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Comparative study of rectilinear and smooth multiwave transitions. Izv.vys.ucheb.zav.; radiotekh. 8 no.5:611-614 S-0 '65. (MIRA 18:12)

1. Submitted March 30, 1965.

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[KHYZHANIVS'KA, I.], kand.tekhn.nauk; SYRKIN, Ya., kand.tekhn.
nauk; BIOKH, K., inzh.; DOLZHKOVA, G. [Dolzhkova, H.], inzh.

Colored slag cements. Bud.mat.i konstr. 2 no.1:31-32

F '60.

(Slag cement)

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Raw material base and flow diagram for the manufacture of white cement at the Edolbunov Coment Plant. Trudy Elzhgiprotsementa no.6:3-11 164. (MIRA 17:12)

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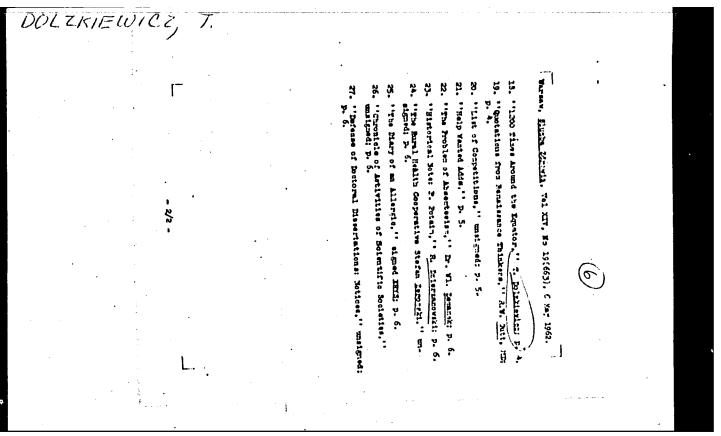
(MLRA 10:9)

17-20 J1-Ag '57.

1. Iz kefedry fakul tetakoy pediatrii (sav. - prof. P.A.Ponomareva)

II Moskovskogo meditainskogo instituta imeni N.I.Pirogova (dir. - prof. 0.V.Kerbikov)

(WHOOPING COUGH)



LISIN, A.; DOLZHIKOV, M.

Training specialists. Avt. transp. 42 no.8:48-50 Ag '64. (MIRA 17:10)

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TERESHCHENKO, A.I.; DOLZHIKOV, V.V.

Choice of the optimum form of a multiwave rectangular waveguide transition. Izv. vys. ucheb. zav.; radiotekh. 8 no.1:48-54 Ja-F '65. (MIRA 18:5)

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1. Z I Kliniki Chirurgicznej AM w Krakowie (Kierownik: prof. dr. Jozef Bogusz).

DOMA, Nada, dijun III.Jetaika marang mengamananan

Cultivating medicinel floor, a new activity of formaceutical technicanne. Farmaceut vest 14 no.36/12/24/248 163.

1. School for Pharmaceutical Technicians in Ijub jena, Ljubljana.

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Mechanization of lignite mines (from experiments at present). Mining Journal,
#2:47:Feb. 55

DOMAG, Radovan; DEVIDE, Zvonimir

New places of discovery of Phyllitis hybrida (Milde) Christensen in Adriatic islands. Acta pharm. jugosl. 4 no.4:184-187 1954.

1. Prirodosl-matematicki fakultet, Botanicki Institut, Zabreg.
(PLANTS
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Plora of the island of Vis. Acta pharm.jugosl. 5 no.1:3-42 '55. (PLANTS.

medicinal, in Tugosl.)

PECOTIC, M.; DOMAC, V.

Contribution to psychiatric medication in restlessmess in geriatrics. Neuropsihijatrija 11 no.1:84-89 '63

1. Iz Bolnice za zivoane i dusevne bolesti u Vrapou; ravnatelj: prim. dr. J.Glaser.

YUGOSLAVIA/Human and Animal Morphology - Endocrine System.

S

Abs Jour

: Ref Zhur Biol., No 5, 1959, 21574

Author

: Domac-Tesar, Biserka

Inst

: Hryatsk Natural Scientific Society

Title

: Eosinophilic Cells in the Parthyroid Gland of the

Human Fetus

Orig Pub

: Biol. glasn. Hrovatsko prirodosl. drustvo, 1956, No

9, 63-67

Abstract

: A study was made of the histological structure of the parathyroid gland of the 3 1/2-month-old human fetus. In contrast to the investigations of other scientists groups of eosinophilic cells were found in the connective tissue of the parathyroid gland. Probably the eosinophilic cells participate in calcium metabolism.

-- Yu.A. Duehkin

Card 1/1

- 32 -

DOMAC-TESAR, Biserks

Functional importance of musculi arrectores pilorum. Biol glas 15 no.1:43-47 462.

l. Zavod za histologiju i embriologiju Hedicinskog fakulteta Sveucilista u Zagrebu.

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The modern problems of water supply..p; 1. (GLASNIK, Vol. 2, No. 1/2, 1957

SO: Monthly List of East European Accessions (EEAL) LC Vol.6, No. 1.2, Dec. 1957 Uncl.

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R000410910002-4

S/263/62/000/003/C01/015 I004/1204

AUTHOR:

Domagala, Hugo___

TITLE:

Pneumatic control valve for temperature or pressure regulation

PERIODICAL:

Referativnyy zhurnal, otdel'nyy vypusk. Izmeritel'naya tekhnika, no. 3, 1962, 29, abstract 32.3.180 P. Pneumatisch gesteuertes Regelventil für Temperatur-bzw. Druckregler, GDR

patent, class, 42 q, 3/06, 42 r, 1/03, no. 20045, October 10, 1960

TEXT: A regulating valve with pneumatic centrol by means of a chamber with a sensitive membrane is proposed. Inside the chamber there is a piston whose position is determined by the given value of the pressure or the temperature. Variation of these parameters causes displacement of the piston and the flow of air through the output nozzles of the chamber is affected. This affects the pressure in the chamber and causes a displacement of the sensitive membrane. The latter is directly connected to a spring which controls the position of the valve. Examples of controlling the valve by means of pressure sensitive pickups are given.

[Abstracter's note: Complete translation.]

Card 1/1

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The anticlinal of Sabrae (Carboniferous of Upper Silesia). Bul geolog PAN 9 no.1129-33 '61.

1. Fatedra Flos Hegli, Akademia gornieso-Hutnicsa, Krakew. Presented by A. Bolewski.

(Silesia) (Geology, Stratigraphic)

DOMAGALA, Michal, mgr

Operational period of new type fishing vessels. Bud okretowe Warssawa 8 no.5:150-153 My 163.

1. Mydsial Insymieryjno-Ekonomicsny, Politechnika, Sucsecin.

DOMAGALA, R.

Report from a discussion meeting. p. 3 of cover. (PRZEGLAD SKORZANY. Vol. 11, no. 10, Oct. 1956, Lodz, Poland)

SO: Monthly List of East European Accessions (FEAL) LC. Vol. 6, No. 12, Dec. 1957.
Uncl.

DOMAGALA, T.

