

SCIENTIA INTERNATIONAL

NOVAS DEL MENSE IN INTERLINGUA

➤ **Recercas de Cancere.**—Le comparation del incidentia de certe formas de cancre in 10 areas urban del Statos Unite ha revelate cifras elevate pro un localitate ubi le pollution del aere resulta predominantemente ab rosterias de caffè. Recercas al Instituto National de Cancrologia a Bethesda in Maryland ha demonstrate le presentia del agente cancerogene 3,4-benzopyrena in caffè carbonisate. Un relation causal inter iste factos non es demonstrabile al tempore presente.

➤ **Embryologia.**—In experimentos executate al Universitate Wesleyan de Connecticut, rattas subjicte durante lor pregnantia a statos de anxietate parturiva juvenes de elevate emotionalitate. Dr. W. R. Thompson, le executor del experimentos, insiste que su conclusiones es non ancora completamente invulnerabile. Su rattas haveva essite trainate ante lor pregnantia a aperir un porta pro evitar un choc electric que semper sequeva un forte signal acustic. Le anxietate esseva inducite per sonar le signal e tener le porta de escappamento blocate. Le question ancora indecise concerne le possibilitate que non le anxietate del matre sed le reverberationes physic del signal causava le emotionalitate del fetos.

➤ **Paleontologia.**—Le Museo American de Historia Natural a New York annuncia con satisfaction que illo ha acquirite un ovo ponite probabilemente 120 milliones annos retro per un dinosaura del genere *Hypselosaurus priscus*. Nulle altere museo del hemispherio occidental ha un ovo comparabile. Illo esseva obtenite ab le Museo de Historia Natural a Aix in Francia in exchange pro un ovo de un protoceratope (etiam dinosaure) trovate per americanos in Mongolia. (Omne iste ovos es petrificate.)

➤ **Chirurgia.**—Transferer graffos de pelle ab un individuo a un altere non es possibile a causa de un mecanismo immunologic que es non ancora comprehendite. Sin le complete comprehension de illo non pote sperar solver le problema de render organismos individual capace a tolerar graffos de pelle alien. Al Universitate California on ha trovate que le pelle de juvenissime gallinettas non es specific e pote esser transferite liberemente. Iste observation suggere que in loco de cercar a conditionar le organismo destinate a recipere un graffo de pelle, on debe occupar se del possibilitate de neutralisar le graffo.

➤ **Combustibiles.**—Dr. S. W. Churchill del Universitate Michigan reporta que le combustion de combustibiles del typo usate in aeroplanos a reaction es accelerate per 50% sub le effecto del irradiation per particulas beta ab auro radioactive de un potentia de 10,000 curies. Con minus intense grados de irradiation le effecto se perde rapidamente. Il se tracta, ben intendite, de un acceleration del combustion e non de un augmento del resultante fortia. Le importantia del discoperta es que illo promitte permittre le construction de minus pesante motores.

➤ **Ophthalmologia.**—Corneas ocular pote esser preservate pro uso in operationes de graffage durante periodos de usque a duo annos si illos es dishydratate in glicerina. Le methodo esseva reportate per Dr. J. H. King, ophthalmologo consulete del statounitense Chirurgo General. Usque nunc, corneas se deteriorava post alcun dies de immagasinage. Effortios per ophthalmologos anglese de preservar los per congelation non succedeva.

➤ **Gastro-Enterologia.**—Le Instituto Rocke-

feller pro Recercas Medical reporta le perfection de un radio-emissor que es si parve (diametro maximal: infra 3 cm) que illo pote esser inglutite sin difficultate. Illo ha un membrana que modula su signales sub le effecto de variationes de pression durante su viage a transverso le stomacho e le tubo gastrointestinal. Illo contine un batteria que rende lo autonome, e su signales (de un frequentia de circa un megacyclo) es registrabile a un distantia de plus que un metro.

➤ **Sociologia.**—Dr. med. J. O. Bond de Florida reporta que un studio del 64 principal causas de morte revela in omne casos un mortalitate plus alte pro homines que pro feminas. Ille specula que le superioritate traditional del sexo mascule esseva un superioritate in fortias physic que ha perditte quasi omne lor signification sub le conditiones del vita moderne. Dr. Bond suggere (semi-seriemente) que homines pote superar lor inferior stabilitate emotional pro cultivar le arte feminin de relaxar tensiones interior per erumper in lacrimas.

➤ **Technologia Medical.**—Pro prevenir colapso del pulmones in patientes post-chirurgic, duo hospitales a Rochester utiliza le simple methodo de periodic exercitios de respiration a transverso un tubo de circa un metro e medie de longor. In iste exercitio le patiente es fortiate a obtener su aere fresc post primo re-inhalare le jam usate aere in le tubo. Le resultante excesso de effortio respiratori meliora le "forma" del pulmone.

➤ **Technologia Medical.**—Le Instituto Walter Reed pro Recercas Medical del statounitense armean a Washington reporta le perfection de un automatic injector de vaccino que functiona "a distantia," sin agulia e sin contacto con le pelle. Le vaccino es ejicite (e penetra le tessuto) a un velocitate de plus que 200 m/sec. Le instrumento require nulle sterilisation e pote administrar vaccinationes in massa con un productivitate de 10 per minuta.

➤ **Communications Scientific.**—Dr. S. A. Waksman, melio cognoscite como discoperitor de streptomycina, urge le establishmento de un centro international de coordination del recercas in re antibioticos. Dr. Waksman deplora le corrente isolationismo (e mesmo nationalismo) in su disciplina. Ille cita, inter multe alteres, le exemplo del antibiotico russe "albomycina" que requireva annos de recerca e tunc se revelava como identic con le "griseina" del americanos.

➤ **Ingenieria.**—Pro meliorar le traction de vehiculos in omne genere de terreno molle, roccose, o alteremente irregular, A. Sfredde de Bethlehem in Pennsylvania ha inventate un rota que es non circular sed polygonal (i.e. quadrate o hexagonal, etc.) Le resultante motion vertical del centro del rota es neutralisate per un motion contrari del axe.

➤ **Inventiones.**—Un gruppo de technicos del Compania Electric General ha construite un horologio electric que usa un batteria e ergo require nulle cabo. Illo es synchronisate per medio de un amplificator sensibile al campo de induction que es producte per currentes alterante alicubi in le vicinitate.

➤ **Chirurgia.**—Le curation de ulcers in venas varicose ha essite accelerate per le application de pecias de placenta. In altere ulcers le methodo esseva tentate sin successo. Illo esseva primo usate in vulneres de guerra per un medico militar francese. Le presente experimentos esseva facite al Universitate Statal Ohio.

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GENERAL SCIENCE

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