動植物研究前沿分析 - 2012Q2

本計畫將利用 Thomson Reuters 出版 ESI 資料庫所提供之「研究前沿」(Research Front)功能,定期提供動植物領域前十名之熱門研究前沿主題。主要期望科研人員能了解各研究前沿之核心文獻,有助於獲知目前全球動植物領域的研究成果有哪些重要發現,更能反映出當前科學家重點關注的方向。另外也會透過資訊加值分析,提供各前沿主題之研發跨領域分布,以作為科研人員進行研發策略規劃之團隊組成之參考。

TOP10 動植物領域研究前沿

前沿排名	前沿	摘要說明
前沿 1	SWINE-ORIGIN 2009 A(H1N1) INFLUENZA VIRUSES	人畜共通的傳染病,如禽流感及豬流感
	CIRCULATING; 2009 SWINE-ORIGIN H1N1	的引進可能會在人口密集處廣為流行,
	INFLUENZA; 2009 INFLUENZA A(H1N1) ACUTE	這種人畜共通的疾病傳播能力通常被認
	RESPIRATORY DISTRESS SYNDROME; PANDEMIC	為與病毒的遺傳物質突變有關。評估豬
	2009 INFLUENZA A(H1N1) INFECTION; NEW	流感及禽流感對人類的跨物種轉移潛在
	SWINE-ORIGIN H1N1 INFLUENZA VIRUSES IN	能力便成為科學家研究重點之一。
	PLANT & ANIMAL SCIENCE	
前沿 2	PSEUDOMONAS SYRINGAE EFFECTOR AVRPTO;	植物透過模式辨識受體
	INNATE IMMUNITY; PLANT	(Pattern-Recognition Receptor, PRR)來辨
	PATTERN-RECOGNITION RECEPTOR CONFERS	認與病原體有關的分子模式
	BROAD-SPECTRUM BACTERIAL RESISTANCE;	(pathogen-associated molecular
	PLANT INNATE IMMUNE RECEPTOR; BACTERIAL	patterns,PAMPs),藉此感知微生物的
	VIRULENCE PROTEIN SUPPRESSES HOST INNATE	入侵。這些受體通常位於細胞表面。病
	IMMUNITY IN PLANT & ANIMAL SCIENCE	原體成功入侵植物體的關鍵在於降低
		PAMPs的感知能力及阻斷訊號分子的傳
		遞路徑。這些可干擾 PRR 路徑的分子便
		成為科學家們熱門的研究課題。
前沿 3	ASYMMETRIC COEVOLUTIONARY NETWORKS;	在過去十幾年中,生物多樣性及生態系
	BIODIVERSITY MAINTENANCE; GRASSLAND	統功能相關研究層出不窮。在這部分的
	COMMUNITIES REQUIRES HIGHER BIODIVERSITY;	研究包括(1)全球環境劇變所導致的生
	FUNCTIONAL BIODIVERSITY RESEARCH;	物多樣性喪失(2)生物多樣性減少導致
	BIODIVERSITY EFFECTS; BIODIVERSITY IMPROVES	物種的組成改變,這些改變可能會對與
	WATER QUALITY IN PLANT & ANIMAL SCIENCE	人類活動息息相關之重要生態系統造成
		衝擊;如食物生產、病蟲害防治等。因
		此,如何取得農業生產及維護生態之間
		的平衡仍是全球急需解決的問題。
前沿 4	ZINC-FINGER NUCLEASES; ENGINEERED	鋅指核酸酶是一類通過基因工程改造的

