

SCIENTIA INTERNATIONAL

NOVAS DEL MENSE IN INTERLINGUA

► **Transfusiones de Sanguine.**—Dr. B. Chown del Universitate Manitoba in Canada insiste que al minus 50% del transfusiones de sanguine que es currentemente administrate in nostre hospitales es innecessari. In multe casos—secundo Dr. Chown—le transfusiones es mesmo potentialmente periculose. Isto esserea specialmente ver pro feminas. In lor caso, un transfusion de sanguine pote devenir le causa de non ancora explicabile disordines de sanguine in fetos concipite plure annos plus tarde.

► **Genetica.**—Experimentos con le musca drosophila ha inducite un gruppo de recercadores svede a concluder que un augmento artificial del temperatura in le organos que produce le spermatozoa resulta in un augmento del disadvantageous mutationes genetic (e assi de procreation defective). Pro le racia human le moral esserea: Abolir pantalones in le vestimento masculine.

► **Theorias de Evolution.**—Le studio comparative de structuras cellular in un multiplicite de organismos ha ducite Dr. L. S. Dillon e su associatos al Collegio Agricultural Texas al conclusion que le regno animal debe esser considerate como un branca specialisate del regno vegetal. Secundo iste conception, le "base vegetal" del regno animal es a trovar al nivello del algas, specificamente in le phaeophyceas (= algas brun), in contradistinction ab le chlorophyceas (= algas verde) que forma le base del evolution del "altere" plantas.

► **Medicina.**—Le uso de narcoticos analgesic in omne casos de grave vulneration per foco o calor ha essite reimplaciare a un del hospitales de Philadelphia per exponer le patientes periodicamente a un atmosphera de aere negativamente ionisate. Le mechanismo per que le methodo funciona es ancora enigmatic. Studios electroencephalographic ha revelate que le aere ionisate produce effectos simile al effectos del drogas tranquillisante.

► **Entomologia.**—Entomologos del statounite Departmento de Agricultura reporta que muscas domestic colligite in Florida manifestava alarmante grados de novemente acquirire resistencia a un varietate de moderne insecticidas.

► **Ressources de Energia.**—Le gaseification de carbon in situ (i.e. in le depositos natural e sin ulle labor de mination) ha essite effectuate in Alabama. Un currente electric es usate pro carbonizar blocos del deposito mineral que es flancate per duo electrodos e pro render los assi satis porose pro le introduction de aere, oxygeno, o vapor que completa le gaseification del carbon. Le processus es non ancora economicamente practicable, sed nove essayos e recercas in iste direction es apparentemente multo promittente.

► **Zoologia.**—Un scuriolo mantenite al Universitate Toronto durante duo annos sub condiones constante de temperatura, humiditate, dieta, e illumination non cambiava su habitude de hibernar inter octobre e maio. Isto essea un inter plure experiments que impone le conclusion que scuriolos ha un senso de chronologia que non depende de stimulos externe.

► **Recercas de Cance.**—Le fumo de tabaco que nos inhala directemente differe ab illo que animales experimental inhala can le aere de lor ambiente. Le natura del differentia non es cognoscite, sed su realitate es manifeste in un deterioration del fluorescentia que le fumo (solvit in benzina) exhibi post un periodo de exposition al influentia de lumine. Dr. H. Johnston de Glasgow (Scotia), que es responsabile pro

iste constatacion, specula que forsan fumo de tabaco in forma fresc contine radicales libere que dispare in le curso del tempore (i.e. sub le efecto de lumine), e que il es non le fumo de tabaco per se sed le radicales libere in illo que ha le potentia de causar cancer. Le idea que radicales libere es possibilmente agentes cancerogene non es nove, sed lor presentia in fumo de tabaco ha nunquam essite demonstreate. Isto se explicare per le observation de Dr. Johnston.

► **Angiologia.**—In experimentos con rattos un gruppo de medicos sud-african ha constataque que lesions effectuate in un arteria require plure menses pro lor cicatrisation complete. Iste observation suggeste que le constriction arterial que occurs in humanos post le etate de 40 a 50 annos es possibilmente le ultime effecto de un lentissime cicatrisation de multiple microlesiones arterial causate per le rapide crescentia del corpore durante le annos del adolescencia.

► **Ingenieria Marin.**—Un nave australian ha remanite libere de lepades (= barnacles, bernacles, etc.) durante un periodo experimental de un anno gratias a un apparatura que mantiene undas supersonic in le parietes exterior de su corpore.

► **Agronomia.**—Le valor questionable del uso in massa de pesticidas essea signalate in un reporto special preparate per Dr. J. L. George, curator associate de mammales al Parco Zoologic de New York. Le facto que un decennio de extense usos de pesticidas ha vidite le developmento de resistencia a specific substantias toxic in 35 insectos es significative, sed un aspecto plus importante ancora (in le opinion de Dr. George) es le facto que le pesticidas disruppe in multe casos le equilibrio del natura per eradicare, insimil con le pestes, species de animales que es desirabile e alteres que forma le nutrimento essential de aves e pisces. Dr. George insiste que extense investigations del equilibrio normal in le economia del natura es necessari ante que le homine ha le possibilitate de intervenir intelligentemente in illo.

► **Biologia.**—Si on vole usar le termino "cerebro electronic" pro le complexe computatores mechanic nunc in uso o in preparation, il es importante comprender—notava Dr. F. J. Weyl del Officio de Recercas Naval in un recente discurso publico—que iste typo de "cerebro" posse de exclusivamente un "memoria fixe e inalterabile in le curso de su functionamento." Le memoria human, per contrasto con le memoria electronic, cresce e deveni plus efficace per esser usate.—Un secunde formulation felice trovate per Dr. Weyl es que le genes es le instrumentos del memoria del racia como le cerebros es le instrumentos del memoria de individuos.

► **Penologia.**—In le prisiones statounite, 26,938 empleatos servi 161,587 prisioneros, sed solmente 1,337 de iste empleatos es preoccupate a preparar le prisioneros a un vita de utilitate social. Le psychologos es justo satis numerose pro dedicar quattro minutus per mense a omne prisionero individual. Le pastores ha minus que 10 minutus per mense per individuo e le instructores circa 45 minutus.—Statistica compilata per Dr. A. C. Schnur del Universitate Michigan.

► **Technologia.**—Ha essite proponite que le "cineres" radioactive (resultante del uso de "fornos atomic" como fonte de energia industrial) pote esser deponite in lacos del typo appellate meromictic, i.e. con stratos de aqua isolate ab omne circulation vertical.

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GENERAL SCIENCE

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