"A few words on the aesthetics of models, p. 829, (SKRZYDLATA POLSKA, Vol. 10, No. 52, Dec. 1954, Warszawa, Poland)

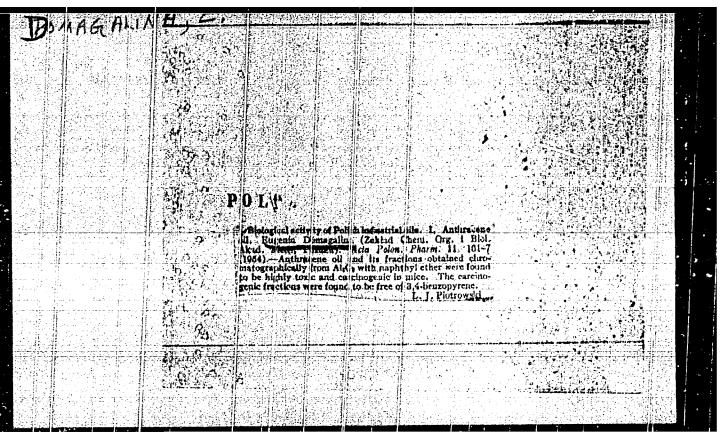
SO: Monthly List of East European Accessions, (EEAL), IC, Vol. 4, No. 5, May 1955, Uncl.

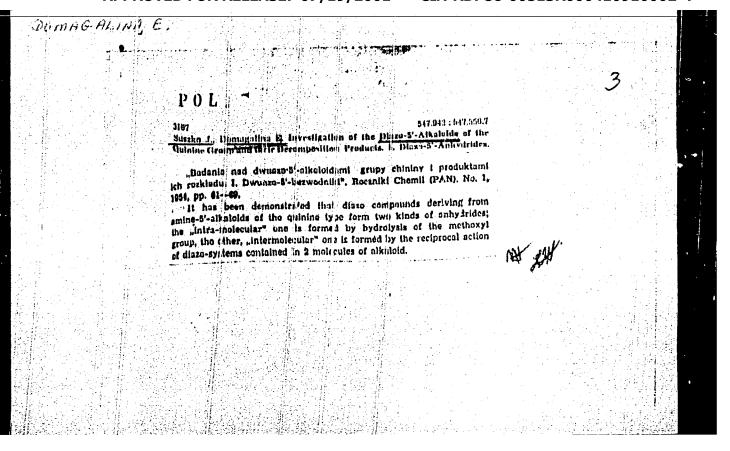
DOMAGALA, T.

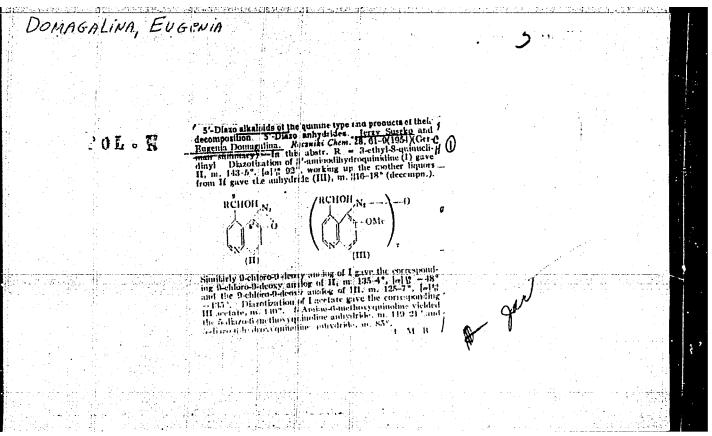
Surface calculation of stabilizers. p. 299, (SKRZYDLATA POLSKA, Vol. 10, No. 19, May 1954, Warszawa, Poland)

50: Monthly List of East European Accessions, (EEAL), LC, Vol. 3, No. 12, Dec. 1954, Uncl.

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000410910002-4







DOMAGALINA, E.

Dusko, J. Studies on diazo-5-alkaloids of the quinite group and on decomposed froducts. II. Diazo derivatives of dihydroquinidine and their transformations. p. 495.
RUCCETRI CHRI, Marszawa, Vol. 29, no. 2/3, 1955.

SC: Monthly List of East European Accessions, (EAAL), Lo., Vol. 4, no. 10, Cet. 1955, Uncl.

H-17 000 BRI ! Folund CAS CODEZ : RZKhim., No. 21 1959, No. 75772 ABS. JOUR. : Domagolina, E., Ludwiczak, R. S., and Zyczynska, L AUTHOR . Not given nist. : Beta-Sitosterol from Tall Oil Produced in Poland TITL: ORIG. 200. : Przemysl Chem, 37, no 8, 540-542 (1958) :The importance of tall oil as a valuable industrial ABSTRAUT source of phytosterol is discussed. The physical properties of Polish ST Grade tall oil have been determined and a convenient method for the extraction of phytosterol, a raw material for the production of steroid hormones, and a method for the purification of beta-sitosterol are given. From authors' summary CARD: 1/1 213

DCMACALINA, E.; SUSKO, J.

Research on diazo-5' -quinine alkaloids and on the products of their decomposition. III. Diazo derivatives of vinyl alkaloids and their transformations. p.~93.

WCCZNIKI CHEMII. (Polska Akademia Nauk) Warszawa, Poland. Vol. 33, no. 1, 1959.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 9, September 1959. Uncl.

S/081/62/000/024/051/073 B166/B186

AUTHORS: Domagalina, Eugenia, Baloniak, Sylwester

TITLE: Cyclic hydrazides of aromatic and heterocyclic dicarboxylic

acids. II. The reaction of producing hydrazines of certain

2-phenylphthalazinone derivatives

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 24, 1962, 395, abstract 24Zh361 (Ruczn. chem., v. 36, no. 2, 1962, 253 - 258 [Pol.;

summaries in Russ., Eng. and Ger. 7)

TEXT: The reaction of 2-(4'-aminophenyl)-4-chlorophthalazine (I) with N₂H₄ is difficult and the substance obtained can only be separated in the form of an acetyl derivative of 2-(4'-acetylaminophenyl)-4-acetylhydrazinophthalazinone (II). The action of N₂H₄ on 2-(2',4'-dinitrophenyl)-4-methoxy-phthalazinone (III) and 2-(2',4'-diaminophenyl)-4-methoxyphthalazinone (IV) produced 2-[2(4')-nitroso-4'(2')-aminophenyl)-4-methoxyphthalazinone (V) and 2-(2',4'-diacetyldiaminophenyl)-phthalazindi-1,4-one (VI), respectively, instead of the expected hydrazine derivatives. Nitrating 2-phenyl-4-R-phtha-Card 1/4

Cyclic hydrazides of aromatic ...

S/081/62/000/024/051/073 B166/B186

lazinone (VII) (R = Cl) (VIIa) and VII (R = OCH₃) (VIIb) gives 2-(4'-nitro-phenyl)-4-chlorophthalazinone (VIII) and III, which were reduced to I and IV respectively. The position of the NO₂ group in VIII was established by using NaOH to convert it into the well known N-(n-nitroanilino)-phthalimide (IX). The structure of III was proved by counter synthesis. VIIb was produced by reacting VII (R = Cl) with CH₂ONa, 15 ml HNO₃ (d 1.49) are added drop by drop (0°) to a solution of 10 g VIIa in 100 ml concentrated H₂SO₄, the mixture is agitated for 10 min and then poured out onto ice giving VIII, C₁₄H₈O₃N₃Cl, yield 4.5 g, m.p. 245°C (decomp.; from CHCl₃ + CH₃OH, 5: 1). A mixture of 0.5 g VIII and 40 ml 5% NaOH is heated for 50 min, whereupon it is chilled and acidified with HCl acid, giving IX, yield 0.2 g. A mixture of 2 g VIII, 10 g SnCl₂, 5 ml concentrated HCl and 40 ml glacial CH₃COOH is boiled for 2 hrs below the boiling point of the solution, this is then cooled and the sediment is treated with 10 % NaOH which gives I, C₁₄H₁₀ON₃Cl, m.p. 213 - 214°C (from CHCl₃ + CH₃OH), and the acetyl deriva-Card 2/4

Cyclic hydrazides of aromatic ...

