed. Pausing for 10 secs...OK

Sending request for text = Viruses have evolved a plethora of mechanisms to target h ost antiviral responses . Here , we propose

Completed. Pausing for 10 secs...OK

Sending request for text = Human parvovirus B19 (B19V) infection of primary human erythroid progenitor cells (EPCs) arrests

Completed. Pausing for 10 secs...OK

Sending request for text = Dengue virus (DENV) is the most prevalent , medically i mportant mosquito-borne virus . Disease ran

Completed. Pausing for 10 secs...OK

Sending request for text = The first step towards cytokinesis in budding yeast is the assembly of a septin ring at the future s

Completed. Pausing for 10 secs...OK

Sending request for text = Humans inhabit a remarkably diverse range of environments , and adaptation through natural selection

Completed. Pausing for 10 secs...OK

Sending request for text = The short QT syndrome (SQTS) is a genetically heterogen eous condition characterized by abbreviated

Completed. Pausing for 10 secs...OK

Sending request for text = A variety of simple models has been proposed to understand the collective motion of animals . These

Sending request for text = Drug resistant HIV is a major threat to the long-term efficacy of antiretroviral treatment . Around

Completed. Pausing for 10 secs...OK

Sending request for text = The Elongator complex , including the histone acetyl tran sferase Sin3/Elp3 , was isolated as an RNA

Completed. Pausing for 10 secs...OK

Sending request for text = Primate lentivirus nef is required for sustained virus re plication in vivo and accelerated progressi

Completed. Pausing for 10 secs...OK

Sending request for text = Bithynia siamensis goniomphalos is the snail intermediate host of the liver fluke , Opisthorchis viv

Completed. Pausing for 10 secs...OK

Sending request for text = Pathophysiological mechanisms are still incompletely understood for leprosy, an urgent public healt

Completed. Pausing for 10 secs...OK

Sending request for text = Metabolomic profiling and the integration of whole-genome genetic association data has proven to be

Completed. Pausing for 10 secs...OK

Sending request for text = Genome-scale metabolic networks provide a comprehensive s tructural framework for modeling genotype-p

Completed. Pausing for 10 secs...OK

Sending request for text = Landscape may affect the distribution of infectious disea ses by influencing the population density a

Completed. Pausing for 10 secs...OK

Sending request for text = The heptalaminate-covered , syncytial tegument is an important anatomical adaptation that enables sc

Completed. Pausing for 10 secs...OK

Sending request for text = Cells in the Drosophila retina have well-defined morpholo gies that are attained during tissue morpho

Completed. Pausing for 10 secs...OK

Sending request for text = MT1-MMP is a potent invasion-promoting membrane protease employed by aggressive cancer cells . MT1-M

Completed. Pausing for 10 secs...OK

Sending request for text = The process by which drug-resistant HIV-1 arises and spre ads spatially within an infected individual

Completed. Pausing for 10 secs...OK

Sending request for text = Feedback regulation of cell lineage progression plays an important role in tissue size homeostasis ,

Completed. Pausing for 10 secs...OK

Sending request for text = Myopia , or nearsightedness , is the most common eye disorder , resulting primarily from excess elon

Completed. Pausing for 10 secs...OK

Sending request for text = Like other animals , lampreys have a central pattern gene rator (CPG) circuit that activates muscle

Completed. Pausing for 10 secs...OK

Sending request for text = Outside Africa , the global phylogeography of HIV is char acterized by compartmentalized local epidem

Completed. Pausing for 10 secs...OK

Sending request for text = The organization of muscle is the product of functional a daptation over several length scales spanni

Completed. Pausing for 10 secs...OK

Sending request for text = The symbiotic bacterium Wolbachia is currently being tria lled as a biocontrol agent in several count

Completed. Pausing for 10 secs...OK

Sending request for text = Histone lysine methylation is an important epigenetic mod

ification in regulating chromatin structure

Completed. Pausing for 10 secs...OK

Sending request for text = The HIV-1 capsid is involved in all infectious steps from reverse transcription to integration site

Completed. Pausing for 10 secs...OK

Sending request for text = The mosquito Aedes aegypti transmits some of the most important human arboviruses, including dengue

Completed. Pausing for 10 secs...OK

Sending request for text = The mosquito Aedes aegypti , vector of dengue , chikungun ya and yellow fever viruses , is an importa

Completed. Pausing for 10 secs...OK

Sending request for text = The human cytidine deaminase APOBEC3G (A3G) is a potent inhibitor of retroviruses and transposable

Completed. Pausing for 10 secs...OK

Sending request for text = Many agriculturally , evolutionarily , and medically important characters vary in a quantitative fas

Completed. Pausing for 10 secs...OK

Sending request for text = Streptococcus pneumoniae (pneumococcus) has remained a persistent cause of invasive and mucosal di

Completed. Pausing for 10 secs...OK

Sending request for text = Poliovirus IRES-mediated translation requires the functions of certain canonical as well as non-cano

Completed. Pausing for 10 secs...OK

Sending request for text = The neural crest (NC) is a population of embryonic stem cells that gives rise to numerous cell typ

Completed. Pausing for 10 secs...OK

Sending request for text = Numerous factors may influence Schistosoma infection intensity and prevalence within endemic communi

Completed. Pausing for 10 secs...OK

Sending request for text = Stool examination by counting eggs per gram of feces (EP Gs) is the best method to estimate worm bu

Completed. Pausing for 10 secs...OK

Sending request for text = Drug resistance is a rapidly emerging concern , thus prom pting the development of novel therapeutics

Completed. Pausing for 10 secs...OK

Sending request for text = At the culmination of poliovirus (PV) multiplication , membranes are observed that contain phospha

Completed. Pausing for 10 secs...OK

Sending request for text = A multi-step cascade strategy using integrated ligand- an d target-based virtual screening methods wa

Completed. Pausing for 10 secs...OK

Sending request for text = Attenuated yellow fever (YF) virus 17D/17DD vaccines ar e the only available protection from YF inf

Completed. Pausing for 10 secs...OK

Sending request for text = Chitin utilization by the cholera pathogen Vibrio cholera e is required for its persistence and evolu

Completed. Pausing for 10 secs...OK

Sending request for text = We present a nonlinear programming (NLP) framework for the scalable solution of parameter estimati

Completed. Pausing for 10 secs...OK

Sending request for text = The ability to track changes in gene expression following viral infection is paramount to understand

Completed. Pausing for 10 secs...OK

Sending request for text = In Mozambique , the majority of rabies outbreaks are unreported and data on the epidemiological feat ${\sf Sending}$

Sending request for text = A follow-up study of a large Utah family with significant linkage to chromosome 2q24 led us to ident

Completed. Pausing for 10 secs...OK

Sending request for text = A major problem in biology is to understand how complex t issue shapes may arise through growth . In

Completed. Pausing for 10 secs...OK

Sending request for text = During early human immunodeficiency virus (HIV) infecti on multiple CD8+ T cell responses are elici

Completed. Pausing for 10 secs...OK

Sending request for text = The 5-year survival of non-small cell lung cancer patient s can be as low as 1% in advanced stages .

Completed. Pausing for 10 secs...OK

Sending request for text = High levels of antibiotic tolerance are a hallmark of bac terial biofilms . In contrast to well-chara

Completed. Pausing for 10 secs...OK

Sending request for text = All pathogenesis and death associated with Plasmodium fal ciparum malaria is due to parasite-infected

Completed. Pausing for 10 secs...OK

Sending request for text = The soil-transmitted threadworm , Strongyloides stercoral is , is one of the most neglected among the

Completed. Pausing for 10 secs...OK

Sending request for text = Stochastic noise at the cellular level has been shown to play a fundamental role in circadian oscill

Completed. Pausing for 10 secs...OK

Sending request for text = The recent increase in antibiotic resistance in pathogeni c bacteria calls for new approaches to drug

Completed. Pausing for 10 secs...OK

Sending request for text = Lens epithelium derived growth factor (LEDGF) , also kn own as PC4 and SFRS1 interacting protein 1

Completed. Pausing for 10 secs...OK

Sending request for text = Cells of different organs at different ages have an intri nsic set of kinetics that dictates their be

Completed. Pausing for 10 secs...OK

Sending request for text = Many zoonotic , novel infectious diseases in humans appear as sporadic infections with spatially and

Completed. Pausing for 10 secs...OK

Sending request for text = Wild birds have been implicated in the emergence of human and livestock influenza . The successful p

Completed. Pausing for 10 secs...OK

Sending request for text = The hemagglutinin (HA) of influenza A viruses has been classified into sixteen distinct subtypes (

Completed. Pausing for 10 secs...OK

Sending request for text = To assess the effect of treatment with ivermectin on the prevalence of S . stercoralis infection in

Completed. Pausing for 10 secs...OK

Sending request for text = Prion diseases are caused by a misfolded isoform of the p rion protein , PrPSc . Prion strains are hy

Completed. Pausing for 10 secs...OK

Sending request for text = Intrinsically disordered proteins/regions (IDPs/IDRs) a re prevalent in allosteric regulation . It

Completed. Pausing for 10 secs...OK

Sending request for text = Prostate cancer is a major cause of male death in the Western world, but few frequent genetic alter

Completed. Pausing for 10 secs...OK

Sending request for text = Currently there is increasing recognition of the need for research in developing countries where dis

Sending request for text = Cell proliferation is the common characteristic of all bi ological systems . The immune system insure

Completed. Pausing for 10 secs...OK

Sending request for text = About half of the mitochondrial DNA (mtDNA) mutations c ausing diseases in humans occur in tRNA gen

Completed. Pausing for 10 secs...OK

Sending request for text = In mammals , dosage compensation is achieved by doubling expression of X-linked genes in both sexes

Completed. Pausing for 10 secs...OK

Sending request for text = Evolutionary pressures on proteins are often quantified b y the ratio of substitution rates at non-sy

Completed. Pausing for 10 secs...OK

Sending request for text = A major goal in evolutionary biology is to understand how natural selection has shaped patterns of g

Completed. Pausing for 10 secs...OK

Sending request for text = Phosphorylation is a pivotal regulatory mechanism for protein stability and activity in circadian cl

Completed. Pausing for 10 secs...OK

Sending request for text = Trypanosoma cruzi is the etiological agent of Chagas' dis ease . Cysteine peptidases are relevant to

Completed. Pausing for 10 secs...OK

Sending request for text = Cytoplasmic dynein is a microtubule-dependent motor prote in that functions in mitotic cells during c

Completed. Pausing for 10 secs...OK

Sending request for text = During somatic differentiation , physiological DNA double -strand breaks (DSB) can drive programmed

Completed. Pausing for 10 secs...OK

Sending request for text = Prion diseases typically have long pre-clinical incubatio n periods during which time the infectious

Completed. Pausing for 10 secs...OK

Sending request for text = Experimental visceral leishmaniasis , caused by infection of mice with the protozoan parasite Leishm

Completed. Pausing for 10 secs...OK

Sending request for text = The transcriptional regulatory machinery of a gene can be viewed as a computational device , with tr

Completed. Pausing for 10 secs...OK

Sending request for text = Chikungunya virus (CHIKV) is an RNA virus from the Toga viridae family transmitted by mosquitoes in

Completed. Pausing for 10 secs...OK

Sending request for text = Horizontal acquisition of DNA by bacteria dramatically in creases genetic diversity and hence success

Completed. Pausing for 10 secs...OK

Sending request for text = Genome sequencing of Leishmania species that give rise to a range of disease phenotypes in the host

Completed. Pausing for 10 secs...OK

Sending request for text = Amphimeriasis is a fish-borne disease caused by the liver fluke Amphimerus spp . that has recently b

Completed. Pausing for 10 secs...OK

Sending request for text = The autophagosomal SNARE Syntaxin17 (Syx17) forms a complex with Snap29 and Vamp7/8 to promote aut

Completed. Pausing for 10 secs...OK

Sending request for text = Antimicrobial peptides (AMPs) contribute to host innate immune defense and are a critical componen

Completed. Pausing for 10 secs...OK

Sending request for text = Several key transcription factors have unusually short ha

lf-lives compared to other cellular protein

Completed. Pausing for 10 secs...OK

Sending request for text = We have recently demonstrated that MAP kinase phosphatase 2 (MKP-2) deficient C57BL/6 mice , unlik

Completed. Pausing for 10 secs...OK

Sending request for text = The mammalian pancreas is a branched organ that does not exhibit stereotypic branching patterns , si

Completed. Pausing for 10 secs...OK

Sending request for text = Kinesin motor proteins drive intracellular transport by c oupling ATP hydrolysis to conformational ch

Completed. Pausing for 10 secs...OK

Sending request for text = The bacterial Lux system is used as a gene expression reporter . It is fast , sensitive and non-dest

Completed. Pausing for 10 secs...OK

Sending request for text = The replication of enterovirus 71 (EV71) and coxsackiev irus A16 (CVA16) , which are the major ca

Completed. Pausing for 10 secs...OK

Sending request for text = The humoral response to fungal and Gram-positive infections is regulated by the serpin-family inhibi

Completed. Pausing for 10 secs...OK

Sending request for text = Nodal and BMP signals are important for establishing left -right (LR) asymmetry in vertebrates . In

Completed. Pausing for 10 secs...OK

Sending request for text = The onset of human cytomegalovirus (HCMV) lytic infecti on is strictly synchronized with the host c

Completed. Pausing for 10 secs...OK

Sending request for text = The majority of HIV-1 elite controllers (EC) restrict H IV-1 replication through highly functional

Completed. Pausing for 10 secs...OK

Sending request for text = Obesity has a strong genetic component , but few of the g enes that predispose to obesity are known .