FINGER NUCLEASES; DESIGNED ZINC-FINGER NUCLEASES; CUSTOM-DESIGNED ZINC-FINGER NUCLEASES; CUSTOM-DESIGNED ZINC FINGER NUCLEASES; CUSTOM-DESIGNED ZINC FINGER NUCLEASES IN PLANT & ANIMAL SCIENCE		ZINC-FINGER NUCLEASES; ENGINEERED ZINC	基因組編輯核酸酶,它們能夠識別並結
NUCLEASES IN PLANT & ANIMAL SCIENCE		FINGER NUCLEASES; DESIGNED ZINC-FINGER	合指定的位點,高效且精確地切斷靶
解: 包括基因修復、基周刪除等工作,並定位和單峰改變生物基因組。此項研究為植物基因體功能研究及植物病害等方面創造了新的可能性。		NUCLEASES; CUSTOM-DESIGNED ZINC FINGER	DNA。並利用細胞自然的 DNA 修復過
並定位和準確改變生物基因組。此項研究為植物基因體功能研究及植物病害等 方面創造了新的可能性。 TYPE 2C PROTEIN PHOSPHATASES; ABSCISIC ACID-ACTIVATED PROTEIN KINASES; ABSCISIC ACID INHIBITS TYPE 2C PROTEIN PHOSPHATASES; ABSCISIC ACID SIGNALING IN-VIVO; ABSCISIC ACID RECEPTOR PYR1; ABSCISIC ACID RECEPTOR PYR1; ABSCISIC ACID RECEPTOR PYR1; ABSCISIC ACID RECEPTOR PYR1; ABSCISIC ACID RECEPTOR PYL5 IN PLANT & ANIMAL SCIENCE 前沿 6 GREAT NEGLECTED TROPICAL DISEASES; SOIL-TRANSMITTED HELMINTH INFECTIONS; HUMAN HELMINTH INFECTIONS; HUMAN HELMINTH INFECTIONS; COPROANTIGEN REDUCTION TEST (CRT) PROTOCOL; NATIONWIDE SCHOOL-BASED HELMINTH CONTROL IN PLANT & ANIMAL SCIENCE 前沿 7 ARTHROPOD PHYLOGENY, SEA ANEMONE GENOME REVEALS ANCESTRAL EUMETAZOAN GENE REPEATORE; ARTHROPOD PHYLOGENY REVISITED; ARTHROPOD PHYLOGENY REVISITED; ARTHROPOD PHYLOGENY REVISITED; ARTHROPOD PHYLOGENY REVISITED; ARTHROPOD RELATIONSHIPS REVEALED; PROTEIN-CODING NUCLEAR GENE SEQUENCE IN PLANT & ANIMAL SCIENCE 前沿 8 ARCTIC OCEAN SEA ICE COVER; EXTERME ARCTIC SEA ICE EMELT; SEA ICE FREE SUMMER ARCTIC SEA ICE MELT; SEA ICE FREE SUMEMER ARCTIC SEA ICE MELT; SEA ICE FREE SUMEMER A		NUCLEASES IN PLANT & ANIMAL SCIENCE	程來修復靶基因的斷裂,進行基因組編
第25			輯;包括基因修復、基因刪除等工作,
加治 5 TYPE 2C PROTEIN PHOSPHATASES; ABSCISIC ACID INHIBITS TYPE 2C PROTEIN KINASES; ABSCISIC ACID INHIBITS TYPE 2C PROTEIN PHOSPHATASES; ABSCISIC ACID SIGNALING IN-VIVO; ABSCISIC ACID RECEPTOR PYR1; ABSCISIC ACID RECEPTOR PYL5 IN PLANT & ANIMAL SCIENCE 前沿 6 GREAT NEGLECTED TROPICAL DISEASES; SOIL-TRANSMITTED HELMINTH INFECTIONS; HUMAN HELMINTH INFECTIONS; HUMAN HELMINTH INFECTIONS; COPROANTIGEN REDUCTION TEST (CRT) PROTOCOL; NATIONWIDE SCHOOL-BASED HELMINTH CONTROL IN PLANT & ANIMAL SCIENCE 前沿 7 ARTHROPOD PHYLOGENY; SEA ANEMONE GENOME REVEALES ANCESTRAL EUMETAZOAN GENE REPERTOIRE; ARTHROPOD PHYLOGENY REVISITED; ARTHROPOD PHYLOGENY REVISITED; ARTHROPOD PHYLOGENY REVISITED; ARTHROPOD RELATIONSHIPS IN MEXAMEN BEQUENCE IN PLANT & ANIMAL SCIENCE 前沿 8 ARCTIC OCEAN SEA ICE COVER; 2007 ARCTIC SEA ICE EXTENT MINIMUM; ARCTIC SEA ICE COVER; EXTREME ARCTIC SEA ICE MELT; SEA ICE FREE SUMMER ARCTI			並定位和準確改變生物基因組。此項研
前沿 5 TYPE 2C PROTEIN PHOSPHATASES; ABSCISIC ACID ACID-ACTIVATED PROTEIN KINASES; ABSCISIC ACID INHIBITS TYPE 2C PROTEIN PHOSPHATASES; ABSCISIC ACID INHIBITS TYPE 2C PROTEIN PHOSPHATASES; ABSCISIC ACID SIGNALING IN-VIVO; ABSCISIC ACID RECEPTOR PYR1; ABSCISIC ACID RECEPTOR PYR1; ABSCISIC ACID RECEPTOR PYL5 IN PLANT & ANIMAL SCIENCE			究為植物基因體功能研究及植物病害等
ACID-ACTIVATED PROTEIN KINASES; ABSCISIC ACID INHIBITS TYPE 2C PROTEIN PHOSPHATASES; ABSCISIC ACID SIGNALING IN-VIVO; ABSCISIC ACID RECEPTOR PYR1; ABSCISIC ACID RECEPTOR PYLS IN PLANT & ANIMAL SCIENCE 静植物在對抗乾旱逆境時重要的質關 家, 因此研究 PP2C 與離層離就漂纏路 便之間的關係,將有助於提升作物之抗 平性。 1			方面創造了新的可能性。
ACID INHIBITS TYPE 2C PROTEIN PHOSPHATASES; ABSCISIC ACID SIGNALING IN-VIVO; ABSCISIC ACID Signaling in-VivO; ABSCISIC ACID Signaling in-VivO; ABSCISIC ACID Signaling in-VivO; ABSCISIC ACID Signaling in Plant & Animal Science	前沿 5	TYPE 2C PROTEIN PHOSPHATASES; ABSCISIC	2C 型蛋白質水解磷酸酶 (Type 2C
ABSCISIC ACID SIGNALING IN-VIVO; ABSCISIC ACID RECEPTOR PYR1; ABSCISIC ACID RECEPTOR PYL5 IN PLANT & ANIMAL SCIENCE		ACID-ACTIVATED PROTEIN KINASES; ABSCISIC	protein phosphatases,PP2Cs)是參與離
RECEPTOR PYR1; ABSCISIC ACID RECEPTOR PYL5 IN PLANT & ANIMAL SCIENCE 经之間的關係,將有助於提升作物之抗旱性。 前沿 6 GREAT NEGLECTED TROPICAL DISEASES; OULTRANSMITTED HELMINTH INFECTIONS; HUMAN HELMINTH INFECTIONS; COPROANTIGEN REDUCTION TEST (CRT) PROTOCOL; NATIONWIDE SCHOOL-BASED HELMINTH CONTROL IN PLANT & MOMENTAL ANIMAL SCIENCE ANIMAL SCIENCE ARTHROPOD PHYLOGENY; SEA ANEMONE GENOME REVEALS ANCESTRAL EUMETAZOAN GENE REPERTOIRE; ARTHROPOD PHYLOGENY REVISITED; ARTHROPOD RELATIONSHIPS REVEALED; PROTEIN-CODING NUCLEAR GENE SEQUENCE IN PLANT & ANIMAL SCIENCE 地行此方面的研究,可使人類了解自然不完成,可使人類了解自然来来多樣性起源。 化水洋 (Arctic Ocean) 位於北半球座落於北極國以內的海洋,是世界五大洋最巨工作工匠 (Arctic Ocean) 位於北半球座落於北極國以內的海洋,近半來,科學家致力於研究全球暖化對北冰洋氣候和環境的影響,主要的目的是透過對北冰洋氣候和環境的新達,主要的目的是透過對北冰洋洋洋流、含鹽度和溫度等數據的搜整和分析,建立一個能夠準確預測北冰洋氣候和環境變化的模型。 MODEL GRASS BRACHYPODIUM DISTACHYON; 二穗短柄草 (Brachypodium distachyon)		ACID INHIBITS TYPE 2C PROTEIN PHOSPHATASES;	層酸(ABA)訊號傳遞的重要分子,離層酸
前沿 6 GREAT NEGLECTED TROPICAL DISEASES;		ABSCISIC ACID SIGNALING IN-VIVO; ABSCISIC ACID	為植物在對抗乾旱逆境時重要的賀爾
開沿 6 GREAT NEGLECTED TROPICAL DISEASES; 一些人畜共通的等生蟲疾病,如螭蟲、		RECEPTOR PYR1; ABSCISIC ACID RECEPTOR PYL5	蒙,因此研究 PP2C 與離層酸訊號傳遞路
前沿 6 GREAT NEGLECTED TROPICAL DISEASES; SOIL-TRANSMITTED HELMINTH INFECTIONS; HUMAN HELMINTH INFECTIONS; COPROANTIGEN 如西洋菜,或因喝了未煮沸的含囊状的 REDUCTION TEST (CRT) PROTOCOL; NATIONWIDE SOHOOL-BASED HELMINTH CONTROL IN PLANT & MY 受性好且治療期間短,便成為治療此 類疾病的新興藥物。TCBZ 的使用研究可 為此類疾病提供一個有效的治療及控制 方法。 前沿 7 ARTHROPOD PHYLOGENY; SEA ANEMONE GENOME REVEALS ANCESTRAL EUMETAZOAN GENE REPERTOIRE; ARTHROPOD PHYLOGENY REVISITED; ARTHROPOD RELATIONSHIPS 同的關係有極大的助益,透過形態學的 REVEALED; PROTEIN-CODING NUCLEAR GENE SEQUENCE IN PLANT & ANIMAL SCIENCE 地行此方面的研究,可使人類了解自然 PLANT & ANIMAL SCIENCE 地行此方面的研究,可使人類了解自然 和地球生物多樣性起源。 前沿 8 ARCTIC OCEAN SEA ICE COVER; 2007 ARCTIC SEA ICE EXTENT MINIMUM; ARCTIC SEA ICE COVER; EXTREME ARCTIC SEA ICE MELT; SEA ICE FREE SUMMER ARCTIC SEA ICE MELT; SEA ICE FREE SUM IN TUMPER		IN PLANT & ANIMAL SCIENCE	徑之間的關係,將有助於提升作物之抗
