

# SCIENTIA INTERNATIONAL

## NOVAS DEL MENSE IN INTERLINGUA

► **Recercas de Cancere.**—Correlationes statistic inter le fumar de cigarretas e cancere pulmonar e tuberculose esseva establite per Drs. R. Doll e A. B. Hill del britannic Consilio del Recercas Medical. In 1951 le duo doctores distribuava un questionario inter 40.000 medicos del Commonwealth Britannic pro colliger informationes in re lor habitudes fumatori. Cinque annos plus tarde illes trovava que le mortalitate ab cancere pulmonar habeva esse significativamente plus alte inter fumatores de cigarretas que inter fumatores de pipa e non-fumatores. Le mesmo valeva pro tuberculose e etiam pro ulceres gastric e bronchitis chronic.

► **Agronomia.**—Un curiose methodo pro mesurar le grassia de porcos (e altere bestial) ante lor morte es reportate pro scientistas del statunitense Departamento de Agricultura. Illes ha constatate que le duration del somnio que resulta ab le injection de certe dormitivos es indirectemente proportional al contento de grassia in le animales individual.

► **Physiologia Cerebral.**—Le theoria del localisation del functiones cerebral debe esser modificate in le lumine de nove observationes per Dr. J. C. Lilly del statunitense Instituto National de Sanitate Mental a Bethesda in Maryland. In experimentos con simias, Dr. Lilly stimulava un multiplicitate de sitos cerebral pro medio de minusculissime electrodos que ille habeva permanentemente implantate. Assi ille poteva constatar que il existe nulle area cerebral con functiones exclusive sensori. Omnes combina functiones motori e sensori.

► **Agronomia.**—Es reportate ab London que experimentos del Britannic Instituto National pro Recercas de Lacteria ha demonstrate que lacte congelate in saccos de plastic pote esser immagasinate durante periodos de usque a deveduo menses sin ulle notabile alteration de gusto.

► **Expeditiones.**—Le lupo de Tasmania es un marsupiato. Su nomine scientific es *Thylacinus cynocephalus*. Vulgarmente illo es cognoscite como tigre tasmanian. Su apparentia rememora can, kanguru, e tigre. Illo es un predator de oves. In le curso del passate vinti annos nulle specimen de illo ha esse identificate con certitudine. Illo es protegitte per fortia de lege. Nunc un agencia governmental de Tasmania ha organisate un expedition pro determinar si le "tigre tasmanian" es extincte o si illo existe ancora.

► **Microscopia.**—Le studio del structura de cellulas vegetal per microscopia electronic o luminar requireva usque nunc le separation preparatori del cellulas individual pro medio de acidos que non remaneva sin effecto destructori super le objecto a studiar. Un melior methodo pro le separation de cellulas vegetal se servi del effecto de undas ultrasonic. Dr. F. M. Scott del Universitate California, qui ha disveloppate iste methodo, reporta excellentes resultados effectuate pro medio de illo in le studio de cellulas epidermic de cepas.

► **Cardiologia.**—Ante 1945 le superviventia probabile de infantes nascite con cyanosis non excedeva le maximo extreme de vinti annos. Depost 1945 tal infantes pote esser normalisate per interventiones chirurgic. Es reportate le quarte caso de un femina qui esseva assi tractate in su infantia e qui nunc ha devenite matre sin ulle incidentia adverse.

► **Cardiologia.**—Relativamente leve exercitios in un atmosphaera calide e humide representa un plus grande effortio pro le corde que forte exer-

citios in un atmosphaera de moderate grados de temperatura e humiditate. Isto esseva demonstrate per Drs. G. E. Burch e A. Hyman de New Orleans. In le plus frappante de lor experimentos, le duo doctores observava le volumine-minuta del corde in patientes cardiac e individuos normal (sin ulle exercitio) durante le cambiamento del temperatura ab 23 a 44 C e del humiditate relative ab 60 a 86 pro cento. Le normales augmentava lor volumine-minuta per inter cinque e vinti litros, le patientes cardiac per inter cinque e dece litros.

