

ROBERT-NIKU, M.TS:

Chemistry and technology of chemicopharmaceutical preparations Moskva, Medgiz,  
1954. 441 p. (55-16236)

1. Chemistry, Medical and pharmaceutical.

ROBERT-NIKU, M.TS.; KUVSHINSKIY, M.N., redaktor; BOBROVA, Ye.N.,  
tekhnicheckiy redaktor

[Chemistry and technology of chemico-pharmaceutical preparations]  
Khimia i tekhnologiya khimiko-farmatsevticheskikh preparatov. Mo-  
skva, Gos. izd-vo med. lit-ry, 1954. 441 p. (MLRA 7:9)  
(Chemistry, Medical and pharmaceutical)  
(Drug industry)

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

1ST AND 2ND GROUPS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH GROUPS

CA 19

Iron tannate. M. Tz. Robert-Nik and V. M. Malinshch. Russ. 37,707, July 31, 1944. Fe tannate is prepd. by passing an alk. soln. of tannin downward through a tower filled with Fe (rods, sawings, etc.) while air is passed upward through the tower.

COMMON VARIABLES INDEX

MATERIALS INDEX

A.S.M. S.L.A. METALLURGICAL LITERATURE CLASSIFICATION

AUTOMOS INDEX

1ST AND 2ND GROUPS

3RD AND 4TH GROUPS

5TH GROUP

6TH GROUP

7TH GROUP

8TH GROUP

9TH GROUP

10TH GROUP

11TH GROUP

12TH GROUP

13TH GROUP

14TH GROUP

15TH GROUP

16TH GROUP

17TH GROUP

18TH GROUP

19TH GROUP

20TH GROUP

21ST GROUP

22ND GROUP

23RD GROUP

24TH GROUP

25TH GROUP

26TH GROUP

27TH GROUP

28TH GROUP

29TH GROUP

30TH GROUP

31ST GROUP

32ND GROUP

33RD GROUP

34TH GROUP

35TH GROUP

36TH GROUP

37TH GROUP

38TH GROUP

39TH GROUP

40TH GROUP

41ST GROUP

42ND GROUP

43RD GROUP

44TH GROUP

45TH GROUP

46TH GROUP

47TH GROUP

48TH GROUP

49TH GROUP

50TH GROUP

ROBERTO, U.

Roberto, U. and Kozmin, P.

Application of hydrazine sulphate in the Determination of Oxidizing Substances.

Zhurn. Zashch. 1904, pp. 616

J. Chem. Soc., Vol. 86, p. 773

Hydrazine sulphate acts with substances which liberate oxygen in precisely the same way as it does with chlorates, being decomposed by the oxygen and yielding sulphuric acid, water, and nitrogen. When potassium permanganate is gently heated with hydrazine sulphate, the solution is decolorized and nitrogen is evolved, 5 mols. of nitrogen being liberated by 4 of permanganate. In a similar way, 2 mols. of potassium dichromate yield 3 mols. of nitrogen. By measuring the volume of nitrogen liberated, the quantity of oxidizing substances may be estimated. This method is also applicable to persulphates, chlorates, etc.

SECRET

CONFIDENTIAL

TO: The State Dept. of the Dept. of Defense (DDI) (SAL) (S) (S),  
10, 10, Oct. 1985. (S)

ROBERTS, Brin

British-Soviet trade-union relations. Vsem.prof.dvizh. no.3:47-48  
Mr '57. (MLRA 10:5)

1.General'nyy sekretar' Natsional'nogo soyuza gosudarstvennykh  
sluzhashchikh (Angliia).  
(Great Britain--Relations (General) with Russia)  
(Russia--Relations (General) with Great Britian)

AUTHOR: Roberts, G. A.

129-52-5-14/17

TITLE: Trends of Development in the Field of High Speed Steels  
in the U.S.A. (Tendentsiya razvitiya v oblasti  
bystrorezhushchikh staley v SShA)

PERIODICAL: Metallovedeniye i Obrabotka Metallov, 1958, Nr 5,  
pp 52-53 (USSR)

ABSTRACT: Abstract of a paper published in Industrieblatt,  
1957, No.6.

Abstracted by V. Yu. Novikov.

AVAILABLE: Library of Congress.

Card 1/1

1. High speed steel-Development

ROBERTS, JOHN D.,  
JOHN D. ROBERTS, J. Am. Chem. Soc. 67, 148-50 (1945)



ROBERTS, J.

Practice of the Modern Physics Laboratory. Translated from the English under the editorship of Prof. M. P. Vukalovich. 592 pp, 1952.

371. HYDRO-ELECTRIC DEVELOPMENT IN YUGOSLAVIA. Roberts, R.D.V.  
(Brit. Elect., Nov. 1951, vol. 4, 363-366). Brief details are given of  
the Jablanica project. The main concrete dam on the river Neretva will  
be 280 ft. high. The underground power station containing six 30,000 kw  
generators will be supplied by two tunnels 16 ft. wide by 1½ miles long.  
A similar station is being built on the river Rama. Construction should  
be completed by 1953. B. E. A.

G. TOMMASI, Z. Pflanz. Durg. 1935, 38, 88-99, 99-104, 105-109,  
109-113, 114-117, 118-121, 121-124, 124-127, 127-130,  
130-138, 139-141, 141-145, 145-147, 148-153, 153-155,  
155-161

PROCESSES AND PROPERTIES INDEX

B III 1

BC

Iron enrichment in peat. W. U. Humann and E. M. Rosenbaum (Z. Pflanz. Dimp., 1961, 28A, 50-57).— The proportion of cations adsorbed by acid sphagnum peat from neutral salt solutions bears no relation to that of the H ions displaced. (Some cases of negative and 48 hr. the P<sub>2</sub>O<sub>5</sub> or CaO requirement of the soil was determined. Peat soils are first sterilized, since otherwise the butyric acid formed obscures the results. Alternatively, the plates are drained through a layer of charcoal, added at the bottom of the plate, and connected with the atm. by means of a tube.

CHEMICAL ABSTRACTS.

ASA-USA INTERNATIONAL LITERATURE CLASSIFICATION

188300

33852

S/137/62/000/001/200/237

A006/A101

AUTHORS: Robertson, V. D., Bekish, R. V.

TITLE: The effect of structural factors on corrosion cracking of homogeneous alloys

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 1, 1962, 87, abstract 11615 (V sb. "Korrozion. rastreskivaniye i khrupkost'", Moscow, Mashgiz, 1961, 35-48)

TEXT: The authors analyze the chemical activity of the structure of homogeneous alloys in the spots where cracks arise and develop. They discuss the thermodynamical conditions of intercrystalline failure, the effect of the grain boundary state on the surface of the metal and the grain boundaries in homogeneous alloys. Intra and intercrystalline cracking in polycrystalline metals is caused by irreversible processes, arising in non-stable structural sections. On grain boundary sections, grooves (recesses) are formed due to the non-stability of grain edges forming these boundaries. In pure metal the process is damped with the formation of an equilibrium angle of the groove; in alloys the prevailing oxidation of one of the components produces local heterogeneity in

Card 1/2

33852

S/137/62/000/001/200/237  
A005/A101

The effect of structural factors ...

the alloy composition; this entails the formation of short-circuited galvanic elements. The stability of the alloys is the lesser, the higher the difference in the chemical activity of the alloy components. Plastic deformation produces sections of enhanced chemical activity in the metal. Such sections are groups of slip bands. Sections with a higher chemical activity are sources of crack formation. The cracks develop in a direction perpendicular to the plane of action of stresses applied. There are 25 references. X

Ye. Layner

[Abstracter's note: Complete translation]

Card 2/2

188300

S/081/61/000/023/024/061  
B117/B147

AUTHORS: Robertson, V. P., Bekish, R.

TITLE: Effect of structural factors on corrosion of cracking of homogeneous alloys

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 23, 1961, 285, abstract 23I225 (Sb. "Korrozion. rastreskivaniye i khрупkost"). M., Mashgiz, 1961, 35-48)

TEXT: The stability of alloys against corrosion cracking was found to change widely in different corrosive media. The stability of the alloy is assumed to be the lower, the more different the chemical activities of the alloy components. It is noted that sections with increased chemical activity develop due to plastic deformation in metal. Sections of increased chemical activity in single crystals and polycrystals were found to be the origin of cracking. The mechanism of development of sections with increased chemical activity was described. [Abstracter's note: Complete translation.]