S/081/62/000/024/051/073 B166/B186

tive, m.p. 248°C. A mixture of 2 g I, 8 ml 80 % N₂H₄·H₂O and 2 g N₂H₄·H₂SO₄ is boiled for 4 hrs in 40 ml CH₂(CH₂OH)₂, this is then cooled, 10 ml water are added and the resulting product is a crude substance with a m.p. ~196°C, which by treating with (CH₅CO)₂O is converted into II, C₁₈H₁₇O₃N₅, yield 0.3g, m.p. 298 - 300°C (decomp.; fron glycol). To a solution of 5.2 g VIIa in 80 ml absolute CH₃OH is added 1.84 g Na, this mixture is heated for 1 hr; then the hot solution is filtered and cooled giving VIIb, yield 4.8 g, m.p. 116 - 117°C (from CH₃OH). 4 g VIIb are added a portion at a time (at 10 - 20°C) to 50 ml HNO₅ (d 1.49), the solution is poured out gradually into icy water, producing III, C₁₅H₁₀O₆N₄, yield 3 g, m.p. 262 - 265°C (from glacial CH₃COOH). A solution of 0.2 g 2-(2',4'-dinitrophenyl)-phthalazindi-1,4-one in 10 ml 2 % Na₂CO₃ is boiled dry, then 5 ml (CH₃)₂SO₄ are added to the residue, this mixture is heated until a solution forms whereupon it is poured out onto ice, giving III, yield 0.1 g. A mixture of 2.4 g III, 24 ml concentrated HCl, 72 ml glacial CH₃COOH and 15 g SnCl₂ is boiled for 1.5 hrs, Card 3/4

Cyclic hydrazides of aromatic ...

S/081/62/000/024/051/073 B166/B186

the cooled mixture is diluted with water until the complex dissolves, then 20% NaOH is added to precipitate IV, $C_{15}^{H}_{14}^{O}_{2}^{N}_{4}$, yield 1 g, m.p. 247 - 248°C (decomp.; from CH3OH chloroform), and the acetyl derivative m.p. 240°C. A mixture of 1 g III, 10 ml 95 % N2H4·H2O and 10 ml absolute CH3OH is boiled for 2 hrs, after 24 hrs V is separated, $C_{15}H_{12}O_3N_4$, yield 0.2 g, m.p. 185 - 187°C (from CH,OH), also the acetyl derivative, m.p. 128 - 129°C (from alcohol). A solution of V in hot water receives an addition of NH4OH, and H_0S is bubbled through at 60 - $70^{\circ}C$, after which the mixture is acidified with HCl and is heated, filtered and boiled down to a small volume, whereupon IV is precipitated by the action of NaOH. A mixture of 0.6 g IV, 10 ml 95 % N2H4.H20 and 5 ml glycol is boiled for 4 hrs, it is boiled down in vacuo, then the residue is heated for 2 min with excess (CH3CO)2O, giving VI, C₁₈H₁₆O₄N₄, yield 0.5 g, m.p. 357°C (decomp.; from glycol). For communication I see RZhKhim., no. 9, 1960, 34829. [Abstracter's note: Complete translation. Card 4/4

DOMAGALINA, Eugenia; OCHYNSKA, Janina

New methods of determining the total alkaloid content in the roots of Chelidonium maius. Chem anal 8 no.2:225-232 '63.

1. Department of Pharmaceutical Chemistry, Academy of Medicine, Lublin.

SUKHANOV, A.F., doktor tekhn.nauk; hUTUZOV, B.N., kand.tekhn.nauk; KANTOVICH, L.I., gornyy inzh.; DOMAKHOVSKIY, A.V., gornyy inzh.

Determining the optimal conditions for roller boring in hard, mildly abrasive rock in strip mines. Gor.zhur. nc.3:35-39 Mr '65. (MIRA 18:5)

1. Mcskovskiy institut radioalektroniki i gornov elektromekhaniki.

KUTUZOV, B.N., kand. tekhn. nauk; MIKHEYEV, I.G., gornyy inzh.; DOMAKHOVSKIY, A.V., gornyy inzh.

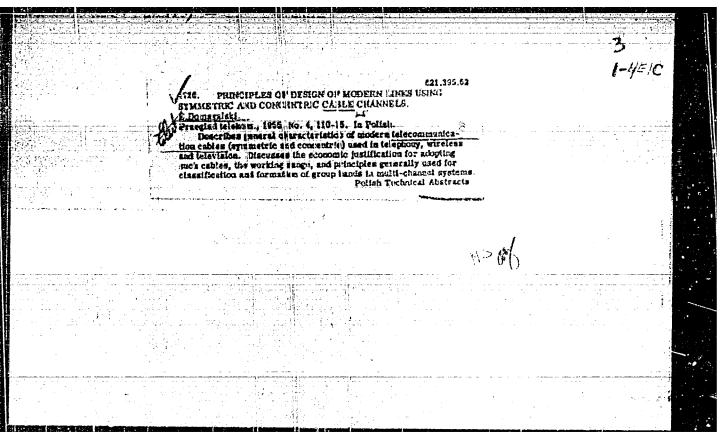
Effect of the amount of compressed air used on the efficiency of roller bit drilling. Gor. zhur. no.4:32-34 Ap 165. (MIRA 18:5)

1. Moskovskiy institut radioelektroniki i gornoy elektromekhaniki.

COMAGALSKY, E.

Linie telekomunikacyjne. (Ksiazka zatwierdzona: do uzytku szkolnictwa zawodowego Warszawa, Wydawn. Komunikacyjne, 1954.) 422 p. (Telecommunication lines; authorized for use in vocational schools. illus., diagrs., tables)

SD: Monthly list of East European ACCrasions List, (EEAL), LC, Vol. 4, No. 11 Nov. 1955, Uncl.



Demits AND Th

DOMAGALSKI, H.

Tar-paper roofing. Frzeglad Drog. Dodatek.

p. 137 (Enzeglad Kolejowy Drogowy. Vol. 8, no. 9, Sept. 1956. Marszawa, Poland)

Honthly Index of East European Accessions (EEAT) LC. Vol. 7, no. 2, February 1958

DOMAHIDY, HIKLOS

A borkezeles nehany kerdese. A Begyujtesi Miniszterium tankonyviro munkakozossegenek munkaja. Felelos: Domahidy Miklos es Bekefi Gueztav Elelmiszeripari es Begyujtesi Konyv- es Iapkiado Vallalat, 1952, 36 p. Some problems of wine making

SO: Monthly List of East European Accessions, Vol 3 No 2 Library of Congress Feb 54 Uncl

DOMARIDY, M.

Modern wine cellars. p. 117. ELEINEXESI IPAd. (Mezogazdasagi Ipari Tudomanyos Egyesulet) Budapest. Vol. 10, no. 4, Apr. 1956.

SOURCE: East European Accessions List (EEAL) Library of Congress Vol. 5, no. 8, August 1956

DOMAHIDY, M.

The Exhibition of Instruments of the Food Industry. p. 126. ELEIMFZESI IPAR. (mezogazdasagi Ipari Tudomanyos Egyesulet) brdapest. Vol. 10, no. 4, Apr. 1956.

