

SCIENTIA INTERNATIONAL

NOVAS DEL MENSE IN INTERLINGUA

► **Psychologia Animal.**—In le laboratorios psychologic del Universitate Wisconsin, un gruppo de macacos neonate esseva providite de duo matres artificial. Le un esseva construite ex un rete de filo metallic. Illa esseva calefacite electricamente e esseva semper preste a dispensar lacte. Le secunde matre esseva construite ex molle e resiliente spongia de cauchu, sed illa esseva incapace de dispensar lacte. Le juvene macacos concentrava tosto omne lor affection super le matre de cauchu.

► **Cosmobiologia.**—Al laboratorios del Centro de Aero-Disveloppamento Wright-Patterson, sporas de varie bacterios e fungos esseva mantente durante 32 dies sub conditiones que simulava le plus exactemente possibile le conditiones considerate como characteristic del spatio cosmic. Le sporas manifestava nulle alteration sub le effecto del conditiones extraterrestre. Lor color remaneva intacte e etiam lor potentia germinatori.

► **Psychologia.**—Vermes del classe del planarios pote esser conditionate, i.e. illos pote "aprender" in le senso le plus primitive del termino. Isto non es sorprendente. Sed un grande suprisa pro un gruppo de investigadores al Universitate Michigan esseva le facto que quando illes secava tal vermes in duo e lassava le duo partes regenerar se, ambe le resultante individuos monstrava effectos del previe apprendissage, ben que solmente un de illos contineva ganglios ab le verme original. (Planarios ha nulle ganglios in lor parte posterior.) Il seque que le processo del aprender in iste caso occorre in le corpore total e non in le ganglios nerval.

► **Gynecologia.**—In certe casos, feminas considerate como "sterile" es simplemente feminas normal con sanguine del typo O, maritate a homines con sanguine del typo A. In casos de iste typo il pote occurrer—secundo observationes facite al Universitate Michigan—que le sanguine O produce anticorpos contra le sanguine A. Allora nulle feto pote disveloppar se proque su erythrocytos es immediate mente destruite.

► **Pischeria.**—Un inquietante augmento del mortalitate de crabbas es reportate per piscatores marin al costas de Virginia e Maryland. Le causa del phenomeno es vidite in un reducite contento de oxygeno in le aqua; e isto, de su parte, pare esser le juncte effecto del prevalente calma (non-mixtion del aqua) e del excessive pluvias (apportante massas de materia organic).

► **Industria.**—Un banda rolante de cauchu de un longor de 9 km va esser construite in Oklahoma pro le transporto de petra de calce ab le petreria usque al sito del fabrica de cemento. Iste banda rolante va probabilemente esser le plus longe del mundo.

► **Biochimia.**—Al conferentia super le usos pacibile del energia atomic a Geneva, un gruppo de recercatores american reportava que experimentos con muses ha monstrate que aqua pesante (i.e. aqua con deuterio in loco de simple hydrogeno) resulta in un relentamento del metabolismo cellular. Il es ver, quando plus que un tertio del aqua corporee del animales esseva aqua pesante, illos moriva; sed a nivello de infra un quarto, nulle effecto adverse del aqua pesante esseva notate. Un observation de alte interesse esseva que le effecto relentatori esseva plus pronunciate in le metabolismo de cellulas cancerose que in illo de cellulas normal.

► **Agronomia.**—Esseva patentate le cultivation de radices de fungo edibile in un solution de nutriente. Le "radices" (tecnicamente le "mycelio") ha le mesme gusto como le fungo matur, sed le crescentia del mycelio—specialmente in le solution prescribite in le patente—es multo

plus rapide e resulta in un rendimento multo plus grande e profitabile.

► **Energia Nucleari.**—Dr. P. A. Siple, qui, trenta annos retro (como boy scout), participava in un expedition sud-polar de admiral Richard E. Byrd, predice que in un futuro non troppo distante le continente antarctic va esser utilisate como centro del generation de energia atomic pro omne partes del mundo civilisate. Dr. Siple crede que le necessitate de un tal concentration e isolation del reattore nucleari va esser comprehendite si tosto que duo o tres major accidentes ha demonstrate que installationes de energia atomic non pote esser facite completamente exempte de risco.

► **Recercas de Cancere.**—Un gruppo de medicos del Universitate Milano (Italia) cooperante con un simile gruppo del Instituto Sloan-Kettering in New York (SUA) ha demonstrate definitivemente que cellulas cancerose e cellulas normal differe in le structura molecular del substantia cognoscite como acido disoxyribonucleic que es hodie considerate como determinante del characteristics genetic de omne cellula individual.

► **Biochimia.**—Dr. M. C. Niu del Instituto Rockefeller pro Recercas Medical a New York ha succedite a influentiar non ancora differentiate cellulas de embryones de salamandra aquatic de maniera que post lor transplantation in histos vive illos se specialisava in cellulas nerval, ossee, renal, etc. Isto esseva effectuate per cultivar le non-differentiate cellulas in guttas pendente que contineva certe definite concentrations de acido ribonucleic obtenite ab le varie correspondente organos de vaccas.

► **Endocrinologia.**—Studios al Universitate Indiana ha monstrate que extractos aquatic ex le planta lithospermo ruderal ha un potente effecto endocrin. In varie animales le administration oral o parenteral del extracto reduceva le activitate (e le dimensiones) del glandula thyroide. In gallos le extracto inhibiva le disveloppamento del testes; in gallinas illo effectuava un regression al stato pre-ovulante. Si o non iste constatationes va provar se practicamento importante es ancora un question aperte. Pro le momento, le plus interessante aspectu del cosa es que le integre investigation esseva inspirate per le facto que le folklore del indianos de Wyoming e de altere regiones del west del Statos Unite mantene que lithospermo preveni pregnancia in humanas.

► **Statistica.**—In le curso del prime medietate del vintesimo seculo, le duration medie del vita del americanos se ha augmentate per 22 annos. In le curso del secunde medietate del seculo on expecta un augmento del duration vital medie de solmente 5 annos. Le augmento jam effectuate es le resultato de successos in le lucha contra le morbos infectiose. Futur augmentos debe resultar de successos in combatter cancro e morbos cardiovascular que es le principal occisores de personas de etate plus avantiate.

► **Psychologia.**—Al Universitate Wisconsin, tests de intelligentia esseva administrate a 110 pueros e pueras de 3 annos de etate, incluse 61 qui habeva suffrite un manco de oxygeno in le processo de lor nascentia. Le quotiente de intelligentia in le gruppo a nascentias normal esseva significativemente plus alte.

► **Botanica.**—Le hyacintho aquatic (*Eichornia crassipes*) ha extendite le area de su occurrentia in le Nilo de maniera explosive. Le planta comencia representar un minor obstruction (si non un ver hasardo) pro le navigation a vapor. Local tempestas tropic es probabilemente responsabile pro le estranie phenomeno.

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GENERAL SCIENCE

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