✓B

Card 1/1

PROCESSES AND PREPARATION INDEX

23

Factors in the preparation of slender tubular rayon threads. J. Roberty. *Rusta-Nayonna* 12, 205-13 (1947).  
 -Patents are compared, with special reference to the fundamentals of prepn., the influence of the comp. of the spinning bath, the course of the thread in the coagulating bath and the concn. and temp. of the bath. A patent reference list is given. Halsey E. Silliman

ASIA 55.A METALLURGICAL LITERATURE CLASSIFICATION

TITERA, Pavel, MVDr; KOGIELA, Karel, MVDr, CSc.; ROUES, Bohuslav, ing.

No affiliation but city of Prague (for all)

[February]  
Prague, Veterinarstvi, No 2, 1967, pp 49-52

"Analysis of principal results obtained by veterinary inspection of fattened animals and meat in Czechoslovakia in 1965."

GRIGOROV, N., inzh.; ROBEV, Iv., inzh.

New stage in the development of regional and territorial  
planning in Bulgaria. Tekh delo 500:4 24N '63.



ROBEV, Ivan, inzh.

Problems of water economy in regional planning. Khidtotekh i  
melior 8 no.7:195-196 '63.

ROBEV, Ivan, inzh.

Schemes for the utilization and gradual development of eater  
resources. Khidrotekh i melior 8 no.6:163-164 '63.

Radiology

BULGARIA

ROBEV, St., BAYEV, Il., PANOV, N., Institute of Radiology and Radiation Hygiene, Sofia-Darvenitsa

"Radiation Protection Effect of Certain Isothiuronium-S-Propio-NN'-Diaryl Amidins"

Sofia, Doklady Bolgarskov Akademii Nauk, Vol 19, No 12, 1966, pp 1143-1145

Abstract: [Russian article] The authors showed recently (see, e.g., St. Robev, S. Todorov, Dokl. AN SSSR, 132, 1960, 1201; I. Bayev, St. Robev, Dokl. BAN, 15, 1962, 613) the irradiation protection properties of aromatic N-aryl substituted amidines. The present paper outlines the results of radiation protection properties of certain newly synthesized  $\beta$ -isothiuronium-S<sup>+</sup>-propio-NN'-diaryl amidines in two lines of mice exhibiting differing radiation sensitivity. Tables show the results of toxicity tests carried out on 165 animals and radiation protection capability investigation carried out on 425 animals. Data are compared with those from parallel tests on control and cysteamine-protected animals. References: 6 Bulgarian, 2 Soviet, and 1 Western. (Manuscript received, 27 Jul 1966.)

ROBYN, Et.: B. 1970, 9.

Synthesis of the messenger-like ribonucleic acid in yeast nondividing cells. In: *Colloquia* P. 261-70 '64.

1. Scientific Research Institute of Radiation and Radiation Protection at the Ministry of Health and Social Welfare, Sofia.

ROBEW, S.; L. W, I.; ECNEV, L.

The distribution of N-(4-nitrophenyl)-benzamide-C-14 in the organs of white rats under conditions of its use for radioprotective purposes. Dokl. Belg. akad. nauk 18 no.1:51-54 '64

1. Submitted on August 19, 1964.

BULGARIA

ROBEV, S., DANEV, I., PANOV, N., Institute of Radiology and Radiation Hygiene, Sofia

"A Study of the Radiation Protection Induced by 3-3'-Dithio-Bis-Propio Amidine"

Sofia, Doklady Bolgarskoy Akademii Nauk, Vol 19, No 11, 1966, pp 1035-1037

Abstract: [Russian article] The authors showed recently that some of the newly synthesized N-aryl-substituted aromatic amidines exhibit clear radiation protection effects in bacteria (St. Robev, S. Todorov, Dokl. AN SSSR, 132, 1960, 1201) and in mammals (see, e.g., I. Baev, St. Robev, Compt. rend. Acad. bulg. Sci., 15, 1962, No 6, 613). These and other results point to the possibility of increasing the radiation protection effect by means of functional groups in compounds containing sulfhydryl or a potential sulfhydryl and amidine group. Consequently, the present work investigated in 662 white mice the radiation protection supplied by the 3-3'-dithio-bis-propio amidine, and the effects of antagonism and synergism with adrenalin and hexamethonium. Results show that the above compound exhibits excellent radiation protection effect even during supralethal irradiation doses. It is close to the strength of radio protection observed with cysteamine. Other combined applications of propioamidine and with

.1/2

BULGARIA

ROBEV, S., PANTEV, T., Institute of Radiology, Sofia

"Synthesis and Radiobiological Study of Gamma-Isothiuronium Butyroamidine"

Sofia, Doklady Bolgarskov Akademi Nauk, Vol 19, No 11, 1966, pp 1039-1041

Abstract: /English article/ Mercapto ethylamine and amino-ethyl isothiuronium compounds have proved to be the most active radioprotective agents. The present paper reports on the synthesis and radioprotective properties of gamma-isothiuronium butyroamidines. The presentation of the materials and methods is followed by the study of radiobiological behavior of gamma-isothiuronium butyroamidine dihydrochloride. Data show that the number of mice surviving X-ray irradiation in the group protected with gamma-isothiuronium butyroamidine is much higher than that in the controls. A point of special interest in the radiobiological investigation of gamma isothiuronium butyroamidine is the impossibility of a transguanidination arrangement as in the case of AET. This unequivocally shows that the radioprotective activity of isothiuronium amines is directly connected with their primary isothiuronium structure and not with their potential ability to produce SH-group containing substances in the organism (mercaptoguanidines). References: 3 Bulgarian, 1 Soviet, and 5 Western. (Manuscript received, 16 Jul 66.)

1/1

- 34 -

L 4365-66

ACC NR: AP5028424

measurable fluctuations caused by individual responses of various organisms. These fluctuations prevent the establishment of any quantitative connections between the amount of incorporated labeled amidine found now and the amounts reported in earlier references. Nevertheless, new data support the

assumption that the local amidine concentration has little relation to the appearance of the radiation protection effect. While the amidine distribution pattern is the same during the parenteral and internal introduction, the radiobiological effect is completely different. As reported earlier (Il. Bayev, Rentgenologiya i radiologiya, 1964), the peroral introduction fails to produce any radiation protection whatsoever. The work was presented by A. Spasov, Corresponding Member, 12 Aug 64. Orig. art. has: 1 table. [JPRS]

SUB CODE: LS / SUBM DATE: 12Aug64 / ORIG REF: 008 / OTH REF: 004  
SOV REF: 002

KC  
Card 2/2



L 00155-66 EWT(m) DIAAP  
ACCESSION NR: AP5025542

BU/0011/65/018/003/0239/0242

AUTHOR: Bonev, L.; Todorov, S; Robev, S.

28  
27  
E

TITLE: Possibility of a quantitative tracking of the precipitation reaction using radioactively labeled chromium -51

SOURCE: Bulgarska akademiya na naukite. Doklady, v. 18, no. 3, 1965, 239-242

TOPIC TAGS: chemical labelling, chromium, radioisotope, chemical precipitation, iron, radiation chemistry, biochemistry, tracer study

ABSTRACT: The existing methods for gauging the precipitation reaction are far from a true quantitative determination of the antigen--antibody reaction. In all the cases one does not know the exact composition of the precipitate which is usually contaminated by admixtures which reacted with the reagents used. In addition, the usual methods are slow and cumbersome. The present paper presents the first results using radioactively labeled trivalent chromium-51. The trivalent chromium was chosen because it can be hydrolyzed into nonsoluble chromium hydroxide at pH7 characterizing the usual precipitation reaction. The results were in agreement with data from other methods. Further studies using double radioactive labeling by chromium-51 and iron-59

Card 1/2

L 00155-66  
ACCESSION NR: AP5025542

showed that one can achieve a sufficient degree of accurate reproducibility to make the study of interactions between the antigen-antibody complexes possible including the radiation protection effects. Investigations of this type and the utilization of other radioisotope tracers will be described in a subsequent paper. Orig. art. has: 1 graph and 1 table.

ASSOCIATION: Institut Radiologii i Radiatsionnoy Gigiyeny, Darvenitsa-Sofia,  
(Institute for Radiology and Radiation Hygiene)

SUBMITTED: 00

ENCL: 00

SUB CODE: GC, LS

NR REF SOV: 000

OTHER: 005

JPRS

Card <sup>KC</sup> 2/2

L 4345-66 EWT(1)/EWA(j)/EWA(b)-2 JK

ACC NR: AP5028425

SOURCE CODE: BU/0011/65/018/001/0055/0058

AUTHOR: <sup>44.5</sup> Todorov, S.; <sup>44.5</sup> Robev, S.