SOURCE: East European Accessions List (EEAL) Library of Congress Vol. 5, no. 8, August 1956

	н-27
CATEGORY	# Hungary
ABS. JOUR.	: RZKhim., No. 51960, No.
AUTHOR TEST. TITLE	Mercz, A. and Domaniay, The Not given The Designof a Prototype Plantfor the Processing
ORIG. FUB.	Smooleszeti Kutato Int Evk, 11, No 2, 2012/7/ 1952-1957 (1958 The project provides for the location of the presses at the periphery and assures the establishment of simple and economic conditions for the lishment of simple and economic conditions for the production of high-quality wines. Design data production of high-quality wines. Design data are presented on the volume of the pressures to [sic] and for the supply of specific pressures to [sic] and for the supply of specific pressures to the various types of presses. A method has been the various types of presses.
CARD	developed for carrying the productivity of the purpose of comparing the productivity of the purpose of comparing the productivity of the purpose of comparing the productivity of the purpose of comparing the purpose of comparing the purpose of comparing the purpose of the

H-27 Hungary COUNTRY CATEGORY 19781 RZKhime, No. 5 1960, No. ABS. JOUL. AUTHOR INST. TITLE ORIG. PUB. : order to improve the operation of the hydraulic presses, devices for the automatic regualtion of ABSTRACT the pressure in the buckets are proposed. The prototype design provides for a ca 60% increase in press productivity at a saving in manpower (5-7 operators) and no decrease in the high quality of the wine. Eight drawings of the equipment and the format of the time study sheets are included. From authors's summary 363 CARD1 2/2

DOMAINKO, Dragutin, prof. inz.

Technology and economics. Energija Hrv 12 nc.1/2:42-43 163.

1. Ekonomski fakultet, Zagreb.

DOMAINKO, Dragutin, univ. prof., dipl. inzenir (Zagreb, Gunduliceva ul. 60).

Importance of the knowledge of economics and work planning in the training of technical and vocational experts. Automatika 4 no.4:227-228 '63.

DOMAINKO, Dragutin, inz., prof. (Zagreb, Gunduliceva 60)

Role of economic and applied sciences and the science of labor organization in the formation of the Yugoslav experts with University degrees. Tehnika Jug 18 no.7:Supplement: Organizacija reda 13 no. 7:1366-1368 J1'63.

1. Univerzitet u Zagrebu.

DOMAKHIN, Sereifin Andreyevich

[Responsibility for crimes in automotive transportation; problems in vicination of traffic regulations by transport workers] Otvetstven-in vicination of traffic regulations by transport workers] Otvetstven-in vicination of traffic regulations by transport workers] Otvetstven-in vicination of traffic regulations with transports. Hoskva, narushenii pravil dvisheniia rabotnikami avtotransporta. Hoskva, (MIRA 10:1) Gosyurizdat, 1956. 49 p.

(Transporation, Automotive—Law and legislation) (Criminal law)

AFONICHEVA, A.I. (Kaluzhskaya obl.); DOMAKHINA, Ya.V. (Kaluzhskaya obl.)

Baryatino station. Zashch.rast. ot vred. i bol. 9 no.11:41 164.

(MIRA 18:2)

DOMAN, I.

HUNGARY / Diseases of Farm Animals. General Problems. R

Abs Jour: Ref Zhur-Biol., No 8, 1958, 35786.

Author : Doman, Imre Inst : Not given.

Inst : Not given.
Title : Results of Using ACTH in Veterinary Practice.

Orig Pub: Magyar allatorv. lapja, 1957, No 4-5, 118-120.

Abstract: The preparation was tested with positive re-

sults on pigs in cases of degeneration and inflammation of the liver, as well as on horses with acute serotic dermatitis present in allergic dermatitis. Also, it was tested on gouty arthritis in chickens, and in kotosis of sheep

and goats.

Card 1/1

——————————————————————————————————————	
MUNCARI DOMAN, Inre, Dr., jaras chief veterinarian (jarasi feellatoryes); Seer-	
vas.	
Budapost, Magyar Allatorvosok Lapia, Vol 18, No 2, Feb 62, pp 57-89. Budapost, Magyar Allatorvosok Lapia, Vol 18, No 2, Feb 62, pp 57-89. Mostract: [Author's English summary modified] The author describes two describes in which lapinized virus vaccine and swine fever serum ware used used in which lapinized virus vaccine and swine fever serum ware used uffectively in the control of the infection of swine hards, our tenerality veterinary sanitary measures. Some disagreeable experiences with the lapinized vaccine are also reported. There are no references.	
!	

DCMAN, Imre, dr., jarani frallatorvos (bizarvas)

Data on the reliability of intradermic tuberculin tests. Magy ellatory lap 19 nc.3:109-111 Mr 164

DOMAN, Imre. Dr. Jaras chief veterinary, Szarvas.

"Mass Losses Among Suckling Pigs Caused by Mammary Dermatitis of the Dams."

Budapest, Magyar Allatorvosok Lapja, Vol 21, No 3, Mar 66, pages 133-134.

Abstract: [Author's English summary modified] Mammary dermatitis of nursing sows was mostly observed during winter. Its first symptom is reddening of the skin followed by the formation of small nodes and blebs as well as a discharge from the skin of the udders. The fluid hardened into a covering on the entire udder consisting of scab membrane. The teats were covered by a thimble-shaped scab of blackish or grayish-black color which plugged their orifices and could be removed after ? days as a cap. As a consequence of the disease, 120 piglets (7-14 days old) died of starvation. The affliction was controlled by local and general treatment, supplementary feeding of the piglets and improvement of the hygienic conditions. Streptococci were isolated from the diseased parts. It may have been rubbed into the skin by the sucking piglets from its origin in the mouldy bedding. Exanthema, i.o. coccogenic mammary eczema in females and scrotal eczema in males, is also known to occur on the skin of people working with harvested straw during late summer. No references. 1/1

- 66 -

HUNGARY

DOMAN, Imre, Chief Jaras Veterinarian, Dr., in Szarvas.

"Mass Occurrence of Gastroenteritis in Pig Stocks"

Budapest, Magyar Allatorvosok Lapja, Vol 21, No 6, Jun 1966, pp 251-253.

Abstract: The symptoms of gastroenteritis in pigs, taking a great toll in Hungarian pig stocks, were described. The author describes his experiences with this disease and concludes that it is not the same as the disease designated as infectious gastroenteritis in the literature. The differences are both pathogenic and clinical in nature. He designates the disease as virus gastroenteritis. The incidence in Hungary appears to be increasing. No references.

1/1

HUNGARY

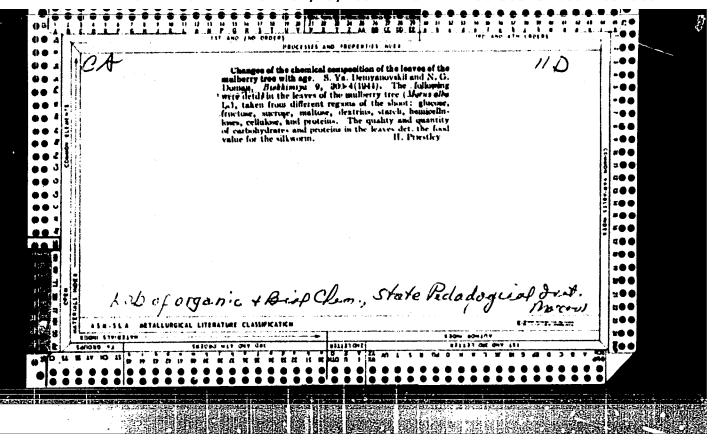
DOMAN, Imre, Chief Jaras Veterinarian, Dr., in Szarvas.

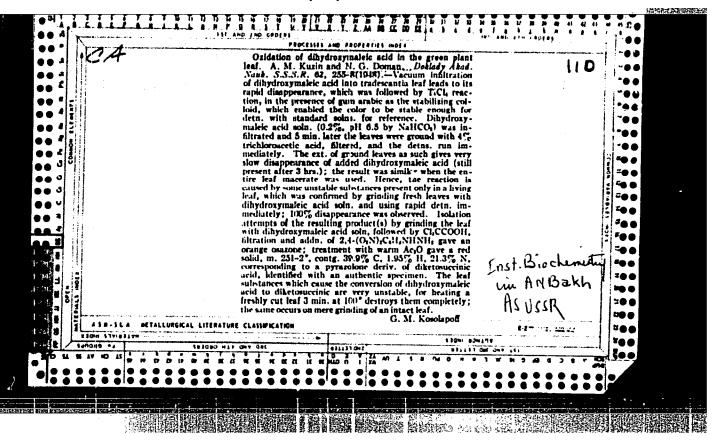
"Mass Occurrence of Limb Diseases in Hogs"

Budapest, Magyar Allatorvosok Lapja, Vol 21, No 6, Jun 1966, pp 274-275.