Completed. Pausing for 10 secs...OK

Sending request for text = Asymmetric cell division is essential to generate cellula ${\tt r}$ diversity . In many animal cells , the cl

Completed. Pausing for 10 secs...OK

Sending request for text = The evolution of new gene networks is a primary source of genetic innovation that allows bacteria to

Completed. Pausing for 10 secs...OK

Sending request for text = Sequence analysis of the genome of the strict intracellul ar pathogen Chlamydia trachomatis revealed

Completed. Pausing for 10 secs...OK

Sending request for text = Stature is a classical and highly heritable complex trait, with 80%-90% of variation explained by g

Completed. Pausing for 10 secs...OK

Sending request for text = Monocyte (MO) subpopulations display distinct phenotype s and functions which can drastically chang

Completed. Pausing for 10 secs...OK

Sending request for text = Schistosoma mansoni infection has been associated with an increased HIV prevalence in humans and SHI

Completed. Pausing for 10 secs...OK

Sending request for text = Filarial nematodes maintain a mutualistic relationship wi th the endosymbiont Wolbachia . Depletion o

Completed. Pausing for 10 secs...OK

Sending request for text = The malaria-causing blood stage of Plasmodium falciparum requires extracellular pantothenate for pro

Sending request for text = The PR interval on the electrocardiogram reflects atrial and atrioventricular nodal conduction time

Completed. Pausing for 10 secs...OK

Sending request for text = Tomato mosaic virus (ToMV) , like other eukaryotic positive-strand RNA viruses , replicates its ge

Completed. Pausing for 10 secs...OK

Sending request for text = Inhibitory interneurons play critical roles in shaping th e firing patterns of principal neurons in m

Completed. Pausing for 10 secs...OK

Sending request for text = The definitive diagnosis of lyssavirus infection (including rabies) in animals and humans is based

Completed. Pausing for 10 secs...OK

Sending request for text = An outbreak of tsetse-transmitted trypanosomiasis resulte d in more than 50% losses of domestic pigs

Completed. Pausing for 10 secs...OK

Sending request for text = There is a growing movement to encourage reproducibility and transparency practices in the scientifi

Completed. Pausing for 10 secs...OK

Sending request for text = Inhalation of Yersinia pestis causes primary pneumonic plague , a highly lethal syndrome with mortal

Completed. Pausing for 10 secs...OK

Sending request for text = One of the most important drawbacks in visceral leishmani asis (VL) population studies is the diffi

Completed. Pausing for 10 secs...OK

Sending request for text = Retrotransposons are highly prevalent in mammalian genome s due to their ability to amplify in plurip

Completed. Pausing for 10 secs...OK

Sending request for text = Arabidopsis thaliana cryptochrome 2 (CRY2) mediates lig ht control of flowering time . CIB1 (CRY2-

Completed. Pausing for 10 secs...OK

Sending request for text = Many U . S . -bound refugees travel from countries where intestinal parasites (hookworm , Trichuris

Completed. Pausing for 10 secs...OK

Sending request for text = Microbial pathogens often establish infection within part icular niches of their host for replication

Completed. Pausing for 10 secs...OK

Sending request for text = The Cockayne syndrome complementation group B (CSB) pro tein is essential for transcription-coupled

Completed. Pausing for 10 secs...OK

Sending request for text = While population studies have resulted in detailed maps o f genetic variation in humans , to date the

Completed. Pausing for 10 secs...OK

Sending request for text = Serological tests for IgM and IgG are routinely used in c linical laboratories for the rapid diagnosi

Completed. Pausing for 10 secs...OK

Sending request for text = The prediction of functional RNA structures has attracted increased interest , as it allows us to st

Completed. Pausing for 10 secs...OK

Sending request for text = Plant immunity protects plants from numerous potentially pathogenic microbes . The biological networ

Completed. Pausing for 10 secs...OK

Sending request for text = The central nervous system develops from monolayered neur oepithelial sheets . In a first step patter

Completed. Pausing for 10 secs...OK

Sending request for text = Ever since the discovery of endogenous host defense antim icrobial peptides it has been discussed how

Sending request for text = Lowe syndrome and Dent-2 disease are caused by mutation o f the inositol 5-phosphatase OCRL1 . Despit

Completed. Pausing for 10 secs...OK

Sending request for text = In recent years , evidence of Rift Valley fever (RVF) t ransmission during inter-epidemic periods i

Completed. Pausing for 10 secs...OK

Sending request for text = Trypanosoma cruzi is the etiologic agent of Chagas diseas e . Although this is not a free-living orga

Completed. Pausing for 10 secs...OK

Sending request for text = This phase III clinical trial compared the immunogenicity and safety of a purified chick-embryo cell

Completed. Pausing for 10 secs...OK

Sending request for text = One of the most fundamental features of the human brain i s its ability to detect and attend to salie

Completed. Pausing for 10 secs...OK

Sending request for text = Nonenveloped viruses are generally released by the timely lysis of the host cell by a poorly underst

Completed. Pausing for 10 secs...OK

Sending request for text = Dengue virus (DENV) is spread through most tropical and subtropical areas of the world and represe

Completed. Pausing for 10 secs...OK

Sending request for text = In Gram-positive bacteria , cell-to-cell communication ma inly relies on extracellular signaling pept

Completed. Pausing for 10 secs...OK

Sending request for text = While the pentameric ligand-gated ion channel ELIC has re cently provided first insight into the arch

Completed. Pausing for 10 secs...OK

Sending request for text = Asthma is a common allergic lung disease frequently affecting individuals with a prior history of ec

Completed. Pausing for 10 secs...OK

Sending request for text = The generation of genome-scale data is becoming more rout ine , yet the subsequent analysis of omics

Completed. Pausing for 10 secs...OK

Sending request for text = Visual object recognition and sensitivity to image featur es are largely influenced by contextual inp

Completed. Pausing for 10 secs...OK

Sending request for text = Cooperation based on the production of costly common good s is observed throughout nature . This is p

Completed. Pausing for 10 secs...OK

Sending request for text = For opportunistic pathogens such as Pseudomonas aeruginos a , the mucosal barrier represents a formid

Completed. Pausing for 10 secs...OK

Sending request for text = The Drosophila embryonic gonad is assembled from two distinct cell types , the Primordial Germ Cells

Completed. Pausing for 10 secs...OK

Sending request for text = If future HIV vaccine design strategies are to succeed , improved understanding of the mechanisms un

Completed. Pausing for 10 secs...OK

Sending request for text = There is evidence that the sharing of intentions was an important factor in the evolution of humans'

Completed. Pausing for 10 secs...OK

Sending request for text = Male fertility requires the continuous production of high quality motile spermatozoa in abundance .

Completed. Pausing for 10 secs...OK

Sending request for text = Although Escherichia coli Nissle 1917 (EcN) has been us