SOIL-TRANSMITTED HELMINTH INFECTIONS; HUMAN HELMINTH INFECTIONS; COPROANTIGEN 如西洋菜,或因喝了未煮沸的含囊状幼 最的水而感染。三氟苯達唑(TCBZ)因 SCHOOL-BASED HELMINTH CONTROL IN PLANT & 和IMAL SCIENCE 前沿 ARTHROPOD PHYLOGENY; SEA ANEMONE GENOME REVEALS ANCESTRAL EUMETAZOAN GENE REPERTOIRE; ARTHROPOD PHYLOGENY REVISITED; ARTHROPOD RELATIONSHIPS 同的關係有極大的助益,透過形態學的 REVEALED; PROTEIN-CODING NUCLEAR GENE SEQUENCE IN PLANT & ANIMAL SCIENCE 前沿 ARCTIC OCEAN SEA ICE COVER; 2007 ARCTIC SEA ICE EXTENT MINIMUM; ARCTIC SEA ICE COVER; EXTREME ARCTIC SEA ICE MELT; SEA ICE FREE SUMMER ARCTIC IN PLANT & ANIMAL SCIENCE 前沿 MODEL GRASS BRACHYPODIUM DISTACHYON; 前沿 MODEL GRASS BRACHYPODIUM DISTACHYON; 「用用吸血蟲等。人類常因生吃水生植物 如西洋菜,或因喝了未煮沸的含囊状幼 最終的新導酶。三氟苯達唑(TCBZ)因 耐受性好且治療期間短,便成為治療此 類疾病的新興藥物。TCBZ)因 耐受性好且治療期間短,便成為治療因性不足器的、一種短柄洋、可使人類了解自然的一种原理等的。 如此球生物多樣性起源。 北冰洋(Arctic Ocean)位於北半球座落於北極園以內的海洋,是世界五大洋最小、最後的海洋。近年來,科學家致力於研究全球暖化對北冰洋氣候的影響,主要的目的是透過對北冰洋洋流、含鹽度和溫度等數據的搜整和分析,建立一個能夠準確預測北冰洋氣候和環境的			旱性。
HUMAN HELMINTH INFECTIONS; COPROANTIGEN REDUCTION TEST (CRT) PROTOCOL; NATIONWIDE ASON ASON ASON ASON ASON ASON ASON ASON	前沿 6	GREAT NEGLECTED TROPICAL DISEASES;	一些人畜共通的寄生蟲疾病,如蠕蟲、
REDUCTION TEST (CRT) PROTOCOL; NATIONWIDE SCHOOL-BASED HELMINTH CONTROL IN PLANT & 耐受性好且治療期間短,便成為治療此 新疾病的新興藥物。TCBZ 的使用研究可 為此類疾病提供一個有效的治療及控制 方法。 ARTHROPOD PHYLOGENY, SEA ANEMONE GENOME REVEALS ANCESTRAL EUMETAZOAN GENE REPERTOIRE; ARTHROPOD PHYLOGENY REVISITED; ARTHROPOD RELATIONSHIPS REVEALED; PROTEIN-CODING NUCLEAR GENE SEQUENCE IN PLANT & ANIMAL SCIENCE		SOIL-TRANSMITTED HELMINTH INFECTIONS;	肝片吸血蟲等。人類常因生吃水生植物
SCHOOL-BASED HELMINTH CONTROL IN PLANT & 耐受性好且治療期間短,便成為治療此類疾病的新興藥物。TCBZ 的使用研究可為此類疾病提供一個有效的治療及控制方法。 ARTHROPOD PHYLOGENY; SEA ANEMONE GENOME REVEALS ANCESTRAL EUMETAZOAN GENE REPERTOIRE; ARTHROPOD PHYLOGENY REVISITED; ARTHROPOD RELATIONSHIPS REVEALED; PROTEIN-CODING NUCLEAR GENE SEQUENCE IN PLANT & ANIMAL SCIENCE 地行此方面的研究,可使人類了解自然和地球生物多樣性起源。 前沿 ARCTIC OCEAN SEA ICE COVER; 2007 ARCTIC SEA ICE EXTENT MINIMUM; ARCTIC SEA ICE COVER; EXTREME ARCTIC SEA ICE MELT; SEA ICE FREE SUMMER ARCTIC IN PLANT & ANIMAL SCIENCE 外研究全球暖化對北冰洋氣候和環境的影響,主要的目的是透過對北冰洋洋流、含鹽度和溫度等數據的搜整和分析,建立一個能夠準確預測北冰洋氣候和環境變化的模型。 前沿 9 MODEL GRASS BRACHYPODIUM DISTACHYON; 二穗短柄草 (Brachypodium distachyon)		HUMAN HELMINTH INFECTIONS; COPROANTIGEN	如西洋菜,或因喝了未煮沸的含囊狀幼
ANIMAL SCIENCE 類疾病的新興藥物。TCBZ 的使用研究可為此類疾病提供一個有效的治療及控制方法。 IT ARTHROPOD PHYLOGENY; SEA ANEMONE 自從生物學問世以來,人類一直致力於 GENOME REVEALS ANCESTRAL EUMETAZOAN 了解節肢動物各主要網之間的關係。節 GENE REPERTOIRE; ARTHROPOD PHYLOGENY 股動物的演化對研究甲殼類動物物種之 REVISITED; ARTHROPOD RELATIONSHIPS 間的關係有極大的助益,透過形態學的 REVEALED; PROTEIN-CODING NUCLEAR GENE SEQUENCE IN PLANT & ANIMAL SCIENCE		REDUCTION TEST (CRT) PROTOCOL; NATIONWIDE	蟲的水而感染。三氯苯達唑(TCBZ)因
期沿 7 ARTHROPOD PHYLOGENY; SEA ANEMONE		SCHOOL-BASED HELMINTH CONTROL IN PLANT &	耐受性好且治療期間短,便成為治療此
方法。 前沿 7 ARTHROPOD PHYLOGENY; SEA ANEMONE 自從生物學問世以來,人類一直致力於 GENOME REVEALS ANCESTRAL EUMETAZOAN 了解節肢動物各主要網之間的關係。節 GENE REPERTOIRE; ARTHROPOD PHYLOGENY REVISITED; ARTHROPOD RELATIONSHIPS 間的關係有極大的助益,透過形態學的 REVEALED; PROTEIN-CODING NUCLEAR GENE 第EQUENCE IN PLANT & ANIMAL SCIENCE 進行此方面的研究,可使人類了解自然 和地球生物多樣性起源。 前沿 8 ARCTIC OCEAN SEA ICE COVER; 2007 ARCTIC SEA ICE EXTENT MINIMUM; ARCTIC SEA ICE COVER; 是XTREME ARCTIC SEA ICE MELT; SEA ICE FREE SUMMER ARCTIC IN PLANT & ANIMAL SCIENCE 外研究全球暖化對北冰洋氣候和環境的 影響,主要的目的是透過對北冰洋洋流、含鹽度和溫度等數據的搜整和分析,建立一個能夠準確預測北冰洋氣候和環境變化的模型。 前沿 9 MODEL GRASS BRACHYPODIUM DISTACHYON; 二穗短柄草(Brachypodium distachyon)		ANIMAL SCIENCE	類疾病的新興藥物。TCBZ 的使用研究可
前沿 7ARTHROPOD PHYLOGENY; SEA ANEMONE GENOME REVEALS ANCESTRAL EUMETAZOAN GENOME REVEALS ANCESTRAL EUMETAZOAN GENE REPERTOIRE; ARTHROPOD PHYLOGENY REVISITED; ARTHROPOD RELATIONSHIPS REVEALED; PROTEIN-CODING NUCLEAR GENE SEQUENCE IN PLANT & ANIMAL SCIENCE肢動物的演化對研究甲殼類動物物種之 觀點;如化石及分子生物學相關數據來 進行此方面的研究,可使人類了解自然 和地球生物多樣性起源。前沿 8ARCTIC OCEAN SEA ICE COVER; 2007 ARCTIC SEA 			為此類疾病提供一個有效的治療及控制
GENOME REVEALS ANCESTRAL EUMETAZOAN			方法。
展EVISITED; ARTHROPOD PHYLOGENY REVISITED; ARTHROPOD RELATIONSHIPS 間的關係有極大的助益,透過形態學的 REVEALED; PROTEIN-CODING NUCLEAR GENE	前沿7	ARTHROPOD PHYLOGENY; SEA ANEMONE	自從生物學問世以來,人類一直致力於
REVISITED; ARTHROPOD RELATIONSHIPS REVEALED; PROTEIN-CODING NUCLEAR GENE SEQUENCE IN PLANT & ANIMAL SCIENCE 前沿 8 ARCTIC OCEAN SEA ICE COVER; 2007 ARCTIC SEA ICE EXTENT MINIMUM; ARCTIC SEA ICE COVER; EXTREME ARCTIC SEA ICE MELT; SEA ICE FREE SUMMER ARCTIC IN PLANT & ANIMAL SCIENCE 前沿 9 MODEL GRASS BRACHYPODIUM DISTACHYON; li 的關係有極大的助益,透過形態學的觀點;如化石及分子生物學相關數據來 進行此方面的研究,可使人類了解自然 和地球生物多樣性起源。 北冰洋(Arctic Ocean)位於北半球座落於北極圈以內的海洋,是世界五大洋最 於北極圈以內的海洋,是世界五大洋最 小、最淺的海洋。近年來,科學家致力 於研究全球暖化對北冰洋氣候和環境的影響,主要的目的是透過對北冰洋洋 流、含鹽度和溫度等數據的搜整和分析,建立一個能夠準確預測北冰洋氣候 和環境變化的模型。		GENOME REVEALS ANCESTRAL EUMETAZOAN	了解節肢動物各主要綱之間的關係。節
REVEALED; PROTEIN-CODING NUCLEAR GENE SEQUENCE IN PLANT & ANIMAL SCIENCE 進行此方面的研究,可使人類了解自然和地球生物多樣性起源。 ARCTIC OCEAN SEA ICE COVER; 2007 ARCTIC SEA ICE EXTENT MINIMUM; ARCTIC SEA ICE COVER;		GENE REPERTOIRE; ARTHROPOD PHYLOGENY	肢動物的演化對研究甲殼類動物物種之
SEQUENCE IN PLANT & ANIMAL SCIENCE		REVISITED; ARTHROPOD RELATIONSHIPS	間的關係有極大的助益,透過形態學的
和地球生物多樣性起源。 ARCTIC OCEAN SEA ICE COVER; 2007 ARCTIC SEA		REVEALED; PROTEIN-CODING NUCLEAR GENE	觀點;如化石及分子生物學相關數據來
前沿 8 ARCTIC OCEAN SEA ICE COVER; 2007 ARCTIC SEA		SEQUENCE IN PLANT & ANIMAL SCIENCE	進行此方面的研究,可使人類了解自然
ICE EXTENT MINIMUM; ARCTIC SEA ICE COVER; 於北極圈以內的海洋,是世界五大洋最EXTREME ARCTIC SEA ICE MELT; SEA ICE FREE 小、最淺的海洋。近年來,科學家致力SUMMER ARCTIC IN PLANT & ANIMAL SCIENCE 於研究全球暖化對北冰洋氣候和環境的影響,主要的目的是透過對北冰洋洋流、含鹽度和溫度等數據的搜整和分析,建立一個能夠準確預測北冰洋氣候和環境變化的模型。 前沿 9 MODEL GRASS BRACHYPODIUM DISTACHYON; 二穗短柄草(Brachypodium distachyon)			和地球生物多樣性起源。
EXTREME ARCTIC SEA ICE MELT; SEA ICE FREE 小、最淺的海洋。近年來,科學家致力 SUMMER ARCTIC IN PLANT & ANIMAL SCIENCE 於研究全球暖化對北冰洋氣候和環境的 影響,主要的目的是透過對北冰洋洋 流、含鹽度和溫度等數據的搜整和分析,建立一個能夠準確預測北冰洋氣候 和環境變化的模型。 前沿 9 MODEL GRASS BRACHYPODIUM DISTACHYON; 二穗短柄草(Brachypodium distachyon)	前沿 8	ARCTIC OCEAN SEA ICE COVER; 2007 ARCTIC SEA	北冰洋(Arctic Ocean)位於北半球座落
SUMMER ARCTIC IN PLANT & ANIMAL SCIENCE		ICE EXTENT MINIMUM; ARCTIC SEA ICE COVER;	於北極圈以內的海洋,是世界五大洋最
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析,建立一個能夠準確預測北冰洋氣候和環境變化的模型。 前沿 9 MODEL GRASS BRACHYPODIUM DISTACHYON; 二穗短柄草(Brachypodium distachyon)			影響,主要的目的是透過對北冰洋洋
和環境變化的模型。 前沿 9 MODEL GRASS BRACHYPODIUM DISTACHYON; 二穗短柄草(Brachypodium distachyon)			流、含鹽度和溫度等數據的搜整和分
前沿 9 MODEL GRASS BRACHYPODIUM DISTACHYON; 二穗短柄草(Brachypodium distachyon)			析,建立一個能夠準確預測北冰洋氣候
			和環境變化的模型。
GRASS GENOME EVOLUTION; BARLEY GENOME; 原生於地中海和中東,是一種當地野生	前沿 9	MODEL GRASS BRACHYPODIUM DISTACHYON;	二穗短柄草(Brachypodium distachyon)
		GRASS GENOME EVOLUTION; BARLEY GENOME;	原生於地中海和中東,是一種當地野生