Abstract: The author describes skin-thickening, abscesses, ulcerous wounds, phlegmous processes, panaritium, and various types of joint inflammation observed in a great number of hogs kept in State farms. The incidence was highest during the winter months, when it affected up to 15% of the stock. The observations were briefly described and discussed. Attempts were made to assign the causes for the various conditions noted. Heans for combating the various diseases were investigated. No references.

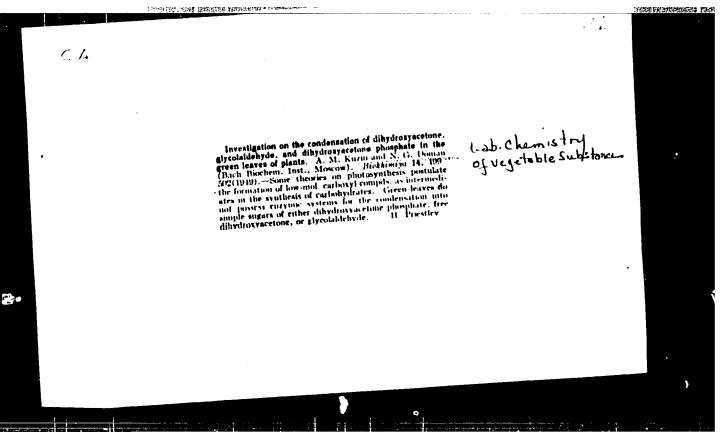
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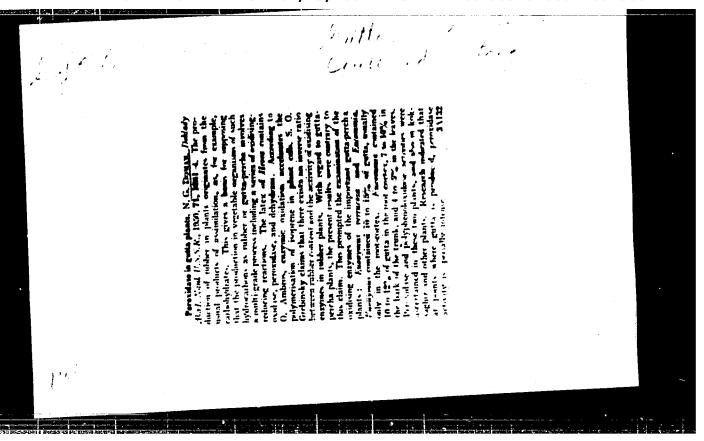




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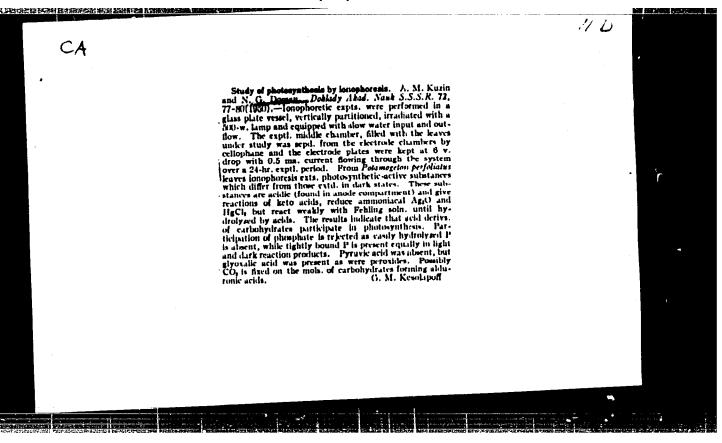
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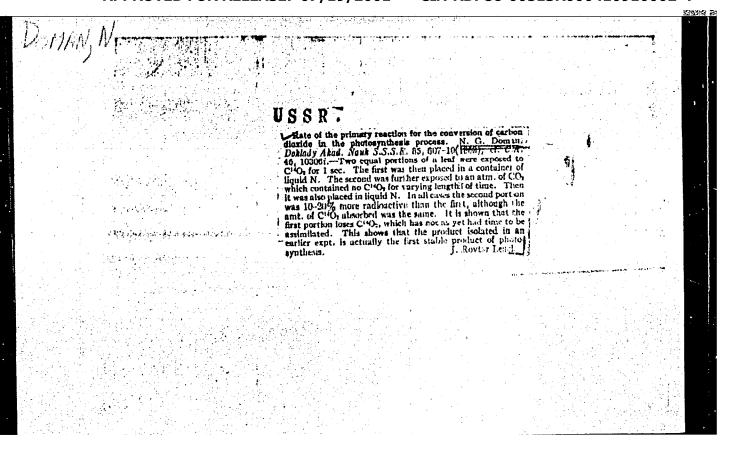
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- 1. DOMAN, N. G.; KAGAN, Z. S.
- 2. USSR (600)
- 4. Chromatographic Analysis
- 7. Chromatographic determination of phosphoric esters by distribution on paper, Biokhimiia, 17, No. 6, 1952.

9. Monthly List of Russian Accessions, Library of Congress, March, 1953. Unclassified.

radiation were placed in a chamber with 0.8% CO₁ with radioactive CO₂ (or 1 sec., then transferred to a chamber with ontinary CO₂ (0.5%) and exponed to light for various periods. After eath, with hot H₂O₃ the est, was catd, with Et₂O and evaped, in wh as and the residue examil, for radioactivity and studied chemically, by addin, of RtOH (to RtC) yielding a ppt. A, the mather liquor from which with ale. BaCk gave solid B, and its mother liquor from which with ale. BaCk gave solid B, and its mother liquor from which set of fractions on cations and anion-exchange resims. The results show that all labeled C even in shortest exposures goes into solin, from which over 80% is pptd as solid A. As exposure to plain CO₃ is increased the labeled C goes from fraction A to issuit. Fraction 80, in NOW RtOH. Fraction B gives irregular results. In short exposure some 6% of labeled C is in fraction not pptd, by ale, BaCk, but longer exposures increase its concern in this fraction. Expts, with keeping the leaves, after 1-sec. exposure, in the dark chambers gave results similar to those in "light" expts, except that the residual most, fraction is unchanged in darkness, while on irradiation is suchanged in darkness, while on irradiation is those a significant increase. The results indicate that the primary photosynthetic products cannot be substances of low mod. wt. The nature of intermediate products of photosynthesis N. G. Ibanan (A. N. Bahl: Blachem: Inst., Museum). Probledy Third, Nauh N.N.R. 86, 1917-20(1932). - Plants of Photoslus vulgerss were trudiated with incandescent bulbs while growing in usual sand culture. Leaves cut after ir-



L 7056-66 EWT(1)/FS(7)-3 DD

ACC NR: AP5028095

SOURCE CODE: UR/0326/65/012/006/1005/1011

AUTHOR: Shkol'nik, R. Ya.; Doman, H. G.; Spektorov, K. S.; Lin'kova, Ye. A.