ORG: Scientific-Research Institute of Radiology and Radiation Hygiene, Sofia  
(Nauchno-issledovatel'skiy institut radiologii i radiatsionnoy gigiyeny)

TITLE: Study of the influence of N-phenylbenzoamidine on the number of reverse mutations obtained during the x-ray irradiation of an E. Coli K<sub>54</sub> suspension

SOURCE: Bulgarska akademiya na naukite. Doklady, v. 18, no. 1, 1965, 55-58

TOPIC TAGS: antiradiation drug, organic amide, biologic mutation, x ray irradiation

ABSTRACT: [Russian article] The quantitative study of radiation protection at the cellular level can be carried out conveniently on the reverse mutation model (see, e.g., H. Kuenkel, P. Kamm, G. Hoehne, Strahlentherapie, 114, 1961, 95). The present study is a continuation of earlier investigations of radiation protection properties of amidines (S. Robev, Dokl. AN SSSR, 121, 1958, 84) on the cellular (see, e.g., S. Robev, S. Todorov, Compt. rend. Acad. bulg. Sci., 13, 1960, 79) and subcellular (Compt. rend. Acad. bulg. Sci., 17, 1964, 259) levels. The results show that the presence of N-phenylbenzoamidine exerts a noticeable influence on the percentage of the radiation-induced reverse mutations in E. coli K<sub>54</sub> auxotrophic relative to methionine. The effect

Card 1/2

L 4345-66

ACC NR: AP5028425

appears at concentrations which otherwise do not seem to influence in any way the development of E. coli. It is interesting to note that the chemical properties of N-phenylbenzoamide exclude the possibility of its acting via an artificial hypoxia of the medium. The presence of a possible selective radioprotective amidine action with respect to the genetic marker system of E. coli would allow the determination of the relative antiradiation protection of individual markers in the case of polymarked objects. Consequently, the authors plan to continue their research in this direction.

The work was presented by A. Spasov, 13 Aug 64. Orig. art. has: 1 table, 1 formula.  
[JPRS]

SUB CODE: IS / SUBM DATE: 13Aug64 / ORIG REF: 005 / OTH REF: 002

Card 2/2  
KC

I. 4350-66

ACC NR: AP5028774

SOURCE CODE: BU/0011/65/018/002/0133/0136

AUTHOR: Robev, S; Desev, G.; Marinova, Ts.

ORG: Institute of Radiology and Radiological Hygiene, Darvenitsa-Sofia (Institut radiologii i radiatsionnoy gigieny)

TITLE: Comparative study of the incorporation of certain radioactively labeled precursors in the RNA of nonfissioning yeast during x-ray exposure

SOURCE: Bulgarska akademiya na naukite, v. 18, no. 2, 1965, 133-136

TOPIC TAGS: radiology, RNA, yeast, biochemistry, radiation biologic effect

ABSTRACT: [Russian article] The authors showed in one of their earlier papers (see, e.g. Compt. rend. Acad. bulg. Sci., 17, 1964, No 5, 475) that under conditions which in nonfissioning yeast suspension induce basically the synthesis of RNA, whose nucleotide composition resembles the yeast DNA, the radiation-induced braking of the labeled atom incorporation is very strong in systems (identified by this incorporation) otherwise extremely radiation resistant. From the molecular-radiobiologic point of view, it is of interest to find out if the synthesis of the DNA-resembling RNA is slowed down by ionizing radiation at the level of macromolecular copying of the newly-synthesized IRNA from the DNA matrix, or, perhaps, the dominant role in the radiation effect belongs to one of the enzyme systems interacting with the precursor during a stage

Card 1/2

L 4350-66

ACC NR: AP5028774

preceding its direct incorporation into the IRNA molecule. Consequently, keeping an eye on the future investigation of this problem, the authors present a study of the participation in the synthesis of the newly-formed DNA-resembling RNA in nonfissioning irradiated yeast suspensions of radioactively labeled phosphate and (under comparable conditions) of some other RNA precursors: uracil- $2C^{14}$ , adenine- $2C^{14}$ , and the orotic acid- $C^{14}$ . Tests showed that an exposure to  $10^4$  curie of X-rays did not slow down the synthesis of the DNA-resembling RNA. The observed braking in the case of the phosphate must, most probably, occur prior to its incorporation into nucleoside phosphates which are precursors of the RNA. These findings can be explained only on the assumption that the cell has at its disposal sufficient reserves of phosphates for the above-mentioned synthesis. To check this assumption the authors carried out a parallel 30-minute incorporation of adenine- $C^{14}$  into the yeast in the absence of phosphates. The absence of phosphates did not seem to slow down the incorporation of adenine. The work was presented by A. Spasov, Corresponding member of BAN, 6 Oct 64. Orig. art. has: 1 table, 3 figures. [JPRS]

SUB CODE: IS / SUBM DATE: 06Oct64 / ORIG REF: 002 / OTH REF: 003

MC  
Card 2/2

10184 A. G. GUSEV, S.

Synthesis of DNA-like RNA in  $\gamma$ -irradiated non-dividing yeast cells. Dokl. Bolg. akad. nauk 17 no. 5:175-177 1971.

1. Submitted by Corresponding Member A. G. Gusev.

ТОДОРОВ, С.; РОБЕВ, С.

Some radiobiological peculiarities of LNA-transformants of  
E. coli in connection with transfer of Streptomycin-resistant  
genetic marker. Dokl. Bolg. akad. nauk 17 no.4:399-401 '64.

1. Submitted by Corresponding Member A. Spassov.



TODOROV, S.; ROBEV, S.

Study on the effect of N-phenylbenzamidine on the rate of reverse mutation produced by the irradiation of suspensions of E. coli K54 by X-rays. Dokl. Bolg. akad. nauk 18 no.1:55-58 '65

1. Submitted on August 13, 1964

1. V. I. Spasov, I.

Synthesis of some n-aryl substituted imines of N-allyl-2-oxo-1-pyridine-3-carboxamide. Doklady RAN 19 no. 2:507-509 1964

2. Kengov, A. A. Spasov [Spasov, A.], Korr. Khimichesk. Sbornik.

1. Spasovym, A.

Possibility of amiline rearrangement of aldehydearyldiazones  
passing through intermediate decomposition in amines and nitriles.  
Doklady BAN 17 no.3:737-740 '64.

1. Department of Radiation Chemistry of the Radiobiological  
Institute, Sofia, Box 673, Bulgaria, and Faculty of Chemistry of  
the Leningrad State University, U.S.S.R. Predstavleno chl.-korr.  
A.Spasovym.

ROBIN, G.; DESSA, C. [Russian.]

Synthesis of DNA-like RNA in 4-110 digitated non-dividing yeast cells. Doklady RAN 20 no.5:1001-1004 (1981)

1. Submitted by Corresponding Member A. Spasov [Spasov, A.].

U. S. S. R. 1977, 8.

1. Morphological peculiarities of *E. coli* transformants of *E. coli* in connection with transfer of streptomycin-resistant genetic marker.  
Zh. Mikrob. 1977, 10: 100-101, 104.

Submitted by corresponding Member A. Spassov (Spassov, A.).

ROBEV, S.; TODOROV, S.

Irradiation-produced changes in serological properties of certain proteins. Doklady BAN 17 no.3:259-262 '64.

1. Submitted by Corresponding Member A. Spassov [Spasov].

1. [Illegible text]

2. [Illegible text]

3. [Illegible text]

ROBEV, S.; TODOROV, S.

Irradiation-produced changes in serological properties of  
certain proteins. Dokl. Bolg. akad. nauk 17 no.1:259-262 '64

1. Submitted by Corresponding Member A. Spassov.



B/007/62/000/002/006/012  
D204/D307

AUTHORS: Kolarov, V., Bonev, L. and Robev, S.

TITLE: Studies of the scintillating properties of some triazyl-substituted members of the imidazole series

PERIODICAL: Referativnyy byulleten' Bolgarskoy nauchnoy literatury, Khimiya i khimicheskaya tekhnologiya, no. 2, 1962, 7, abstract 109, Doklady B.M., 15, 1962, book 2, pp 167-170

TEXT: The authors studied the scintillating properties of some triazyl-substituted imidazoles (2,4,5-triphenylimidazole, 2,4,5-tri(4-tolyl)-imidazole, and 2,4,5-tri(2-thionyl)-imidazole) and also hydrobenzamide, amarin and isoamarin, having the same atomic structure. Xylene solutions of various concentrations were prepared from these compounds, and their scintillating properties were studied under standard conditions. A  $\text{Co}^{60}$  preparation with  $10^6$  disintegrations per minute was used as the source of ionization. The triazyl-substituted imidazoles showed good scintillation properties and,

Card 1/2

Studies of the scintillating ...