GENOME SEQUENCING; GRAPEVINE GENOME
SEQUENCE SUGGESTS ANCESTRAL
HEXAPLOIDIZATION IN PLANT & ANIMAL SCIENCE

草本植物,其基因組已完成定序。使用 短柄草、水稻和高粱基因組進行的比較 基因組研究,不僅為草本植物之基因組 演化提供了線索,且有助於新能源作物 和糧食作物模型的建立。

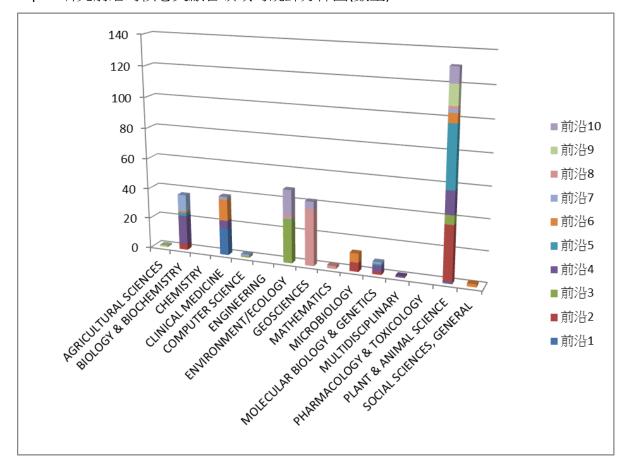
前沿 10 CO2-DRIVEN OCEAN ACIDIFICATION; LARVAL SURVIVAL; NEAR-FUTURE OCEAN ACIDIFICATION; OCEAN ACIDIFICATION CAUSES BLEACHING; OCEAN ACIDIFICATION ALTERS SKELETOGENESIS; IMMINENT OCEAN ACIDIFICATION IN PLANT & ANIMAL SCIENCE