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ed therapeutically for over a century , the
```

Sending request for text = Cryptococcus neoformans , an AIDS-defining opportunistic pathogen , is the leading cause of fungal m

Completed. Pausing for 10 secs...OK

Sending request for text = After many years of general neglect , interest has grown and efforts came under way for the mapping

Completed. Pausing for 10 secs...OK

Sending request for text = Chronic helminth infections induce a Th2 immune shift and establish an immunoregulatory milieu . As

Completed. Pausing for 10 secs...OK

Sending request for text = Insects utilize diverse families of ion channels to respond to environmental cues and control mating

Completed. Pausing for 10 secs...OK

Sending request for text = Mitochondria from diverse phyla , including protozoa , fu ngi , higher plants , and humans , import t

Completed. Pausing for 10 secs...OK

Sending request for text = Diabetes is an increasing problem worldwide; almost 30 mi llion people , nearly 10% of the population

Completed. Pausing for 10 secs...OK

Sending request for text = Mitogen-activated protein (MAP) kinase signaling cascad es play important roles in the regulation o

Completed. Pausing for 10 secs...OK

Sending request for text = Infectious diseases are one of the primary healthcare pro blems worldwide , leading to millions of de

Completed. Pausing for 10 secs...OK

Sending request for text = Rift Valley fever (RVF) is an important mosquito-borne viral zoonosis in Africa and the Middle Eas

Completed. Pausing for 10 secs...OK

Sending request for text = We assessed spatial and temporal changes in the occurrence of human anthrax in Azerbaijan during 198

Completed. Pausing for 10 secs...OK

Sending request for text = Voltage-gated potassium (KV) channels are membrane proteins that respond to changes in membrane po

Completed. Pausing for 10 secs...OK

Sending request for text = The protozoan parasite Cryptosporidium parvum is responsi ble for significant disease burden among ch

Completed. Pausing for 10 secs...OK

Sending request for text = Tooth development is a highly heritable process which rel ates to other growth and developmental proc

Completed. Pausing for 10 secs...OK

Sending request for text = The trisomy of human chromosome 21 (Hsa21) , which caus es Down syndrome (DS) , is the most commo

Completed. Pausing for 10 secs...OK

Sending request for text = G protein-gated K+ channels (GIRK; Kir3) , activated by $G\beta\gamma$ subunits derived from Gi/o proteins ,

Completed. Pausing for 10 secs...OK

Sending request for text = Plant-pathogenic Xanthomonas bacteria secrete transcripti on activator-like effectors (TALEs) into

Completed. Pausing for 10 secs...OK

Sending request for text = 24 , 189 are all the possible non-synonymous amino acid c hanges potentially affecting the human mito

Completed. Pausing for 10 secs...OK

Sending request for text = Dengue virus (DENV) infection , the most common mosquit o-transmitted viral infection , can cause a Completed. Pausing for 10 secs...OK

Sending request for text = We performed a mathematical analysis of the dynamic contr ol loops regulating the vasomotor tone of v

Completed. Pausing for 10 secs...OK

Sending request for text = Thromboembolic disease is a leading cause of morbidity an d mortality worldwide . In the last several

Completed. Pausing for 10 secs...OK

Sending request for text = Invariant natural killer T (iNKT) cells are activated d uring infection , but how they limit microb

Completed. Pausing for 10 secs...OK

Sending request for text = Interactions between colonizing commensal microorganisms and their hosts play important roles in hea

Completed. Pausing for 10 secs...OK

Sending request for text = Immunization with irradiated sporozoites is currently the most effective vaccination strategy agains

Completed. Pausing for 10 secs...OK

Sending request for text = Most treatments of leishmaniasis require hospitalization and present side effects or parasite resist

Completed. Pausing for 10 secs...OK

Sending request for text = In Brazil , lethality from visceral leishmaniasis (VL) is high and few studies have addressed prog

Completed. Pausing for 10 secs...OK

Sending request for text = Plants rely heavily on receptor-like kinases (RLKs) for perception and integration of external and

Completed. Pausing for 10 secs...OK

Sending request for text = The antiproliferative response to anticancer treatment is the result of concurrent responses in all

Completed. Pausing for 10 secs...OK

Sending request for text = Coenzyme Q (CoQ) is an essential electron carrier in the respiratory chain whose deficiency has be

Completed. Pausing for 10 secs...OK

Sending request for text = All forms of life are confronted with environmental and g enetic perturbations , making phenotypic ro

Completed. Pausing for 10 secs...OK

Sending request for text = Phenomics has the potential to facilitate significant adv ances in biology but requires the developme

Completed. Pausing for 10 secs...OK

Sending request for text = Malaria parasites (Plasmodium spp .) encounter markedly different (nutritional) environments dur

Completed. Pausing for 10 secs...OK

Sending request for text = From the timing of amoeba development to the maintenance of stem cell pluripotency , many biological

Completed. Pausing for 10 secs...OK

Sending request for text = Scrub typhus is a leading cause of serious febrile illnes s in rural Southeast Asia . The causative a

Completed. Pausing for 10 secs...OK

Sending request for text = Morbidity due to schistosomiasis is currently controlled by treatment of schistosome infected people

Completed. Pausing for 10 secs...OK

Sending request for text = Oncogenic mutations in the small GTPase Ras contribute to $\sim 30\%$ of human cancers . However , Ras muta

Completed. Pausing for 10 secs...OK

Sending request for text = Meiotic drivers are selfish alleles that subvert gametoge nesis to increase their transmission into p

Completed. Pausing for 10 secs...OK

Sending request for text = Many genetic variants that are significantly correlated to gene expression changes across human indi

Sending request for text = Malarial infections are often genetically diverse , leading to competitive interactions between para

Completed. Pausing for 10 secs...OK

Sending request for text = DNA replication errors are a major driver of evolution—fr om single nucleotide polymorphisms to large

Completed. Pausing for 10 secs...OK

Sending request for text = Translation can initiate at alternate , non-canonical start codons in response to stressful stimuli

Completed. Pausing for 10 secs...OK

Sending request for text = Enteric bacterial pathogens cause food borne disease , wh ich constitutes an enormous economic and he

Completed. Pausing for 10 secs...OK

Sending request for text = Transcription factor (TF) binding to its DNA target sit e is a fundamental regulatory interaction .

Completed. Pausing for 10 secs...OK

Sending request for text = Adrenergic $\alpha 2C$ receptor (ADRA2C) is an inhibitory modul ator of the sympathetic nervous system . Kn

Completed. Pausing for 10 secs...OK

Sending request for text = With at least 60 independent origins spanning monocotyled ons and dicotyledons , the C4 photosyntheti

Completed. Pausing for 10 secs...OK

Sending request for text = An unprecedented Ebola virus (EBOV) epidemic occurred i n 2013-2016 in West Africa . Over this time

Completed. Pausing for 10 secs...OK

Sending request for text = Machupo virus (MACV) , a New World arenavirus , is the etiological agent of Bolivian hemorrhagic f

Completed. Pausing for 10 secs...OK

Sending request for text = The centromeric histone 3 variant (CENH3 , aka CENP-A) is essential for the segregation of sister

Completed. Pausing for 10 secs...OK

Sending request for text = The role of alternative splicing in self-renewal , plurip otency and tissue lineage specification of

Completed. Pausing for 10 secs...OK

Sending request for text = Trehalose biosynthesis is considered an attractive target for the development of antimicrobials agai

Completed. Pausing for 10 secs...OK

Sending request for text = Chagas' disease , caused by the protozoan parasite Trypan osoma cruzi (T . cruzi) , is a life-threa

Completed. Pausing for 10 secs...OK

Sending request for text = Inducible and reversible regulation of gene expression is a powerful approach for uncovering gene fu

Completed. Pausing for 10 secs...OK

Sending request for text = Congenital infection of Trypanosoma cruzi allows transmis sion of this parasite through generations .

Completed. Pausing for 10 secs...OK

Sending request for text = Polyarthritis and rash caused by Sindbis virus (SINV) , was first recognised in northern Europe ab

Completed. Pausing for 10 secs...OK

Sending request for text = Neural circuits exploit numerous strategies for encoding information . Although the functional signi

Completed. Pausing for 10 secs...OK

Sending request for text = Environmental exposures filtered through the genetic make -up of each individual alter the transcript

Completed. Pausing for 10 secs...OK

Sending request for text = Molecular genetic studies in the circadian model organism

Synechococcus have revealed that the KaiC

Completed. Pausing for 10 secs...OK

Sending request for text = The low pathogenicity and replicative potential of HIV-2 are still poorly understood . We investigat

Completed. Pausing for 10 secs...OK

Sending request for text = Visuospatial attention produces myriad effects on the act ivity and selectivity of cortical neurons .

Completed. Pausing for 10 secs...OK

Sending request for text = Atrial fibrillation (AF) is a morbid and heritable arrhythmia . Over 35 genes have been reported t

Completed. Pausing for 10 secs...OK

Sending request for text = Alveolar echinococcosis (AE) caused by Echinococcus mul tilocularis infections is a dangerous old d

Completed. Pausing for 10 secs...OK

Sending request for text = Commensal microbes , whether they are beneficial or patho genic , are sensitive to host processes tha

Completed. Pausing for 10 secs...OK

Sending request for text = Rift Valley fever (RVF) is a vector-borne zoonotic dise ase that causes high morbidity and mortalit

Completed. Pausing for 10 secs...OK

Sending request for text = Within the last century , increases in human movement and globalization of trade have facilitated th

Completed. Pausing for 10 secs...OK

Sending request for text = Infection with Schistosoma mansoni negatively impact chil dren's physical health and may influence th

Completed. Pausing for 10 secs...OK

Sending request for text = Leptospirosis is a zoonosis found worldwide that is cause d by a spirochete . The main reservoirs of

Completed. Pausing for 10 secs...OK

Sending request for text = Sepsis is a progressive disease manifesting excessive inf lammatory responses , severe tissue injury

Completed. Pausing for 10 secs...OK

Sending request for text = HIV-1 infection of macrophages plays a key role in viral pathogenesis and progression to AIDS . Poly

Completed. Pausing for 10 secs...OK

Sending request for text = Most organisms use daily light/dark cycles as timing cues to control many essential physiological pr

Completed. Pausing for 10 secs...OK

Sending request for text = Technologies based on RNA interference may be used for in sect control . Sustainable strategies are ${\sf n}$

Completed. Pausing for 10 secs...OK

Sending request for text = Fever in pregnancy is dangerous for both mother and foetu s . In the 1980's malaria was the leading c

Completed. Pausing for 10 secs...OK

Sending request for text = In humans , chromosome-number abnormalities have been ass ociated with altered recombination and incr

Completed. Pausing for 10 secs...OK

Sending request for text = Development of vaccines against opportunistic infections is difficult as patients most at risk of de

Completed. Pausing for 10 secs...OK

Sending request for text = Polycomb repressive complexes (PRCs) play crucial roles in transcriptional repression and developm

Completed. Pausing for 10 secs...OK

Sending request for text = The active sites of multisubunit RNA polymerases have a "trigger loop" (TL) that multitasks in sub Completed. Pausing for 10 secs...OK

Sending request for text = The majority of rabies virus (RV) infections are caused by bites or scratches from rabid carnivore

Completed. Pausing for 10 secs...OK

Sending request for text = The H1N1 subtype of influenza A virus has caused substant ial morbidity and mortality in humans , fir

Completed. Pausing for 10 secs...OK

Sending request for text = Nicotine exerts its reinforcing action by stimulating nic otinic acetylcholine receptors (nAChRs) a

Completed. Pausing for 10 secs...OK

Sending request for text = Anthroponotic cutaneous leishmaniasis (CL) due to Leish mania (L .) tropica infection is a chroni

Completed. Pausing for 10 secs...OK

Sending request for text = The small GTPase RAS is among the most prevalent oncogene s . The evolutionarily conserved RAF-MEK-MA

Completed. Pausing for 10 secs...OK

Sending request for text = To gain a more detailed picture of cryptococcosis in Thai land , a retrospective study of 498 C . neo

Completed. Pausing for 10 secs...OK

Sending request for text = Differences in transcriptional regulatory networks underl ie much of the phenotypic variation observe

Completed. Pausing for 10 secs...OK

Sending request for text = Serotype-specific PCR assays targeting Salmonella enteric a serotypes Typhi and Paratyphi A , the cau

Completed. Pausing for 10 secs...OK

Sending request for text = The protective immune response to intracellular parasites involves in most cases the differentiation

Completed. Pausing for 10 secs...OK

Sending request for text = Individuals living in sub-Saharan Africa represent 10% of the world's population but almost 2/3 of a

Completed. Pausing for 10 secs...OK

Sending request for text = Acetylcholine (ACh) is a regulator of neural excitabili ty and one of the neurochemical substrates

Completed. Pausing for 10 secs...OK

Sending request for text = Esophageal adenocarcinoma (EAC) develops in an inflamma tory microenvironment with reduced microbia

Completed. Pausing for 10 secs...OK

Sending request for text = The sense of taste is of critical importance to animal survival . Although studies of taste signal t

Completed. Pausing for 10 secs...OK

Sending request for text = Rice is an important monocotyledonous crop worldwide; it differs from the dicotyledonous plant Arabi

Completed. Pausing for 10 secs...OK

Sending request for text = Incidences of nontuberculous mycobacteria (NTM) causing pulmonary and extrapulmonary diseases are

Completed. Pausing for 10 secs...OK

Sending request for text = Upon starvation for glucose or any other macronutrient , yeast cells exit from the mitotic cell cycl

Completed. Pausing for 10 secs...OK

Sending request for text = Rapid antigenic evolution enables the persistence of seas onal influenza A and B viruses in human pop

Completed. Pausing for 10 secs...OK

Sending request for text = Reverse rate dependence is a problematic property of anti arrhythmic drugs that prolong the cardiac a

Completed. Pausing for 10 secs...OK

Sending request for text = Phenome-Wide Association Studies (PheWAS) investigate w hether genetic polymorphisms associated wit

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Completed. Pausing for 10 secs...OK
Sending request for text = Spinal cord injury ( SCI ) is a devastating condition tha
t causes substantial morbidity and mortalit
Completed. Pausing for 10 secs...OK
Sending request for text = Soil-transmitted helminth ( STH ) infections ( i . e . ,
Ascaris lumbricoides , hookworm , and Trich
Completed. Pausing for 10 secs...OK
Sending request for text = Nonalcoholic fatty liver disease ( NAFLD ) is associated
with metabolic syndromes spanning a wide sp
Completed. Pausing for 10 secs...OK
Sending request for text = The olfactory system faces the difficult task of identify
ing an enormous variety of odors independen
Completed. Pausing for 10 secs...OK
Sending request for text = The broadly neutralizing HIV monoclonal antibodies ( bnMA
bs ) PG9 , PG16 , PGT151 , and PGT152 have
Completed. Pausing for 10 secs...OK
Sending request for text = Cancer cells share several metabolic traits , including a
erobic production of lactate from glucose (
Completed. Pausing for 10 secs...OK
Sending request for text = The physiological environment which hosts the conformatio
nal conversion of the cellular prion protei
Completed. Pausing for 10 secs...OK
Sending request for text = Respiratory virus infections , such as influenza , typica
lly induce a robust type I ( pro-inflammato
Completed. Pausing for 10 secs...OK
Sending request for text = Invasive non-typhoidal Salmonella ( iNTS ) infections are
now a well-described cause of morbidity an
Completed. Pausing for 10 secs...OK
Sending request for text = Phages play critical roles in the survival and pathogenic
ity of their hosts , via lysogenic conversi
Completed. Pausing for 10 secs...OK
Sending request for text = Kaposi's sarcoma-associated herpesvirus ( KSHV ) is one o
f the few oncogenic human viruses known to
Completed. Pausing for 10 secs...OK
Sending request for text = Convulsions with fever in children are a common neurologi
c emergency in the tropics , and determinin
Completed. Pausing for 10 secs...OK
Sending request for text = Drought causes substantial reductions in crop yields worl
dwide . Therefore , we set out to identify
Completed. Pausing for 10 secs...OK
Sending request for text = To further investigate the importance of insulin signalin
g in the growth , development , sexual matu
Completed. Pausing for 10 secs...OK
Sending request for text = Lymphatic filariasis ( LF ) is a leading cause of disabil
ity in South Pacific regions , where >96% o
Completed. Pausing for 10 secs...OK
Sending request for text = Human African trypanosomiasis is a severely neglected vec
tor-borne disease that is always fatal if u
Completed. Pausing for 10 secs...OK
Sending request for text = The cytoplasmic peptide: N-glycanase ( Ngly1 in mammals )
is a de-N-glycosylating enzyme that is high
Completed. Pausing for 10 secs...OK
Sending request for text = Positional information in developing embryos is specified
by spatial gradients of transcriptional re
Completed. Pausing for 10 secs...OK
```

Sending request for text = Hybridization between humans and Neanderthals has resulte

d in a low level of Neanderthal ancestry sc

Completed. Pausing for 10 secs...OK

Sending request for text = The HIV promoter within the viral long terminal repeat (LTR) orchestrates many aspects of the vira

Completed. Pausing for 10 secs...OK

Sending request for text = Accurate genome-wide identification of orthologs is a central problem in comparative genomics, a fa

Completed. Pausing for 10 secs...OK

Sending request for text = The development of novel therapeutics is urgently require d for diseases where existing treatments ar

Completed. Pausing for 10 secs...OK

Sending request for text = Transcription factors are central components of the intra cellular regulatory networks that control g

Completed. Pausing for 10 secs...OK

Sending request for text = In 2012 the World Health Assembly adopted resolution WHA6 5 . 21 on elimination of schistosomiasis ,