B/007/62/000/002/006/012  
D204/D307

bearing in mind their ease of preparation, can be successfully used in radiometry. Photoluminescent maxima in the excitation spectra of 2,4,5-triphenylimidazole and 2,4,5-tri(4-tolyl)-imidazole occur at 390 and 400 m $\mu$  and are in the spectral regions convenient for working with ordinary photomultipliers. These substances may also be used for displacing the photoluminescent spectra of other compounds, the luminescent maximum of which lies in the ultraviolet region of the spectrum. Amarin and isomarin exhibit no scintillating properties. (Otdeleniye radiobiologicheskikh nauk, Sofia, 36 (The Department of Radio-Biological Sciences, Sofia, 36))  
[Abstracter's note: Complete translation]

Card 2/2

ROBEV, S.; DESSEV, G.

Radiation effect on protein synthesis and RNA metabolism in  
reticulocytes in vitro. Dokl. Bolg. akad. nauk 17 no.1:  
57-60 '64

1. Submitted by Academician Al..Spassov.

BAEV, J.; ROBEV, S.

On the radioprotective characteristics of some nitro derivatives of aromatic monoaryl-substituted amidines. Dokl. bolg. akad. nauk 15 no.6:613-630 '62.

1. Note presentee par A. Spassov.  
(RADIATION-PROTECTIVE AGENTS) (AMIDINES)

KOLAROV, V.; BONEV, L.; ROBEV, S.

Scintillating properties of some triaryl-substituted representatives of the imidazole series. Doklady BAN 15 no.2:167-170 '62.

1. Otdeleniye radiobiologii, Sofia, 56. Predstavleno chl.-korr. A. Spasovym [Spasov, A.].

S/081/62/000/020/012/040  
B158/B101

AUTHORS: Bakalov, D., Panov, N., Summerska, T., Robev, St.

TITLE: Examination of certain nitro-derivatives of aromatic amidines

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 20, 1962, 149, abstract 20Zh125 (Doklad. Bolg. AN, v. 14, no. 8, 1961, 811-814 [summary in Eng.])

TEXT: 3-nitro-4-methyl-(I), 3-nitro-4-methoxy-(II), 3-nitro-4-chloro-(III) and N-(4-nitrophenyl)-benzamidine (IV), which have a possible radiobiological and pharmacological activity, are obtained when aromatic monoaryl substituted amidines are nitrated. At  $\geq 30^{\circ}\text{C}$ , 51 millimoles N-phenylbenzamidine are added to 40 ml  $\text{HNO}_3$  (d 1.52) and after 10 min poured out in an excess of 5% cold KOH, giving IV, yield 89%, m.p.  $168^{\circ}\text{C}$  (from alcohol); hydrochloride (HC), m.p.  $207-209^{\circ}\text{C}$  (from alcohol); hydrobromide (HB), m.p.  $236-238^{\circ}\text{C}$  (from alcohol); hydroiodide (HI), m.p.  $223-224^{\circ}\text{C}$  (from aqueous alcohol); picrate, m.p.  $162-163^{\circ}\text{C}$ ; aniline-formyl

Card 1/2

Examination of certain ...

S/081/62/000/020/012/040  
B158/B101

derivative, m.p.  $182^{\circ}\text{C}$ ; and nitrate, m.p.  $200-201^{\circ}\text{C}$  (decomp.). The following are obtained similarly (the product obtained, yield %, m.p. in  $^{\circ}\text{C}$  and m.p. in  $^{\circ}\text{C}$  of HC, HB and HI are given): I, 87, 195-196 (from benzene-dioxane, 1:2), 206-207 (from alcohol), 297-298, 220-223; II, 63, 213 (from alcohol-benzene, 3:1), 205-206, 210-212, 201-202; III, 79, 179-180 (from alcohol), -, -, -. A mixture of 2 millimoles of IV and 0.5 g Zn are heated for 1 hr at  $200^{\circ}\text{C}$ , cooled, extracted with 5 ml hot  $\text{C}_6\text{H}_6$ , then with 15 ml ether, the combined extract treated three times with 20 ml 2% HCl and  $\text{C}_6\text{H}_5\text{CN}$  is obtained from the organic layer; the aqueous layer is acidified and 4-nitro-aniline (V), m.p.  $146^{\circ}\text{C}$ , is obtained; Similarly, V and 3-nitro-n-toluic nitrile are obtained from I, and V and 3-nitro-anisic nitrile from II. 10 ml 10%  $\text{H}_2\text{SO}_4$  is added to a mixture of 6.25 millimoles of I and 1 g Zn; after 2 hours the filtrate is made alkaline with KOH solution, extracted with 400 ml hot  $\text{C}_6\text{H}_6$  and N-(4-aminophenyl)-benzamidine; a yield of 68%, m.p.  $121^{\circ}\text{C}$  (from benzene-ligroin), is obtained from the organic layer. [Abstracter's note: Complete translation.]

Card 2/2

ROBEV, S.

- SSON, S. (Classification: UNCLASSIFIED, Date: 10/10/1983)
1. Chemical Reaction of the...  
 A. ...  
 B. ...
  2. The elementary Distribution of the...  
 A. ...  
 B. ...
  3. Effect of the...  
 A. ...  
 B. ...
  4. On the Solution of a...  
 A. ...  
 B. ...
  5. The...  
 A. ...  
 B. ...
  6. The...  
 A. ...  
 B. ...
  7. ...  
 A. ...  
 B. ...
  8. ...  
 A. ...  
 B. ...
  9. ...  
 A. ...  
 B. ...
  10. ...  
 A. ...  
 B. ...
  11. ...  
 A. ...  
 B. ...



KALCHEV, K.; BONEV, L.; MITRANI, L.; DESSEV, G.[Desev, G.]; ROBEV, S.

Studies on the possibility of eliminating radioactive strontium from milk by means of ion-exchange resins. Doklady BAN 14 no.5:475-478 '61.

1. Research Base on the Problems of Radiation Diseases and Radiological Protection at the Onkological Research Institute, Sofia. Submitted by Corresponding Member Al. Spasov[Spasov, Al.]

(Strontium) (Milk) (Radioactivity)

NIKOLOV, I.; BAEV, I.; ROBEV, S.

On the radioprotective effect of the N-Phenylamide of the Thiophene-2-Carboxylic acid depending on the radioprotector's dose used. Doklady Ban 14 no.5:551-554 '61.

1. Submitted by Academician D. Orakhovats[D. Orakhovats]

(Phenols) (Carbolic acid) (Radiology)

ROBEV, St.

**SURNAME, Given Names**

**Country:** Bulgaria

**Academic Degrees:** not given

**Affiliation:** not given

**Sources:** Sofia, Khigiena, Vol IV, No 5, Sep/Oct 1961, pp 31-43

**Data:** "Protection against Radiation through Amidin Compounds."

Authors:

NIKOLOV, Iv.

BAEV, Il.

ZOGRAFOV, D.

TODOROV, Sv.

ROBEV, St.

(5)

070 901603

NOV 2 1958

Distr: 4E2c(j)

5  
2-JAT(NB)(MAY)

Y  
1  
II

New uses of Na amide in organic synthesis. V. Structure of the basic product ( $C_{11}H_{11}N_3$ ) from the condensation of sodium phenylacetate and benzalaniline in the presence of sodamide. Reaction of benzalaniline with sodium anilide. Al. Spasov and St. Robev, *Godisnik Sofijskija Univ. Fiz. Mat. Fak., Kniga 3-Khm.*: 51, 103-12 (1956-57) (Pub. 1958); cf. *CA* 51, 12075g.—The compd.  $C_{11}H_{11}N_3$  (I), m. 176-7° (*CA* 49, 6182g), was identified as  $PhCH(NHPh)NPhCH(NHPh)Ph$  (II). A mixt. of 0.23 g.  $\alpha$ -phenylcinnamic acid, 0.93 g.  $PhNH_2$ , and 0.88 g. powd.  $NaNH_2$  in 30 ml.  $C_6H_6$  was refluxed 3 hrs., 3.6 g. benzalaniline (III) added, the mixt. refluxed 3 hrs., decompd. with cold  $H_2O$ , and the  $C_6H_6$  layer dried and distd. to give 44% II. Heating of I or II to 200° gave  $PhNH_2$  and III; reaction with  $KSCN$  gave the thio-urea deriv., m. 193-5°, which above 220° gave 1,3,4,5,6-pentaphenylhexahydro-1,3,5-triazine-2-thione, m. 236-7°.

