

SCIENTIA INTERNATIONAL

NOVAS DEL MENSE IN INTERLINGUA

Psychologia.—Silentio absolute, si ben como obscuritate absolute, non promove e non facilita le addormir se pro humanos. Iste facto esseva definite demonstrate in experimentos effectuate al laboratorios psychologic del Universitate Indiana. Le explication de iste satis sorprendente constation pare esser que le silentio e le obscuritate non interrumpite per mesmo le plus micre sono o luminositate pone le subjecto in un stato de "tension de expectation." Ille expecta le usual stimulus acustic e visual con un si forte concentration que le relaxation que debe preceder le advento del somnio deveni impossibile.

Cosmetica.—Vernisses cosmetic, del typo que es applicate al capillatura per aerosolisation, es potencialmente hasardose pro le sanitate de lor usatrices. Certes de ille vernisses es cognoscitemente cancerogene in animales experimental. Lor inhalation, que non es completamente evitabile durante lor application, pare esser responsabile pro varie disordines pulmonar secundo un reporto per Dr. B. G. Edelston de Folkestone e Dover in Anglaterra. In un de su casos Dr. Edelston notava le presentia multiple de allargate nodos pulmo-lymphatic e de altere symptomata que habeva nulle obvie etiologia e que recedeva post le discontinuation del uso de vernisse capillar. Tamen, si o non iste patiente ha suffrite permanente effectos adverse de manifestation a longe vista non es determinabile al tempore presente. Dr. Edelston recommenda le uso de mascas a gas durante le application de vernisses capillar del typo a aerosolisation.

Oceanographia.—Membros del personal scientific al Station Experimental China Lake (California) del Marina Statounitese ha elaborate planos pro un submarino de exploration que va utilisar certes del principios establite per Auguste Picard in explorationes con su famose bathyscaphos sed que essera libereamente mobile e capace a attinger omne regiones del oceano, in omne partes del mundo e a omne profundores que existe.

Cosmopathologia.—In un recente discurso a Philadelphia, Dr. Trexler del Universitate Notre Dame signalava que "tres seculos de morbo e morte" a ambe lateres del Atlantico sequeva le discoperta del Nove Mundo. Isto, secundo Dr. Trexler, esseva le effecto del transmigration de micro-organismos a in territorios ubi illos esseva immunologicamente nove e ergo potentissime. Con iste observationes Dr. Trexler introduceva le question del consequentias microbiologic del veniente viages cosmic. Que va esser le effecto pathogenetic de micro-organismos terrestre super le vita vegetal e animal in altere planetas? E qual garantia possede nos que nostre medicina va poter maestrar le effectos pathogenetic de micro-organismos transferite al terra ab altere corpores celeste? Le astronauta del futuro, insiste Dr. Trexler, va deber acceptar un systema de quarantenas multo plus stricte que ullo unquam practiccate in nostre passate historia terrestre.

Agricultura.—Lacte de vacca contine un substantia que protege plantas de tomato e tabaco contra le morbo viral que es cognoscite como mosaico. Le agente antimosaic in le lacte pare esser un non ancora identificate globulina que es presente in le parte del lacte que remane post su discreation. Experimentos al Collegio Statal de Nord-Carolina ha monstrate que le dissemination de mosaico es grandemente reducecitate quando le obreros agricultural qui manipula le plantas in question es instruite a lavar lor manos in lacte discreate.

Phytopathologia.—Plantas inficite per un micropathogeno reage per un respiration acce-

lerate, secundo un reporto presentate al recente assemblea del Instituto American pro le Scientias Biologic.

Pharmaceutica.—Le processo del revestimento de pillulas (con substantias protectori o aromatic) es simplificate e perfectionate per un nove machina in que le pillulas es sublevate per un forte corrente de aere e exponite in "volo" a un aspersion del substantia revestitori que deveni sic e dur ante que le pillulas re-tocca un superficie solide. Le machina es le invention de Dr. D. E. Wurster del Universitate Wisconsin.

Astronomia.—Dra. N. G. Roman del Statounitese Administration Aero- e Astronautic ha calculate que telescopios nunc existente sufficere pro determinar le presentia o absentia de planetas in le orbitas de al minus le 5 o 6 plus proxime stellas fixe, si le atmosphaera del terra non disturbava le observation. Ergo Dra. Roman propone installar (o al minus: planar installar) telescopios in le luna que non ha un atmosphaera. Ab le luna, secundo Dra. Roman, planetas de Alpha Centauri, Sirio, Arturo, etc., providite que tales existe, es clarmente observabile.

Virologia.—Dr. K. Maromrosch del Instituto Rockefeller a New York ha reportate le remarcabile observation que un certe insecto, que es normalmente invenenate per extractos de asteres, spinacia, carotas, etc., comencia prosperar con un dieta de ille mesme extractos si tosto que illo ha ingerite le virus que es le principal pathogeno afficente carotas e le altere plantas mentionate. Dr. Maromrosch crede que su discoperta aperi un novissime campo de ricerca: le campo del effectos benefic de virus.

Recercas de Cancere.—Es reportate per Dr. W. T. Szybalski del Instituto Rutgers pro Microbiologia que cellulas tractate con 5-bromodisoxuridina deveni sensibilissime al effectos destructori de irradiation ionisante. In plure experimentos cellulas tractate con le mentionate agente chimic esseva destruite per un irradiation de un fortia de non plus que un decimo del fortia requirite pro destruer cellulas de controllo non assi tractate. Iste constation deveni importantissime pro le canceroterapia proque 5-bromodisoxuridina es un substantia que se fixa preferentialmente in cellulas in stato de proliferation, incluse—evidentemente—le cellulas de histos cancerose.

Recercas de Cancere.—In un studio del familias de 228 patientes con cancro del prostata, Dr. Ch. M. Woolf del Universitate Utah ha constatate un frequentia de morte per le mesme morbo amontante a tres vices le correspondente frequentia in un gruppo de controllo simile in sexo, etate, e provenientia geographic. Etiam altere conceres esseva anormalmente frequente in le familias studiate, sed iste predominantia non esseva statisticamente significativa. Il pare sequer que cancro del prostata es co-conditionate (ben que non directemente causate) per factores genetic. Simile constationes ha essite facite per altere auctores con respecto a cancro mammari e cancro del stomacho.

Oceanographia.—Dr. G. Khundzhua del Universitate Moscova ha construite un apparato que registra simultaneamente, continuamente, e con un altissime grado le accurata le salinitate e le temperature del aqua in que illo es submergite e le distancia del loco de registration ab le superficie. Le aparato ha essite usate con bon successo a 18 stationes durante un recente expedition antarctic. Illo ha le belle nomine de bathythermosalinographo.

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GENERAL SCIENCE

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