

SCIENTIA INTERNATIONAL

NOVAS DEL MENSE IN INTERLINGUA

➤ **Recercas de Cancere.**—In experimentos animal, un gruppo de investigadores al Universitate Illinois ha constatate que varie formas de stress augmenta le probabilitate de recurrentias metastatic de cancro. Le typos de stress investigate includeva illo producite per chirurgia anticancerose. Tamen, ben que operationes anticancerose accelerava le diffusion del morbo, le animales con cancro postoperatori haveva plus longe periodos de superviventia que le animales non operate.

➤ **Meteorologia.**—Le Laboratorio de Recerca Naval a Washington reporta que observations de Sputnik I permette le conclusion que a un altitude de circa 400 km le atmosphaera es 40 vices plus dense que lo que esseva previeamente supponite. Illo contine circa un dece-millesimo de un milliardesimo de un gramma de materia per centimetro cubic. Nulle "vacuo" create in le laboratorios al superficie del terra ha unquam attingite un tal grado de rarefaction.

➤ **Energia Atomic.**—Le detonation experimental de un bomba atomic in Nevada a un profundor subterranean de plus que tres quartos de un kilometro ha resultate (1) in nulle contamination radioactive del atmosphaera al superficie del terra e (2) in enorme massas de rocca fractionate e permeabilisate. On crede que iste constatation permette le prediction que detonationes atomic va provar se utile (e economicamente utilisabile) in le exploitation de minas e depositos petrolifere e mesmo in le trenchation de canales in terreno collinose.

➤ **Antibioticos.**—Le retention de antibioticos per le corpore pote esser prolongate e lor desirabilissime concentration in le nodos lymphatic pote esser augmentate per administrar los in le forma de sales de grande dimension molecular. Iste discoperta esseva facite per un gruppo de scientistas chec a Praga. Illes propone le nomine "antibiolymphina" pro le compositos in question.

➤ **Chirurgia.**—Dr. Seiichi Makuuchi de Tokio ha perfectionate un operation in que un cancerose vesica urinari es reimplaciate per un segmento del intestino. Le operation ha essite usate in cinque pacientes con solmente un morte attribubile a illo. Duo del remanente quatro pacientes se restabliva sin incidente. Le altere duo moriva ab cancro metastatic in altere organos.

➤ **Agronomia.**—Damnos de frigido in fructos de citro es invisibile al exterior sed pote esser detegite mechanicamente gratias al facto que le vulnerate pulpa offere un augmentate resistentia a radios Roentgen. Un machina que utiliza iste principio ha essite construite al Universitate California. Le costo del machina rende su adoption per le industria citricole multo dubitose.

➤ **Cardiologia.**—Un nove technica pro le diagnose de defectos in le septos del corde ha essite disveloppate per Dr. R. Sanders del stato-unitese Instituto National de Cardiologia a Bethesda in Maryland. Le patiente inhala krypton-85 que es un isotopo radioactive e un gas inerte. Si le septos del corde es intacte, krypton-85 pote apparer in le corde dextere solmente post un longe viage ab le pulmon via le corde sinistre e le circulation major a transverso le corpore. In le curso de iste viage le gas perde un grande parte de su radioactivitate. In le presentia de un defecto septal, un parte del krypton-85 passa directemente ab le corde sinistre a in le corde dextere. Post iste curte viage illo ha perdit quasi nihil de su radioactivitate. Specimens de sanguine ab le corde dextere de patientes subjicite al inhalation de krypton-85 es obtenite per catheterisation. Le grado de radio-

activitate in illos es determinate per medio de un specie de contator Geiger, e le valores obtenite demonstra alora le presentia o le absentia de un defecto in le septos intracardiac.

➤ **Cardiologia.**—"Quando le corde se arresta, le homine mori." In nostre dies, iste ancian truismo es frequentemente dismentite, proque il es hodie un occurrentia satis commun que un chirurgo succede a salvar le vita de un patiente, ben que le pulso cardiac in ille se ha arrestate, simplemente per massagiar su corde de maniera a fortiar lo per modulate pressioness manual a continuar su action pumpante. Proque le exacte e multo specific rhythmo que es requirite in iste typo de massage es difficile a mantener durante longe periodos de tempore, Dr. A. Vineberg de Montreal ha disveloppate (e patentate) un mechanic massagiar cardiac. Illo consiste in principio de duo impermeabile saccos que se trova le un intra le altere. Inter le duo saccos, un pression que varia secundo le rhythmo normal de un corde human es mantenite per medio de un pompa pneumatic. Le sacco exterior es coperite de un material plus o minus rigide. Le sacco interior es destinate a esser passate super le corde que ha cessate funcionar independentemente.

➤ **Endocrinologia.**—Crescentia excessive in altor in juvene pueras pote esser relenante o arrestate per le administration de estrogeno, le hormon sexual feminin. In reportar iste observation, Dr. Ch. S. Freed de San Francisco rememora un previe experimento sue in que in 1948 ille accelerava le crescentia de juvene pueras per le suppression de estrogeno intra le organismo.

➤ **Inventiones.**—Le principio del coperi-lecto electric es utilisate in un electric tapis disveloppate per un firma commercial de Halifax in Anglaterra. Il pare que un camera in que occanta pro cento del solo es coperite per le tapis electric pote esser mantenite a un temperatura agradabile al costo de pauc plus que un cent per hora, excepte quando le frigido al extero es vermente sever.

➤ **Ingenieria.**—Le precipitator electrostatic servi a reducer le pollution industrial del atmosphaera gratias al facto que su presentia in un camino resulta in le retention de multe particulas de fumo. Illo consiste in principio de un filo metallic a carga electric que es suspendite equidistantialmente inter terrate placas conductori. Secundo le theoria solmente le placas collige le objectionabile particulas, sed in le practica etiam le filo se coperi de un dense deposito que reduce e mesmo supprime su efficacia. Iste difficultate ha essite eliminata per ingenieros switze e anglese qui ha trovate que filo barbata remane active in despecto de omne depositos, proque le punctas del barbas remane semper nitide.

➤ **Piscicultura.**—Le salmones que habita le lago Pend Oreille in Idaho deveni progressive-mente plus curte. Depost 1951—secundo multo meticulose mesurationes—le pisce ha perdit plus que 3 cm de su previe longor. Il es possibile que il se tracta hic de un phenomeno malthusian de hyperpopulation, sed ni iste ni ulle altere explication es vermente adequate. Le pisce decrecesce es un mysterio.

➤ **Psychologia.**—Tests conducite al Penitentiario Joliet in Illinois ha monstrate que psychopathes ha memorias significantemente melior que normales e neuroticos.

➤ **Hematologia.**—Tests inter studentes de medicina a Los Angeles ha monstrate que lor nivellos de cholesterol sanguinee esseva significantemente elevate sub conditiones de stress.

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GENERAL SCIENCE

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