Completed. Pausing for 10 secs...OK

Sending request for text = Heterosexual transmission of HIV-1 is characterized by a genetic bottleneck that selects a single vi

Completed. Pausing for 10 secs...OK

Sending request for text = Even in the absence of an adaptive immune system in murin e models , lymphatic dilatation and dysfunc

Completed. Pausing for 10 secs...OK

Sending request for text = Since only a small fraction of environmental bacteria are amenable to laboratory culture , there is

Completed. Pausing for 10 secs...OK

Sending request for text = Several viruses from the genus Orthohantavirus are known to cause lethal disease in humans . Sigmodo

Completed. Pausing for 10 secs...OK

Sending request for text = BCL2 family proteins including pro-survival proteins , BH 3-only proteins and BAX/BAK proteins contro

Completed. Pausing for 10 secs...OK

Sending request for text = The global economic impact of canine rabies has been estimated by several studies . Asia bears a dis

Completed. Pausing for 10 secs...OK

Sending request for text = The Type II Secretion System (T2SS) is a molecular mach ine that drives the secretion of fully-fold

Completed. Pausing for 10 secs...OK

Sending request for text = Pathogenic Leptospira spp . shed in the urine of reservoi r hosts into freshwater can be transmitted

Completed. Pausing for 10 secs...OK

Sending request for text = A few broadly neutralizing antibodies , isolated from HIV -1 infected individuals , recognize epitope

Completed. Pausing for 10 secs...OK

Sending request for text = Mass treatment with ivermectin controls onchocerciasis as a public health problem , but it was not k

Completed. Pausing for 10 secs...OK

Sending request for text = Non-enveloped viruses must deliver their viral genome acr oss a cell membrane without the advantage o

Completed. Pausing for 10 secs...OK

Sending request for text = Francisella tularensis (Ft) is a highly infectious Gram -negative bacterium and the causative agent

Completed. Pausing for 10 secs...OK

Sending request for text = Ribosome assembly cofactors are widely conserved across a ll domains of life . One such group , the r

Sending request for text = Anthrax lethal toxin (LT) induces vascular insufficienc y in experimental animals through unknown m

Completed. Pausing for 10 secs...OK

Sending request for text = Parasitic nematodes infect over 1 billion people worldwid e and cause some of the most common neglect

Completed. Pausing for 10 secs...OK

Sending request for text = The well established phenomenon of ribosome drop-off play s crucial roles in translational accuracy a

Completed. Pausing for 10 secs...OK

Sending request for text = The current World Health Organization strategy to address soil-transmitted helminth (STH) infectio

Completed. Pausing for 10 secs...OK

Sending request for text = Protective immunity against cholera is serogroup specific. Serogroup specificity in Vibrio cholerae

Completed. Pausing for 10 secs...OK

Sending request for text = Bacterial-fungal interactions have important physiologic and medical ramifications , but the mechani

Completed. Pausing for 10 secs...OK

Sending request for text = Escape mutant (EM) virus that evades CD8+ T cell recogn ition is frequently observed following infe

Completed. Pausing for 10 secs...OK

Sending request for text = Various types of genetic modification and selective force s have been implicated in the process of ad

Completed. Pausing for 10 secs...OK

Sending request for text = Many solid cancers are known to exhibit a high degree of heterogeneity in their deregulation of diff

Completed. Pausing for 10 secs...OK

Sending request for text = Stress-induced DNA duplex destabilization (SIDD) analys is exploits the known structural and energe

Completed. Pausing for 10 secs...OK

Sending request for text = High-mobility group (HMG) B proteins are eukaryotic DNA-binding proteins characterized by the HMG-

Completed. Pausing for 10 secs...OK

Sending request for text = The 2013-2016 West African Ebola virus disease epidemic w as unprecedented in terms of the number of

Completed. Pausing for 10 secs...OK

Sending request for text = Sensory systems have evolved to respond to input stimuli of certain statistical properties , and to

Completed. Pausing for 10 secs...OK

Sending request for text = The life-long supply of blood cells depends on the long-t ϵ function of hematopoietic stem cells (

Completed. Pausing for 10 secs...OK

Sending request for text = Approximately one-third of the world's population suffers from chronic helminth infections with no e

Completed. Pausing for 10 secs...OK

Sending request for text = Chromosome breakage is a major threat to genome integrity . The most accurate way to repair DNA doub

Completed. Pausing for 10 secs...OK

Sending request for text = People living in areas with active vector-borne transmiss ion of Chagas disease have multiple contact

Completed. Pausing for 10 secs...OK

Sending request for text = Hyperendemic circulation of all four types of dengue viru s (DENV-1-4) has expanded globally , fuel

Completed. Pausing for 10 secs...OK

Sending request for text = Morphogens are classically defined as molecules that cont rol patterning by acting at a distance to r

Sending request for text = The mechanisms by which ethanol and inhaled anesthetics i nfluence the nervous system are poorly unde

Completed. Pausing for 10 secs...OK

Sending request for text = The Anopheles gambiae immune response against Plasmodium falciparum , an etiological agent of human

Completed. Pausing for 10 secs...OK

Sending request for text = Bone marrow-derived mesenchymal stem cells (BMMSCs) hav e been consider as a promising therapy in f

Completed. Pausing for 10 secs...OK

Sending request for text = The recent geographical expansion of phlebotomine vectors of Leishmania infantum in the Mediterranea

Completed. Pausing for 10 secs...OK

Sending request for text = Orientia tsutsugamushi is the causal agent of scrub typhu s , a public health problem in the Asia-Pac

Completed. Pausing for 10 secs...OK

Sending request for text = Ants , like many other animals , use visual memory to fol low extended routes through complex environ

Completed. Pausing for 10 secs...OK

Sending request for text = Plants utilize an innate immune system to protect themsel ves from disease . While many molecular com

Completed. Pausing for 10 secs...OK

Sending request for text = Detection of image motion direction begins in the retina , with starburst amacrine cells (SACs) pl

Completed. Pausing for 10 secs...OK

Sending request for text = The number of pathogens that are required to infect a hos t , termed infective dose , varies dramatic

Completed. Pausing for 10 secs...OK

Sending request for text = Schistosomes are parasitic helminths that cause schistoso miasis , a disease affecting circa 200 mill

Completed. Pausing for 10 secs...OK

Sending request for text = A large number of SARS-related coronaviruses (SARSr-CoV) have been detected in horseshoe bats sinc

Completed. Pausing for 10 secs...OK

Sending request for text = Current efforts to control human soil-transmitted helmint h (STH) infections involve the periodic m

Completed. Pausing for 10 secs...OK

Sending request for text = The tree-like structure of the mammalian lung is generate d from branching morphogenesis , a reiterat

Completed. Pausing for 10 secs...OK

Sending request for text = Paired-end sequencing is emerging as a key technique for assessing genome rearrangements and structu

Completed. Pausing for 10 secs...OK

Sending request for text = Chemotaxis involves the coordinated action of separable b ut interrelated processes: motility , gradi

Completed. Pausing for 10 secs...OK

Sending request for text = Tudor containing protein 6 (TDRD6) is a male germ linespecific protein essential for chromatoid b

Completed. Pausing for 10 secs...OK

Sending request for text = Bacterial populations that colonize a host can play important roles in host health , including servi

Completed. Pausing for 10 secs...OK

Sending request for text = Plants continuously generate new organs through the activ ity of populations of stem cells called mer

Completed. Pausing for 10 secs...OK

Sending request for text = The search for diagnostic biomarkers has been profiting f

rom a growing number of high quality sequen

Completed. Pausing for 10 secs...OK

Sending request for text = Caseating granulomas are often associated with a mycobact erial infection (TB) and are thought to b

Completed. Pausing for 10 secs...OK

Sending request for text = Polygenic type 2 diabetes in mouse models is associated w ith obesity and results from a combination

Completed. Pausing for 10 secs...OK

Sending request for text = Alternative cell differentiation pathways are believed to arise from the concerted action of signall

Completed. Pausing for 10 secs...OK

Sending request for text = Transcription factors that drive complex patterns of gene expression during animal development bind

Completed. Pausing for 10 secs...OK

Sending request for text = One of the major issues in developmental biology is about having a better understanding of the mecha

Completed. Pausing for 10 secs...OK

Sending request for text = Reversible phosphorylation is one of the major mechanisms of signal transduction , and signaling net

Completed. Pausing for 10 secs...OK

Sending request for text = The evolution of heteromorphic sex chromosomes (e . g . , XY in males or ZW in females) has repeat

Completed. Pausing for 10 secs...OK

Sending request for text = Citrobacter rodentium infection is a mouse model for the important human diarrheal infection caused

Completed. Pausing for 10 secs...OK

Sending request for text = Measuring the overlap between two populations is , in principle , straightforward . Upon fully sampl

Completed. Pausing for 10 secs...OK

Sending request for text = Eukaryotic protein kinases regulate most cellular functions by phosphorylating targeted protein subs

Completed. Pausing for 10 secs...OK

Sending request for text = Under the Global Programme to Eliminate Lymphatic Filaria sis (LF) , American Samoa conducted seven

Completed. Pausing for 10 secs...OK

Sending request for text = Although the zebrafish is a major model organism , how th ey determine sex is not well understood . I

Completed. Pausing for 10 secs...OK

Sending request for text = Hox proteins play fundamental roles in controlling morpho genetic diversity along the anterior-poster

Completed. Pausing for 10 secs...OK

Sending request for text = Plants react to pathogen attack via recognition of , and response to , pathogen-specific molecules a

Completed. Pausing for 10 secs...OK

Sending request for text = The SU (VAR) 3-9 homolog SUVH9 and the double-stranded RNA-binding protein IDN2 were thought to be

Completed. Pausing for 10 secs...OK

Sending request for text = Compromised heat shock protein 90 (Hsp90) function reve als cryptic phenotypes in flies and plants

Completed. Pausing for 10 secs...OK

Sending request for text = Protein modifications play a major role for most biologic al processes in living organisms . Amino-te

Completed. Pausing for 10 secs...OK

Sending request for text = The ability of RNA polymerase (\mbox{RNAP}) III to efficiently recycle from termination to reinitiation i

Sending request for text = Current experiments likely cover only a fraction of all p rotein-protein interactions . Here , we dev

Completed. Pausing for 10 secs...OK

Sending request for text = The accumulation of amyloidogenic proteins is a pathological hallmark of neurodegenerative disorders

Completed. Pausing for 10 secs...OK

Sending request for text = Heterocyst differentiation in cyanobacteria filaments is one of the simplest examples of cellular di

Completed. Pausing for 10 secs...OK

Sending request for text = The fight against onchocerciasis in Africa has boomed tha nks to the Community Directed Treatment wit

Completed. Pausing for 10 secs...OK

Sending request for text = Associations between epigenetic alterations and disease s tatus have been identified for many disease

Completed. Pausing for 10 secs...OK

Sending request for text = Natural killer (NK) cells are implicated as important a nti-viral immune effectors in varicella zos

Completed. Pausing for 10 secs...OK

Sending request for text = Two stimuli alternately presented at different locations can evoke a percept of a stimulus continuou

Completed. Pausing for 10 secs...OK

Sending request for text = The HTLV-1 oncoprotein Tax plays a key role in CD4+ T cel 1 transformation by promoting cell prolifer

Completed. Pausing for 10 secs...OK

Sending request for text = A consistent determinant of the establishment success of alien species appears to be the number of i

Completed. Pausing for 10 secs...OK

Sending request for text = Interleukin 17A (IL-17) , a mediator implicated in chro nic and severe inflammatory diseases , enha

Completed. Pausing for 10 secs...OK

Sending request for text = Uganda has active foci of both chronic and acute HAT with the acute zoonotic form of disease classic

Completed. Pausing for 10 secs...OK

Sending request for text = MOF is the major histone H4 lysine 16-specific (H4K16) acetyltransferase in mammals and Drosophila

Completed. Pausing for 10 secs...OK

Sending request for text = Facioscapulohumeral dystrophy (FSHD) is a progressive m uscular dystrophy caused by decreased epige

Completed. Pausing for 10 secs...OK

Sending request for text = Malaria vaccine candidate Apical Membrane Antigen-1 (AMA 1) induces protection , but only against p

Completed. Pausing for 10 secs...OK

Sending request for text = The displacement of the mitotic spindle to one side of a cell is important for many cells to divide

Completed. Pausing for 10 secs...OK

Sending request for text = High-altitude hypoxia (reduced inspired oxygen tension d ue to decreased barometric pressure) exert

Completed. Pausing for 10 secs...OK

Sending request for text = Double strand DNA breaks (DSBs) are dangerous events th at can result from various causes including

