

SCIENTIA INTERNATIONAL

NOVAS DEL MENSE IN INTERLINGUA

► **Medicina.**—Un gruppo de scientistas australian ha apparentemente trovate un solution del problema de como le droga isoniazido exerce su famose effecto benefic super tuberculose. Illo non affice le germes directemente sed solmente post combinar se con un metallo in un composito del typo cognoscite como chelatos. Le chelato de isoniazido e cupro se monstrava multo destructive pro germes tuberculotic, tanto in vitro como etiam in animales experimental. In iste forma le droga es extrememente toxic, e on suppose que in le corpore human isoniazido non se combina con cupro sed con un altere metallo que es non ancora identificate.

► **Physiologia.**—Dr. S. F. Cook del Universitate California ha observate dece-duo consecutive generationes de muses a un altitude de 3300 m e sex generationes in un camera a pression reduce que simulava un altitude de 5000 m. Le masculos deveniva plus o minus sterile, sed alteramente illes remaneva relativemente normal. Le femininas se degenerava plus generalmente. Illas abortava frequentemente, e le crescentia del prole esseva retardate. Post renormalisar le pression atmosferic del ambiente, Dr. Cook trovava que su muses reatingeva un quasi complete normalitate intra un sol generation.

► **Agronomia.**—Insectos del genere *Coccinella* es importate ab India a Florida pro assister le agri- e horticultores de ille stato nord-american in lor lucha contra aphides e altere pestes destructive de fructos e vegetales. Le specie *Brunus* ha jam provate su valor. Nunc on experimenta con *Chilomenes* que ha un duration de vita de solo septe septimanas sed que pote reproducer se rapidissimemente e que se distingue per un enorme voracitate. On ha trovate in experimentos laboratorial que un sol individuo de iste genere devorava 16.321 aphides in le curso de sex septimanas.

► **Medicina.**—Le alimentation via tubos que descende a transverso le esophago usque al stomacho o mesmo al intestinos es grandemente simplificate per un typo de pompa disveloppate per Dr. J. Barron de Detroit. Le pompa pote ralentar le intubation de un litro de alimento de maniera que illo require usque a dece horas o pote accelerar le processo de maniera a completar lo in trenta minutas.

► **Medicina.**—Ric reservas de vitamina B-12, que es importante pro prevenir anemia, se trova in le hepate. Le analyse del contenido de B-12 in le hepates de 132 mortos autopsiate ha permittite a observatores al Universitate California concluder que le hepate normal ha reservas de B-12 sufficiente pro satisfacer le requirimentos del corpore durante un periodo de tres annos.

► **Agronomia.**—Specialistas del statounitese Centro de Recercas Agricole ha disveloppate duo lineas de gallinas ab duo gruppos de ancestres de racia identic sed de pesos median del glandula thyroide de 32,8 e 18,2 mg, respectivamente. Per elevar le duo lineas sub identic conditiones on spera clarificar le question del influencia del thyroide super le production de carne e ovas.

► **Psychologia Animal.**—Chimpanzes, como infantes human, ama jugar con jochettos. Como infantes human illos prefere nove jochettos. Illos prefere jochetto ronde a jochettos angular. Illos es specialmente attrahite per colores brillante. Al etate de tres o quatro annos illos es plus interessate in jochettos que a duple iste etate.—Observationes de Dr. W. I. Welker del Laboratorios Yerkes in Florida.

► **Aeronautica.**—In certe typos de aviones de combatto le atterrage e etiam le partita es ren-

te difficilissime e mesmo periculose per le presentia de un longe e acute "naso" que protrude ante le cabina e obstrue le campo de vision del pilota. Un inventor britannic ha nunc patentate su plano de construir tal aeroplanos con un naso que le pilota pote abassar pro departir o atterrar. Durante le volo le naso es elevate in le position normal que da a iste aviones le aere de pisces gladio.

► **Astronautica.**—In experimentos preparatori de "medicina astronomic" on ha constatate que muses que habeva essite lanceate a altitudes de inter 35 e 40 km disveloppava un numero median de dece-un capillos blanc, in contrasto con tres capillos blanc trovate super muses de controlo sin experientia astronomic. Iste effecto debe esser le resultado del destruction o inactivation de cellulas pigmentari in le folliculos del capillos, effectuate per le impacto del radiation cosmic.

► **Ornithologia.**—Experimentos con columbas messageros in Sud-Carolina ha demonstrate que iste aves arriva plus securmente a lor destination si le direction de lor viage es sud-nord e non nord-sud.

► **Agronomia.**—Le numero de insectos que ha disveloppate racias resistente al insecticidas usate contra illos deveni alarmantemente grande. Le plus recente addition a iste lista es le brun ixode canin (*Rhipicephalus sanguineus*). Iste peste comencia redisseminar se in New Jersey in un forma non vulnerabile per chlordano per que illo habeva essite quasi integremente eradicate.

► **Physiologia.**—Nostre naso non ha le function de proteger nostre respiration sed de proteger nostre senso olfactori. Iste conclusion esseva formulate per Sir Victor Negus del Hospital Middlesex in Anglaterra post que ille habeva constatate que le dimensiones del membranas de humidification nasal varia in differente animales in un correlation directe con le acutesa del senso olfactori.

► **Technologia.**—Le utilisation del energia solar es avantiata significativamente per un simple e incostose convertitor de lumine in calor, disveloppate per H. Tabor del Laboratorio Physic de Israel. Le apparatusa consiste simplemente de un platta de cupro coperte per un strato electroplegic de nickel, zinc, e sulfidos. Le cupro obtene assi un tenuissime copertura nigre que absorbe 90 pro cento del spectro visibile e transforma lo in calor. In contrasto con altere superficies nigre, le platta de Tabor ha le utilisissime qualitate que illo eradia su calor multo lentamente.

► **Chirurgia.**—Trompeteros e suflatores de vitro suffre non infrequentemente de un "lesion professional" que se manifesta super toto in symptomas de marcate e persistente raucitate del voce e, in plus sever casos, de difficultate de inglutimento e attaccos de tusse. Le causa immediate de iste symptomas es un specie de hernia del larynge que apparentemente pote resultar de continue e prolongate effortos expiratori. Dr. B. J. Soboroff de Chicago, qui ha investigate iste phenomeno, considera le excision del hernia como le sol efficace therapia possibile. Ille reporta que le prime casos del syndrome unquam observate occurreva in muezzims mohammedan.

► **Aeronautica.**—Le statounitese Fortia Aeree experimenta con specialmente construite cassas de ligno pro le ejection, sin paracadita, de merces ex aviones viagiante a alte velocitates. Le cassas tocca le terra a solmente 84 km per hora.

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GENERAL SCIENCE

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