► **Insecticidas.**—Le statunitense Administration de Alimentos e Drogas annuncia que in le futuro plus stricte regulationes debe esser applicate al uso del insecticidas de phosphato organic. In studiar le nocivitate de un par de typic insecticidas del genere mentionate, on ha constatate que illos se potentia mutualmente: Le un comenciava afficer un can quando illo se trovava in su alimentos in un concentration de 50 pro million. Pro le altere le correspondent concentration esseva 250 pro million. In combination le duo insecticidas attingeva le mesme effecto in concentrationes de 20 e 100 pro million, respectivamente.

► **Agronomia.**—In terras ben irrigate, le supplementation de kalium in le forma del fertilisantes standard es pauco satisfactori a causa de su alte solubilitate in aqua. Le problema ha esse superate per un gruppo de scientistas del Universitate California. Illes usa le kalium in le fabrication de vitro e usa le vitro in forma pulverisate como fertilisante.

► **Physiologia.**—Reserpina, le ben-cognoscite agente tranquilisante, se ha monstrate capace a supprimer le cyclo mensual de simias feminin durante periodos de usque a 140 dies. Le experimentos in question esseva executate al Universitate Illinois. Le doses requirete es si grande que le uso de reserpina como agente anticonceptional in humanos non es possibile.

► **Aviation.**—Le fortia aeree de Australia se ha declarete preste (e honorate) a participar in le transporto del Torcha Olympic ab Athenas a Cairns in Nord-Queensland. Inter Porto Darwin e Cairns on plana transportar le torcha in un avion a reaction a un altitude de circa 15 km. Pro executar iste projecto il va esser necessari isolare le torcha hermeticamente in un cabina special ubi illo pote esser mantenite vive par un specie de "respiration artificial." A 15 km de altitude nulle torcha—Olympic o altere—pote subsister sin oxigeno supplementari.

► **Geologia Petroleari.**—Le detection de nove depositos de petroleo va profiter de un recentemente patentate methodo que examina specimens de aqua sub lumine ultraviolette e es capace a notar le presentia de benzina in un solution de 1 a 1.000.000. Le presentia de benzina in un curso de aqua prova que le aqua ha venite ab le vicinitate de stratos oleofere.

► **Agronomia.**—Secundo un guida publicate per le Universitate California, agentes chimic de defoliation de coton non solo simplifica le collection sed etiam realita le qualitate del coton per exponer le fibras immatur al sol, per reducer le devastation per certe insectos, e per eliminar le immixtura de folios in le producto final. Le agentes defoliative es applicate per avion o per machineria terrestre. Illos es specialmente efficace si illos es applicate sub alte temperaturas e si le gruppation del plantas es regular e uniforme.

Science News Letter, November 24, 1956

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Science News Letter, November 24, 1956

## SCIENCE NEWS LETTER

VOL. 70 NOVEMBER 24, 1956 NO. 21

The Weekly Summary of Current Science, published every Saturday, by SCIENCE SERVICE, Inc., 1719 N St., N.W., Washington 6, D. C., NORR 7-2255. Edited by WATSON DAVIS.

Subscription rates: 1 yr., \$5.50; 2 yrs., \$10.00; 3 yrs., \$14.50; single copy, 15 cents, more than six months old, 25 cents. No charge for foreign postage.

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Printed in U. S. A. Entered as second class matter at the post office at Washington, D. C., under the act of March 3, 1879. Acceptance for mailing at the special rate of postage provided for by Sec. 34.40, P. L. and R., 1948 Edition, paragraph (d) (act of February 28, 1925; 39 U. S. Code 283) authorized February 28, 1950. Established in mimeograph form March 13, 1922. Title registered as trademark, U. S. and Canadian Patent Offices. Indexed in Reader's Guide to Periodical Literature, Abridged Guide, and the Engineering Index.

Member Audit Bureau of Circulation, Advertising Representatives: Howland and Howland, Inc., 1 E. 54th St., New York 22, Eldorado 5-5666, and 435 N. Michigan Ave., Chicago 11, Superior 7-6048.

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