

SCIENTIA INTERNATIONAL

NOVAS DEL MENSE IN INTERLINGUA

► **Resources de Energia.**—Carbon de basse qualitate pote esser gaseficate e le resultante gases pote esser transformate in combustibile liquide per le application de alte temperaturas. Un ressource economic de tal temperaturas es probabilemente a trovar in le calor de reactores nucleari.—Reporto al Instituto American de Ingenieros Chemic per Drs. R. C. Dalzell e J. P. McGee.

► **Recercas de Cancere.**—Al recente convention del Association American Medical a Philadelphia, cancerologos american e anglese participava in un discussion transatlantic per telephono. Le consenso del expertos esseva que le chimotherapia de cancere es pauco plus que un promissa futur. Un del angloeses formulava que le interesse de agentes cancerotherapeutic nunc cognoscite es exclusivamente que illos contribue al clarification del processos morbide que occurre in casos de cancere.

► **Dentisteria.**—Dr. chir. dent. J. R. Cameron del Universitate Temple ha publicate un sumario del grave morbos que dentistas ha frequentemente le opportunitate de recognoscer ante que le patiente ha ulle ration de consultar su medico general. Iste morbos include cancere buccal, anemia, tuberculose, e leucemia, proque in omne istos symptomas buccal precede non infrequentemente omne alteres. Secundo Dr. Cameron un dentista con un bon practica vide al minus un patiente per septimana a qui ille debe recommendar le un o le altere examine medical.

► **Technica Hospitalari.**—Al Hospital North Cambridgeshire in Anglaterra on ha installate "cossinos cantante" que provide le patientes con musica e permette a illes parlar con le infirmiera quando ista se trova foras del sala. Le cossinos es facite de cauchu spumose, e montate in illos es altoparlatores que ha essite appellate "cos-sinophonos."

► **Recercas de Cancere.**—Dr. med. vet. R. T. Pursell de Australia reporta frappante successos in le tractamento de certe tumores cancerose in micre animales per medio de blau methylenic. Le tumores assi attaccabile es exclusivamente typos a crescentia rapidissime. Dr. Pursell specula que blau methylenic disrumpe le metabolismo de certe cellulas cancerose. Ille opina que su discoperta signala un debilitate del cellula cancerose que debe esser investigate systematicamente.

► **Agronomia.**—Le principio del hybridisation, que ha producite le cognoscite frappantemente benefic effectos in le cultura de mais, pare haber devenite applicabile etiam al cultura de coton. Le difficultate, usque recentemente insuperabile, es que stamenes e pistillos de plantas de coton se trova in le mesme individuo, con le resultado inevitabile de auto-pollination. Le precondition de hybridisation, i.e. de hetero-pollination, de coton es per consequente le occision del stamenes per un methodo que lassa le pistillos intacte. Iste "gameticidio selective" esseva effectuate post multe essayos van per le application de solutiones de sales de chlorinate acidos organic circa un septimana ante le tempore del floracion. Le experimentos in question esseva executate al Schola de Agricultura del Universitate California.

► **Agronomia.**—Per cambiar le tempore traditional del plantation de ris, multe pais del Oriente Extreme potera reducir grandemente le enorme perditas in le messe de iste cereal que es currentemente causate per le typhones. Dr. Chia-min Hsieh del Universitate Catholic

de America in Washington ha constatate que ris es specialmente vulnerabile al comenciamiento e verso le fin de su crescentia. Proque 86 pro cento de omne typhones occurre inter julio e septembre (con 25 pro cento in septembre), il es possibile plantar ambe messes annual de ris de maniera que le plantas se trova in lor phase le plus resistente quando le typhones es le plus numerose.

