

# SCIENTIA INTERNATIONAL

## NOVAS DEL MENSE IN INTERLINGUA

**Anthropologia.**—Es estimate per Dr. J. E. Ebert del Institution Carnegie de Washington que plus que cinque pro cento del humanos es frappate con le un o le altere malformation physic. Le notion que le specie human es physicamente "quasi perfecte" pare esser un illusion.

**Poliomyelitis.**—In juveniles de etate preschoolari, tests al Schola Medical Yale ha resultate in le constatation de un efficacia superior del vaccino antipoliomyelitic oral de Sabin in comparation con le vaccino de injection de Salk. Post un o plus injectiones secundo Salk, 22 pro cento del subjectos habeva nulle anticorpo antipoliomyelitic del toto in lor sanguine, e inter 39 e 57 pro cento non habeva le complete serie de anticorpos contra le tres recognoscite typos de virus de poliomyelitis. Post vaccination oral secundo Sabin, nulle caso de absentia total de anticorpo esseva notate, e un del tres anticorpos mancava solmente in 5, 2, e 13 pro cento, respectivamente. Effectos adverse del vaccino Sabin non esseva incontrate. Le numero del subjectos studiate esseva 350.

**Influenza.**—Vinti-cinque scholas de Tokio in Japon es currentemente claudite a causa de un epidemia de influenza. In le Insulas Britannic, 1500 mortes ab influenza asian esseva reportate pro januario. Usque nunc le Status Unite es non afficite, sed le saison le plus riscose non se termina ante le fin de martio. Inter octobre 1957 e martio 1958, influenza asian causava un excesso de 60.000 mortes in le Status Unite. Le epidemia de 1960 causava un excesso de 26.000 mortes.

**Geophysica.**—Accuratissime photo-observationes de satellites meteorologic ha resultate in le apparente prova que le equator del terra non es circular sed elliptic. Le diametro equatorial ab un puncto vicin al extremitate orientale de Brasil ad un puncto supra Australia orientale pare esser quasi un medie kilometro plus longe que le diametro equatorial ab un puncto infra California del sud ad un puncto infra Iran. Le causation del ellipticismo equatorial remane un question mysteriose e controversa.

**Atomica.**—Le proponimento, frequentemente audite, de deponer al fundo del oceano le radioactive rejets residue ab fabricas de energia nucleari non es acceptabile in vista del facto que un japonese expedition oceanographic ha constatate que il existe detegibile, ben que lentissime, currentes de aqua mesmo in le plus profunde profundores oceanic.

**Anthropologia.**—Un correlation inter certe typos de forma artistic e certe aspectos del organisation social in que ille typos formal esseva disveloppate pote esser postulate secundo recercas planate e executate per Dr. J. L. Fischer del Universitate Tulane. Le prevalencia de un repetitive e symmetric simplicitate formal del arte corresponderea a un societate de organisation hierarchic. Le prevalencia de formas curvate in le arte corresponderea a un societate polygynic. Formas rectilinee esserea preferite in societates monogynic. Si iste typo de interpretation socio-physiognomic del formas artistic prova su validitate e pote esser systematisate, illo va esser de grande utilitate in le studio de populos prehistoric pro le quales nulle documentation sociologic sed solmente productos artistic es disponibile.

**Psychophysiologicalia.**—Le limine pro le perception de dolor es abassate quando le altere sensos (vision, audition, etc.) es inactivate (per le elimination de omne stimulo.) Isto esseva constatate per Dr. Th. E. McGill del Collegio

Williams per mesurar le limines del perception de dolor in un gruppo de studentes ante e post lor seclusion durante quatro dies in un camera silente e obscur.

**Technica Medical.**—Chirurgia sin guantos de caucha deveni possibile per le detersion del manos in un solution exponite a vibrationes ultrasonic.

**Satelliteria.**—Currentemente 35 objectos de origine terrestre (e artificial) revolve in orbita circum nostre planeta. Le serie include 16 satellites statounitese, 1 satellite russe, e plure "morte" corpores de rochetta e altere ferialias astronautic.

**Biologia.**—Il pare que le diurne rhythmos biologic in plantas e animales non depende del rotation del terra. In experimentos conducite al statounitese station de observation al polo del sud, fabas e fungos e hamsters e muscas drosophile non manifestava ulla alteration del rhythmicitate de lor comportamento involuntari quando illos esseva mantenite super platteformas giratori, le quales—per lor motion circular—eliminava o reduplava le rotation del axe del terra. Le resultados negative de iste experimentos lassa intacte le ancian question de si le rhythmos in question depende de factores metabolic al interior del organismo o de factores extranee.

**Enzymologia.**—Le structura molecular del enzymas incontrate in un pluralitate de species animal o vegetal es nunquam completamente identic in le varie species concernite. Il para que le structura molecular de un enzima ha aspectos "non-critic" e aspectos "critic," i.e. characteristics que pote esser alterate e alteres que non pote esser alterate sin perturbar le functiones catalytic que le enzima servi. Investigationes systematic in iste campo de recerca biologic es currentemente in progresso al laboratorio de Drs. J. Paul e P. F. Fottrell de Glasgow, Scotia. Le technicas usate es illos del electrophoresis e del chromatographia. Le constatationes del duo mentionate enzymologos scote es del plus alte interesse ab le puncto de vista de un "theoria de evolution" in le architectura del moleculas organic.

**Poliomyelitis.**—In Grande Britannia, le currente declino del incidentia de poliomyelitis es tanto dramatic como in le Status Unite. Le anno 1960 es le prime de post plus que un decennio in que le numero del reportate casos de poliomyelitis in Grande Britannia esseva infra un mille. Le total esseva de facto solmente 516 casos, incluse 34 que esseva mortal. Le anno precedente (1959), le correspondente cifras esseva 1, 326 e 86. In 1958, le cifras esseva 2,315 e 147.

**Recercas de Cancere.**—Esseva demonstrate per Dr. Ludwik Gross de New York que virus de leucemia obtenite ab muses es capace—sub certe conditiones—a causar leucemia in rattos. Dr. Gross ha etiam demonstrate que un virus que es capace—sub certe conditiones—a causar leucemia myeloide se monstra capace—sub certe altere conditiones—a causar leucemia lymphatic.

**Economia de Aqua.**—Dr. K. O. Munnich de Heidelberg in Germania propone estimar le disponibile quantitates de aqua in un territorio particular per determinar le etate del aqua subterranean. Iste etate es determinabile per medio del technica a carbon-14. Si le aqua subterranean es juvene, le provision de "nove" aqua in le territorio es obviamente abundante. Si le aqua subterranean es ancian, le provision de "nove" aqua in recente tempores ha evidentemente non essite sufficiente pro penetrar usque al profundor usate in le test.

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### GENERAL SCIENCE

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