

SCIENTIA INTERNATIONAL

NOVAS DEL MENSE IN INTERLINGUA

Nutrition.—Studios conducite al Bureau de Pisceria Commercial in Washington revela que in multe pisces approximativemente 50 pro cento del oleo es nonsaturate e que approximativemente 10 pro cento es altamente nonsaturate. On designa como altamente nonsaturate un grassia in que le molculas contine 5 o 6 nonsaturate atomos de carbon. Le molculas de oleos vegetal, que es etiam nonsaturate, contine al media solmente 2 tal atomos. Le question de saturation e nonsaturation de grassia es importante proque grassias nonsaturate age contra le formation de excessos de cholesterol in le sanguine, e isto, de su parte, es importante proque cholesterol pare haber un rolo causal in le occurrentia de morbos sclerotic del vasculatura. Le oleo de pisces esseva altamente efficace in reducer le nivellos de cholesterol in le sanguine de animales experimental, e iste reduction esseva directemente proportional al grado de nonsaturation del oleo usate. Recercas es in progresso pro disveloppar un methodo de separar e extraher le plus alteamente nonsaturate fractiones de oleo piscin.

Cigaretas e Cancere.—Dr. H. Flack, rector de un periodico del Association Britannic Medical, ha constatate que le *prova* del connexion inter le fumar e cancro pulmonar exerce nulle o quasi nulle influenza super le consumption de tabaco. Ille conclude que omne effortio de inducer fumatores a restringer lor uso de tabaco es van. Il es, secundo Dr. Flack, le non-fumatores, e specialmente le juvenes in nostre scholas, a qui on debe adressar le propaganda anti tabaco. Il es difficile cessar le fumar sed facile non comenciar lo si on comprende su absurditate. Il e impossibile, dice Dr. Flack, salvar le fumatores, sed il es ben possibile proger futur generationes.

Chirurgia.—Dr. J. C. Houck de Washington reporta haber discoverite in le pancreas de porcos un enzima que destrue le fibras dur in texto de cicatrization. Tal fibras consiste principalmente del proteina cognoscite como collageno, e le enzima que dissolve los esseva designate como procollagenase. Dr. Houck es currentemente occupate a isolar procollagenase in forma pur. Le importantia del discoperta es que le nove enzima promitte devenir utile in le suppression de disfigurante cicatrices. Le studio de su effectos va etiam producer nove informationes super le structura de collageno que es ancora multo obscur.

Astronautica.—Professor H. Oberth, un del pioneros in le campo del rochetteria scientific in Germania e plus recentemente un associato de Dr. W. von Braun in su cercas de rochetteria al Arsenal Redstone in Alabama, ha elaborate le planos pro un vehiculo adaptate al exploration del luna. Un tal vehiculo debe esser capace a superar le difficultates extraordinari del terreno e del ambiente del luna que es caracterisate per le absentia de omne atmospha, per un gravitate reducite, per extremente acute alterationes de temperatura, e per un superficie plus pulverose que ullo cognoscite in terra. Le vehiculo projicite per Prof. Oberth possede omne le requirite qualificationes. Illo es stabilisate per medio de un gyroskopio, illo se move super erucss, e, per medio de un pede retractibile e extensibile, illo pote saltar grande abysmos. Su motor consume peroxydo de hydrogeno o altere substantias chemic, sed pro conservar combustibile illo etiam utiliza un systema de energia solar. (Le vehiculo de Prof. Oberth es non ancora in production in series.)

Lucta Contra Pestes Animal.—In Florida, le nocivissime verme *Chrysomya macellaria* ha

essite practicament suppressite per le technica de sterilisar grande numeros de masculos per irradiation. Proque le femininas de iste specie es monogame, le sterilisation de masculos—providite que illos remane normalmente potente—resulta in un multo plus grande reduction del population que non importa qual programma de extermination immediate. Le mentionate technica de irradiation esseva disveloppate per Dr. E. F. Knipping del Statounitese Departamento de Agricultura. Dr. Knipping nunc propone le uso de simile methodos in le caso de certe rodentes e altere pestes animal. In iste casos, le irradiation deberea esser reimplaciate per le application de substantias chemic que ha nulle effecto mortal sed destrue le fertilitate del masculos. Le identification e synthese commercial de tal substantias es, secundo Dr. Knipping, le plus urgente desiderato in le lucta contra pestes animal.

Electricitate.—In celebrar le septanta-quinque anniversario del prime illumination electric in Berlin, le *Deutschlandhalle* in ille citate esseva illuminata per un sol ampulla fluorescente de 65,000 watt. Le *Deutschlandhalle* es le plus grande halla de Europa. Illo mesura circa 100 per 80 m.

Recercas de Cancere.—Post isolar, per medio de un corde-pulmon artificial, le circulation del sanguine in le cerebro ab illo in le resto del corpore, medicos al Universitate Kentucky ha trovate possibile administrar al cerebro drogas anticancerose in doses plure vices plus forte que le doses que es normalmente mortal post lor introduction in le circulation general. Usque nunc le methodo ha essite usate solmente in animales experimental. On lo considera como promittente pro le tractamento de cancro cerebral.

Antibioticos.—Es reportate ab un hospital in Cleveland (probabilmente non como fenomeno exceptional) que in recente tempores enterocolitis staphylococcal ha devenite marcatamente plus frequente. In le curso de dece menses, 431 casos de diarrhea esseva observate, e in 61 de istos, staphylococcos esseva definitivemente identificate. Vinti del 61 casos esseva mortal. Le grande majoritate de iste patientes habeva recipite antibioticos le quales evidentemente destrueva le normal flora de bacterios intestinal de maniera que le campo esseva abandonate al staphylococcos sin ulle competition.

Recercas de Cancere.—Duo recercatores al Instituto Memorial Roswell Park in Buffalo, New York, ha trovate que plus que un medietate del patientes in un extense serie de casos de cancro del cervice uterin habeva habite chocante experientias emotional in coincidentia temporal plus o minus directe con le declaration de lor disordine neoplastic. Le duo homines vide hic definitivemente plus que un association accidental. Illos crede que le question del presentia de stresses emotional deberea esser studiate etiam in le caso de altere canceres. Illes mentiona Neville Chamberlain, Robert Taft, e John Foster Dulles como victimas de cancro in qui emotionalmente disequilibrante experientias precedeva le declaration de lor morbo mortal.

Chirurgia.—Recente statisticas indica que in le hospitales statounitese le mortalitate operatori decresce frappantemente. In le caso de un grande e representative hospital, ille reduction esseva 43 pro cento super le base de un comparison del duo periodos 1945 a 1954 e 1925 a 1934. Le plus frappante reductiones ha occurrite in le mortalitate post operationes del vesica biliari, del glandula thyroide, del duodeno (in casos de ulcere), e del esophago (in casos de cancro).

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GENERAL SCIENCE

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