ORG: Institute of Biochemistry im. A. N. Bakh, Academy of Sciences, SSSR; Institute of Plant Physiology im. K. A. Timiryazev, Academy of Sciences, SSSR, Moscow (Institut biokhimii Akademii nauk SSSR i Institut fiziologii rasteniy Akademii nauk SSSR)

TITLE: Insoluble products of photosynthesis of a synchronous Chlorella pyrenoidoss culture at different stages of its development

SOURCE: Fiziologiya rasteniy, v. 12, no. 6, 1965, 1005-1011

TOPIC TAGS: photosynthesis, chlorella, synchronous culture, chromatography

ABSTRACT: As part of the continuing effort to determine the intermediate products of photosynthesis, an attempt was made to identify those radioactive products of photosynthesis which cannot be extracted from a synchronous culture of Chlorella pyrenoidosa with acidified alcohol (25C). A chart of the solvents used in chromatography and the steps taken is given in the original article. It was found that the composition of the residue depends both on the duration of exposure to light and on the stage of development of the culture. Analysis showed this residue to consist of: 1) phosphorylated sugars and phosphoglyceric acid (both of which are partially extracted by acidified alcohol at room temperature); 2) substances of the polysaccharide type; 3) substances of a protein character; and 4) certain unknown substances, which remain

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at the starting point during chromatography even when several solvents are used. Polysaccharide-type substances appeared in the insoluble residue after only 2 sec of photosynthesis. After 5 min of photosynthesis in C¹⁴O₂, the composition of the insoluble residue of a synchronous Chlorella culture in the fourth stage of development differed sharply from the composition of such a residue in the first and third stages of development. Sugars present in the residue as a result of the hydrolysis of polysaccharides also differed in composition depending on the developmental stage. Note: the four developmental stages of a synchronous culture of Chlorella pyrenoidosa selected were: 1) autospores (20 min of illumination); 2) 3 hr, 20 min of illumination; 3) 7 hr, 20 min of illumination; and 4) end of divison inside the mother cells and beginning of egress of autospores (9 hr, 20 min of illumination). Orig. art.

SUB CODE: LS/ SUBM DATE: 150ct64/ ORIG REF: 004/ OTH REF: 005/ ATD PRESS:

DOMAN, N. G., KUZIN, A. M., FRIMIT, Ya. V., and KHUDYAKOVA, F. I.

Problem of diversity of primary products of photosynthesis in different species of plants. Dokl. AN SSSR 86, No 2, 1952.

DOMAN, N.G.; TERENIN, A.N., akademik.

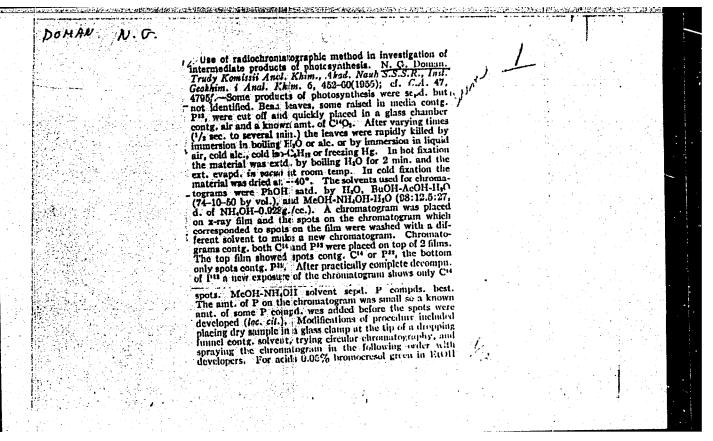
Secretion of primary products in photosynthesis. Dokl.AN SSSR 93 no.1:115-117 N '53. (MLRA 6:10)

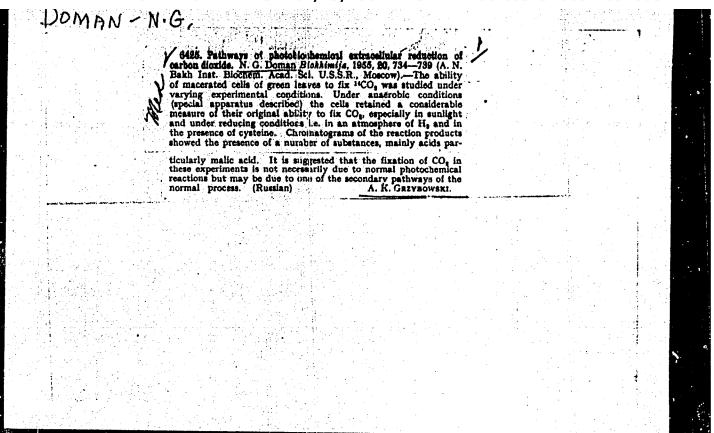
1. Akademiya nauk SSSR (for Terenin). 2. Institut biokhimii im. A.N.Bakha Akademii nauk SSSR (for Doman). (Photosynthesis)

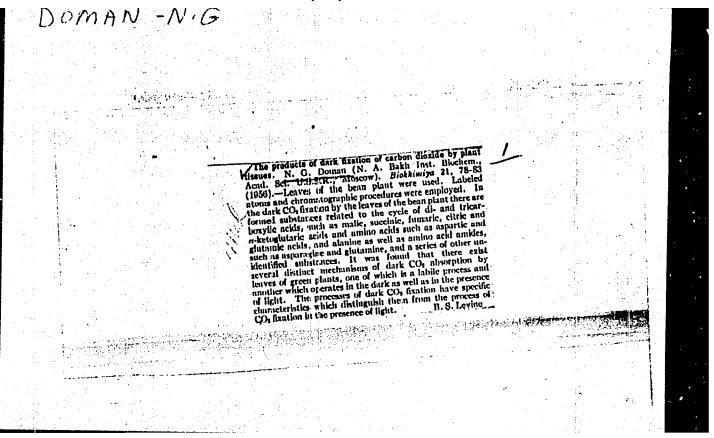
DOMAN, N. G.

Chemical Abst. Vol. 48 No. 3 Feb. 10, 1954 Rubber and Other Elastomers A nechologistic process and for the attimation of patter and of rubber maints. N. C. Doman (Stad. Sci. U.S.S. R., Moscow). Biokaimiyo 16, 1660-171837.—The material to be analyzed is air-dried and pround to hoxogeneity; 0.05-0.5 g. of the material is placed in filter paper bags. All such packages are placed in a glass flask and covered with acetone (50-100 cc. per g. of sample), and extd. over a hot water bath, with a return condenser, for 1 hr. The acetone is poured off and the extn. repeated 3-5 times. It is recommended that once during the repented extn. the samples be dried of acetone and moistened with a few drops of chloroform or benzene, which must be thoroughly evapt. before acetone extn. is recommenced. When extn. is judged complete, samples are dried at room temp., each package is placed in a separate 25-50-cc. flask (to which is added 10 cc. benzene) the cork stoppered, and the wiole shaken for 3 hrs. on a shaking machine. For nephelometric detus., 2 cc. of the benzene ext. is used. To this are added gradually with shaking. 5 cc. methanol contg. 0.02% triethylamine and 1% H.O, kept at 25°. A turbid mixt. develops which is kept at 25°. Nephelometric detus. are carried out in duplicate after 5 and 60 min. following final prepn. of specimens. A graph converting nephelometric readings into corresponding wt.-values is presented. The results of nephelometric detus. of gutta and rubber in plants vary with the type of material, degree of polyrierization, und purification, method of their soln., prepn., the strict adherence to procedures followed, etc. Agreement between duplicate tests by the nephelometric method was closer than by the gravimetric. The method is characterized by a high degree of versatility.

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USSR/Plant Physiology. Respiration and Metabolism

I-2

Abs Jour : Ref Zhur - Biol., No 20, 1958, No 91313

huth r : Dagu N.C.

