

SCIENTIA INTERNATIONAL

NOVAS DEL MENSE IN INTERLINGUA

► **Psychologia Animal.**—Medicos al hospital del Universitate Pennsylvania ha inducite asthma in porcos de India per (1) render los allergic a albumine e (2) fortiar los a respirar un nebula de albumine intra un cassa hermeticamente claudite. Le asthma del porcos de India esseva multo simile al asthma de humanos, tanto in su aspecto clinic como etiam in su symptomata roentgenologic e laboratorial. Le plus remarcabile observation in iste experimentos esseva que le attaccos de asthma continuava occurrer in precise mente le mesme forma quando le animales esseva ponite in le previevemente usate cassas sub exclusion del nebula de albumine.

► **Aviation Militar.**—Le Fortia Aeree del Statos Unite ha disveloppate un specie de pasta que es applicate al superficie exterior de aeroplanos con le effecto que illos es rendite practicamente indetegibile per radaroscopios. On crede que le russos possede jam un simile substantia.

► **Immunologia.**—Dr. Marta Vojtkova del Instituto de Biologia del checoslovac Academia de Scientias ha succedite a reducer le "reactivitate immunologic" inter pintadas e gallinas per alimentar e injicer prolongate cursos de doses crescente de sanguine ab individuos de un del duo species a individuos del altere. Le resultado esseva le possibilitate de fertilisation cruciate inter le species. In quatro casos un hybrida gallina-pintada ha supervivite usque al maturitate.

► **Recercas de Tuberculose.**—Studios relative al organismo pathogene de tuberculose, nunc in progresso al Universitate California, labora con un virus bacteriophage que destrue le agente causal de tuberculose in vitro sed non in vivo. In vitro le virus se attacha al bacterio e injice in illo su contenido de acido nucleic. Isto pare fortiar le bacterio a reproducer le virus si abundantemente que illo (i.e. le bacterio) erumpe e perde omne su virulentia. Le action del virus etiam rende le bacterio plus sensibile al effecto de enzymas e de vibrationes sonic. In vivo le bacterio pare esser protegite contra le action del virus per factores in le sero sanguinee e in altere fluidos del corpore.

► **Recercas de Cancere.**—Un gruppo de recercatores britannic ha definitivamente demonstrate que fumo de tabaco "in stato de nascentia" contine grande numeros de radicales libere le quales dispare si tosto que le temperatura del fumo es abassate. On ha repetitemente exprimito le suspicion que il es le radicales libere in le fumo de tabaco e non le fumo per se que es le ver agentes cancerogene, sed usque nunc le presentia de radicales libere in fumo de tabaco esseva solmente un supposition.

► **Ostreicultura.**—Dr. J. A. Aboul-Ela del instituto oceanographic del Universitate Cairo ha constatate que forte doses de lumine ultraviolette destrue multes del vermes, bacterios, e fungos que representa un peste costose in quasi omne parcos de ostreicultura. Le ostreas mesme non es afficite per iste tractamento.

► **Mettallurgia.**—Un gruppo de recercatores del Corporation Kennecott Copper ha recipite un patente pro le utilisation de microbios de character metallophylic in le extraction de cupro ab aquas residuari.

► **Piscicultura.**—Juvene salmones in bassinos de piscicultura suffre adustion solar con quasi le mesme symptomata como humanos, i.e. le formation de vesiculas e le perdita del pelle.

Recercatores del statounitese Servicio de Piscicultura ha constatate que le salmones es hypersensibile al effecto del insolation solmente quando lor dieta es deficiente in niacina. Supplementos de niacina protege le salmones contra le adustion solar e mesmo restabli salmones jam adurite.

► **Technologia.**—Le facto que pedunculos de banana es difficile a comburer ha ducite al descoberta que illos contine un mineral a forte virtute ignifuge. Iste mineral, que pare consisti super toto de carbonato de kalium, promitte devenir practicamente importante in le impregnation anti-incendiari de ligno e altere materiales in que un reduction del combustibilitate es frequentemente desirabile.

► **Satellitologia.**—Le varie satellites russe e american nunc in orbita ha sin dubita augmentate le fundo del cognoscentias human in re radios cosmic, micrometeorites in le spatio vicin al terra, le temperatura al margine del atmosphaera terrestre, e multe altere themas e problemas. Le russos ha non ancora comenciate publicar lor observationes, e il es non ancora cognoscite in qual campo o qual campos illos es le plus importante. In omne caso, informationes de importantia pro le determination plus precise de distantias al superficie del terra non pote esser expectate ab le observation del sputniks e non ab le observation del satellites american, con le sol exception del satellite "Vanguard." Isto es usque nunc le sol satellite completamente spheric, e calcular le retardo del curso de un satellite como effecto del friction—a calculation que es indispensable in le application de observationes satellitic a mesurationes de distantias al superficie terrestre—es practicamente impossibile in le caso de satellites non-spheric.

► **Psychologia.**—Dr. C. H. Graham e Dr. Yun Hsia del Universitate Columbia reporta le descoberta de un juvene femina con achromatopsia unilateral. Le caso es importante proque hic pro le prime vice on pote obtener ab le mesme subjecto un description de vision normal e de vision achromatic.

► **Ingenieria.**—K. D. Ofer e J. Giladi del Instituto Technologic de Haifa in Israel ha construite un refrigerator que es activate exclusive mente per le energia de un collector de radiation solar.

► **Recercas de Cancere.**—Experimentos al Instituto National de Cancerologia a Bethesda in Maryland ha monstrate que injectiones de medulla ossee in muses ha le duple effecto (1) de proteger los contra le injurias de irradiation ionisante del corpore total—a constation non inexpectate proque de accordo con studios publicate jam plure annos retro—e (2) de promover, in le muses recipiente le injectiones, le disveloppamento de tumores maligne. Experimentos additional monstrava que muses tractate con medulla ossee ab muses de altere racias moriva intra inter 21 e 90 dies, durante que muses tractate con medulla ab donatores del mesme racia haveva un supervivencia non multo inferior al supervivencia de animales de control.

► **Hypnose.**—Le metabolismo de glycogeno in le cerebro de subjectos human e animal differe characteristicamente inter le stato eveliate e le stato dormiente. In experimentos con rattos, Dr. D. Svorad del Checoslovac Academia del Scientias ha trovate que in le respecto mentionate, sonio e hypnose es identic. Le duo resulta probabilemente de un simile inhibition cerebral.

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GENERAL SCIENCE

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