海洋酸化是由於燃燒化石燃料,排放大量的二氧化碳到大氣中,這些二氧化碳 又被海洋吸收所致。海洋酸化使海水化學性質改變,並對海洋生態系造成了極大的威脅,如熱帶珊瑚失去造礁能力等。因此,藉由觀察多種環境因子及大氣組成改變,推估對環境所造成的非預期影響是很重要的。

Top10 研究前沿的核心文獻各領域的統計(數量)

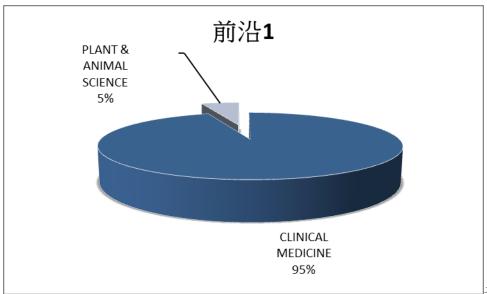
	AGRICULTURAL SCIENCES	BIOLOGY & BIOCHEMISTRY	CHEMISTRY	CLINICAL MEDICINE	COMPUTER SCIENCE	ENGINEERING	ENVIRONMENT/ECOLOGY	GEOSCIENCES	матнематісѕ	MICROBIOLOGY	MOLECULAR BIOLOGY & GENETICS	MULTIDISCIPLINARY	PHARMACOLOGY & TOXICOLOGY	PLANT & ANIMAL SCIENCE	SOCIAL SCIENCES, GENERAL
前沿1				18										1	
前沿 2		4								6	2			36	
前沿 3					1		29							6	
前沿 4		19		5							4	1		15	
前沿 5		2									1			40	
前沿 6		1		14						6				6	2
前沿7		11		1	1		1				1			2	
前沿 8							2	37	2					2	
前沿9	1													13	
前沿 10				1			16	5						10	

Top10 研究前沿的核心文獻各領域的統計分佈圖(數量)



動植物前沿一

SWINE-ORIGIN 2009 A(H1N1) INFLUENZA VIRUSES CIRCULATING; 2009 SWINE-ORIGIN H1N1 INFLUENZA; 2009 INFLUENZA A(H1N1) ACUTE RESPIRATORY DISTRESS SYNDROME; PANDEMIC 2009 INFLUENZA A(H1N1) INFECTION; NEW SWINE-ORIGIN H1N1 INFLUENZA VIRUSES IN PLANT & ANIMAL SCIENCE



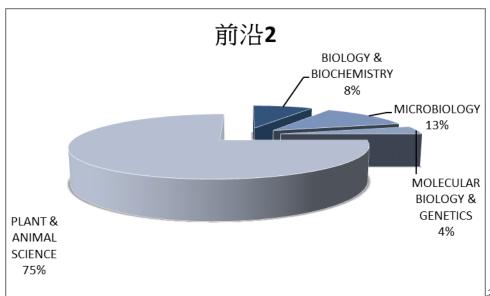
各分類領域比例圖

核心文獻標題	Citation	分類領域
EMERGENCE OF A NOVEL SWINE-ORIGIN INFLUENZA A (H1N1) VIRUS	1047	CLINICAL MEDICINE
IN HUMANS NOVEL SWINE-ORIGIN INFLUENZA A (H1N1) VIRUS		
INVESTIGATION TEAM		
ANTIGENIC AND GENETIC CHARACTERISTICS OF SWINE-ORIGIN 2009	615	CLINICAL MEDICINE
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HOSPITALIZED PATIENTS WITH 2009 H1N1 INFLUENZA IN THE UNITED	540	CLINICAL MEDICINE
STATES, APRIL-JUNE 2009.		
PNEUMONIA AND RESPIRATORY FAILURE FROM SWINE-ORIGIN	484	CLINICAL MEDICINE
INFLUENZA A (H1N1) IN MEXICO		
ORIGINS AND EVOLUTIONARY GENOMICS OF THE 2009	409	CLINICAL MEDICINE
SWINE-ORIGIN H1N1 INFLUENZA A EPIDEMIC		
CRITICALLY ILL PATIENTS WITH 2009 INFLUENZA A(H1N1) INFECTION	399	CLINICAL MEDICINE
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AND NEW ZEALAND.		
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PANDEMIC 2009 INFLUENZA A(H1N1) INFECTION IN CALIFORNIA		

CRITICALLY ILL PATIENTS WITH 2009 INFLUENZA A(H1N1) IN MEXICO	286	CLINICAL MEDICINE
SEVERE RESPIRATORY DISEASE CONCURRENT WITH THE	246	CLINICAL MEDICINE
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EXTRACORPOREAL MEMBRANE OXYGENATION FOR 2009 INFLUENZA	231	CLINICAL MEDICINE
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AVIAN AND SWINE INFLUENZA VIRUSES: OUR CURRENT	71	PLANT & ANIMAL
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動植物前沿二

PSEUDOMONAS SYRINGAE EFFECTOR AVRPTO; INNATE IMMUNITY; PLANT PATTERN-RECOGNITION RECEPTOR CONFERS BROAD-SPECTRUM BACTERIAL RESISTANCE; PLANT INNATE IMMUNE RECEPTOR; BACTERIAL VIRULENCE PROTEIN SUPPRESSES HOST INNATE IMMUNITY IN PLANT & ANIMAL SCIENCE



各分類領域比例圖

核心文獻標題	Citation	分類領域
HOST-MICROBE INTERACTIONS: SHAPING THE EVOLUTION OF THE	604	MOLECULAR BIOLOGY &
PLANT IMMUNE RESPONSE	004	GENETICS
PERCEPTION OF THE BACTERIAL PAMP EF-TU BY THE RECEPTOR EFR	297	MOLECULAR BIOLOGY &
RESTRICTS AGROBACTERIUM-MEDIATED TRANSFORMATION	297	GENETICS
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INITIATES PLANT DEFENCE	240	SCIENCE
DIRECT PROTEIN INTERACTION UNDERLIES GENE-FOR-GENE		PLANT & ANIMAL
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MICROBE-ASSOCIATED MOLECULAR PATTERNS AND DANGER	188	SCIENCE
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THE RECEPTOR-LIKE KINASE SERK3/BAK1 IS A CENTRAL REGULATOR	171	PLANT & ANIMAL
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CERK1, A LYSM RECEPTOR KINASE, IS ESSENTIAL FOR CHITIN ELICITOR	155	PLANT & ANIMAL