Inst

: Institute for Blochemistry, AS USSR : The Pert of Photobiochemical Reactions in the Process of Titlu

Reducing Sulfates with the Green Leaves of Plants

Orig Pub : Biokhimiya, 1957, 22, H. 4, 715-724

Abstract : Two-weeks old been plants were placed in darkness for 1-2

hours. The roots were then imported in the diluted (1:10) Knopp's solution containing 835, and left in darkness for 10-20 hours. After this, one leaf was left in the light for 4-10 hours. The ogher was shaded. The light contributed to the reduction of sulfates and to the accumulation of protein S in the leaf. With this, no correlation was observed between the intensity of the reduced sulfates and the content of soluble sugars in the leaf. Photosynthesis had no effect on the reduction of sulfates since the light accelerated this process and CO2 was not present in the atmosphere. It is

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USCR/Plant Physiology. Respiration and Metabolism

Als Jour : Ref Zhur - Mol., No 20, 1958, No 91313

believed that the participation of light causes the breaking of the disulfide bond in the molecule of the lightedic [?] acid resulting in the diredical form which then combines with hydrogen. Further assumption of the kip idic [?] acid may be linked with the formation of various other 3 compounds resulting in the accumulation of protein S. The work was carried in the Institute of Biochemistry, Academy of Sciences, USSR. -- O.V. Bogdashavskaya

1. INSTITUT bioKhimii im. A.N. BAKha

AN SSSR MOSKUA.

(PLANTS. - FECT OF LighT ON)

OXIDATION- Reduction Reaction)
(SILFATES) 10 : 2/2

Card

VAKLINOVA, S.G.; DOMAN, N.G.; RUBIN, B.A.

Biffect of different nitrogen forms on the assimilation products of leaves and their distribution in aerial and underground organs of corn seedlings [with summary in English]. Fiziol.rast. 5 no.6:516-523 (MIRA 11:12) N-D 58.

> 1. Institut rasteniyevodstva Bolgarskoy AN, Sofiya; Institut biokhimii imeni A.W. Bakha AW SSSR, Moskva. (Corn (Maise) -- Fertilisers and manures)
> (Plants, Effect of nitrogen on) (Plants -- Assimilation)

SOV/20-122-1-31/44 Doman, N. G., Khadzhi-Murat, L. N., . AUTHORS:

Demina, S. Ye.

The Unity and the Particular Traits in the Way of Carbon TITLE:

Assimilation by Different Plant Species (Yedinstvo i osobennosti puti assimilyatsii ugleroda razlichnymi

vidami rasteniy)

Doklady Akademii nauk SSSR, 1958, Vol 122, Nr 1, PERIODICAL:

pp 111 - 113 (USSR)

In a paper worked out under the participation of the author mentioned first in the title (Ref 1) is was ABSTRACT:

proved in the case of 17 plant species from 12 families that especially if they are genetically closely related the ways of their C140 in assimilation are very similar. It is true, however,

of one second duration after the C140, fixation the specific type of metabolism of the plants concerned has an effect upon the ratio of the forming products. The present investigation has the aim to fill the gaps

in the knowledge concerning the concrete mechanism of Card 1/4

The Unity and the Particular Traits in the Way of Carbon Assimilation by Different Plant Species

507/20-122-1-31/44

CO, assimilation, particularly in the initial stages. There are contradictions with respect to the problem of the nature of the initial products of CO2 assimilation in connection with photosynthesis (Refs 2-6). Leaves of bean (bot bean), begonia, sugar beet and tobacco were used as experimental objects. They differ greatly with respect to the type of metabolism. The method of investigation is described in reference 7. The results showed that in the case of the shortest exposure of 1 second duration phosphoglyceric acid is formed in the leaves of all experimental plants. The exposure was carried out in the presence of C1402. In begonia, sugar beet and tobacco almost the total radioactivity was concentrated in this acid. In the bean, however, this acid is formed as a stable initial product of photosynthesis but it changes rapidly to free glyceric acid. In beans sometimes a considerable radioactivity is observed at short exposures in a substance which has so far not been identified (Figs 1,3). In this

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The Unity and the Particular Traits in the Way of Carbon Assimilation by Different Plant Species

507/20-122-1-31/44

case probably an independent fixation of CO₂ is concerned which is in connection with the synthesis of any aromatic substance by means of carboxylation. The results of the investigations show that apart from the unity of the main stages of the assimilation ways of carbon the specificity of metabolism becomes obvious already in the beginning. Already the first product - phosphoglyceric acid (as well as its predecessors) changes according to scheme into at least 3 directions: a) reduction, b) oxidation and c) dephosphorylation. On the whole it is, however, reduced by entering the photosynthetic carbohydrate cycle (Ref 7). Thus, other natural ways are basically not excluded (Refs 9,10). There are 1 figure, 1 table, and 10 references, 7 of which are Soviet.

ASSOCIATION:

Institut biokhimii im.A.N.Bakha Akademii nauk SSSR (Institute of Biochemistry imeni A.N.Bakh, AS USSR)

Card 3/4

AUTHORS: Doman, N. G., Vaklinova, S. G. S0Y/20-122-4-32/57

Mha 1704 and an of 1710 and 1711

TITLE: The Effects of Different Nitrogen Forms on the Composition

of Labelled Photosynthetic Products in Maize and Phaseolus (Vliyariye raznykh form azota na sostav mechenykh produktov

fotosirteza u kukuruzy i fasoli)

PERIODICAL: Doklady Akademii nauk SSSR, 1956, Vol 122, Nr 4,

pp 653 - 656 (USSR)

ABSTRACT: Initially, various factors are discussed which in-

fluence the distribution of the photosynthetically assimilated carbon (Refs 1-7). Under these conditions, an improved nitrogen nutriment is said to increase the incorporation of carbon in the proteid complex

and in the amino acids (Ref 7). Under certain conditions, ammonia nitrogen promotes the formation of the photosynthetic process. Nitrate nitrogen, however, always does so (Ref 8). Therefore, the authors have supposed that the nutrition of the plant with nitrate (oxidized and ammonia (reduced) nitrogen) essentially affects the formation of photosynthetic products (also of

Card 1/4 intermediates), as was proved for chlorophyll (Ref. 8). In

The Effects of Different Nitrogen Forms on the SOY/20-122-4-32/57 Composition of Labelled Photosynthetic Products in Maine and Phaseolus

order to clarify this question, leaves of 10-15 day old maire and phaseolus-plants were exposed in an atmosphere containing C14 for 1,5 and 10 minutes (method according to reference 9). The leaves were from plants which were cultivated either with nitrate - or ammonia nitrogen or without nitrogen. From the results in table 1 it is seen that the highest pertion of radioactivity in the maize leaves is in the fraction soluble in alcohol. The alcohol-insoluble portion is barely 1-5% and increases with prolonged exposure. In the phaseolus, however, the insoluble portion is 24% of the total activity. This difference is due to the higher amount of proteins built up in the legumes, most of these proteins being insoluble in 80% alcohol. The highest amount of compounds which are insoluble in alcohol is found in the leaves of plants brought up without nitrogen, with an exposure of 5 and 10 minutes. Here, starch is produced in higher quantities (Refs 11,12). From table 1 it is seen that the nitrogen forms exert no significant influence on the ratio of the radioactivity

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The Effects of Different Nitrogen Forms on the 507/20-122-4-32/57 Composition of Labelled Photosynthetic Products in Maize and Phaseolus

> of all the compounds, soluble and insoluble in alcohol. The experimental results, however, show that the nutrition of plants with various nitrogen forms increases the radioactivity of the free amino acids. The findings further prove that the nutrition of plants with various nitrogen forms affects the method of carbon assimilation by producing distinct differences in the composition of labelled photosynthetic products. Further communications on character and cause of these differences will follow. There are 1 figure, 3 tables, and 17 references, 15 of which are Soviet.

