

# SCIENTIA INTERNATIONAL

## NOVAS DEL MENSE IN INTERLINGUA

► **Medicina Experimental.**—Drs. A. F. Rasmussen, J. T. Marsh, e N.Q. Brill del Universitate California reporta que in experimentos con muses stress emotional produceva augmentate grados de susceptibilitate a infectiones per le virus de herpete simplice. Le stress esseva applicate in le forma de choc electric o confinamento in un sacco de filo metallic.

► **Physica Atomic.**—Le periculo cancerogene de strontium-90 in le skeleto human deveni acute—secundo le conception nunc generalmente acceptate—a un nivello de 100 micro-microcuries per gramma de calcium. Un studio de 1000 specimens de osso human, colligite per 30 stationes in omne partes del mundo, ha revelate (1) que si tests atomic es continuata al intensitate currente, strontium-90 in le skeleto human va attinger duo vices le nivello permmissible in le anno 2100, (2) que si le tests es arrestate immediate, le strontium-90 jam propellite a in le spatio circumterranee va continuar descendere lentamente e attinger in le skeleto human un nivello quadruplicate in 1977, ancora non plus que un micrissime fraction del valor permmissible, (3) que personas nunc de etate adulte absorbe quasi nulle strontium-90 proque lor skeletos se renova con un rapiditate de non plus que un o duo pro cento per anno, e (4) que le distribution geographic del periculo de strontium-90 es satis uniforme in despecto del facto que le tests atomic es plus o minus localisate.

► **Climatologia.**—Le cauda de muses deveni plus longe si le animales es elevate sub conditiones de alte temperatura. Lor peso decresce. Isto esseva observate in experimentos controlate, executate per Dr. M. A. El-R. Ashoub del Universitate Cairo.

► **Meteorologia.**—Le studio de grande volumines de aere colligite al summitates del montes Mauna Loa e Haleakala in Hawai ha ducite Dr. H. Petterson del Universitate Hawai al conclusion que le atmosphaera del terra contine plus que 26,000,000 tonnas metric de pulvere de origine meteoric. Omne duo annos—dice le autor mentionate—le micrometeorites in le atmosphaera se renova completamente. Isto significa que 13,000,000 tonnas de materia cosmic se deponne annuamente super le terra.

► **Textiles.**—Le firma italian Montecatini reporta que super le base de recercas per Prof. G. Natta del departamento de chimia industrial al Instituto Polytechnic Milano, illo ha perfectionate un nove fibra artificial que se comporta como lana, que es hydro-repellente como nylon, que pote esser repassate a alte temperaturas, e que es minus costose que omne le altere nunc existente textiles synthetic. Le nove fibra va esser lanceate al mercato in circa un anno. Su nomine va esser Moplen. Su materia prime es un nove plastic, identificate como polypropylene isotactic.

► **Zoologia.**—In le curso de 23 septimanas de hibernation, un adulte tortuca feminin—observate per T. J. Hunt del Societate Zoologic de London—regenerava le osso e le carne de un portion mancante de su mandibula inferior. Le caso es remarcabile proque usque nunc il esseva generalmente supponite que un tal regeneration require un augmento del temperatura corporee.

► **Phonetica.**—Super le base del labores de un gruppo de experimentatores francese, Dr. Esti D. Freud—filia affin del defuncte Dr. S. Freud—ha avantiate le theoria que le chordas vocal vibra in responsa a impulsos cerebro-neural e non in consequentia del passage de currentes de aere per le larynge. Le function del aere es solmente transportar sed non generar le sonos vocal. Le experimentos mentionate pare haber

demonstrate que le chordas vocal pote vibrar in le absentia de currentes de aere sed non in le absentia de un certe nervo in le larynge.

► **Drogas Tranquillizante.**—Al Laboratorios de Recerca Horner a Montreal in Canada, catts esseva tractate con certes del si-appellate drogas tranquillizante post que illos haveva essite conditionate (per le application de un choc electric) a abstinere se ab capturar muses presentate a illos. Le effecto del drogas esseva le complete elimination del conditionamento. Le catts recomendava capturar muses in despecto del choc electric. Illos sentiva le choc de maniera normal, sed le sensation pareva esser sin interesse pro illos.