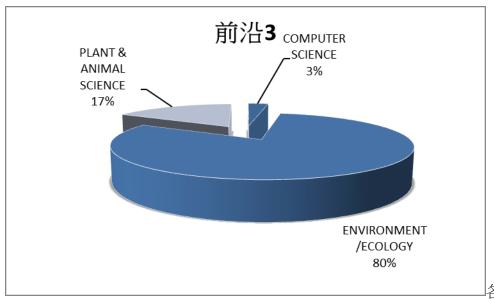
SIGNALING IN ARABIDOPSIS		SCIENCE
A BACTERIAL VIRULENCE PROTEIN SUPPRESSES HOST INNATE	4.40	PLANT & ANIMAL
IMMUNITY TO CAUSE PLANT DISEASE	140	SCIENCE
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A TYPE III EFFECTOR ADP-RIBOSYLATES RNA-BINDING PROTEINS AND	87	PLANT & ANIMAL
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RANGAP2 MEDIATES NUCLEOCYTOPLASMIC PARTITIONING OF THE NB-LRR IMMUNE RECEPTOR RX IN THE SOLANACEAE, THEREBY DICTATING RX FUNCTION	10	PLANT & ANIMAL SCIENCE
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A RECEPTOR-LIKE CYTOPLASMIC KINASE PHOSPHORYLATES THE HOST TARGET RIN4, LEADING TO THE ACTIVATION OF A PLANT INNATE IMMUNE RECEPTOR	9	MICROBIOLOGY
NUCLEOCYTOPLASMIC DISTRIBUTION IS REQUIRED FOR ACTIVATION OF RESISTANCE BY THE POTATO NB-LRR RECEPTOR RX1 AND IS BALANCED BY ITS FUNCTIONAL DOMAINS	9	PLANT & ANIMAL SCIENCE
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動植物前沿三

ASYMMETRIC COEVOLUTIONARY NETWORKS; BIODIVERSITY MAINTENANCE; GRASSLAND COMMUNITIES REQUIRES HIGHER BIODIVERSITY; FUNCTIONAL BIODIVERSITY RESEARCH; BIODIVERSITY EFFECTS; BIODIVERSITY IMPROVES WATER QUALITY IN PLANT & ANIMAL SCIENCE



各分類領域比例圖

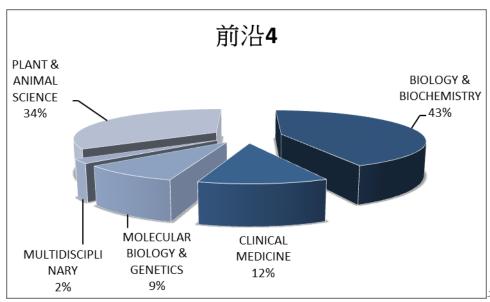
核心文獻標題	Citation	分類領域
EFFECTS OF BIODIVERSITY ON THE FUNCTIONING OF TROPHIC	334	ENVIRONMENT/ECOLOGY
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QUANTIFYING THE EVIDENCE FOR BIODIVERSITY EFFECTS ON	328	ENVIRONMENT/ECOLOGY
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各分類領域比例圖

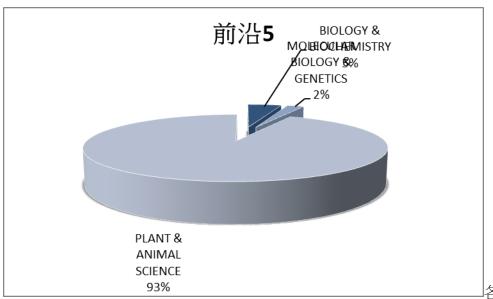
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TYPE 2C PROTEIN PHOSPHATASES; ABSCISIC ACID-ACTIVATED PROTEIN KINASES; ABSCISIC ACID INHIBITS TYPE 2C PROTEIN PHOSPHATASES; ABSCISIC ACID SIGNALING IN-VIVO; ABSCISIC ACID RECEPTOR PYR1; ABSCISIC ACID RECEPTOR PYL5 IN PLANT & ANIMAL SCIENCE