Completed. Pausing for 10 secs...OK

Sending request for text = Pseudomonas aeruginosa is an opportunistic pathogen capab le of causing both acute and chronic infect

Completed. Pausing for 10 secs...OK

Sending request for text = Certain genes exhibit notable diversity in their expressi on patterns both within and between species

Sending request for text = Transcription of the switch (S) regions of immunoglobul in genes in B cells generates stable R-loop

Completed. Pausing for 10 secs...OK

Sending request for text = Coordination between cell division and chromosome replica tion is essential for a cell to produce via

Completed. Pausing for 10 secs...OK

Sending request for text = Epitope-based vaccines (EVs) have a wide range of appli cations: from therapeutic to prophylactic a

Completed. Pausing for 10 secs...OK

Sending request for text = The majority of HIV-1 infections in women occur through v aginal intercourse , in which virus-contain

Completed. Pausing for 10 secs...OK

Sending request for text = RNA interference (RNAi) controls arbovirus infections i n mosquitoes . Two different RNAi pathways

Completed. Pausing for 10 secs...OK

Sending request for text = There have been several recent changes in the taxonomy of Sporothrix schenckii as well as new observ

Completed. Pausing for 10 secs...OK

Sending request for text = A series of reports over the last few years have indicate d that a much larger portion of the mammali

Completed. Pausing for 10 secs...OK

Sending request for text = The ability to design thermostable proteins offers enormo us potential for the development of novel p

Completed. Pausing for 10 secs...OK

Sending request for text = Sand flies (Diptera , Psychodidae , Phlebotominae) in the genus Lutzomyia are the predominant vect

Completed. Pausing for 10 secs...OK

Sending request for text = The devastating clinical consequences associated with hum an cytomegalovirus (HCMV) infection and r

Completed. Pausing for 10 secs...OK

Sending request for text = The production of ribosomes is ubiquitous and fundamental to life . As such , it is surprising that

Completed. Pausing for 10 secs...OK

Sending request for text = Leptospirosis is a widespread zoonotic disease worldwide . The lack of an adequate laboratory test i

Completed. Pausing for 10 secs...OK

Sending request for text = Mosquito immunity studies have focused mainly on characte rizing immune effector mechanisms elicited

Completed. Pausing for 10 secs...OK

Sending request for text = Dengue virus host factors (DENV HFs) that are essential for the completion of the infection cycle

Completed. Pausing for 10 secs...OK

Sending request for text = Cell volume changes are ubiquitous in normal and patholog ical activity of the brain . Nevertheless ,

Completed. Pausing for 10 secs...OK

Sending request for text = Paracoccidioides brasiliensis is the etiologic agent of p aracoccidioidomycosis (PCM) , the most pr

Completed. Pausing for 10 secs...OK

Sending request for text = Toxoplasma gondii , a common brain-tropic parasite , is c apable of infecting most nucleated cells ,

Completed. Pausing for 10 secs...OK

Sending request for text = To understand shapes and movements of cells undergoing la mellipodial motility , we systematically ex

Completed. Pausing for 10 secs...OK

Sending request for text = Understanding complex networks of protein-protein interac

tions (PPIs) is one of the foremost chall

Completed. Pausing for 10 secs...OK

Sending request for text = More than 20 human neurological and neurodegenerative dis eases are caused by simple DNA repeat expan

Completed. Pausing for 10 secs...OK

Sending request for text = Soft rot disease is economically one of the most devastat ing bacterial diseases affecting plants wor

Completed. Pausing for 10 secs...OK

Sending request for text = The mitochondrial protein repertoire varies depending on the cellular state . Protein component modi

Completed. Pausing for 10 secs...OK

Sending request for text = The molecular machinery of life relies on complex multist ep processes that involve numerous individu

Completed. Pausing for 10 secs...OK

Sending request for text = Our understanding of basic evolutionary processes in bact eria is still very limited . For example ,

Completed. Pausing for 10 secs...OK

Sending request for text = Photoreception in the mammalian retina is not restricted to rods and cones but extends to a subset o

Completed. Pausing for 10 secs...OK

Sending request for text = HIV-1 infection is associated with an early and profound depletion of mucosal memory CD4+ T cells ,

Completed. Pausing for 10 secs...OK

Sending request for text = Populations of species in ecosystems are often constraine d by availability of resources within their

Completed. Pausing for 10 secs...OK

Sending request for text = Chemotactic movement of Escherichia coli is one of the mo st thoroughly studied paradigms of simple b

Completed. Pausing for 10 secs...OK

Sending request for text = Medullary thymic epithelial cells (mTECs) are essential for establishing central tolerance by expr

Completed. Pausing for 10 secs...OK

Sending request for text = Clostridium difficile is an emergent pathogen , and the m ost common cause of nosocomial diarrhea . ${\tt I}$

Completed. Pausing for 10 secs...OK

Sending request for text = The liver-specific microRNA miR-122 , which has essential roles in liver development and metabolism

Completed. Pausing for 10 secs...OK

Sending request for text = Trypanosomes cause disease in humans and livestock throug hout sub-Saharan Africa . Although various $\frac{1}{2}$

Completed. Pausing for 10 secs...OK

Sending request for text = The role that mechanistic mathematical modeling and syste ms biology will play in molecular medicine

Completed. Pausing for 10 secs...OK

Sending request for text = Phage therapy is the use of bacteriophages as antimicrobi al agents for the control of pathogenic and

Completed. Pausing for 10 secs...OK

Sending request for text = Schistosomiasis , a devastating disease caused by parasit ic flatworms of the genus Schistosoma , aff

Completed. Pausing for 10 secs...OK

Sending request for text = Aedes mosquitoes severely affect the health and wellbeing of human populations by transmitting infec

Completed. Pausing for 10 secs...OK

Sending request for text = The success of Mycobacterium tuberculosis as a pathogen d erives from its facile adaptation to the in

Sending request for text = Crossover recombination and the formation of chiasmata no rmally ensure the proper segregation of hom

Completed. Pausing for 10 secs...OK

Sending request for text = Aedes albopictus is a tropical invasive species which in the last decades spread worldwide , also co

Completed. Pausing for 10 secs...OK

Sending request for text = Phthiocerol dimycocerosates (DIM) are major virulence f actors of Mycobacterium tuberculosis (Mtb

Completed. Pausing for 10 secs...OK

Sending request for text = Mean-field approximations are a powerful tool for studyin g large neural networks . However , they do

Completed. Pausing for 10 secs...OK

Sending request for text = The clinical and epidemiological significance of Leishman ia DNA in extralesional sites is obscured b

Completed. Pausing for 10 secs...OK

Sending request for text = In metazoans , each cell type follows a characteristic , spatio-temporally regulated DNA replication

Completed. Pausing for 10 secs...OK

Sending request for text = Dengue virus and its four serotypes (DENV-1 to DENV-4) infect 390 million people and are implicate

Completed. Pausing for 10 secs...OK

Sending request for text = Understanding how neural populations encode sensory information thereby leading to perception and be

Completed. Pausing for 10 secs...OK

Sending request for text = Over repeat presentations of the same stimulus , sensory neurons show variable responses . This "noi

Completed. Pausing for 10 secs...OK

Sending request for text = Chronic coinfections of Staphylococcus aureus and Pseudom onas aeruginosa frequently fail to respond

Completed. Pausing for 10 secs...OK

Sending request for text = Thrombocytopenia and platelet dysfunction are commonly observed in patients with dengue virus (DENV

Completed. Pausing for 10 secs...OK

Sending request for text = A "bidirectional gene pair" comprises two adjacent genes whose transcription start sites are neighbo

Completed. Pausing for 10 secs...OK

Sending request for text = Many species groups , including mammals and many insects , determine sex using heteromorphic sex chr

Completed. Pausing for 10 secs...OK

Sending request for text = Zika virus (ZIKV) is an emerging mosquito-borne pathoge n . ZIKV infection is linked to the develop

Completed. Pausing for 10 secs...OK

Sending request for text = Although several studies have associated Mycobacterium ul cerans (MU) infection , Buruli ulcer (BU

Completed. Pausing for 10 secs...OK

Sending request for text = Alien species are a major component of human-induced environmental change . Variation in the numbers

Completed. Pausing for 10 secs...OK

Sending request for text = Upstream Binding Factor (UBF) is a unique multi-HMGB-bo x protein first identified as a co-factor i

Completed. Pausing for 10 secs...OK

Sending request for text = Signal transduction activated by Wingless/Wnt ligands dir ects cell proliferation and fate specificat

Completed. Pausing for 10 secs...OK

Sending request for text = Recruitment of the serine protease plasmin is central to the pathogenesis of many bacterial species

Sending request for text = Colonization of the human stomach by Helicobacter pylori is an important risk factor for development

Completed. Pausing for 10 secs...OK

Sending request for text = Bovine tuberculosis (bTB) is a chronic disease of cattl e caused by Mycobacterium bovis , a member

Completed. Pausing for 10 secs...OK

Sending request for text = Non-centrosomal microtubule organizing centers (ncMTOCs) are found in most differentiated cells ,

Completed. Pausing for 10 secs...OK

Sending request for text = Humans are a diploid species that inherit one set of chro mosomes paternally and one homologous set o

Completed. Pausing for 10 secs...OK

Sending request for text = Type-III protein secretion systems are utilized by gram-n egative pathogens to secrete building block

Completed. Pausing for 10 secs...OK

Sending request for text = Bistability plays a central role in the gene regulatory n etworks (GRNs) controlling many essential

Completed. Pausing for 10 secs...OK

Sending request for text = Orofacial clefting is amongst the most common of birth de fects , with both genetic and environmental

Completed. Pausing for 10 secs...OK

Sending request for text = Sound detection by inner ear hair cells requires tip link s that interconnect mechanosensory stereoci

Completed. Pausing for 10 secs...OK

Sending request for text = Dengue virus (DENV) is the most prevalent arbovirus leading to an estimated 100 million symptomati

Completed. Pausing for 10 secs...OK

Sending request for text = The metabolic pathway of purine nucleotides in parasitic protozoa is a potent drug target for treatm

Completed. Pausing for 10 secs...OK

Sending request for text = Sodium channel blockers are used to control electrical ex citability in cells as a treatment for epil

Completed. Pausing for 10 secs...OK

Sending request for text = MyD88-mediated signaling downstream of Toll-like receptor s and the IL-1 receptor family is criticall

Completed. Pausing for 10 secs...OK

Sending request for text = Onchocerciasis is targeted for elimination in Africa through annual or biannual ivermectin mass drug

Completed. Pausing for 10 secs...OK

Sending request for text = We have reported that properties of prion strains may change when propagated in different environmen

Completed. Pausing for 10 secs...OK

Sending request for text = All biological evolution takes place in a space of possib le genotypes and their phenotypes . The str

Completed. Pausing for 10 secs...OK

Sending request for text = The population genetics of Triatoma dimidiata haplogroups was analyzed at landscape and sub-regional

Completed. Pausing for 10 secs...OK

Sending request for text = Hemorrhagic fever with renal syndrome (HFRS) is a roden t-borne disease caused mainly by two hantav

Completed. Pausing for 10 secs...OK

Sending request for text = Costello syndrome (CS) may be caused by activating mutations in codon 12/13 of the HRAS proto-onco

Completed. Pausing for 10 secs...OK

Sending request for text = N6-methyladenosine (m6A) RNA methylation is the most ab

undant modification on mRNAs and plays impo

Completed. Pausing for 10 secs...OK

Sending request for text = Transcription factors are proteins that regulate gene exp ression by binding to cis-regulatory sequen

Completed. Pausing for 10 secs...OK

Sending request for text = A reciprocal translocation involving chromosomes 8 and 21 generates the AML1/ETO oncogenic transcrip

Completed. Pausing for 10 secs...OK

Sending request for text = Chromatin modifications affect several processes . In investigating the Leishmania donovani histone

Completed. Pausing for 10 secs...OK

Sending request for text = Inferring on others' (potentially time-varying) intentions is a fundamental problem during many so

Completed. Pausing for 10 secs...OK

Sending request for text = Scrub typhus is an endemic disease in Asia . It has been a rural disease , but indigenous urban case

Completed. Pausing for 10 secs...OK

Sending request for text = RNA interference (RNAi) -related pathways affect gene a ctivity by sequence-specific recruitment of

Completed. Pausing for 10 secs...OK

Sending request for text = Over half of all proteins are glycosylated , and alterati ons in glycosylation have been observed in

Completed. Pausing for 10 secs...OK

Sending request for text = Centromeres are the attachment points between the genome and the cytoskeleton: centromeres bind to k

Completed. Pausing for 10 secs...OK

Sending request for text = GWAS identified variants associated with birth weight (B W) , childhood obesity (CO) and childhoo