► **Vitaminologia.**—Drs. E. J. Adair e H. S. Vishniac del Universitate Yale reporta que le fungo marin *Thraustochytrium globosum* es un excellente organismo laboratorial pro essayos del contento de vitamina B-12 in aqua marin. Illo es le prime fungo in que le requiremento de vitamina B-12 ha essite constatate. Illo non pote synthetisar lo e se distingue ab altere organismos usate in simile experimentos per le facto que illo non accepta substantias analoge in loco del vitamina.

► **Anthropologia.**—Secundo le studios de Dr. E. E. Hunt del Universitate Harvard, le hodieerne studentes a ille institution es plus alte, plus muscular, e minus obese que lor patres esseva al mesme etate. Le studio indica etiam que in le generation del filios le periodo de rapide crescentia occurre a un etate plus juvene e que le altor final es plus grande. Simile studios executate in Anglaterra constatava similemente que le acceleration del crescentia del filios occurreva a un etate plus juvene que in le patres, sed in Anglaterra le altor finalmente attingite esseva equal pro ambe generationes.

► **Genetica.**—Graffos cutanee ab un animal a un altere resulta in reactiones antigenic que pote esser mesurate per lor effecto super le numeration leucocytic. Dr. J. E. Berry del Collegio Statal Kansas a Manhattan specula que basse intensitates del reaction antigenic in graffos cutanee indica alte grados de consanguineitate del animales concernite e vice versa. Dr. Berry crede que le studio de graffos cutanee ha un function importante in le elevage scientific de bestial. Le intensitate del reactiones antigenic indica le grado de consanguineitate de duo animales, e isto pote servir como base pro le prediction del caracteristicas de lor progenie.

► **Recercas de Cancere.**—Le reimpiamento de esophagos cancerose per aortas human (obtenite ab un "banca de arterias") ha essite effectuate con bon successo in duo casos per Dr. J. Pressman del Universitate California. Post su transplantation le aorta serviva como base de un processo de reconstruction organic. Illo mesme esseva lentamente absorbite e eliminate.

► **Chirurgia.**—Le firma Ethicon de New Jersey emplea un forma de energia atomic pro le sterilisation de filios de catgut que es destinate al uso in suturas chirurgic. Un bombardamento de electrones de alte velocitate destrue omne bacterios in le filios jam incapulate sed non cambia lor structura molecular e non produce ulle radioactivitate in illos.

► **Recercas de Cancere.**—In muses, alte grados de immunitate contra un specific tumor cancerose esseva effectuate per le injection de extractos ab le mesme typo de crescentia morbide. Le injectiones contineva nulle cellulas intacte. Iste constatation es reportate per Dr. A. B. Novikoff de New York. Dr. Novikoff non vide un application immediate de su descoberta al therapia de cancro in humanos.

Science News Letter, February 22, 1958

### GENERAL SCIENCE

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Science News Letter, February 22, 1958

### ZOOLOGY

## Blood Tests Show Animal Relationships

► **THE FAMILY** cat may not be as closely related to the tiger in the zoo as has been believed.

Using a number of different blood sera tests, scientists have shown that the cat might even belong to a different genus than do the tiger and mountain lion. Strangely enough, however, the cheetah, a fast-moving, spotted feline, is closely related to the cat, showing a 76% relationship while the tiger showed only a 50% relationship.

In other antisera tests made to determine the relationship between the cat and other animals outside its family, "extremely weak" relationships were found with all but the hyena.

A sampling of carnivores or meat-eaters were tested in the experiment and some unexpected results reported. Black bear antiserum gave higher cross-reactions with sea lion antigen than it did with raccoon, red fox and skunk. This indicates a closer relationship between the bear and sea lion than is shown in present classification systems. There is also some evidence that the black bear and polar bear may be more closely related.

Ludwig K. Pauly and Harold R. Wolfe, department of zoology, University of Wisconsin, report results of their research in *Zoologica* (Dec. 31, 1957), published by the New York Zoological Society. Changes and clarification in the system currently used to classify the order Carnivora could be made, they report, on the basis of further, more detailed serological studies.

Science News Letter, February 22, 1958

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