各分類領域比例圖

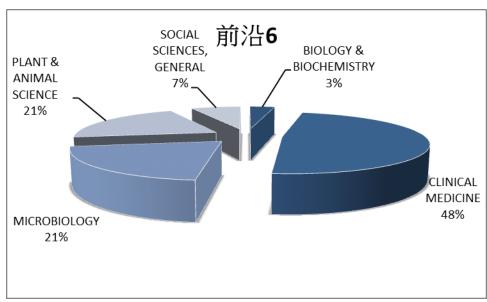
核心文獻標題	Citation	分類領域
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ABSCISIC ACID RECEPTORS COZ REGULATOR SLACI AND ITS HOMOLOGUES ARE ESSENTIAL FOR 83 PLANT & ANIMAL ANION HOMEOSTASIS IN PLANT CELLS STRUCTURAL BASIS OF ABSCISIC ACID SIGNALLING 82 PLANT & ANIMAL SCIENCE STRUCTURAL MECHANISM OF ABSCISIC ACID BINDING AND 78 PLANT & ANIMAL SCIENCE STRUCTURAL MECHANISM OF ABSCISIC ACID BINDING AND 78 PLANT & ANIMAL SCIENCE STRUCTURAL MECHANISM OF ABSCISIC ACID BINDING AND 78 PLANT & ANIMAL SCIENCE SIGNALING BY DIMERIC PYRI SCIENCE SIGNALING BY DIMERIC PYRI SCIENCE TYPE 2C PROTEIN PHOSPHATASES DIRECTLY REGULATE ABSCISIC 76 PLANT & ANIMAL ACID-ACTIVATED PROTEIN KINASES IN ARABIDOPSIS SCIENCE ARABIDOPSIS MUTANT DEFICIENT IN 3 ABSCISIC ACID-ACTIVATED 73 PLANT & ANIMAL SCIENCE REPRODUCTION, AND STRESS THE ABSCISIC ACID RECEPTOR PYRI IN COMPLEX WITH ABSCISIC 73 PLANT & ANIMAL SCIENCE ACTIVITY OF GUARD CELL ANION CHANNEL SLACI IS CONTROLLED BY 72 PLANT & ANIMAL SCIENCE A PROTEIN KINASE-PHOSPHATASE PAIR INTERACTS WITH AN ION 64 PLANT & ANIMAL CHANNEL TO REGULATE ABA SIGNALING IN PLANT GUARD CELLS GUARD CELL SIGNAL TRANSDUCTION NETWORK: ADVANCES IN 63 PLANT & ANIMAL UNDERSTANDING ABSCISIC ACID, CO2, AND CA2+ SIGNALING SCIENCE GUARD CELL SIGNAL TRANSDUCTION NETWORK: ADVANCES IN 63 PLANT & ANIMAL SCIENCE THREE ARABIDOPSIS SNIK2 PROTEIN KINASES, SIRK2D/SNIK2.2, 61 PLANT & ANIMAL SCIENCE STRUCTURAL INSIGHTS INTO THE MECHANISM OF ABSCISIC ACID 60 PLANT & ANIMAL SCIENCE STRUCTURAL INSIGHTS INTO THE MECHANISM OF ABSCISIC ACID 59 BIOLOGY & BIOCHEMISTRY PROTEIN PHOSPHATASES 2C REGULATE THE ACTIVATION OF THE 53 PLANT & ANIMAL SCIENCE THREE SNRK2 PROTEIN KINASES ARE THE MAIN POSITIVE 46 PLANT & ANIMAL SCIENCE THREE SNRK2 PROTEIN KINASES ARE THE MAIN POSITIVE 46 PLANT & ANIMAL SCIENCE STRUCTURAL INSIGHTS INTO THE MECHANISM OF ABSCISIC ACID 59 BIOLOGY & BIOCHEMISTRY PROTEIN PHOSPHATASES 2C REGULATE THE ACTIVATION OF THE 53 PLANT & ANIMAL SCIENCE THREE SNRK2 PROTEIN KINASES ARE THE MAIN POSITIVE 46 PLANT & ANIMAL SCIENCE THREE SNRK2 PROTEIN KINASES ARE THE MAIN POSITIVE 46 PLANT	A GATE-LATCH-LOCK MECHANISM FOR HORMONE SIGNALLING BY	83	PLANT & ANIMAL
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PROTEIN KINASES REVEALS CRITICAL ROLES IN GROWTH, REPRODUCTION, AND STRESS THE ABSCISIC ACID RECEPTOR PYR1 IN COMPLEX WITH ABSCISIC ACID ACID ACID ACID ACID ACID ACITIVITY OF GUARD CELL ANION CHANNEL SLAC1 IS CONTROLLED BY ACID BOUGHT-STRESS SIGNALING KINASE-PHOSPHATASE PAIR APPOTEIN KINASE-PHOSPHATASE PAIR INTERACTS WITH AN ION APPOTEIN KINASE-PHOSPHATASE PAIR INTERACTS WITH AN ION APPOTEIN KINASE-PHOSPHATASE PAIR INTERACTS WITH AN ION CHANNEL TO REGULATE ABA SIGNALING IN PLANT GUARD CELLS GUARD CELL SIGNAL TRANSDUCTION NETWORK: ADVANCES IN AUDERSTANDING ABSCISIC ACID, CO2, AND CA2+ SIGNALING SCIENCE THREE ARABIDOPSIS SNRK2 PROTEIN KINASES, SRK2D/SNRK2.2, BLANT & ANIMAL SCIENCE THREE ARABIDOPSIS SNRK2 PROTEIN KINASES, SRK2D/SNRK2.2, BLANT & ANIMAL SCIENCE SIGNALING ARE ESSENTIAL FOR THE CONTROL OF SEED DEVELOPMENT AND DORMANCY MODULATION OF DROUGHT RESISTANCE BY THE ABSCISIC ACID BOULATION OF DROUGHT RESISTANCE BY THE ABSCISIC ACID BOULATION OF DROUGHT RESISTANCE BY THE ABSCISIC ACID STRUCTURAL INSIGHTS INTO THE MECHANISM OF ABSCISIC ACID STRUCTURAL INSIGHTS INTO THE MECHANISM OF ABSCISIC ACID SIGNALING BY PYL PROTEINS BIOCHEMISTRY PROTEIN PHOSPHATASES 2C REGULATE THE ACTIVATION OF THE SIGNALING BY PYL PROTEINS BIOCHEMISTRY PROTEIN PHOSPHATASES 2C REGULATE THE ACTIVATION OF THE STRESS IN ARABIDOPSIS ABA PERCEPTION AND SIGNALLING IN RESPONSE TO WATER SCIENCE THREE SNRK2 PROTEIN KINASES ARE THE MAIN POSITIVE ABA PERCEPTION AND SIGNALLING IN RESPONSE TO WATER SCIENCE GENETIC CHARACTERIZATION REVEALS NO ROLE FOR THE REPORTED AS PLANT & ANIMAL SCIENCE GENETIC CHARACTERIZATION REVEALS NO ROLE FOR THE REPORTED AS PLANT & ANIMAL SCIENCE GENETIC CHARACTERIZATION REVEALS NO ROLE FOR THE REPORTED AS PLANT & ANIMAL SCIENCE AND PLANT & ANIMAL SCIENCE	ACID-ACTIVATED PROTEIN KINASES IN ARABIDOPSIS		SCIENCE
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GUARD CELL SIGNAL TRANSDUCTION NETWORK: ADVANCES IN UNDERSTANDING ABSCISIC ACID, CO2, AND CA2+ SIGNALING THREE ARABIDOPSIS SNRK2 PROTEIN KINASES, SRK2D/SNRK2.2, SRK2E/SNRK2.6/OST1 AND SRK2I/SNRK2.3, INVOLVED IN ABA SCIENCE SIGNALING ARE ESSENTIAL FOR THE CONTROL OF SEED DEVELOPMENT AND DORMANCY MODULATION OF DROUGHT RESISTANCE BY THE ABSCISIC ACID STRUCTURAL INSIGHTS INTO THE MECHANISM OF ABSCISIC ACID SIGNALING BY PYL PROTEINS PROTEIN PHOSPHATASES 2C REGULATE THE ACTIVATION OF THE SNF1-RELATED KINASE OST1 BY ABSCISIC ACID IN ARABIDOPSIS THREE SNRK2 PROTEIN KINASES ARE THE MAIN POSITIVE ABA PERCEPTION AND SIGNALLING GENETIC CHARACTERIZATION REVEALS NO ROLE FOR THE REPORTED ABA RECEPTOR, GCR2, IN ABA CONTROL OF SEED GERMINATION AND EARLY SEEDLING DEVELOPMENT IN ARABIDOPSIS SCIENCE AND EARLY SEEDLING DEVELOPMENT IN ARABIDOPSIS	A PROTEIN KINASE-PHOSPHATASE PAIR INTERACTS WITH AN ION	64	PLANT & ANIMAL
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THREE ARABIDOPSIS SNRK2 PROTEIN KINASES, SRK2D/SNRK2.2, SRK2E/SNRK2.6/OST1 AND SRK2I/SNRK2.3, INVOLVED IN ABA SCIENCE SIGNALING ARE ESSENTIAL FOR THE CONTROL OF SEED DEVELOPMENT AND DORMANCY MODULATION OF DROUGHT RESISTANCE BY THE ABSCISIC ACID FRECEPTOR PYL5 THROUGH INHIBITION OF CLADE A PP2CS SCIENCE STRUCTURAL INSIGHTS INTO THE MECHANISM OF ABSCISIC ACID SIGNALING BY PYL PROTEINS PROTEIN PHOSPHATASES 2C REGULATE THE ACTIVATION OF THE SNF1-RELATED KINASE OST1 BY ABSCISIC ACID IN ARABIDOPSIS THREE SNRK2 PROTEIN KINASES ARE THE MAIN POSITIVE THREE SNRK2 PROTEIN KINASES ARE THE MAIN POSITIVE ABA PERCEPTION AND SIGNALLING GENETIC CHARACTERIZATION REVEALS NO ROLE FOR THE REPORTED ABA RECEPTOR, GCR2, IN ABA CONTROL OF SEED GERMINATION AND EARLY SEEDLING DEVELOPMENT IN ARABIDOPSIS	GUARD CELL SIGNAL TRANSDUCTION NETWORK: ADVANCES IN	63	PLANT & ANIMAL
SRK2E/SNRK2.6/OST1 AND SRK2I/SNRK2.3, INVOLVED IN ABA SCIENCE SIGNALING ARE ESSENTIAL FOR THE CONTROL OF SEED DEVELOPMENT AND DORMANCY MODULATION OF DROUGHT RESISTANCE BY THE ABSCISIC ACID RECEPTOR PYL5 THROUGH INHIBITION OF CLADE A PP2CS SCIENCE STRUCTURAL INSIGHTS INTO THE MECHANISM OF ABSCISIC ACID SIGNALING BY PYL PROTEINS BIOCHEMISTRY PROTEIN PHOSPHATASES 2C REGULATE THE ACTIVATION OF THE SNF1-RELATED KINASE OST1 BY ABSCISIC ACID IN ARABIDOPSIS THREE SNRK2 PROTEIN KINASES ARE THE MAIN POSITIVE THREE SNRK2 PROTEIN KINASES ARE THE MAIN POSITIVE SCIENCE STRESS IN ARABIDOPSIS ABA PERCEPTION AND SIGNALLING IN RESPONSE TO WATER SCIENCE GENETIC CHARACTERIZATION REVEALS NO ROLE FOR THE REPORTED ABA RECEPTOR, GCR2, IN ABA CONTROL OF SEED GERMINATION AND EARLY SEEDLING DEVELOPMENT IN ARABIDOPSIS	UNDERSTANDING ABSCISIC ACID, CO2, AND CA2+ SIGNALING		SCIENCE
SIGNALING ARE ESSENTIAL FOR THE CONTROL OF SEED DEVELOPMENT AND DORMANCY MODULATION OF DROUGHT RESISTANCE BY THE ABSCISIC ACID 60 PLANT & ANIMAL RECEPTOR PYL5 THROUGH INHIBITION OF CLADE A PP2CS SCIENCE STRUCTURAL INSIGHTS INTO THE MECHANISM OF ABSCISIC ACID 59 BIOLOGY & SIGNALING BY PYL PROTEINS BIOCHEMISTRY PROTEIN PHOSPHATASES 2C REGULATE THE ACTIVATION OF THE 53 PLANT & ANIMAL SNF1-RELATED KINASE OST1 BY ABSCISIC ACID IN ARABIDOPSIS SCIENCE THREE SNRK2 PROTEIN KINASES ARE THE MAIN POSITIVE 46 PLANT & ANIMAL REGULATORS OF ABSCISIC ACID SIGNALING IN RESPONSE TO WATER STRESS IN ARABIDOPSIS ABA PERCEPTION AND SIGNALLING 45 PLANT & ANIMAL SCIENCE GENETIC CHARACTERIZATION REVEALS NO ROLE FOR THE REPORTED 45 PLANT & ANIMAL ABA RECEPTOR, GCR2, IN ABA CONTROL OF SEED GERMINATION AND EARLY SEEDLING DEVELOPMENT IN ARABIDOPSIS	THREE ARABIDOPSIS SNRK2 PROTEIN KINASES, SRK2D/SNRK2.2,	61	PLANT & ANIMAL
DEVELOPMENT AND DORMANCY MODULATION OF DROUGHT RESISTANCE BY THE ABSCISIC ACID 60 PLANT & ANIMAL RECEPTOR PYL5 THROUGH INHIBITION OF CLADE A PP2CS SCIENCE STRUCTURAL INSIGHTS INTO THE MECHANISM OF ABSCISIC ACID 59 BIOLOGY & SIGNALING BY PYL PROTEINS BIOCHEMISTRY PROTEIN PHOSPHATASES 2C REGULATE THE ACTIVATION OF THE 53 PLANT & ANIMAL SNF1-RELATED KINASE OST1 BY ABSCISIC ACID IN ARABIDOPSIS SCIENCE THREE SNRK2 PROTEIN KINASES ARE THE MAIN POSITIVE 46 PLANT & ANIMAL REGULATORS OF ABSCISIC ACID SIGNALING IN RESPONSE TO WATER SCIENCE STRESS IN ARABIDOPSIS ABA PERCEPTION AND SIGNALLING 45 PLANT & ANIMAL SCIENCE GENETIC CHARACTERIZATION REVEALS NO ROLE FOR THE REPORTED 45 PLANT & ANIMAL ABA RECEPTOR, GCR2, IN ABA CONTROL OF SEED GERMINATION SCIENCE AND EARLY SEEDLING DEVELOPMENT IN ARABIDOPSIS	SRK2E/SNRK2.6/OST1 AND SRK2I/SNRK2.3, INVOLVED IN ABA		SCIENCE
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GREAT NEGLECTED TROPICAL DISEASES; SOIL-TRANSMITTED HELMINTH INFECTIONS; HUMAN HELMINTH INFECTIONS; COPROANTIGEN REDUCTION TEST (CRT) PROTOCOL; NATIONWIDE SCHOOL-BASED HELMINTH CONTROL IN PLANT & ANIMAL SCIENCE



