

# SCIENTIA INTERNATIONAL

## NOVAS DEL MENSE IN INTERLINGUA

**Biochimia.** — Thalidomida se ha provate capace a assister le establimento de homograftos cutanee in muses. Iste constation esseva facite per un gruppo de medicos in London qui reporta que le mentionate pharmaco esseva experimentalmente superior a varie alteres testate in le curso de lor investigationes de mecanismos immunosuppressive. Il pare assi que thalidomida — de tragic memoria a causa del malformaciones fetal causate per illo — es non necessariamente excludite de omne futur utilisation in le tractamento de patientes human. In plus, on ha speculate que le potentia immunosuppressori de thalidomida es possibilmente relationate con le facto que su ingestion pote — sub certe conditiones — esser sequite del nascentia de un infante melomelic. Un feto pote esser considerate como un homografto. Durante un pregnantia normal, ille homografto — per un mal comprendite mecanismo immunosuppressive — non es rejicite, sed il es etiam un facto que le disvelloppamento de un feto malformate es frequentemente interrumpite per un expulsion prematur, i.e., per un mecanismo de rejection immunologic del homografto. Il essera iste mecanismo que es supprime per thalidomida.

**Communicaciones.** — David Sarnoff, preside del consilio de directores del Corporation Radio de America, provide le uso constante de satellites de transmission de radio e television a portata global e funzionante a trenta milles watt. Sarnoff insiste que le problemas technic con le quales un tal projecto essera confrontate essera solubile. Le major obstaculos es politic. Istos es tremende. Sed, diceva Sarnoff ante un Conferentia International Super le Establimento de Pace Mundial per Medios Legislative, etiam le benefic consequentias del remotion de ille obstaculos essera tremende. "Quando", ille continuava, "nos ha le possibilitate de comunicar instantaneamente con non importa qui e non importa ubi, nos va inaugurar un movimento dynamic cuje ultime impacto politic, social, e economic super le humanitate es hodie ancora incalculabile... Quando, per exemplo, un satellite russe pote diriger su radiodiffusion directemente a un ferma de Kansas e un satellite american directemente a un collectiva hungare, que va esser le reaction in le duo paisas?..."

**Cytologia.** — Mitochondrios es micrissime structuras intracellular. Illos occurre in le cytoplasma sed nunquam in le nucleo cellular. Isto esseva un generalmente acceptate facto, usque recentemente un gruppo de recercatores al Universitate Johns Hopkins, laborante con un microscopio electronic, observava le presentia de mitochondrios in le nucleos de cellulas leucemic. Le signification del discoperta es pauc clar, sed il es certe que le phenomeno es pathologic. Un possibile explication es que le mitochondrios es trappate in le nucleo in le curso de un mitose morbide.

**Neurochirurgia.** — Es reportate ab Tokio que un gruppo de chirurgos japonese ha successosemente executate operationes in le cerebro human post refrigerar ille organo a 6 C (i.e., a 43 F). Le avantages del cryochirurgia (i.e., del chirurgia a basse temperatura) include le facto que in illo le permissibile duration del intervention es grandemente prolongate. Neurochirurgos american ha legite le reporto ab Tokio non sin scepticismo. Illes trova difficile creder que le circulation sanguinee del cerebro pote esser isolate si completamente ab le circulation systemic que talmente basse temperaturas in le prime remane sin adverse effectos in le secunde.

**Radiobiologia.** — In le curso de tres annos de experimentos con muses, Dr. A. G. Searle de Harwell (Anglaterra) ha constatate que le frequentia de mutationes causate per irradiation con neutrones rapide ab un reactor atomic excede per un factor de vinti illo causate per radios gamma e per un factor de cinque illo causate per radios roentgen. Le experimentos esseva conducite con irradiation perdurative a basse nivellos de dosage. Le resultatos non pote esser usate, per extrapolation, in predicar le effecto de breve irradiationes a plus elevate nivellos de dosage.

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• Science News Letter, 88:212 October 2, 1965

## Questions

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**GEOPHYSICS**—What measurements taken by Mariner 4 indicate that the Martian atmosphere is cooler than predicted? p. 215.

**MEDICINE**—What useful effect has thalidomide been shown to have on skin grafts in mice? p. 211.

**PHYSICS**—What phenomenon does the Hope Diamond display after it has been illuminated by ultraviolet light? p. 216.

**PSYCHOLOGY**—What is one way in which compressed speech is produced? p. 214.

**SURGERY**—To what degree has the temperature of the brain been reduced to permit greater length of a brain operation? p. 213.

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