

# SCIENTIA INTERNATIONAL

## NOVAS DEL MENSE IN INTERLINGUA

**Medicina Physic.**—Un medico de Chicago ha discoperite que sensibilissime microphonios permitte le differentiation del sonos producite per le articulation del genu secundo que illo es rheumatoide, osteo-arthritic, o normal. Le identification acustic de rheumatismo e de osteo-arthritis del genu es possibile, dice Dr. H. Fischer, multo ante que le roentgenogramma revela ulle alteration.

**Physiologia de Plantas.**—Pro retardar le florescentia de poinsettias per un decena de dies usque a noel—normalmente iste plantas attinge le culmine de lor florition circum le 10 de decembre—il es solmente necessari interromper lor "somnia" durante un hora ane nocte inter le 22 de septembre e le 10 de october. On ha semper sapite que poinsettias es plantas de "die breve", i.e. que illos comencia formar lor flores quando le dies comencia devenir plus breve. In le effortio de exploitare iste facto, on ha frequentemente tentate le methodo de prolongar lor dies artificialmente quando on voleva retardar lor florescentia. Sed recercatores del Departamento de Agricultura del Stato de Ohio ha trovate post duo annos de experimentation que adder un hora o duo de lumine artificial al comenciamento e al fin del die natural es minus efficace in le obtention del mentionate objectivo que interromper de obscuritate del nocte a su medietate. Il pare que poinsettias es plantas de "nocte longe" plus tosto que de "die breve". Le mecanismo de iste phenomeno remane incomprehendite. Le plus estranie aspecto de illo es que le hora de luminositate medienocturne non ha a esser continue: il es possibile applicar in loco de illo un serie de subite pulsos de lumine con intervallos de un minuta. Isto rende le methodo multo plus economic, e on sape que in le Statos Unite le provision de poinsettias in flor a noel es un grande industria.

**Statistica Vital.**—Le juvene americanos de ambe sexos es currentemente plus grande e plus pesante que lor parentes esseva a correspondentes etates. Pro masculos le differentia de peso amonta a inter cinque e dece libras, pro feminas a inter dua e cinque. Omne isto es un del resultados de un studio effectuate per recercatores del statunitense Departamento de Agricultura. Le mesme studio etiam monstra—curiosamente—que homines e feminas qui profita (o ha profitate) de un education superior tende a esser plus grande e minus pesante que le alteres qui ha debite contentar se de un education elementari.

**Radiation Ionisante.**—Certe scientistas russe—per contrasto con le majoritate de lor collegas occidental—insiste que alterationes structural de cellulas nervose non es le sol possibile neuro-effecto adverse de irradiation ionisante. In experimentos con canes illes crede haber demonstrate que le prolongate exposition a basse doses de radiation affice le memoria, reduce le capacitate de apprender e accelerante le "capacitate" de oblidar. Pro explicar iste constatationes, le supra-mentionate russos ha elaborate le hypothese que doses de radiation que non suffice a lesionar le structura del cellulas nervose es nonobstante sufficiente a disturbar e forsan a alterar permanentemente le metabolismo de ille cellulas.

**Microbiologia.**—Le investigation del question—de apparentia satis academic—si actinomycetes es relationate al bacterios o al fungos ha resultate in un discoperta de grande importantia practic. In recente annos milles e milles de differente actinomycetes ha essite studiate in le cerca de nove antibioticos, proque il es actinomycetes que produce le grande majoritate del jam cognoscite antibioticos de interesse medical.

In iste situation il ha devenite de plus in plus difficile classificar le actinomycetes, i.e., in altere parolas, il ha devenite de plus in plus difficile systematisar le cerca de nove antibioticos. On ha variamente tentate basar le classification de iste organismos super lor color e super lor structura, sed ambe iste criterios es variabile e lor estimation non pote esser liberate completamente de influentias subjective. Nunc recercatores al Universitate Minnesota ha trovate que actinomycetes revela lor affinitate o non-affinitate mutual in lor reaction al effecto de certe typos de virus. Le susceptibilitate e le non-susceptibilitate del actinomycetes al effecto destructive de typos specific de virus va esser le base de un nove classification in le mundo de iste plus importante productores de antibioticos. Viste que le typos de virus in question pare esser simile al typos de virus que es selectivemente destructive pro bacterios, le discoperta de Minnesota reinforta simultaneamente le conception que le actinomycetes es bacterios plus tosto que fungos.

**Recercas de Scleroses Multiple.**—Le apparentemente erratic distribution mundial de scleroses multiple se trova—secundo investigationes de Dr. J. S. Barlow del Universitate Harvard—in un frappante correlation con le latitude geomagnetic. Viste que le intensitate del radiation cosmic es le sol cognoscite phenomeno natural que es causalmente associabile con le latitude geomagnetic, Dr. Barlow ha formulate le these que scleroses multiple es causate (o co-causate) per le radiation ionisante del cosmo.

**Antibioticos.**—In Anglaterra un combination de processos natural con syntheses de laboratorio ha resultate in le disveloppamento de un specie de "super-penicillina" que se ha monstrate efficace contra staphylococcus resistente a altere preparatos de penicillina. Illo es tolerate per multe personas qui es allergic al penicillinas conventional. Illo essera lanceate al mercato sub le nomine de "Staphicillin".

**Cardiologia.**—In le vicinitate de Paris in Francia, le meticulose examine medical de un puera de 17 annos de etate ha resultate in le constatation que illa ha duo cordes. Le symptomas pro le quales illa cercava le consilio del medicos esseva extreme manco de energia e un excessivamente rapide fatigabilitate. Le medicos ha initiate un studio (que probabilemente va durar tres annos o plus) pro determinar si un del duo cordes pote esser extirpate chirurgicamente. Previamente un simile caso esseva reportate ab Yugoslavia ubi duo cordes esseva trovate in un juvene homine de 19 annos de etate quando ille se presentava al servicio militar.

**Orthopedia.**—Medicos del Administration de Veteranos experimenta con un apparato destinate a effectuar le electro-stimulation de paralytate musculos de gamba. Quando le assi stimulate musculos ha complite un movimento de marcha, le contacto del pede con le terra disrumpe le circuito electric, e un nove cyclo del mesme genere es comenciate.

**Foresteria.**—Le radices de duo o plus adjacente arbores de foresta se trova non infrequentemente connectite per un sorta de intergraffage natural. Iste facto esseva establite in recercas al Universitate Wisconsin. Le phenomeno es quasi totalmente restringite a pares o gruppos de arbores del mesme specie. Ab le puncto de vista practic, le discoperta significa que in multe casos le "circulation" de un arbore individual non es realmente individual: le intergraffage permitte le passage de agentes pathogene e de substantias chimic de origine natural si ben que artificial.

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