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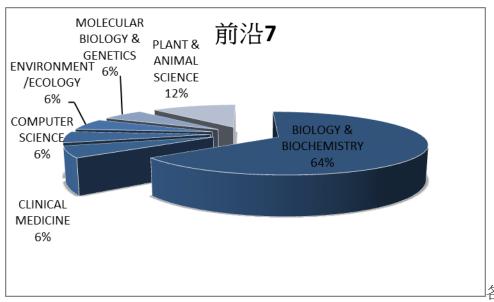
STANDARDISATION OF A COPROANTIGEN REDUCTION TEST (CRT)
PROTOCOL FOR THE DIAGNOSIS OF RESISTANCE TO
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ARTHROPOD PHYLOGENY; SEA ANEMONE GENOME REVEALS ANCESTRAL EUMETAZOAN GENE REPERTOIRE; ARTHROPOD PHYLOGENY REVISITED; ARTHROPOD RELATIONSHIPS REVEALED; PROTEIN-CODING NUCLEAR GENE SEQUENCE IN PLANT & ANIMAL SCIENCE



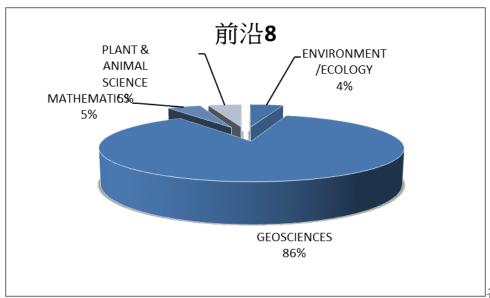
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ARCTIC OCEAN SEA ICE COVER; 2007 ARCTIC SEA ICE EXTENT MINIMUM; ARCTIC SEA ICE COVER; EXTREME ARCTIC SEA ICE MELT; SEA ICE FREE SUMMER ARCTIC IN PLANT & ANIMAL SCIENCE



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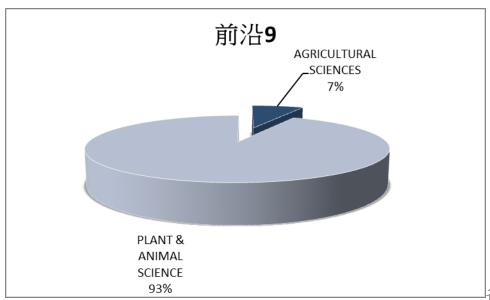
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MODEL GRASS BRACHYPODIUM DISTACHYON; GRASS GENOME EVOLUTION; BARLEY GENOME; GENOME SEQUENCING; GRAPEVINE GENOME SEQUENCE SUGGESTS ANCESTRAL HEXAPLOIDIZATION IN PLANT & ANIMAL SCIENCE



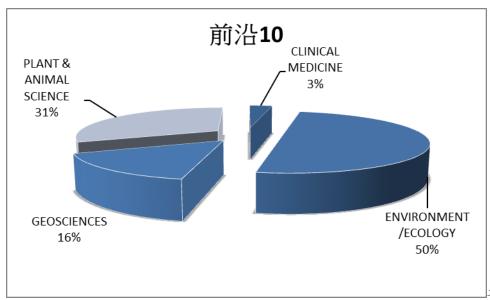
各分類領域比例圖

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CO2-DRIVEN OCEAN ACIDIFICATION; LARVAL SURVIVAL; NEAR-FUTURE OCEAN ACIDIFICATION; OCEAN ACIDIFICATION CAUSES BLEACHING; OCEAN ACIDIFICATION ALTERS SKELETOGENESIS; IMMINENT OCEAN ACIDIFICATION IN PLANT & ANIMAL SCIENCE



各分類領域比例圖

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