G. H. Meguerian

COUNTRY : BULGARIA G  
CATEGORY : Organic Chemistry. Synthetic Organic Chemistry  
ABS. JOUR. : RZKhim., No. 1 1960, No. 1258  
AUTHOR : Spasov, A.; Robev, S.  
TITLE : On Some New Uses of Sodium Amide in Organic  
Synthesis. V. Study of the Basic Product  
( $C_{12}H_{29}N_3$ ) of Condensation of Sodium Phenyl\*  
ORIG. PUB. : Godishnik Sofiysk. un-t. Fiz.-matem. fak.,  
1956-1957 (1958), 51, No 3, 103-112  
ABSTRACT : The  $C_{12}H_{29}N_3$  base (I) which is obtained on the  
condensation of benzylideneaniline (II) and  
 $C_6H_5CH_2COONa$  in the presence of  $NH_2Na$  (see  
preceding report, RZKhim., No 12, 1956, No  
33956) forms the dihydrochloride, m.p. 250-252°  
  
\*Acetate and Benzylideneaniline in the Presence  
of Sodium Amide. Interaction of Benzylideneani-  
line with Sodium Amide  
  
TAB: 1/5

COUNTRY :  
CATEGORY :  
ABS. JOUR. : RZKhim., No. 1 1960, No. 1258  
AUTHOR :  
INST. :  
TITLE :  
ORIG. PUB. :  
ABSTRACT : these data, I was attributed a structure of  
cont'd  $C_6H_5N[CH(C_6H_5)NHC_6H_5]_2$ , which is also confirmed  
by the formation of I upon the condensation of  
II with  $C_6H_5NHNa$  in the presence of  $\alpha$ -phenyl-  
cinnamic acid (III), which is apparently a  
"carrier" of aniline. A probable mechanism of  
the described conversions is proposed. The sus-  
pension of 0.5 mole of  $NH_2Na$  in 20 ml of  $C_6H_6$   
CARD: 3/5

COUNTRY :	
CATEGORY :	
APPL. DATE :	ASKhin., No. 2 1960, No. 1208
DATE :	
TIME :	
LOC. DES. :	
ANAL. BY :	In period and No. 2000 Car 3 more hours, the prop- erly in distilled and I in solution, 1960 1960 08 12. -- D. V. V. V. V.
REF. :	572

ROBEV, St.

Steric hindrance by the amidine rearrangement of aldehyde  
arylhyazones. Doklady BAN 14 no.4:353-356 '61.

1. Predstavleno chl. korr Al. Spasovyn .



ROBEV, St.; TODOROV, Sv.

Studying the effect of N-phenylbenzamidine, N-phenyl-2-furamidine, and N-phenylamidine of 2-thiophenecarboxylic acid on the radiation resistance of suspensions of Bacillus anthracis, Bacillus cereus, Candida albicans and Staphylococcus aureus following irradiation with gamma rays of Co<sup>60</sup>. Dokl. AN SSSR 132 no.5:1201-1203 Je '60. (MIRA 13:6)

1. Institut spetsializatsii i usovershenstvavaniya vrachey, Sofiya, Bolgariya. Predstavleno akademikom A.I. Oparinyam. (AMIDINES) (RADIATION PROTECTION) (BACTERIA)

TODOROV, Sv.; ROBEV, St.

On the utilization of certain chemical substances for the prevention of radiation sickness. Suvrem.med.,Sofia no.6:3-8 '59.

1. Iz Katedrata po rentgenologija i radiologija pri ISUL. Zav. katedrata: prof. G. Tenčov. i Katedrata po mikrobiologija i virusologija pri ISUL. Zav.katedrata: prof. D. Khadzhidimova.  
(RADIATION PROTECTION)

AUTHOR: Robev, St.

SOV/20-121-1-22/55

TITLE: The Investigation of the Influence of N-Phenylamidine-Thiophene-2-Carboxylic Acid on the Resistivity of Mice to an Irradiation by Lethal Doses of Gamma-Rays From Co<sup>60</sup> (Issledovaniye vliyaniya N-fenilamidina tiofen-2-karbonovoy kisloty na rezistentnost' myshey pri obluchenii letal'nymi dozami gamma-luchey Co<sup>60</sup>)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol. 121, Nr. 1, pp. 84-86 (USSR)

ABSTRACT: The present paper is the first part of a thorough investigation of the amidines as substances to protect from radiation, which was planned to be carried out by the author. The author started his experiments with N-phenyl benzamidine, N-phenyl-2-furamidine, and with N-phenyl amidine of the thiophene-2-carboxylic acid. The second and the third compound were synthesized by the author for the first time. The experiments with N-phenyl-benzamidine temporarily were stopped because of its toxicity. The investigation of the radiation-protective effect of N-phenyl-2-furamidine has not brought any definite

Card 1/3

SOV/20-121-1-22/55

The Investigation of the Influence of N-Phenylamidine-Thiophene-2-Carboxylic Acid on the Resistivity of Mice to an Irradiation by Lethal Doses of Gamma-Rays From Co<sup>60</sup>

results as yet. N-phenylamidine of thiophene-2-carboxylic acid, however, shows a definite radiation-protective effect. Of 139 mice which before the exposure to radiation were treated with 1,5 mg of this compound (named in this paper aTA) 39,5% were still living 30 days afterwards, compared with 2,7% of the control animals. The employed dose of aTA approximates the toxic dose of LD<sub>50</sub>. On the exact mechanism of the radiation-protective effect of aTA until now only suppositions are possible. First a report is given on the synthetization of N-phenylamidine of thiophene-2-carboxylic acid. 1 per cent acetic acid solutions of the amidine lyes at pH 5 were injected to the mice. The introduction of 1,5 mg aTA first excites the animals, but after 15 to 30 minutes they become depressed. The obtained experimental results speak for a different resistivity of male and female animals. In a series of experiments where 2 mg cysteine hydrochloride were injected into the mice before their exposure to radiation no protective effect was found at all. There are 1 figure, 2 tables, and 21

Card 2/3

SOV/20-121-1-22/55

The Investigation of the Influence of N-Phenylamidine-Thiophene-2-Carboxylic  
Acid on the Resistivity of Mice to an Irradiation by Lethal Doses of Gamma-  
Rays From Co<sup>60</sup>

references, 7 of which are Soviet.

ASSOCIATION: Institut spetsializatsii i usoverchenstvovaniya vrachey Sofiya,  
Bolgariya (Institute for Specialisation and Perfection of  
Physicians, Sofia, Bulgaria)

PRESENTED: April 3, 1958, by A. I. Oparin, Member, Academy of Sciences,  
USSR

SUBMITTED: March 21, 1958

1. Mice--Effects of radiation
2. Gamma rays--Physiological effects
3. Cyclic compounds--Properties
4. Radiation tolerance--Test results

Card 3/3

COUNTRY : Bulgaria G-2  
 CATEGORY :  
 ABS. JOUR. : RZhKhim., No. 5 1960, No. 19613  
 AUTHOR : Rebov, S.  
 INST. : Bulgarian Academy of Sciences  
 TITLE : The Rearrangement of Hydrazones to Amidines. V.  
 : The Investigation of the Tendency of Readily De-  
 : composing at Normal Conditions Arylhydrazones to\*  
 : Doklady Bolg Akad Nauk, 12, No 2, 141-144 (1959)  
 ABSTRACT : The rearrangement of the o- and m-tolylhydrazones  
 of benzaldehyde, o-tolylhydrazone of piperonal,  
 and o- and m-tolylhydrazones of anisaldehyde  
 by the procedure previously described (see Commu-  
 nication IV, RZhKhim, 1960, No 3, 9218) was used  
 to prepare respectively N-o- (Ia) and N-m- (Ib)  
 tolylbenzamidines, N-o-tolyl-3,4-methylenedihydrox-  
 ybenzamidine (II), and N-o- (IIIa) and N-m- (IIIb)  
 p-methoxybenzamidines. The amidine, yield in %,  
 and mp in °C are given below: Ia, 23, 109-110  
 \* Undergo the Amidine Rearrangement.  
 160

S/020/60/132/05/63/069  
B011/B002

AUTHORS: Robev, St., Todorov, Sv.