PRESENTED:

July 23, 1958, by A.I.Oparin, Member, Academy of

Sciences, USSR

SUBMITTED: July 15, 1958

Card 3/4

The Effects of Different Nitrogen Forms on the S07/20-122-4-32/57 Composition of Labelled Photosynthetic Products in Maice and Phaseolus

Card 4/4

DOMAN, N.G.

"Investigating the Nature of Early Products of Photosynthesis."

Paper submitted for the Int'l Botanical Congress, Montreal, Canada, 19-29 Aug 1959.

A.N. Bakh Institute of Biochemistry, Academy of Sciences U.S.S.R., Moscow.

DOMAN, N.G.

Relation between photosynthesis and respiration in plants [with summary in English]. Biokhimiia 24 no.1:19-24 Ja-F 159.

(MIRA 12:4)

1. Institute of Biochemistry, Academy of Sciences of the U.S.S.R., Moscow.

(PLANTS--RESPIRATION) (PHOTOSYNTHESIS)

DOMAN, N.G.; SHKOL'NIK, R.Ya.

Conversion of radiocarbon-labled sedoheptulose in kidney bean, tobacco and Sedum spectabile leaves. Biokhimiia 24 no.2:187-191 Mr-Ap 159 (MIRA 12:7)

1. Institute of Biochemistry, Academy of Sciences of the U.S.S.R., Moscow.

(MONOSACCHARIDES, metab.

sedoheptulose conversion in bean, tobacco & Sedua
spectabile leaves, radiocarbon studies (Rus))

1:

SHKOL'KYK, R.Ya.; DOMAN, N.I.

Transformations of 134-labeled glyceric acid in string bean leaves.

Biokhimiia 24 no.5:899-903 S-0 559. (MIRA 13:2)

1. Institut biokhimii im. A.N. Bakha Akademii nauk SSSR, Moskva.
(GLYCERIG ACID) (PLANTS--METABOLISM)

Paper chromatographic fractionization of metabolites. Biokhimiia (MIRA 14:5) 25 no.2:276-281 Mr-Ap 160. SHKOL'NIK, R.Ya.; DOMAN, N.G. 1. Institut biokhimii im. A.N.Bakha Akademii nauk SSSR, Moskva.

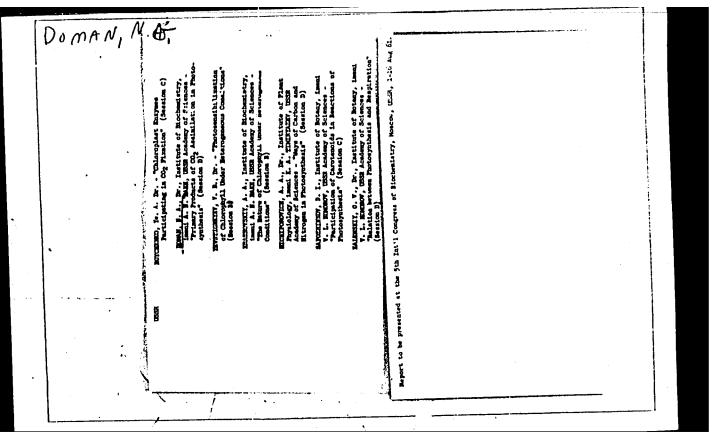
(PAPER CHF.OMATOGRAPHY) (METABOLISM)

ROMANOVA, A.K.; DOMAN, N.G.

Fixation products of labeled carbon dioxide discovered in hydrogen bacteria during the process of chemosynthesis. Mikrobiologiia 29 no.6:795-801 N-D *60. (MIRA 14:1)

1. Institut biokhimii imeni A.N.Bakha AN SSSR.
(BACTERIA, HYDROGEN) (GARBON DIOXIDE)

DOMAN, N. G., ROMANOVA, A. K. (USSR) The Path of Carbon in Chemosynthesis. reprot presented at the 5th Int'l. Biochemistry Congress, Moscow, 10-16 Aug. 1961



DOMAN, N.G.; KRASNOVSKI!!, A.A.; ROMANOVA, A,K.; VOROB'YEVA, L.M.; PAKSHINA, Ye. W.; TERENT'YEVA, Z.A.

Chlorophyll synthesis and carbon dioxide fixation in etiolated barley seedlings during exposure to light. Fixiol. rast. 8 no.1:3-12 '61.

1. A.N. Bakh Institute of Biochemistry, U.S.S.R. Academy of Sciences, Moscow.

(Chlorophyll) (Photosynthesis)

SHKOL'NIK, R.Ya.; DOMAN, N.G.; KOSTYLEV, V.N.

Chromatographic partition of metabolism products into fractions. Biokhimiia 26 nc.4:621-625 Jl-Ag 161. (MIRA 15:6)

1. Institute of Biochemistry, Academy of Sciences of the USSR,

(CHROMATOGRAPHIC ANALYSIS)
(METABOLISM)

ROMANOVA, A.K.; DOMAN, N.3.; TERENT'YEVA, Z.A.

Effect of the age of the culture and composition of the nutritive medium on the products of $C^{14}O_2$ assimilation by hydrogen bacteria. Dokl.AN SSSR 138 no.1:231-234 My-Je *61. (MIRA 14:4)

1. Institut biokhimii im. A.N.Bakha AN SSSR. Predstavleno akademikom A.I.Oparinym.

(BACTERIA, HYDRCGEN)
(BACTERIOLOCY -- CULTURE AND CULTURE MEDIA)
(CARBON DIOXIDE)

DOMAN, N.G.; ROMANOVA, A.K.; TERENT'YEVA, Z.A.

Transformation of some volatile organic substances absorbed by leaves from the atmosphere. Dokl.AN SSSR 138 no.3:702-705 My 161.

(MIRA 14:5)

1. Predstavleno akademikom A.I. Kursanovym.
(Plants-Assimilation)

DOMAN, N.G.; ROMANOVA, A.K.; TERENT'YEVA, Z.A.

Pathway of carbon in chemosynthesis; nature of the early product of chemosynthesis in hydrogen bacteria. Dokl.AN SSR 138 no.6:1456-1459 Je '61. (MIRA 14:6)

1. Institut biokhimii im. A.N.Bakha AN SSSR. Predstavleno akademikom A.N.Tereninym.

(BACTERLI, HYDROGEN) (BIOSYMTHESIS) (CARBON DIOXIDE)

DOMAN, H. G.

"On the Pathway of C-Assimilation by Photosynthesizing and Chemosyntesizing Organisms." (Les voies d'assimilation du carbone dans les organismes on photosynthese ou en chimiosynthese.)

report presented at the Iktl. Colloquium on Photosynthesis, Gir-Sur-Yvette, France, 23-27 Jul 1962.

Inst. of Blocken, Acad Sci. UNER

SHKOL'NIK, R.Ya.; ABDURAKHMANOVA, Z.N.; DOMAN, N.G.

Methods of isolating the products of an early stage of photosynthesis. Dokl. AN Tadzh. SSR 6 no.5:40-45 '63.

(MIRA 17:4)

1. Otdel fiziologii i biofiziki rasteniy AN Tadzhikskoy SSR. Predstavleno akademikom AN Tadzhikskoy SSR K.T.Poroshinym.

SHKOL'NIK, R.Ya.; DOMAN, N.G.

Transformations of phosphoglyceric acid-C¹⁴ in the leaves of kidney beans and sugar beets. Fiziol. rast. 10 no.3:295-299 **Ky-Je** '63. (MIRA 16:6)

1. A.N.Bakh Institute of Biochemistry, U.S.S.R. Academy of Sciences, Moscow.
(Glyceric acid) (Photosynthesis)

DOMAN, N.G.; OSNITSKAYA, L.K.

International symposium on photosynthesis in gives Sur-Yvette. Mikrobiologiia 32 no.2:375-378 Mr-Ap '63. (MIRA 17:9)