Completed. Pausing for 10 secs...OK

Sending request for text = Post Kala-azar Dermal Leishmaniasis (PKDL) is a chronic but not life-threatening disease; patients

Completed. Pausing for 10 secs...OK

Sending request for text = Bacteria have evolved various inducible genetic programs to face many types of stress that challenge

Completed. Pausing for 10 secs...OK

Sending request for text = The human papillomavirus type 16 (HPV16) L2 protein act s as a chaperone to ensure that the viral g

Completed. Pausing for 10 secs...OK

Sending request for text = We present a method to measure the relative transmissibil ity ("transmission fitness") of one strai

Completed. Pausing for 10 secs...OK

Sending request for text = Light is one of the most important environmental cues regulating multiple aspects of plant growth an

Completed. Pausing for 10 secs...OK

Sending request for text = The Mediator complex is an essential co-regulator of RNA polymerase II that is conserved throughout

Completed. Pausing for 10 secs...OK

Sending request for text = Bacteria in biofilms have higher antibiotic tolerance than their planktonic counterparts . A major o

Completed. Pausing for 10 secs...OK

Sending request for text = Most biological systems are difficult to analyse due to a multitude of interacting components and th

Completed. Pausing for 10 secs...OK

Sending request for text = The National Program for Chagas disease was implemented in Bolivia in 2006 , and it greatly decrease $\frac{1}{2}$

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Sending request for text = Neisseria meningitidis is the primary causative agent of bacterial meningitis . The genome is rich i
```

Sending request for text = LaeA and VeA coordinate secondary metabolism and differen tiation in response to light signals in Asp

Completed. Pausing for 10 secs...OK

Sending request for text = Crystal structures of several bacterial Nav channels have been recently published and molecular dyna

Completed. Pausing for 10 secs...OK

Sending request for text = Studies of the furious and paralytic forms of canine rabi es at the early stage of disease have shown

Completed. Pausing for 10 secs...OK

Sending request for text = Insulator or enhancer-blocking elements are proposed to p lay an important role in the regulation of

Completed. Pausing for 10 secs...OK

Sending request for text = For several decades , molecular recognition has been considered one of the most fundamental processe

Completed. Pausing for 10 secs...OK

Sending request for text = The thalamus is the primary gateway that relays sensory i nformation to the cerebral cortex . While a

Completed. Pausing for 10 secs...OK

Sending request for text = The biological roles of nucleic acid methylation , other than at the C5-position of cytosines in CpG

Completed. Pausing for 10 secs...OK

Sending request for text = Human cytomegalovirus (HCMV) is a ubiquitous pathogen t hat can cause disability in newborns and se

Completed. Pausing for 10 secs...OK

Sending request for text = Autoregulation of transcription factors and cross-antagon ism between lineage-specific transcription

Completed. Pausing for 10 secs...OK

Sending request for text = The genus Orthobunyavirus within the family Bunyaviridae constitutes an expanding group of emerging

Completed. Pausing for 10 secs...OK

Sending request for text = Anterior chamber depth (ACD) is a key anatomical risk f actor for primary angle closure glaucoma (

Completed. Pausing for 10 secs...OK

Sending request for text = The identification of homologies , whether morphological , molecular , or genetic , is fundamental t

Completed. Pausing for 10 secs...OK

Sending request for text = While influenza virus diversity and antigenic drift have been well characterized on a global scale ,

Completed. Pausing for 10 secs...OK

Sending request for text = Visceral leishmaniasis (VL) caused by the protozoan par asite Leishmania donovani causes severe dis

Completed. Pausing for 10 secs...OK

Sending request for text = Despite their genetic similarities , enteric and respirat ory enteroviruses (EVs) have highly heter

Completed. Pausing for 10 secs...OK

Sending request for text = The Herpes Simplex Virus 1 (HSV-1) glycoprotein gE-gI i s a transmembrane Fc receptor found on the

Completed. Pausing for 10 secs...OK

Sending request for text = Cystic hydatid disease (CHD) is caused by the larval st ages of the cestode and affects humans and

Completed. Pausing for 10 secs...OK

Sending request for text = The assimilation of nitrate , a most important soil nitro gen source , is tightly regulated in microo

Sending request for text = We study how functional constraints bound and shape evolution through an analysis of mammalian volta

Completed. Pausing for 10 secs...OK

Sending request for text = It is generally recognised that novel antiviral drugs , l ess prone to resistance , would be a desira

Completed. Pausing for 10 secs...OK

Sending request for text = Snake envenomation has been estimated to affect 1 . 8 mil lion people annually with about 94 , 000 de

Completed. Pausing for 10 secs...OK

Sending request for text = Host-adapted strains of Salmonella enterica cause systemi c infections and have the ability to persis

Completed. Pausing for 10 secs...OK

Sending request for text = Community acquired-methicillin resistant Staphylococcus a ureus (CA-MRSA) is a socially problematic

Completed. Pausing for 10 secs...OK

Sending request for text = Epidemiological studies have reported that most of the se vere dengue cases occur upon a secondary he

Completed. Pausing for 10 secs...OK

Sending request for text = Still today , more than 30 years after the beginning of t he process of visceral leishmaniasis' urban

Completed. Pausing for 10 secs...OK

Sending request for text = Inhalation of Francisella tularensis (Ft) causes acute and fatal pneumonia . The lung cytokine mil

Completed. Pausing for 10 secs...OK

Sending request for text = Invasive species represent a global concern for their rap id spread and the possibility of infectious

Completed. Pausing for 10 secs...OK

Sending request for text = While much is known about acute infection pathogenesis , the understanding of chronic infections has

Completed. Pausing for 10 secs...OK

Sending request for text = Chronic hydrocele is the most common manifestation of ban croftian filariasis , an endemic disease in

Completed. Pausing for 10 secs...OK

Sending request for text = Trichinella spiralis is a zoonotic parasitic nematode that causes trichinellosis , a disease that ha

Completed. Pausing for 10 secs...OK

Sending request for text = The cysteine protease cruzipain is considered to be a validated target for therapeutic intervention

Completed. Pausing for 10 secs...OK

Sending request for text = Maize (Zea mays L .) is one of the most important cerea l crops and a model for the study of geneti

Completed. Pausing for 10 secs...OK

Sending request for text = Prions are the proteinaceous infectious agents responsible for Transmissible Spongiform Encephalopat

Completed. Pausing for 10 secs...OK

Sending request for text = We present a novel neurally based model for estimating an gular velocity (${\sf AV}$) in the bee brain , ca

Completed. Pausing for 10 secs...OK

Sending request for text = The final outcome of infection by Trypanosoma brucei gamb iense , the main agent of sleeping sickness

Completed. Pausing for 10 secs...OK

Sending request for text = Identification and characterization of mutations that drive cancer evolution constitute a major focu

Completed. Pausing for 10 secs...OK

Sending request for text = Protease inhibitors have important function during homeos

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tasis , inflammation and tissue injury . In
Completed. Pausing for 10 secs...OK
Sending request for text = Eukaryotic transmembrane helical ( TMH ) proteins perform
a wide diversity of critical cellular func
Completed. Pausing for 10 secs...OK
Sending request for text = Listeria monocytogenes causes listeriosis , a foodborne d
isease that poses serious risks to fetuses
Completed. Pausing for 10 secs...OK
Sending request for text = Sequences of higher frequency A and lower frequency B ton
es repeating in an ABA- triplet pattern are
Completed. Pausing for 10 secs...OK
Sending request for text = Parasite-specific IgE is thought to correlate with protec
tion against Schistosoma mansoni infection
Completed. Pausing for 10 secs...OK
Sending request for text = Sexual reproduction allows transposable elements ( TEs )
to proliferate , leading to rapid divergenc
Completed. Pausing for 10 secs...OK
Sending request for text = Fragile X Tremor Ataxia Syndrome (FXTAS) is a common in
herited neurodegenerative disorder caused b
Completed. Pausing for 10 secs...OK
Sending request for text = Effective CD8 T cell responses are vital for the control
of chronic viral infections . Many factors
Completed. Pausing for 10 secs...OK
Sending request for text = Anthrax is a global re-emerging zoonotic disease and is a
n endemic disease in China , especially in
Completed. Pausing for 10 secs...OK
Sending request for text = Enterohemorrhagic Escherichia coli and related food and w
aterborne pathogens pose significant threat
Completed. Pausing for 10 secs...OK
Sending request for text = Translation initiation is a critical early step in the re
plication cycle of the positive-sense, sin
Completed. Pausing for 10 secs...OK
Sending request for text = Genes encoding proteins in a common pathway are often fou
nd near each other along bacterial chromoso
Completed. Pausing for 10 secs...OK
Sending request for text = Malaria , caused by the parasite Plasmodium falciparum ,
is responsible for substantial morbidity,
Completed. Pausing for 10 secs...OK
Sending request for text = Infection with dengue viruses ( DENV ) leads to a spectru
m of disease outcomes . The pathophysiology
Completed. Pausing for 10 secs...OK
Sending request for text = Herpesviruses are ubiquitous pathogens that cause much di
sease . The difficulty of clearing their es
Completed. Pausing for 10 secs...OK
Sending request for text = Invasion of epithelial cells by Salmonella enterica requi
res expression of genes located in the path
Completed. Pausing for 10 secs...OK
Sending request for text = The expansion of CAG/CTG repeats is responsible for many
diseases , including Huntington's disease (
Completed. Pausing for 10 secs...OK
Sending request for text = Enterovirus 71 ( EV71 ) is one of the most virulent enter
oviruses , but the specific molecular featu
Completed. Pausing for 10 secs...OK
Sending request for text = Natural transformation , or competence , is an ability in
herent to bacteria for the uptake of extrac
Completed. Pausing for 10 secs...OK
```

Sending request for text = Eukaryotic centromeres are maintained at specific chromos α omal sites over many generations . In the α

Completed. Pausing for 10 secs...OK

Sending request for text = Back pain is the #1 cause of years lived with disability worldwide , yet surprisingly little is know

Completed. Pausing for 10 secs...OK

Sending request for text = Taenia solium cysticercosis is an important zoonosis in m any developing countries . Human neurocysti

Completed. Pausing for 10 secs...OK

Sending request for text = Staphylococcus aureus produces a high number of RNAs for which the functions are poorly understood .

Completed. Pausing for 10 secs...OK

Sending request for text = Disassembly of the cone-shaped HIV-1 capsid in target cells is a prerequisite for establishing a lif

Completed. Pausing for 10 secs...OK

Sending request for text = Oligonucleotide usage in archaeal and bacterial genomes c an be linked to a number of properties , in

Completed. Pausing for 10 secs...OK

Sending request for text = Meiotic recombination ensures the correct segregation of homologous chromosomes during gamete format

Completed. Pausing for 10 secs...OK

Sending request for text = Exposure to environmental chemicals and drugs may have a negative effect on human health . A better

Completed. Pausing for 10 secs...OK

Sending request for text = Cortical sensory neurons are commonly characterized using the receptive field , the linear dependenc

Completed. Pausing for 10 secs...OK

Sending request for text = Intracellular circadian clocks , composed of clock genes that act in transcription-translation feedb

Completed. Pausing for 10 secs...OK

Sending request for text = Bile possesses antibacterial activity because bile salts disrupt membranes , denature proteins , and

Completed. Pausing for 10 secs...OK

Sending request for text = The E . coli chromosome is compacted by segregation into 400-500 supercoiled domains by both active

Completed. Pausing for 10 secs...OK

Sending request for text = Primaquine (PQ) is the only currently licensed antimala rial that prevents Plasmodium vivax (Pv)

Completed. Pausing for 10 secs...OK

Sending request for text = The Rho family of GTPases control actin organization during diverse cellular responses (migration,

Completed. Pausing for 10 secs...OK

Sending request for text = Monitoring and evaluation (M&E) programmes are used to collect data which are required to assess t

Completed. Pausing for 10 secs...OK

Sending request for text = Temporal lobe epilepsy (TLE) is a prevalent neurologica l disorder resulting in disruptive seizures

Completed. Pausing for 10 secs...OK

Sending request for text = Viral replication efficiency is in large part governed by the ability of viruses to counteract pro-a

Completed. Pausing for 10 secs...OK

Sending request for text = The healthy lung maintains a steady state of immune readiness to rapidly respond to injury from inva

Completed. Pausing for 10 secs...OK

Sending request for text = Leishmania (Viannia) braziliensis is the species most f requently implicated with cutaneous and muc

Sending request for text = Genome-wide association studies (GWAS) have identified over 40 loci that affect risk of coronary a

Completed. Pausing for 10 secs...OK

Sending request for text = As highly trachoma-endemic countries approach elimination , some districts will have prevalences of