TITLE: Investigation of the Influence of N-Phenylbenzamidine, of N-Phenyl-2-furamidine, and of N-Phenylamidine of Thiophene-2-carboxylic Acid on the Resistance of Bacterial Suspensions of B. anthracis, B. cereus, Cand. albicans, and Staphylococcus aureus to Gamma Rays From Co<sup>60</sup>

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 132, No. 5, pp. 1201-1203

TEXT: The authors studied the subject mentioned in the title, since the protective amidine agents cannot be explained by present theories of the chemical protection from radiation. They determined the degree of the action of rays upon bacterial suspensions by counting the surviving bacteria by their ability to form colonies. The experimental objects were B. anthracis, B. cereus, Cand. albicans, and Staph. aureus-209. The first three strains were bred by the Gosudarstvenny kontrol'nyy institut

Card 1/4

Investigation of the Influence of N-Phenyl-  
benzamidine, of N-Phenyl-2-furamidine, and of  
N-Phenylamidine of Thiophene-2-carboxylic Acid  
on the Resistance of Bacterial Suspensions of  
B. anthracis, B. cereus, Cand. albicans, and  
Staphylococcus aureus to Gamma Rays From Co<sup>60</sup>

S/020/60/132/05/63/069  
B011/B002

(State Control Institute), the 4th stock by the bacteriological laboratory  
of the authors' institute. A cobalt apparatus of the type ГУТ-400<sup>1</sup>  
(GUT-400) served as gamma ray source. 1% acetic acid amidine solutions  
with pH 5 and subsequent dilution were used for the experiments.  
B. anthracis and B. cereus were irradiated with a dose of 300 kr.  
B. cereus was found to exhibit an equally high resistance to radiation  
as B. anthracis. It was found on the other hand that the radiation  
sensitivity of both microbe species does not change in the presence of  
the amidine compounds used (Table 1). Cystamine has no influence at all  
on the resistance of these two bacteria to radiation. At a dose of 50 kr,  
cell suspensions of Cand. albicans exhibited a marked resistance to  
radiation, although only in a narrow concentration range of the amidines  
(Fig. 1). It can be seen therefrom that the greatest effect arises on  
dilutions of from 1:500 to 1:2500. At 1:4000 there is no difference  
found in the control. In suspensions of Staphylococcus aureus, the amidines

Card 2/4



Investigation of the Influence of N-Phenyl-benzamidine, of N-Phenyl-2-furamidine, and of N-Phenylamidine of Thiophene-2-carboxylic Acid on the Resistance of Bacterial Suspensions of *B. anthracis*, *B. cereus*, *Cand. albicans*, and *Staphylococcus aureus* to Gamma Rays From  $Co^{60}$

S/020/60/132/05/63/069  
B011/B002

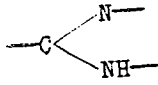
investigated did not act as radiation protectors, but as radiation sensitizers (Fig. 2). This effect begins at about 1 : 3000, remains at an almost constant level up to 1 : 30000 and gradually vanishes with higher dilutions. The authors explain the missing effect of amidines in *B. anthracis* and *B. cereus* by large amounts of wax-like substances in the cell membranes of these microbes which prevent the amidines from penetrating. Amidines are good protective agents in the case of *Cand. albicans*. The effect was weaker, however, as compared with *E. coli* (Ref. 3). The authors assume that the different effects exerted by  $\alpha$ TA and NPA on the one hand, and  $\alpha$ FA on the other, are caused by the presence of a furan ring in  $\alpha$ FA, which raises the radiosensitivity. This assumption, however, has not been confirmed by experiments. The authors believe that in the case of  $\alpha$ FA not only the presence of the group



Card 3/4

Investigation of the Influence of N-Phenyl-  
benzamidine, of N-Phenyl-2-furamidine, and of  
N-Phenylamidine of Thiophene-2-carboxylic Acid  
on the Resistance of Bacterial Suspensions of  
B. anthracis, B. cereus, Cand. albicans, and  
Staphylococcus aureus to Gamma Rays From Co<sup>60</sup>

S/020/60/132/05/63/069  
B011/B002

 , but also its spatial position plays an important part.  
There are 2 figures, 1 table, and 9 references: 3 Soviet, 1 German,  
1 British, and 3 Bulgarian.

ASSOCIATION: Institut spetsializatsii i usovershenstvovaniya vrachey  
Sofiya, Bolgariya (Institute of Specialization and Higher  
Training of Physicians, Sofia, Bulgaria)

PRESENTED: June 5, 1959, by A. I. Oparin, Academician

SUBMITTED: June 5, 1959



Card 4/4

~~St~~ ROBEV, St.

4E2ccj  
4E3d  
1-89(WBI)

Rearrangement of hydrazones into amidines. IV. Preparation of certain aromatic *N*-(*p*-iodophenyl)-substituted amidines. St. Robev and T. Sumerska, *Compt. Rend. Acad. Bulgare Sci.* 12, 137-41 (1959) (in Russian); *cf. C.A.* 50, 13838g.—Reactions according to the scheme  $ArCH:NNHAr' \rightarrow ArC(NH_2):NAr'$  were carried out to det. the role of various substituents in the aromatic rings. Four new *N*-(*p*-iodophenyl)-substituted amidines have been synthesized. Benzaldehyde *p*-iodophenylhydrazone 1.61 and anhyd. xylene 20 was heated to boiling,  $NaNH_2$  0.2 added, the mixt. stirred till all the  $NH_2$  evolved, gently boiled 1 hr.,  $H_2O$  50 added, the aq. layer discarded, the xylene layer extd. twice with 5%  $HCl$  50, the exts. combined, shaken with activated  $C$  0.2 part, filtered, and the filtrate made alk. with 20%  $NaOH$  till the formation of a milky suspension, from which the cryst. *N*-(*p*-iodophenyl)-benzamidine (I) soon sepd. Recrystn. from dil. alc., then from ligroine yielded 63% product, m. 138-41°. 1.0.32 in  $(AcO)_2O$  2 was boiled 0.5 hr., kept a day,  $H_2O$  0.1 part added, and the soln. neutralized with 20%  $NaOH$ . In 2-3 days the product solidified; one recrystn. from dil. alc. yielded *N,N'*-diacetyl-*N*-(*p*-iodophenyl)benzamidine 0.19 part, m. 174-7°: repeated recrystn. increased the m.p. to

181-2°. *p*-Tolualdehyde 2.4 in alc. 10 and *p*-iodophenylhydrazine 4.66 in alc. 20 in the presence of some glacial  $AcOH$  cooled to  $-10^\circ$ , and the ppt. washed with cold 80% alc. 10 parts yielded 80% *p*-toluyaldehyde *p*-iodophenylhydrazone (II), m. 141-2°. Following the above procedure, II 1.66 yielded *N*-(*p*-iodophenyl)-*p*-methylbenzamidine 0.73 part, m. 180-2°. Similarly piperonal *p*-iodophenylhydrazone 1.8 yielded crude *N*-(*p*-iodophenyl)-3,4-methylenedioxybenzamidine 0.95 part, m. 137-40°; the pure compd. m. 146-7°. Finally anisaldehyde *p*-iodophenylhydrazone 1.74 yields *N*-(*p*-iodophenyl)-*p*-methoxybenzamidine 0.97 part, m. 162-4°. V. Study of certain, under ordinary conditions unstable, arylhydrazones with respect to their tendency to undergo amidine rearrangement. St. Robev. *Ibid.* 141-4.—The expts. show that *o*- and *m*-tolylhydrazones can rearrange to the amidines: benzaldehyde *o*-tolylhydrazone yields 23% *N*-(*o*-tolyl)benzamidine, m. 108-10°; piperonal *o*-tolylhydrazone yields 31% *N*-(*o*-tolyl)-3,4-methylenedioxybenzamidine, m. 131-2°; anisaldehyde *o*-tolylhydrazone yields 47% *N*-(*o*-tolyl)-*p*-methoxybenzamidine, m. 60-1°; benzaldehyde *m*-tolylhydrazone yields 36% *N*-(*m*-tolyl)benzamidine, m. 108-9°; and finally anisaldehyde (*m*-tolyl)hydrazone yields 33% *N*-(*m*-tolyl)-*p*-methoxybenzamidine m. 107-8°.

Ihor J. Masaryk

C 9R

SPASOV, Al., Prof. d-r.; ROBEV, St.

Interrelation of isonicotinic acid & cyanacetic acid hydrazides in reference to their tuberculostatic effect. Suvrem. med., Sofia 8 no.12:3-12 1957.

1. Iz Katedrata po meditsinska khimija pri Med. fakultet na VMI--Sofia (Zav. katedrata: prof. d-r Al. Spasov) i Katedrata po rentgenologija i radiologija pri ISUL (Zav. katedrata: prof. G. Tenchov).

(TUBERCULOSIS, ther.

cyanacetic acid hydrazides, comparison of antituberc. eff. with isoniazid (Bul))

(ACETIC ACID, rel. cpds.

same)

(CYANIDES, eff.

same)

ROBEV, S.

ROBEV, S. Regrouping of hydrazone in amidines. II. Some new examples of the application of the regrouping of derivatives of p-tolyldrazine. In Russian with German summary. p.29.

Vol. 8, no. 2, Apr./June 1955, DOKLADY, Sofiya, Bulgaria.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 5, No. 10, Oct. 1956.

ROBEV, St.

