

SCIENTIA INTERNATIONAL

NOVAS DEL MENSE IN INTERLINGUA

Agricultura.—Un nove composito, chloruro de phenacridano, se ha monstrate multo efficace pro le protection de semines contra infectiones fungal e bacterial, e illo non retarda le germination del semines. Le composito produce un forte tinctura jalne e pro iste ration illo non es convenibile pro le tractamento de humanos. In applicationes agricole le forte color es plus ben un advantage, proque illo identifica le semines que ha essite tractate.

Astrophysica.—Un Satellite Agena, lanceate per le Fortia Aeree del Statos Unite, ha colligite le prime datos continue in re le extension del zona Van Allen e le intensitate de su radiationes. Le instrumentos del satellite reportava al stationes terrestre del Fortia Aeree que le extension del portion interior del zona Van Allen es approximativemente 20 grados a ambe lateres del equator magnetic. Le intensitate de su radiation attinge un maximo de 200.000 protones per secunda per cm². Exposition a radiation de iste nivello esserea letal a humanos in approximativemente un septimana, sed, proque le astronauta va traversar le zona in pauc minutas, le zona Van Allen non representa un grande obstaculo pro le exploration del spatio.

Chirurgia.—Portabile cameras de operation ha essite installate in helicopteros in le U.R.S.S. a fin de portar un equipa chirurgic al patiente in casos de urgentia in que le patiente debe non esser transportate.

Ingenieria Civil.—A Point Loma, proxime a San Diego in California, un grande installation pro le dissalination de aqua esseva dedicate le 10 de martio. Illo produce omne die 4.000.000 litros de aqua dissalinate, le qual es utilisate pro le citate San Diego. Le methods empleate es distillation fulgurante a multiple stadios. Duo simile installationes es jam in operation in le Statos Unite, un a Freeport, Texas, con un rendimento de 4.000.000 litros per die, e le altere a Webster, Sud-Dakota, con un rendimento de 1.000.000 litros. Al cerimonio de dedication a Point Loma, G. A. Price, presidente del directores del Corporation Electric Westinghouse, predicava le construction de grande installationes a energia atomic que va simultaneamente producer electricitate e aqua dissalinate.

Nutrition.—Dr. J. Brozek del Universitate Lehigh in Bethlehem, Pennsylvania, reporta que varie deficientias nutritional pote causar symptomatos psychoneurotic, como debilitate, apathia, e depression. Tal deficientias pote causar resultados mesmo plus grave, como le psychosis de pellagra, que es causate per un deficientia de niacina.

Nutrition.—Sin reguardo al quantitate de ferro que es ingerite, solmente le quantitate que es necessari pro le formation de hemoglobina in le erythrocytos es absorbite ab le intestino.

Pediatria.—Un studio conducite per S. Ringholz e M. Morris del Universitate California revela que le moderne systema de "co-hospitalisation" in que neonato e matre non es separate, sed vive in le mesme camera del hospital, es approbate per le grande majoritate del matres. Le systema, in effecto, es ancian, e le segregation de neonatos ab lor matres es un innovation de iste seculo. Le moderne tendentia a abandonar iste segregation es debite a duo factores: le possibile mal effectos psychologic al infante de isolation ab su parentes, e le periculo de epidemias in le nurseries hospitalari.

Pharmacologia.—Varie derivatos de tryptamina, un substantia intermediate que es producite per le processos metabolic del corpore human, produce hallucinationes e altere disordines mental quando iste substantias es administrate per via oral o per injection.

Physica Atomic.—La particula anti-Xi-minus o anti-hyperon-cascada ha essite discoverite per le cooperation de scientistas del Laboratorio National Brookhaven, del Universitate Yale, del Centro Europee de Recercas Nucleari (CERN) in Geneva, e del Schola Technic in Paris. Le particula anti-Xi-minus es le plus pesante del particulas elementari usque nunc discoverite. Illo es un forma de antimateria, e su discoverita confirma le theoria que correspondentemente a omne particula elementari il existe un antiparticula. Le vita del particula es extrememente breve. Illo se disintegra in un dece-milliardesimo de un secunda, sed nonobstante illo ha essite observate, mesurate, e photographiate. Illo esseva producite per le reactiones causate per un fasce de anti-protones al energia de 3,3 miliardas electron-volt.

Physica Atomic.—Le cavitate create per le explosion subterranea del Projecto Gnomo in Nove Mexico ha un diametro de circa 30 metros.

Psychologia.—Le studios de N. Kleitman e su collegas al Universitate Chicago super somno e sonios esseva recentemente reportate al Institution Royal de Grande Britannia per le physiologo Nobelista Lord Adrian. Secundo le reporto il es facile distinguer, per medio del electroencephalographia, inter le stato veliante, somno leve, e somno profunde. Le presentia de sonios es revelate per movimientos del oculos. Si un soniator es eveliate durante o immediatemente post un sonio, ille generalmente pote memorar lo, sed non si ille es eveliate post un intervallo de somno profunde. Il non es nocive eveliar un persona durante somno profunde, sed eveliar un persona durante un sonio resulta in irritabilitate durante le sequente die e in un plus grande numero de sonios e plus longe periodos de soniamento durante le sequente periodo de somno. Il es nondum determinate si o non le soniar es un necessitate physiologic pro le homine, o si illo debe esser classificate como un habitude.

Radioactivitate.—Dr. P. J. Gillespie del Centro de Radiotherapia de Nord-Irlanda reporta que le recente serie de tests nucleari in Russia ha resultate in un marcate augmento in le quantitate de radioactive iodo-131 trovate in le thyroids de boves in Nord-Irlanda. Isto implica un possibile periculo a humanos, proque le glandulas de bestial macellate in Nord-Irlanda es empleate in le preparation de pharmaceuticos pro uso per humanos.

Recercas de Cancere.—Dr. G. Pincus del Fundation Worcester pro Biologia Experimental, a Shrewsbury, Massachusetts, reporta que le incidencia de cancere es extrememente basse inter le milles de feminas in Texas, Porto Rico, Haiti, e Mexico qui ha prendite pillulas contraceptive durante le ultime 6 annos. On habeva timite que iste pillulas, que contine le hormones progestina e estrogeno, poteva causar cancere, sed apparentemente iste timor es sin justification.

Zoologia.—Dr. H. Heck del Jardin Zoologic Hellabrunn in Munich ha consecrate multe annos al re-creation del extincte animales prehistoric de Europa. Ille ha succedite a establir un grege de boves que reproduce le caracteristicas del aurochs, que deveniva extincte in 1627, e que es considerate como le ancestre de omne varietates del moderne bove domestic. Iste resultado esseva accomplite per cruciar varie racias del bove domestic, e per le selection e recruciamiento del prole assi obtenite. Dr. Heck ha etiam succedite per iste methodos a re-crear un grege del tarpan, le primitive cavallo salvage de Europa, que deveniva extincte un seculo retro.

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GENERAL SCIENCE

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