Completed. Pausing for 10 secs...OK

Sending request for text = Nucleotide-binding domain leucine-rich repeat (NLR) pro tein complexes sense infections and trigger

Completed. Pausing for 10 secs...OK

Sending request for text = Much of the developing world , particularly sub-Saharan A frica , exhibits high levels of morbidity a

Completed. Pausing for 10 secs...OK

Sending request for text = Generally , the antagonism between host restriction factors and viral countermeasures decides on cel

Completed. Pausing for 10 secs...OK

Sending request for text = Amyotrophic lateral sclerosis (ALS) is a devastating ne urodegenerative disease that results in pro

Completed. Pausing for 10 secs...OK

Sending request for text = Currently , our understanding of mechanisms underlying ce ll-mediated immunity and particularly of me

Completed. Pausing for 10 secs...OK

Sending request for text = Cytosine-5 methyltransferases of the Dnmt2 family function as DNA and tRNA methyltransferases. Insi

Completed. Pausing for 10 secs...OK

Sending request for text = Mosquito borne pathogens are transmitted to humans via sa liva during blood feeding . Mosquito saliva

Completed. Pausing for 10 secs...OK

Sending request for text = Mitochondria contain an independently maintained genome t hat encodes several proteins required for c

Completed. Pausing for 10 secs...OK

Sending request for text = Rheumatic heart disease (RHD) poses a major disease bur den among disadvantaged populations globall

Completed. Pausing for 10 secs...OK

Sending request for text = Even a single mutation can cause a marked change in a protein's properties. When the mutant protein

Completed. Pausing for 10 secs...OK

Sending request for text = Primary Amoebic Meningoencephalitis (PAM) is caused by Naegleria fowleri , a free-living amoeba th

Completed. Pausing for 10 secs...OK

Sending request for text = There is currently no vaccine against parasitic nematodes and the knowledge on the mechanisms by whi

Completed. Pausing for 10 secs...OK

Sending request for text = As humans move and alter habitats , they change the disea se risk for themselves , their commensal an

Completed. Pausing for 10 secs...OK

Sending request for text = The long noncoding MALAT1 RNA is upregulated in cancer ti ssues and its elevated expression is associ

Completed. Pausing for 10 secs...OK

Sending request for text = Juvenile hormone (JH) , a sesquiterpenoid produced by t he corpora allata , coordinates insect grow

Completed. Pausing for 10 secs...OK

Sending request for text = While prednisolone is commonly used to treat recent nerve function impairment (NFI) in leprosy pat

Completed. Pausing for 10 secs...OK

Sending request for text = Male Rocky Mountain elk (Cervus elaphus nelsoni) produc

```
e loud and high fundamental frequency bugle
Completed. Pausing for 10 secs...OK
Sending request for text = Chromatin immunoprecipitation followed by high-throughput
sequencing (ChIP-seq ) is rapidly replaci
Completed. Pausing for 10 secs...OK
Sending request for text = The control or elimination of neglected tropical diseases
( NTDs ) has targets defined by the WHO fo
Completed. Pausing for 10 secs...OK
Sending request for text = The notion that neurons with higher selectivity carry mor
e information about external sensory inputs
Completed. Pausing for 10 secs...OK
Sending request for text = During acute viral infections , clearance of the pathogen
is followed by the contraction of the anti
Completed. Pausing for 10 secs...OK
Sending request for text = Examples of animals evolving similar traits despite the a
bsence of that trait in the last common and
Completed. Pausing for 10 secs...OK
Sending request for text = During development of the cerebral cortex , neural stem c
ells ( NSCs ) divide symmetrically to proli
Completed. Pausing for 10 secs...OK
Sending request for text = Among more than 20 , 000 species of hermaphroditic tremat
odes , Schistosomatidae are unusual since t
Completed. Pausing for 10 secs...OK
Sending request for text = Large-scale annotation efforts typically involve several
experts who may disagree with each other .
Completed. Pausing for 10 secs...OK
Sending request for text = Andes virus ( ANDV ) and ANDV-like viruses are responsibl
e for most hantavirus pulmonary syndrome (
Completed. Pausing for 10 secs...OK
Sending request for text = Changes in genomic DNA methylation patterns are generally
assumed to play an important role in the e
Completed. Pausing for 10 secs...OK
Sending request for text = Time-locked sequences of neural activity can be found thr
oughout the vertebrate forebrain in various
Completed. Pausing for 10 secs...OK
Sending request for text = Evolutionarily conserved mechanisms that control aging ar
e predicted to have prereproductive functio
Completed. Pausing for 10 secs...OK
Sending request for text = The first critical stage in salamander or teleost appenda
ge regeneration is creation of a specialize
Completed. Pausing for 10 secs...OK
Sending request for text = Approaches based on linear mixed models ( LMMs ) have rec
ently gained popularity for modelling popul
Completed. Pausing for 10 secs...OK
Sending request for text = The development of new drugs against Chagas disease is a
priority since the currently available medi
Completed. Pausing for 10 secs...OK
Sending request for text = Currently , molecular xenomonitoring efforts for lymphati
c filariasis rely on PCR or real-time PCR-b
Completed. Pausing for 10 secs...OK
Sending request for text = Elastomeric proteins have evolved independently multiple
times through evolution . Produced as monom
Completed. Pausing for 10 secs...OK
```

Sending request for text = Ebolaviruses , highly lethal zoonotic pathogens , possess

longer genomes than most other non-segment

Sending request for text = Genome instability plays a key role in multiple biologica l processes and diseases , including cancer

Completed. Pausing for 10 secs...OK

Sending request for text = We studied infection by Trypanosomatidae in bats captured in two areas with different degradation le

Completed. Pausing for 10 secs...OK

Sending request for text = Ticks are the most common arthropod vectors of both human and animal diseases in Europe , and the Ix

Completed. Pausing for 10 secs...OK

Sending request for text = Hematopoietic stem cell lineage choices are decided by ge netic networks that are turned ON/OFF in a

Completed. Pausing for 10 secs...OK

Sending request for text = Enterococcus faecalis is an opportunistic pathogen with a n intrinsically high resistance to lysozyme

Completed. Pausing for 10 secs...OK

Sending request for text = Gene expression is a combinatorial function of genetic/ep igenetic factors such as copy number variat

Completed. Pausing for 10 secs...OK

Sending request for text = Even though the fungal kingdom contains more than 3 milli on species , little is known about the biol

Completed. Pausing for 10 secs...OK

Sending request for text = Three waves of H2AX phosphorylation (γ H2AX) have been o bserved in male meiotic prophase I: the fir

Completed. Pausing for 10 secs...OK

Sending request for text = Alteration of early haematopoietic development is thought to be responsible for the onset of immatur

Completed. Pausing for 10 secs...OK

Sending request for text = Schistosomiasis remains a major public health concern in Sudan , particularly Schistosoma haematobiu

Completed. Pausing for 10 secs...OK

Sending request for text = Paramyxoviruses are known to replicate in the cytoplasm a nd bud from the plasma membrane . Matrix is

Completed. Pausing for 10 secs...OK

Sending request for text = Viruses initiate infection by transferring their genetic material across a cellular membrane and int

Completed. Pausing for 10 secs...OK

Sending request for text = Dengue fever continues to be a major public health proble m in Cambodia , with significant impact on

Completed. Pausing for 10 secs...OK

Sending request for text = Filarial nematodes cause chronic and profoundly debilitating diseases in both humans and animals . A

Completed. Pausing for 10 secs...OK

Sending request for text = Tyrosine kinases of the Src-family are large allosteric e nzymes that play a key role in cellular sig

Completed. Pausing for 10 secs...OK

Sending request for text = The molecular mechanisms underlying lethality of F1 hybri ds between diverged parents are one target

Completed. Pausing for 10 secs...OK

Sending request for text = Emerging bacterial zoonoses in bats and rodents remain re latively understudied . We conduct the firs

Completed. Pausing for 10 secs...OK

Sending request for text = A fundamental issue in locomotion is to understand how mu scle forcing produces apparently complex de

Completed. Pausing for 10 secs...OK

Sending request for text = Genetic recombination between pathogens derived from huma ns and livestock has the potential to creat

Sending request for text = Diabetes is caused by dysfunction to β -cells in the islet s of Langerhans , disrupting insulin secret

Completed. Pausing for 10 secs...OK

Sending request for text = Predicting the dynamic behavior of a large network from t hat of the composing modules is a central p

Completed. Pausing for 10 secs...OK

Sending request for text = The pseudoautosomal region (PAR) is a short region of h omology between the mammalian X and Y chrom

Completed. Pausing for 10 secs...OK

Sending request for text = In proliferating myoblasts , muscle specific genes are si lenced by epigenetic modifications at their

Completed. Pausing for 10 secs...OK

Sending request for text = Of the three diseases targeted for eradication by WHO , t wo are so-called Neglected Tropical Disease

Completed. Pausing for 10 secs...OK

Sending request for text = The carboxy-terminal domain of the BBK32 protein from Bor relia burgdorferi sensu stricto , termed BB

Completed. Pausing for 10 secs...OK

Sending request for text = The opportunistic human fungal pathogen , Candida albican s , undergoes morphological and transcripti

Completed. Pausing for 10 secs...OK

Sending request for text = The human pathogenic parasite Trypanosoma brucei possess both de novo and salvage routes for the bio

Completed. Pausing for 10 secs...OK

Sending request for text = The initiation of translation is a fundamental and highly regulated process in gene expression . Tra

Completed. Pausing for 10 secs...OK

Sending request for text = The skin disorder Post Kala-Azar Dermal Leishmaniasis (P KDL) occurs in up to 10% of patients treat

Completed. Pausing for 10 secs...OK

Sending request for text = Prevention of Chagas disease depends mainly on control of the insect vectors that transmit infection

Completed. Pausing for 10 secs...OK

Sending request for text = Effects of polyomavirus SV40 microRNA on pathogenesis of viral infections in vivo are not known . Sy

Completed. Pausing for 10 secs...OK

Sending request for text = Genome-wide scans for positively selected genes (PSGs) in mammals have provided insight into the d

Completed. Pausing for 10 secs...OK

Sending request for text = Staphylococcus aureus is an opportunistic pathogen that c olonizes the skin and mucosal surfaces of m

Completed. Pausing for 10 secs...OK

Sending request for text = Trypanosoma cruzi parasite , the causative agent of Chaga s disease , infects about six million indiv

Completed. Pausing for 10 secs...OK

Sending request for text = Chikungunya virus (CHIKV) is an arthritogenic alphaviru s that acutely causes fever as well as seve

Completed. Pausing for 10 secs...OK

Sending request for text = Recent studies have applied dimensionality reduction meth ods to understand how the multi-dimensional

Completed. Pausing for 10 secs...OK

Sending request for text = Increasing evidence indicates that bacterial quorum sensing (QS) signals are important mediators o

Completed. Pausing for 10 secs...OK

Sending request for text = Mammalian genomes comprise many active and fossilized ret

roelements . The obligate requirement for r

Completed. Pausing for 10 secs...OK

Sending request for text = YbeY , a highly conserved protein , is an RNase in E . co li and plays key roles in both processing o

Completed. Pausing for 10 secs...OK

Sending request for text = Many developmental , physiological , and behavioral proce sses depend on the precise expression of ge

Completed. Pausing for 10 secs...OK

Sending request for text = The manner in which populations of inhibitory (INH) and excitatory (EXC) neocortical neurons col

Completed. Pausing for 10 secs...OK

Sending request for text = Synthetic biology aims at (re-) programming living cell s like computers to perform new functions f

Completed. Pausing for 10 secs...OK

Sending request for text = Cytosolic 5'-nucleotidase II (cN-II) regulates the intracellular nucleotide pools within the cell

Completed. Pausing for 10 secs...OK

Sending request for text = Since prion infectivity had never been reported in milk , dairy products originating from transmissi

Completed. Pausing for 10 secs...OK

Sending request for text = An outbreak of Ebola virus disease (EVD) in Liberia beg an in March 2014 and ended in January 2016

Completed. Pausing for 10 secs...OK

Sending request for text = Tyrosinase (EC 1 . 14 . 18 . 1) , a copper-containing m onooxygenase , catalyzes the conversion of

Completed. Pausing for 10 secs...OK

Sending request for text = The early steps of the production of the large ribosomal subunit are probably the least understood s

Completed. Pausing for 10 secs...OK

Sending request for text = Adaptive behavior in a changing world requires flexibly a dapting one's rate of learning to the rate

Completed. Pausing for 10 secs...OK

Sending request for text = Infectious diseases still represent a major challenge for humanity . In this context , their surveil

Completed. Pausing for 10 secs...OK

Sending request for text = A key feature of multicellular systems is the ability of cells to function collectively in response

