

# SCIENTIA INTERNATIONAL

## NOVAS DEL MENSE IN INTERLINGUA

**Anthropologia.**—Dr. L. S. B. Leakey, curator del Museo Coryndon in Nairobi, Kenya, reporta le discoperta de porciones del cranio de un creatura que apparentemente occupa in le scala de evolution un position intermedie inter le simia Proconsul e le hominide Zinjanthropus. Le etate del nove fossile esseva determinate como 14.000.000 annos per le methodo de radiodation a kalium e argon. Le etate de Proconsul es 35.000.000 annos, de Zinjanthropus 1.750.000 annos. Dr. Leakey reporta que le nove creatura, que ha non ancora recipite un nomine, non es human, sed, nonobstante, es plus simile al hominidas que al pongidas (grande simias).

**Cardiologia.**—Augmentate production de erythrocytos es possibilemente un factor contribuyente al occurrence de crises cardiac, Drs. G. E. Burch e N. P. DePasquale del Universitate Tulane reporta que in 100 personas qui habeva mortal crises cardiac le nivello de erythrocytos esseva significativamente plus alte que in 100 alteramente comparabile personas libere de morbos cardiac.

**Biochimia.**—Le prime vita super le globo possibilemente habeva su origine in pre-existente proteinas e acidos nucleic. On habeva opiniate que le origine del vita esseva a cercar in o le un o le altere, sed non in ambes. Tamen, Dr. M. Calvin, un biochimistra del Universitate California in Berkeley, crede que il es plus probable que proteinas e acidos nucleic esseva formate al mesme tempore. Dr. Calvin reporta que biochimistras nunc ha monstrate que longe, simple catenas de aminoacidos pote haber essite formate sub le conditiones existente super le terra in le remote passato. On habeva pensate que solmente creaturas vivente pote haber producite le compositos a structura anular in le acidos nucleic. Sed hodie plure compositos anular, un del quales es trovate in acidos nucleic, ha essite formate in le laboratorio sin ulle intervention de processos biologic. Le mesme compositos ben pote haber essite formate in le remote passato del terra.

**Chirurgia.**—In un articulo in le Jornal del Association Medical American Drs. E. M. Todd, C. H. Shelden, B. L. Crue, Jr., e R. H. Pudenz, con W. F. Agnew, omnes del Hospital Howard Huntington in Pasadena, California, reporta un nove technica chirurgic pro le tractamento de aneurysma cerebral Illo consiste in coperir con un forte revestimento de caucho a silicona le dilatate porciones del vasculos. Iste procedimento preveni le ruptura del aneurysma e le excessive pression per illo contra le circumjacente tissus e nervos.

**Ingenieria.**—Al presente un grande obstaculo al uso de aqua prendite ab le mar es le costo del processo de dissalination. Le costo de tal aqua es approximativamente un dollar per 1000 gallones, durante que le costo de aqua ordinari es approximativamente 30 centos per 1000 gallones. A un conferentia organisate per le statounitese Officio de Aqua Salin, un scientista recommendava le combination del extraction de minerales ab le mar con le dissalination a fin de recuperar un parte del costos.

**Inventiones.**—B. B. Buchanan de Bartlesville, Oklahoma, ha recipite un patente pro su invention de un processo de dissalinar aqua. Le processo es basate super le formation e decomposition de hydratos a certe nivellos in le mar. In iste methodo un grande pipa es placiate verticalmente in le oceano. Un leve hydrocarburo es injicite in le base del pipa, resultante in le formation de hydratos. Iste compositos flotta al superficie, ubi illos se discompono ad

in aqua pur e hydrocarburo. Le consumo de energia pro le recyclamento del hydrocarburo es relativamente micre.

**Inventiones.**—J. D. H. Hughes de Wantage in Anglaterra ha recipite un patente pro su invention de un lampa incandescente que require nulle externe provision de electricitate. Illo contine un gas radioactive que produce fluorescentia in un revestimento phosphorescente al superficie del lampa. Le gas empleate es krypton-85, le qual ha le avantage de producer pauc radiation gamma con su radiation beta. Iste gas es non-toxic e ha un periodo de medie valor de approximativamente dece annos.

**Medicina Atomic.**—Studios in le laboratorios del Statounitese Fortia Aeree indica que le droga amino-ethyl-thiouonium-cysteina es un efficace protection contra le effectos de grande doses de radiation. Illo esseva plus que 80 pro cento efficace contra doses de 700 roentgen in simias, e 50 pro cento efficace contra doses de 900 roentgen. Le dose letal de radiation pro simias es 500 roentgen. Le droga es toxic in grande doses, sed causa nulle effectos de toxicitate in le doses recommendate. Le duration de su effecto protective es solmente pauc horas, sed il debe esser possibile disveloppar un pillula con un action plus prolongate.

**Meteorologia.**—In Geneva Drs. H. Wexler e M. Alaka, representante le Statos Unite, e Prof. V. A. Bugaev, representante le U.R.S.S., collabora in le preparation de un reporto super satellites pro le Organisation Meteorologic Mundial del Naciones Unite. Iste comenciamento de cooperation inter le duo naciones in iste campo de recerca es le resultado de un resolution del Assemblea General del Naciones Unite in re le uso pacibile del spatio cosmic.

**Nutrition.**—Drs. J. Brown e N. Mondz del Universitate California reporta que le injection de hormon de crescentia in humanos resulta in augmentate nivellos de acidos grasse in le sanguine. Iste effecto es simile al effecto de jejuna-meto. Quando sucros e altere hydratos de carbon es non plus disponibile, le corpore utiliza su depositos de grassia a generar energia. Iste alteration in le processos metabolic es signalate per un elevate nivello de acidos grasse in le sanguine. Theoricamente, hormon de crescentia poterea esser utilisate in le tractamento de obesitate, sed le substantia non ha essite synthetisate e non es disponibile in grande quantitates ab fontes natural. Adverse effectos lateral es etiam possibile.

**Physiologia.**—In studios conducite al Instituto National de Sanitate Mental a Bethesda, Maryland, per Dr. P. Mueller, Dr. J. Fishman, e V. Loeffler, le induction, per medio de hypnose, del emotiones de anxietate, depression, timor, e ira, resultava in elevar le nivello de libere acidos grasse in le sanguine del subjects.

**Psychologia.**—Dr. W. H. Gantt del Universitate Johns Hopkins reportava al American Societate Psychosomatic que il es facile establir reflexos conditionate que affice le rhythmo cardiac e le pression sanguinee de canes. In un experimento le sono de un campana esseva associate con le rhythmo cardiac per administrar un droga e simultaneamente sonar le campana. Subsequentemente le sono per se sufficeva a alterar le rhythmo cardiac. In un altere experimento le presentia de un persona amical habeva le effecto de reducir ab 140 ad 70 le pression sanguinee de un can neurotic. Il es evidente que le presentia e le comportamento del medico pote etiam haber un grande influenza super su patientes human.

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### GENERAL SCIENCE

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