✓ Rearrangement of hydrazones to amidines. II. New examples of the applicability of this rearrangement in *p*-tolylhydrazine derivatives. St. Robev. *Compt. rend. acad. bulgare sci.* 8, No. 2, 20-22 (1955) (In Russian); cf. *C.A.* 50, 3315d, 7073a. — *p*-Tolylhydrazones of BzH, piperonal, and 2-naphthaldehyde were rearranged to the corresponding amidines in xylene or toluene contg. NaNH<sub>2</sub>. *p*-PhCH:NNHC<sub>6</sub>H<sub>4</sub>Me (0.01 mole) and 0.0075 mole NaNH<sub>2</sub> in 50 ml. xylene were refluxed 1 hr., 50 ml. H<sub>2</sub>O added, the amidine extd. with 50 ml. 5% aq. HCl, and the ext. treated with C, filtered, and made alk. to ppt. 61% *N*-(*p*-tolyl)benzamidine, m. 98-9°. Similarly was prepd. 54% *N*-(*p*-tolyl)-3,4-methylenedioxybenzamidine, m. 145-6°, and 37% *N*-(*p*-tolyl)-2-naphthamidine, m. 183-9°. G. H. M.

Chem 1/

4000

PM 8/22

~~St~~ Robey, ST.

h3

A new synthesis of  $\beta$ -anilino acids (preliminary publication). H. Kurtev and St. Robey. *Compt. rend. acad. bulgare sci.* 4, 37-40 (Pub. 1966) (German summary).—By treating isopropylidene anil (I) and benzylidene anil (II), resp., with the complex  $C_6H_5CHPhCO_2Na$  (III) 2 new  $\beta$ -anilino acids were prepd.:  $\alpha$ -phenyl- $\beta$ -anilino- $\gamma$ -methylvaleric acid, m. 152-3° (decompn.) (from  $C_6H_5$ -petr. ether) and  $\alpha$ -phenyl- $\beta$ -anilinohydrocinnamic acid, m. 157-8° (decompn.) (from  $C_6H_5$ -petr. ether). Both acids are cryst., colorless, sol. in alkali, concd. HCl,  $C_6H_6$ , alc.,  $Et_2O$ ; slightly sol. in water, petr. ether. Gerard Aufleger

CH  
①

MA  
MCT

ROBEV, ST.

BULG.

The isomeric forms of benzil phenylosazone. IV. Reduction of benzil osotetrazine. Al. Spasov and St. Robev. Bull. inst. chim. acad. bulgare sci. 2, 3-22(1953); Cf. C.A.

47, 2154a.—A suspension of 0.1 g.  $CPh_2N(NPh)_2N(CPh)_2$  (I) in 5 ml.  $PhNHNH_2$  was heated to  $200^\circ$  and the mixt. dild. with EtOH to give crystals of  $\beta$ -benzil phenylosazone ( $\beta$ -II), m.  $230-3^\circ$ . Reduction of 1.0 g. I in 80 ml. Et<sub>2</sub>O by shaking 0.5 hr. with 0.4 g. Pd over C gave  $\beta$ - and  $\gamma$ -II and triphenylosotriazole (III), m.  $120-3^\circ$ ; in  $CHCl_3$ -EtOH-H<sub>2</sub>O (10:10:1) as solvent, 25%  $\beta$ -II and 18% III was obtained; 6 hrs. shaking gave only 4%  $\beta$ -II and 88% III with a small amt. of  $PhNH_2$ . Reduction of 0.5 g. I suspended in 25 ml. EtOH with 5 ml. of 50% or 15 ml. of 10% KOH contg. 1 g. Zn dust gave 0.4 g.  $\beta$ -II and a little  $\gamma$ -II; in Ac<sub>2</sub>O-MeOH as solvent 0.1 g. III was also isolated; attempted reduction of  $\beta$ -II under same conditions failed to give III. Reduction of I with colorless ammonium sulfide also gave  $\beta$ -II,  $\gamma$ -II, and III. When H<sub>2</sub>S was bubbled through a soln. of I in EtOH at reflux temp. for 3 hrs., besides  $\beta$ -II and III a S contg. compd.,  $C_{17}H_{15}N_3S$  (IV) was obtained; when H<sub>2</sub>S was bubbled for only 3-3 min., a large amt. of IV, orange crystals, m.  $122-4^\circ$ , sepd. IV treated with (NH<sub>4</sub>)<sub>2</sub>S gave III after acidification with HCl; reduction of IV with Zn and AcOH also gave III. V. The cyclization of  $\alpha$ - and  $\beta$ -benzil phenylosazones to 2,4,3-triphenylosotriazole. Catalytic cyclization with palladium on carbon.



SPASOV, AL

*Ibid.* 23-36.—Cyclization expts. carried out in Et<sub>2</sub>O, Ac<sub>2</sub>O, EtOAc, C<sub>6</sub>H<sub>6</sub>, and EtOH-CHCl<sub>3</sub>-H<sub>2</sub>O mixt./with Pd over charcoal as catalyst showed that the  $\beta$ -form of benzil phenylsazone, m. 234°, forms triphenylosotriazole faster than the  $\alpha$ -form, m. 218°; therefore the  $\beta$ - and  $\alpha$ -forms must represent the *syn* and *anti* forms, resp. The catalyst (0.25-0.5 g.) was suspended in a soln. of 0.5-1.0 g. II in 30 ml. solvent, the mixt. refluxed from 36 to 48 hrs., the product was filtered hot, the filtrate evapd. to dryness, and the residue taken up with the solvent to dissolve the triazole, while the unreacted II remained insol. G. Meguerian

2/2

ROBEV, St.

New molecular rearrangement. Conversion of aldehydearylhydrazones into amidines. Dokl. AN SSSR. 101 no.2:277-279 Mr '55. (MLRA 8:7)

1. Meditsinskaya akademiya im. V. Chervenкова Sofiya, Bolgariya.  
Predstavleno akademikom I.N. Nazarovym.  
(Hydrazones) (Amidines)

ROBEV, St.; TODOROV, Sv.

A study of the effect of N-phenylbenzamidine, N-phenyl-2-furamidine and N-phenylamide of thiophene-2-carboxylic acid on the radioresistance of suspensions of B. anthracis, B. cereus, Candida albicans and Staphyl. aureus following their irradiation with gamma rays. Suvrem med., Sofia no.6:56-61 '60.

1. Iz Katedrata po rentgenologija i radiologija pri ISUL (Rukov. na katedrata: prof. G.Teqhov) i Katedrata po mikrobiologija i virusologija pri ISUL (Rukov. na katedrata: prof. Khadzhidimova)

(AMIDINES pharmacol.)

(AMIDES pharmacol.)

(BACTERIOLOGY radiation eff.)

(STAPHYLOCOCCUS radiation eff.)

(CANDIDA radiation eff.)

ROBEV, St.

USSR/Chemistry - Conversion processes

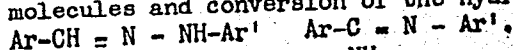
Card 1/2      Pub. 22 - 22/51

Authors      : Robev, St.

Title        :  New molecular regrouping. Conversion of aldehydearylhydrazones into aminines

Periodical   : Dok. AN SSSR 101/2, 277-279, Mar 11, 1955

Abstract    : A new type of molecular regrouping discovered in the field of aldehydearylhydrazones is discussed. It was established that the heating of aromatic aldehydearylhydrazones in an inert medium in the presence of certain N-metallic derivatives and some oxygen is followed by a regrouping of molecules and conversion of the hydrazones into N-substituted amidines:



Institution : The V. Chervenkov, Medical Academy, Sofia, Bulgaria

Presented by: Academician I. N. Nazarov, January 11, 1955

Periodical : Dok. AN SSSR 101/2, 277-279, Mar 11, 1955

Card 2/2 Pub. 22 - 22/51

Abstract : It was found that only the free aldehydearylhydrazone submits to regrouping which takes place in the presence of N-metallic derivatives of K, N, Li and magnesium alkyl halides. Five references: 1 French, 2 German, 1 USA and 1 Russian (1896-1953).

SPASOV, Al.; ROBEV, St.

Some new applications of sodium amide in organic synthesis;  
production of  $\alpha$ -,  $\beta$ -,  $\gamma$ -triaryl glutaric acids. Dokl. AN SSSR  
95 no.3:559-561 Mr '54. (MLRA 7:3)

1. Meditsinskaya akademiya im. V.Chervenкова, Sofiya, Bolgariya.  
Predstavleno akademikom V.M.Rodionovym.  
(Sodium amide) (Glutaric acids)

SPASOV, Al.; ROBEV, St.

