

SCIENTIA INTERNATIONAL

NOVAS DEL MENSE IN INTERLINGUA

Apicultura.—Le “pheromones” es substantias chimic que omne ape recipe ab su regina in contacto directe e que determina su comportamento e su responsas physiologic in parallela con illos de omne le altere membros del mesme essame. Nunc Dr. N. E. Gary del Universitate Cornell a Ithaca, New York, ha demonstrate que etiam le facto mesme que le regina es acceptate per su “subjectos” como “regina e maestra” es determinate per un substantia chimic. Iste substantia es secernite per le glandulas mandibular del regina. Le ablation de ille glandulas resulta pro le regina in le perdita de omne su influentia super le resto del essame. Si longe que illa retene su glandulas mandibular illa remane omnipotente. De facto, il ha essite trovate que mesmo le morte non termina le poter del regina si su glandulas mandibular contine ancora ille mysteriose substantial royal.

Chirurgia.—Le reflexo del pupilla, que altera su dimensiones sub le effecto de lumine, remane intacte mesmo quando le altere reflexos del corpore es paralytate. In leve anesthesia, drogas paralytante es frequentemente usate pro facilitar le travaglio del chirurgo. Si un patiente, assi paralytate, se evelia durante le operation ab le somnio anesthetic, ille non pote mover se o alteramente manifestar su stato eveliante. Solmente le reflexo del pupilla pote revelar lo. Iste facto, non previamente cognoscite, esseva discoperite e reportate per Dr. Phyllis G. Croft de London, Anglaterra.

Criminologia.—Esseva patentate un nove methodo dactylosopic in que le impressiones digital se face in un pellicula de plastic que es applicate al digitos in forma liquide. Le systema esseva elaborate pro facilitar le identification del victimas de un atomic macrodestruction de vita human. Sed intertanto illo es in uso in Canada e le Status Unite in le detection de criminales.

Economia de Aqua.—Secundo un reporto del Officio pro Aqua Marin (intra le statounitese Departamento del Interior), il es technicamente possibile installar “fabricas de conversion de aqua marin in aqua potabile” capace de rendimento in massa a un costo de infra 50¢ per mille gallones. In le municipalitate typic del Status Unite, le costo del provision de (non-convertite) aqua fresc amonta currentemente a inter 30 e 40¢ per mille gallones. Assi le conversion de aqual marin es ancora economicamente impractic. Le reporto del Officio pro Aqua Marin explica additionalmente que le progressos technic necessari pro facer de aqua convertite un producto economicamente rational (e non solo experimentalmente possibile) va depender de major e costose e forsan radicalmente re-orientate recercas physic e chimic.

Electrotechnica.—Electroluminescente plattas metallic es in production per Westinghouse. Le plattas contine un pellicula electroconductive e es coperite de un phosphoro special que brilla quando electricitate es applicate a illo. Iste typo de “corpore luminescente” functiona sin filamentos, tubos, o vapores e produce practicamente nulle calor. Usque nunc tal plattas esseva facite solmente ex vitro o plastic.

Foresteria.—Dr. P. S. Zakharov del Ministerio Sovietic de Production Forestial ha disveloppate un simple methodo pro desiccar e conditionar ligno ante le abattition del arbore. Primo le arbore es “anulate” (i.e., un banda de cortice circum su trunco es excidite), e in le area assi lesionate un numero de tubos de vitro es inserite. Iste tubos “alimenta” le arbore (ante su morte) con specific e predeterminate solutiones de substantias chimic que impartit al ligno del arbore certe specific qualitates. Fluoruro de natrium accelera le desiccation del ligno. Antipyrina

rende lo incombustibile. Sales de silicio augmenta su duressa. Acido acetic adde un color orange a betulas e fagos. Dicyanodiamida rende le ligno de betulas extremamente flexibile.

Musica.—Le Compania Baldwin es possessor del patente pro un piano in que le vibrationes del chordas per se es quasi inaudibile sed que es equipate con un systema electric que pote (1) amplificar le musica e diffunder lo in un sala de concerto de non importa qual dimensiones o (2) transmitter le musica a un casco auricular portate per le musico mesme, de maniera que nulle altere persona suffre con le musico quando ille practica su exercitios.

Psychiatria.—Electrochoc, como illo es usate in le psychiatria, non es nocive sed plus tosto benefic pro le functionamento del corde. Al Hospital Forest a Des Plaines in Illinois, un gruppo de 628 patientes psychiatric tractate con electrochoc includeva 131 con anomalitates electrocardiographic constatate ante le tractamento. In 30 de illes, le electrocardiogramma prendite post le tractamento revelava meliorationes causate per illo. Nulle caso de pejoration esseva incontrate. Le conclusion que electrochoc beneficia le corde non es valide in casos de thrombose coronari o de anormal contractiones cardiac. Nulle tal esseva includite in le supra-mentionate serie.

Psychiatria.—Inter 53 pueros delinquent in un schola de reforma, 26 esseva tractate con pillulas: 30 con pillulas continente un droga tranquillizante, 13 con pillulas de un placebo (sucro). Le altere 27 remaneva sin tractamento. Le 26 con tractamento disveloppava un melioration de comportamento; le 27 alteres non. Quando le medication esseva discontinuate, le 13 tractate con le droga redeveniva “casos problematic”; le 13 tractate con sucro remaneva meliorate.—Reportate per recercatores del Universitate Johns Hopkins.

Recercas de Cancere.—Canceres hepatic ha essite trovate con un incidentia de 100 pro cento in le population de tructas in un gruppo de piscarios al west del Status Unite. In omne le casos le tructas esseva del racia cognoscite como tructa-iride. In omne le casos le dieta del tructas includeva un bolletta sic continente vitaminas, antioxydantes, substantias de crescentia, e altere substantias synthetic. Piscarios con tructas racialmente affin sed non recipiente le mentionate bollettas in lor dieta non monstrava ulle cancere hepatic. Il es possibile que le morbo es causate per un imbalancia dietari resultante del alimentation artificial, sed il es multo plus probabile que un agente specific (continite in le bollettas) es le factor causal responsabile pro iste remarquabile phenomeno. Le metabolismo de pisces es certo non identic con illo de humanos, sed omne progresso in nostre comprehension del mechanismo etiologic de un cancere (de non importa qual typo) es multo benvenite. Ben que le hic reportate occurrentia va probabilemente haber nulle signification directe pro le cancerotherapie in humanos, illo offere in omne caso un remarquabile opportunitate pro le studio experimental del causation de al minus un typo de cancere inter le multes que afflige le vita organice.

Recercas de Tuberculose.—In le curso del passate cinque annos, le incidentia de tuberculose in New York ha montate in consequentia de un crescente frequentia de germes resistente contra isoniazida. Isto es un del tres principal drogas usate in le moderne therapia de tuberculose. Le altere duo, streptomycina e acido para-aminosalicylic, es non ancora restringite in lor utilitate in New York per le occurrentia de germes resistente.

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