Completed. Pausing for 10 secs...OK

Sending request for text = Respiratory syncytial virus (RSV) is the major cause of lower respiratory tract disease in infants

Completed. Pausing for 10 secs...OK

Sending request for text = During embryonic development , a number of genetic cues a ct to generate neuronal diversity . While i

Completed. Pausing for 10 secs...OK

Sending request for text = Abundance of substrate receptor subunits of Cullin-RING u biquitin ligases (CRLs) is tightly contro

Completed. Pausing for 10 secs...OK

Sending request for text = Kinesin-3 motors drive the transport of synaptic vesicles and other membrane-bound organelles in neu

Completed. Pausing for 10 secs...OK

Sending request for text = To investigate the regulation of seed metabolism and to e stimate the degree of metabolic natural var

Completed. Pausing for 10 secs...OK

Sending request for text = Vibrio cholerae is a bacterial pathogen that colonizes the chitinous exoskeleton of zooplankton as W

Sending request for text = Chronic T cell activation is a hallmark of pulmonary tube rculosis (PTB) . The mechanisms underpinn

Completed. Pausing for 10 secs...OK

Sending request for text = PrPC , a host protein which in prion-infected animals is converted to PrPSc , is linked to the cell

Completed. Pausing for 10 secs...OK

Sending request for text = The BMP signaling pathway has a conserved role in dorsal-ventral axis patterning during embryonic de

Completed. Pausing for 10 secs...OK

Sending request for text = In Tunisia , cases of zoonotic cutaneous leishmaniasis ca used by Leishmania major are increasing and

Completed. Pausing for 10 secs...OK

Sending request for text = Current global helminth control guidelines focus on regul ar deworming of targeted populations for mo

Completed. Pausing for 10 secs...OK

Sending request for text = Lectin-like bacteriotoxic proteins , identified in severa l plant-associated bacteria , are able to s

Completed. Pausing for 10 secs...OK

Sending request for text = Sporulation in Bacillus subtilis involves two cells that follow separate but coordinately regulated

Completed. Pausing for 10 secs...OK

Sending request for text = Although a highly heritable and disabling disease , bipol ar disorder's (BD) genetic variants have

Completed. Pausing for 10 secs...OK

Sending request for text = Understanding cell proliferation mechanisms has been a long-lasting goal of the scientific community

Completed. Pausing for 10 secs...OK

Sending request for text = Cystic echinococcosis (CE) can affect the heart and the vena cava but few cases are reported . A r

Completed. Pausing for 10 secs...OK

Sending request for text = Toll/interleukin-1 receptor (TIR) domains in Toll-like receptors are essential for initiating and

Completed. Pausing for 10 secs...OK

Sending request for text = Evolutionary innovations can be driven by spatial and tem poral changes in gene expression . Several

Completed. Pausing for 10 secs...OK

Sending request for text = Haemophilus ducreyi and Treponema pallidum subsp . perten ue are major causes of leg ulcers in childr

Completed. Pausing for 10 secs...OK

Sending request for text = Bioinformatics is recognized as part of the essential kno wledge base of numerous career paths in bio

Completed. Pausing for 10 secs...OK

Sending request for text = The infectious form of many parasitic nematodes , which a fflict over one billion people globally , i

Completed. Pausing for 10 secs...OK

Sending request for text = Humans are frequently exposed to bacterial genotoxins involved in digestive cancers , colibactin and

Completed. Pausing for 10 secs...OK

Sending request for text = Facial deformation as a sequela of leprosy is caused not only by a saddle nose but also by regressio

Completed. Pausing for 10 secs...OK

Sending request for text = Identifying behaviorally relevant sounds in the presence of background noise is one of the most impo

Completed. Pausing for 10 secs...OK

Sending request for text = Network analysis became a powerful tool giving new insigh ts to the understanding of cellular behavio

Sending request for text = Chagas disease is a neglected chronic condition caused by Trypanosoma cruzi , with high prevalence a

Completed. Pausing for 10 secs...OK

Sending request for text = Season is a major determinant of infectious disease rates , including arboviruses spread by mosquito

Completed. Pausing for 10 secs...OK

Sending request for text = For many emerging and re-emerging infectious diseases , d efinitive solutions via sterilizing adaptiv

Completed. Pausing for 10 secs...OK

Sending request for text = Effective population size (Ne) determines the strength of genetic drift and the frequency of co-in

Completed. Pausing for 10 secs...OK

Sending request for text = The majority of expression quantitative trait locus (eQT L) studies have been carried out in single

Completed. Pausing for 10 secs...OK

Sending request for text = When exposed to tumor necrosis factor (TNF) or TNF-related apoptosis-inducing ligand (TRAIL) , a

Completed. Pausing for 10 secs...OK

Sending request for text = During pregnancy , the placenta protects the fetus agains t the maternal immune response , as well as

Completed. Pausing for 10 secs...OK

Sending request for text = The spirochete bacterium Treponema pallidum ssp . pallidum is the etiological agent of syphilis , a

Completed. Pausing for 10 secs...OK

Sending request for text = Protein Kinase A (PKA) is the major receptor for the cy clic adenosine monophosphate (cAMP) secon

Completed. Pausing for 10 secs...OK

Sending request for text = The interferon (IFN) -stimulated gene 15 (ISG15) enco des one of the most abundant proteins induc

Completed. Pausing for 10 secs...OK

Sending request for text = $Viral\ protein\ U\ (Vpu\)$ of $HIV-1\ has\ two\ known\ functions$ in replication of the Virus: degradation of

Completed. Pausing for 10 secs...OK

Sending request for text = Development produces correctly patterned tissues under a wide range of conditions that alter the rat

Completed. Pausing for 10 secs...OK

Sending request for text = In highly polarised cells , like fungal hyphae , early en dosomes function in both endocytosis as wel

Completed. Pausing for 10 secs...OK

Sending request for text = Many bacterial mRNAs are regulated at the transcriptional or translational level by ligand-binding e

Completed. Pausing for 10 secs...OK

Sending request for text = Transcription initiation that involves the use of a 2- to ~4-nt oligoribonucleotide primer , "primer

Completed. Pausing for 10 secs...OK

Sending request for text = In mammals and in plants , parental genome dosage imbalan ce deregulates embryo growth and might be i

Completed. Pausing for 10 secs...OK

Sending request for text = Recordings of ongoing neural activity with EEG and MEG ex hibit oscillations of specific frequencies

Completed. Pausing for 10 secs...OK

Sending request for text = Using $\sim\!60$, 000 SNPs selected for minimal linkage disequi librium , we perform population structure a

Completed. Pausing for 10 secs...OK

Sending request for text = Histone chaperones CAF-1 and Asf1 function to deposit new

ly synthesized histones onto replicating DN

Completed. Pausing for 10 secs...OK

Sending request for text = Manually curating biomedical knowledge from publications is necessary to build a knowledge based ser

Completed. Pausing for 10 secs...OK

Sending request for text = Gain-of-function mutations in KCNJ2-encoded Kir2 . 1 chan nels underlie variant 3 (SQT3) of the sho

Completed. Pausing for 10 secs...OK

Sending request for text = Chagas disease , caused by the protozoan Trypanosoma cruz i (T . cruzi) , is a complex disease ende

Completed. Pausing for 10 secs...OK

Sending request for text = In infected mammalian cells , Leishmania parasites reside within specialized compartments called par

Completed. Pausing for 10 secs...OK

Sending request for text = Beyond its role in genomic organization and compaction , the nucleosome is believed to participate i

Completed. Pausing for 10 secs...OK

Sending request for text = Cell cycle progression , including genome duplication , i s orchestrated by cyclin-dependent kinases

Completed. Pausing for 10 secs...OK

Sending request for text = Meiosis produces haploid cells essential for sexual reproduction . In yeast , entry into meiosis act

Completed. Pausing for 10 secs...OK

Sending request for text = Fragile X-associated tremor/ataxia syndrome (FXTAS) is a neurodegenerative disorder seen in Fragil

Completed. Pausing for 10 secs...OK

Sending request for text = Virtually all cells living in multicellular structures su ch as tissues and organs are encased in an

Completed. Pausing for 10 secs...OK

Sending request for text = Pancreatic ductal adenocarcinoma (PDAC) has the worst p rognosis among solid malignancies and impro

Completed. Pausing for 10 secs...OK

Sending request for text = Genetic factors play an important role in the etiology of both sporadic and familial breast cancer .

Completed. Pausing for 10 secs...OK

Sending request for text = Cryptococcal meningitis is a major cause of mortality thr oughout the developing world , yet little i

Completed. Pausing for 10 secs...OK

Sending request for text = The way in which signal transduction pathways evolve remains a mystery , primarily because we have f

Completed. Pausing for 10 secs...OK

Sending request for text = The genomic GC-content of bacteria varies dramatically , from less than 20% to more than 70% . This

Completed. Pausing for 10 secs...OK

Sending request for text = Implementation of control of parasitic diseases requires accurate , contemporary maps that provide ${\rm i}$

Completed. Pausing for 10 secs...OK

Sending request for text = Cellular immunity to Mycobacterium tuberculosis (Mtb) requires a coordinated response between the

Completed. Pausing for 10 secs...OK

Sending request for text = In many cases protein assemblies are stabilized by covale nt bonds , one example of which is the form

Completed. Pausing for 10 secs...OK

Sending request for text = Opisthorchis viverrini is a food-borne trematode species that might give rise to biliary diseases an Completed. Pausing for 10 secs...OK

Sending request for text = Dar es Salaam has an extensive drain network , mostly wit h inadequate water flow , blocked by waste

Completed. Pausing for 10 secs...OK

Sending request for text = Dengue is the most common mosquito-borne viral disease in humans . Changes of lipid-related metaboli

Completed. Pausing for 10 secs...OK

Sending request for text = Functional rearrangements in biomolecular assemblies result from diffusion across an underlying ener

Completed. Pausing for 10 secs...OK

Sending request for text = The genetic landscape of medullary thyroid cancer (MTC) is not yet fully understood , although som

Completed. Pausing for 10 secs...OK

Sending request for text = Asymptomatic leishmaniasis may drive the epidemic and an important challenge to reach the goal of jo

Completed. Pausing for 10 secs...OK

Sending request for text = Aneuploidy and gross chromosomal rearrangements (GCRs) can lead to genetic diseases and the develo

Completed. Pausing for 10 secs...OK

Sending request for text = Similarly to protein folding , the association of two proteins is driven by a free energy funnel , d

Completed. Pausing for 10 secs...OK

Completed

In [16]: df.head()

Out[16]:		lay_summary	article	headings	keywords	i
	0	Messenger RNAs carry the instructions necessar	Gene expression varies widely between individu	[Abstract, Introduction, Results, Discussion, 	[genetics, biology, genomics, genetics and gen	journal.pgen.100288
	1	Annually , more than two million people are in	The live attenuated simian immunodeficiency vi	[Abstract, Introduction, Materials and Methods	0	journal.ppat.100463
	2	The opportunistic pathogen Candida albicans is	Mucosal infections with Candida albicans belon	[Abstract, Introduction, Results, Discussion, 	[blood cells, cell motility, medicine and heal	journal.ppat.100588
	3	Lymphatic filariasis (LF) , commonly known a	Between 2000–2007 , the Global Programme to El	[Abstract, Introduction, Methods, Results, Dis	[infectious diseases/neglected tropical diseas	journal.pntd.000070
	4	Parkinson's disease (PD) is a neurodegenerat	Homozygous mutations in the glucocerebrosidase	[Abstract, Introduction, Results, Discussion,	0	journal.pgen.100506

```
In [44]: # check how many rows have blank result (some errors)
         empty_df = df.query("groq_mistral_summary.str.strip() == ''")
         print(len(empty_df))
        0
In [46]: # attempt to retry for blank rows (due to some errors)
         retry = True
         if retry:
             print("Retrying for empty results...")
             for i in range(len(df)):
                 item = df.iloc[i]
                 if item["groq_mistral_summary"] == "":
                     print("Item =", i)
                     text = item["article"]
                     df.at[i, "groq_mistral_summary"] = send_sumarize_request(text[:text_cap
             print("Completed")
        Retrying for empty results...
        Completed
In [42]: output_path = "./data/output/full_dev_set/"
         output_filename = "plos_groq_mistral_summary.csv"
         print("Writing to file ", output_filename)
         df.to_csv(output_path+output_filename,
                   index = False
         print("Completed")
        Writing to file plos_groq_mistral_summary.csv
        Completed
In [43]: output_filename = "plos_groq_mistral_summary.json"
         print("Writing to file ", output_filename)
         df.to_json(output_path+output_filename,
                    orient="records",
         print("Completed")
        Writing to file plos_groq_mistral_summary.json
        Completed
In [ ]:
```