Certain new uses of sodium amide in organic synthesis. Preparation of  $\alpha$ -,  $\beta$ -diaryl- $\beta$ -[N-aryl]-aminopropionic acids. Dokl. AN SSSR 95 no.4:817-819 Ap '54. (MLRA 7:3)

1. Meditsinskaya akademiya im. V.Chervenkova, Sofiya, Bolgariya.  
(Propionic acid) (Amides)

Some new applications of sodamide in organic syntheses.  
 I. Preparation of  $\alpha, \beta, \gamma$ -triarylglutaric acids. Al. Spasov  
 and St. Robery. *Bull. inst. chim. acad. bulgare sci.* 2, 37-52  
 (1953); *Doklady Akad. Nauk S.S.S.R.* 95, 559-61(1954).  
 —PhCH<sub>2</sub>CO<sub>2</sub>H (I) (3.2 g.) was treated with 1.9 g. NaNH<sub>2</sub>  
 in 50 ml. anhyd. C<sub>6</sub>H<sub>6</sub>, then 3.6 g. PhCH:NPh was added  
 and the mixt. refluxed 4 hrs.; the product was dissolved in  
 H<sub>2</sub>O, extd. with Et<sub>2</sub>O and acidified with HCl to ppt. the  
 acids, which were then taken up in C<sub>6</sub>H<sub>6</sub>;  $\alpha, \beta, \gamma$ -triphenyl-  
 glutaric acid (II), m. 230-7°, being insol. was sepd. in 61.5%  
 yield. the soln. also gave 6.6%  $\alpha$ -phenylcinnamic acid  
 (III), m. 109-70°. Similarly, in 4-5 hrs. *N*-benzylidene-  
 $\alpha$ -naphthylamine and I gave 40% II and 6% III; if the  
 reaction is stopped after 2 hrs.,  $\alpha$ -C<sub>10</sub>H<sub>7</sub>NHCHPhCHPh-  
 CO<sub>2</sub>H, m. 158-60°, is isolated (HCl salt, m. 191-2°).  
*p*-MeC<sub>6</sub>H<sub>4</sub>CH:NPh and I yielded 60%  $\alpha, \gamma$ -diphenyl- $\beta$ -  
 (*p*-tolyl)glutaric acid, m. 223° and 8%  $\alpha$ -phenyl- $\beta$ -(*p*-tolyl)-  
 acrylic acid; hydrogenation of the latter gave the dihydro  
 deriv., m. 181°.  $\alpha, \beta$ -Diphenyl- $\gamma$ -(3,4-methylenedioxyphenyl)-  
 glutaric acid, m. 233-4° (from EtOH), was similar  
 prepd. To a boiling mixt. of 2.3 g. III, 2.0 g. I, and 2.4 g.  
 NaNH<sub>2</sub> in 50 ml. C<sub>6</sub>H<sub>6</sub>, 5 g. PhNH<sub>2</sub> was added and the mixt.  
 refluxed 3 hrs. under an atm. of H<sub>2</sub>. The reaction product  
 was dissolved in H<sub>2</sub>O, boiled with activated C and acidified  
 with HCl; the sepd. acids were then dried and taken up in  
 CS<sub>2</sub>, leaving 1.2 g. insol. II. II. Preparation of  $\alpha, \beta$ -  
 diaryl- $\beta$ -(*N*-aryl)aminopropionic acids. *Bull. inst. chim.*  
*acad. bulgare sci.* 2, 53-66(1953); *Doklady Akad. Nauk*  
*S.S.S.R.* 95, 817-19(1954).—A suspension of 0.022 mole  
 R<sup>1</sup>CH<sub>2</sub>CO<sub>2</sub>Na (IV) in 100-120 ml. C<sub>6</sub>H<sub>6</sub> or Et<sub>2</sub>O was treated

(over)



BULG. J.

SPINOV, A.

with 0.04 mole  $RCH=NHR'$  and deriv. in 15-20 ml. solvent in the presence of  $NaNH_2$  and under reflux. When the suspension had almost disappeared (10-15 min. in  $C_6H_6$  and 1 hr. in  $Et_2O$ ), 100 g. ice and 25 g.  $NH_4Cl$  was added to the mixt., the ppt. filtered, suspended in  $H_2O$  and treated with excess dil.  $AcOH$ ; the pptd.  $RCH(NHR')CHR'CO_2H$  (V) was recrystd. from alc. The following V were prepd. (R, R', and yields are given):  $Ph, Ph, Ph$ , m. 171-2°, 48% from  $PhCH:NPh$  ( $HCl$ -salt, m. 196-7°);  $p$ -tolyl,  $Ph, Ph$ , m. 181-2°, 52% from  $p-CH_3C_6H_4CH:NPh$ ;  $Ph, p$ -tolyl,  $Ph$ , m. 189-90°, 55% from  $PhCH:NC_6H_4CH_3$ ;  $Ph, p$ -naphthyl,  $Ph$ , m. 158-60°, 57% from  $PhCH:NC_{10}H_7$  ( $HCl$ -salt, m. 190-2°).  
G. Meguerian

2/2

Distr: 4E2c(j)

1  
 Rearrangement of the arylhydrazones of 2-thiophenealdehyde and of furfural into amidines. Stephan Robev (Röntgen-Inst., Sofia, Bulgaria). *Chem. Ber.* ~~94~~ ~~544~~ ~~6~~ (1958).  
 2-Thiophenealdehyde phenylhydrazone (I) (2.02 g.), m. 134-5°, in 20 cc. xylene refluxed 45 min. with 0.3 g. powd. NaNH<sub>2</sub>, the mixt. treated with 50 cc. cold H<sub>2</sub>O, the org. layer extd. with two 50-cc. portions 5% HCl, the ext. washed with Et<sub>2</sub>O, stirred with C, allowed to stand briefly, and filtered, and the filtrate treated carefully with 20% aq. NaOH pptd. 1.26 g. thiophene-2-carboxylic acid *N*-phenylamidine (II), m. 144-5° (ligroine, or aq. EtOH). I (2.02 g.) and 0.3 g. powd. NaNH<sub>2</sub> heated with stirring 0.5 hr. at 140-50°, cooled, powdered, and extd. twice with 5% HCl, and the ext. treated with 20% aq. NaOH pptd. 0.4 g. II, m. 144°; the HCl-insol. residue from this run was I. II (0.30 g.) heated 15 min. with 0.5 g. Zn dust, at 220° gave PhNH<sub>2</sub> and 2-cyanothiophene; the PhNH<sub>2</sub> was identified with PhNCO as CO(NHPh); the 2-cyanothiophene treated with cold, concd. H<sub>2</sub>SO<sub>4</sub> gave thiophene-2-carboxamide, m. 175°.

II and PhNCO (equimolar amts.) gave 87% anilinoformyl deriv. of II, needles, m. 185° (EtOH). Furfuryl phenylhydrazone (3.72 g.) in 20 cc. dry xylene refluxed with 0.6 g. powd. NaNH<sub>2</sub> 1.25 hrs., cooled, decompd. with 50 cc. 5% AcOH, and filtered, the xylene layer of the filtrate extd. with 50 cc. 5% AcOH, and the combined AcOH exts. shaken 0.5 hr. with C, filtered, and treated with 20% aq. NaOH gave 1.42 g. pyromucic acid *N*-phenylamidine (III), needles, m. 100-7° (aq. EtOH and ligroine). III heated 0.5 hr. with Zn dust at 200-10° gave 2-cyanofuran and PhNH<sub>2</sub>. III gave a picrate, m. 148°, and an anilinoformyl deriv., m. 168-9° (EtOH), in 90% yield.  
 F. W. Hoffmann

5  
2-MAY  
1

jad

S/058/62/000/006/045/136  
A061/A101

AUTHORS: Hudson, B. E., Jr., Robey, R. F., Nelson, J. F.

TITLE: Achievements in vacuum ultraviolet spectrophotometry

PERIODICAL: Referativnyy zhurnal, Fizika, no. 6, 1962, 9, abstract 6372  
(In collection: "5-y Mezhdunar. neft. kongress, 1959, v. 4".  
Moscow, Gostoptekhizdat, 1961, 9 - 19)

TEXT: This is a brief review of data on the absorption of vacuum UV-radiation by different substances, and on the ionization potentials of some organic molecules. Analytical applications are considered, and brief descriptions are given of spectroscopic apparatus, types of radiation sources, of receivers, and recording methods. There are 22 references. ✓

[Abstracter's note: Complete translation]

Card 1/1

CHERNYY, B.G.; ROBEYKO, A.K.

Press for testing glued wooden beams. Rats. i izobr. predl. v stroi.  
no.116:30-31 '55. (MLRA 9:7)  
(Girders) (Testing machines)

ROBEZHNIKES, I.A.; SKULME, K.A.; PETERSON, M.P.

Oxidation of ascorbic acid by human gastric juice. Latvijas PSR Zinātņu  
Akad. Vēstis '51, 757-60. (MIRA 5:10)  
(CA 47 no.22:12597 '53)

1. PUTNINA, G.; BERZINA, L.; ROBEZNIYECE, I.
2. USSR 600
4. