

SCIENTIA INTERNATIONAL

NOVAS DEL MENSE IN INTERLINGUA

► **Psychologia Animal.**—Scientistas al Universitate California ha trovate que rattos con alte grados de intelligentia habeva plus alte niveles de activitate de cholinesterase in le cerebro que rattos con basse grados de intelligentia. Experimentos genetic provava que le relation inter intelligentia e cholinesterase non es simplemente linear. Le scientistas in question specula que le factor a studiar in iste connexion es possibilmente le balancia inter cholinesterase e acetylcholina plus tosto que le concentration de cholinesterase per se.

► **Astrobiologia.**—Le conviction del famos astronomo Dr. Harlow Shapley que il existe al minus cento milliones corpores celeste capace a supportar un forma de vita non fundamentalmente differente del nostre esseva citate per le chimico Dr. Melvin Calvin in un conferentia in que ille disveloppava le idea que le vita es un factor generalmente cosmic e non un accidente trivial que interessa solmente un sol planeta de dimensiones assolutamente negligibile. Si le vita—specificamente le vita human—ha alterate le character del terra, plus profunde effectos del vita pote (e debe) esser supponite in le caso de altere corpores celeste.

► **Dentisteria.**—On estima que in americanos de plus que 35 annos de etate, morbos periodontal—i.e. morbos non del dentes mesme sed del structuras que supporta le dentes—resulta in extracciones cinque vices plus frequente que illos casate per carie dental.

► **Contamination Radioactive.**—Cornos de cervos pare esser un excellente base pro mesurationes del contamination del terra per precipitate particulares radioactive. Duo scientistas de Glasgow in Scotia ha mesurate le radioactivitate de strontium 89 e strontium 90 in le cornos de un cervo occidite in 1952 e de un altere occidite in 1957. Un crescentia decuple del radioactivitate de strontium esseva assi constatate pro le mentionate intervallo cinqueanne. In 1952, ille radioactive amontava a 11,2 micro-microcuries per g de calcium; in 1957, a 126. Un tenue section del corno de 1957 produceva un clar autoradiogramma. Nulle tal esseva obtenibile ab le specimen de 1952.

► **Astronavigation.**—On sape que algas ha un rolo importante in omne speculationes relative al "claudite systema de alimentacion" in futur naves de viage cosmic. On ha proponite considerar le possibilitate de variar le dieta del futur astronautas per includer animales algivore in le cyclo del systema. Assi on poterea promitter al astronautas, post lor suppa de algas, un dessert de limaces.

► **Statistica Medical.**—In comparar le statistica medical de 1957 con illo de 1952 in le Statos Unite, on ha constatate (1) marcate reductiones del incidentia de diphtheria, encephalitis, hepatitis, malaria, poliomyelitis, trichinosis, tuberculose, e febre typhoide, (2) nulle alteration significative in le incidentia de dysenteria, febre rheumatic, tetano, infection meningococcal, e morbos venere, e (3) un marcate augmento del infectiones streptococcal e de amebiasis—amontante a quasi 100 pro cento in le prime e a 36 pro cento in le secunde caso.

► **Radiation Ionisante.**—Esseva calculate que un pilota qui vola 1000 horas per anno a un altitude de 10 km recipe un irradiation "natural" de approximativemente duo vices le quantitate que es normal al superficie del terra. Pilotas volante tante horas a tal altitudes va devenir de plus in plus numerose con le disveloppamento del aviation commercial a motores de reaction. Le mentionate augmento de irradiation—attinente forsan 250 millirad—essera ancora multo

infra le maximo permissible, secundo le corrente conceptiones.

► **Physiologia del Sentos.**—In excidite oculos animal, le generation de micrissime amontas de electricitate esseva constatate in le presentia de un forte stimulo luminar. Le experimentos ducente a iste constatation esseva effectuate al Universitate Ohio como parte de un investigation general del mecanismos biophysic de omne le "cinque" sentos.

► **Antibioticos.**—Al Hospital St. Mary's a London on ha trovate que le penicillinas—specialmente le penicillinas a action relentate—perde progressivamente lor efficacia contra le organismos que es la causa de gonorrhoea. Iste organismos es cognoscite como gonococcus. In recente tests, le gonococcus se provava penicillino-resistente in 9,8 pro cento del pacientes negre e in 5,6 pro cento del pacientes de racias blanc.

► **Television.**—Le Compania General Electric ha perfectionate un camera de television capace a obtener clar imagines in le presentia de un lumine si debile que le oculo human, con su adjuta, vide solmente le plus vage contornos. Un incende-cigarrettas in un satis grande sala es typic como exemplo. (Iste disveloppamento ha nihil a facer con le uso de lumine infrarubie in le prension de imagines de television.)

► **Chirurgia Plastic.**—Al Universitate Wisconsin, reconstruction de punctas del naso ha essite effectuate con graffos prendite ab le lobos auricular. In graffos destinate a esser implantate in le naso, le obvie desideratos include absentia de capillos e similitude de color. Le lobos del aure (del patiente mesme) es ideal in ambe iste respectos.

► **Antibioticos.**—Le efficacia del antibiotico bacitracina es augmentate—in certe casos mesmo quadruplicate—per le addition de zinc. Iste constatation esseva facite per recercatores al Universitate Indiana. Bacitracina es usate in combatter infectiones sed principalmente in promover le crescentia de bestial de consumo.

► **Antibioticos.**—Un nove antibiotico—preste a esser lancate al mercato sub le nomine de vancomycina—es promittentissime in le lucha contra infectiones staphylococcal. In extense tests, nulle caso esseva trovate in que staphylococcus habeva devenite resistente a vancomycina. Le base del nove agente es un mucor trovate al interior de Borneo.

► **Intoxication Alcoholic.**—Le Committee pro Problemas Medicolegal intra le Association American Medical reporta su recommendation que un individuo deberea esser considerate como intoxicate si le contento de alcohol in su sanguine excede 0,15 pro cento. Le committee etiam recommenda que un contento de alcohol de minus que 0,05 pro cento in le sanguine deberea esser ignorate ab le puncto de vista medicolegal. Iste e altere recommendationes es basate super investigationes que ha monstrate que le quantitate de alcohol consumite e mesmo le relation inter iste quantitate e le massa del corpore del subjecto in question non determina su intoxication. Le sol factor importante in iste respecto es le absorption de alcohol in le sanguine. Nunc, iste factor varia grandemente ab un individuo al proxime, sed—del altere latere—un facto multo suprendente que esseva establite per le committee es que practicemente le mesme concentration de alcohol in le sanguine es responsabile pro le mesme grado de intoxication in diverse subjects.

► **Ingenieria.**—Nove Zelanda ha in servicio su prime installation de generation electrodynamic que utiliza le energia de geysers natural.

Science News Letter, November 29, 1958

GENERAL SCIENCE

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Financial contributions to the Interlingua program are needed.

Science News Letter, November 29, 1958

SCIENCE NEWS LETTER

VOL. 74 NOVEMBER 29, 1958 NO. 22

Edited by WATSON DAVIS

The Weekly Summary of Current Science, published every Saturday by SCIENCE SERVICE, Inc., 1719 N St., N.W., Washington 6, D. C., NORTH 7-2255. Cable Address: SCIENSERVIC.

Subscription rates: 1 yr., \$5.50; 2 yrs., \$10.00; 3 yrs., \$14.50; ten or more copies in one package to one address, 7½ cents per copy per week; 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, 1897. 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.



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