► **Energia Solar.**—Fornos solar pro objectivos recercatori es producite in massa per le Corporation American de Projectores que utiliza in lor fabrication componentes de projectores militar que le armae statounitese vende a vil precio, viste que illos ha devenite obsolete in nostre era de aeroplanos ultrarapide. Fornos solar de un valor ver de 40 a 50 milles dollars pote assi esser vendite pro 8500 dollars.—Iste apparatus es quasi indispensable in moderne recercas metallurgic proque illos produce altissime temperaturas sin le risco de contaminar le objecto calefacite.

► **Recercas de Cancere.**—Secundo un reporto ab le Statounitese Departamento de Agricultura, le facto que un composito chemic se monstra capace de inhibir le crescentia del ovarios de muscas domestic indica con alte grados de probabilitate que illo es etiam capace de inhibir le crescentia de cellulas cancerose. Iste discoperta va grandemente accelerar le selection de compositos chemic que merita esser essayate como possibile agentes cancerotherapeutic. Usque nunc muses e rattos esseva usate in iste genere de test preliminar, e muses e rattos es evidentemente plus difficile a elevar que muscas domestic.

► **Recercas de Cancere.**—Secundo Dr. V. Menkin del Universitate Temple a Philadelphia, cellulas lesionate per inflammation (o, forsan, per altere causas de destruction como per exemplo virus o imbalancia hormonal) produce un factor de promotion de crecentia que es destinate a assister in le reparation del cellulas sed que, in le presentia de agentes cancerogene o de un predisposition congenite, pote resultar in le production de tumores. Dr. Menkin reporta le extraction de un "promotor de crescentia" ab inflammate cavitates pulmonar de canes. Su injection in le histos mammari de conilos resultava in un marcate excesso de crescentia que non esseva clarmente cancerose sed que poteva esser considerate como al minus "precancerose."

► **Recercas de Cancere.**—Al Universitate Notre Dame, sex generationes de muses elevate in conditiones perfectemente amicrobial ha remanite completamente libere de cancere ben que illos representa un racia de alte susceptibilitate cancerogenic e durante que un gruppo de controlo a elevage non-amicrobial monstrava un incidentia de cancere de 98 pro cento al fin del dece-octave mense. Dr. J. A. Reynier, qui reportava le experimento, insiste que illo significa solmente que le causa de cancere in le muses experimental se trova in stato dormiente. Il es possibile que iste causa va redevenir efficace si le muses es subjicite a stresses o etiam como resultado de accidentes genetic.

► **Genetica.**—Le medios usate in le reglementation del natalitate in humanos va possibilemente esser arricchite per le addition de acido erucic que occurre in forte concentrationes in oleo de colza. In experimentos conducite al Universitate West-Ontario in Canada, acido erucic rendeva le masculos transientemente sterile. Illo non afficeva le femininas.

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GENERAL SCIENCE

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Science News Letter, December 28, 1957

MEDICINE

Bigger Link Between Weight, Heart Disease

► **ALTHOUGH** too much emphasis has been put on overweight as the direct cause of coronary heart disease, the indirect relationship between the two conditions is even greater than many studies have indicated, Dr. Richard S. Gubner, Equitable Life Assurance Society of the U. S., New York, N. Y., reported in *Nutrition Reviews* (Dec.).

Statistical studies that show little difference between overweight people and the so-called average weight ones as far as life span and heart disease go are misleading. There is quite a difference when overweight people are compared with those who are underweight, Dr. Gubner told SCIENCE SERVICE.

The "average" adult American is in fact moderately obese, with fat making up some 20% above the lean fat-free, body weight of the average middle aged male.

When moderately underweight individuals were compared with moderate overweight the death rate climbed steadily as the overweight increased, Dr. Gubner said.

Overweight is evidently related to disturbances in fat metabolism which may cause an increase in cholesterol level in the blood. But it still has to be proved that merely lowering the level of cholesterol in the blood will produce beneficial results.

At least in coronary thrombosis, cholesterol does not appear to be the dangerous agent but rather other fats in the blood which have a direct effect on blood clotting, Dr. Gubner said.

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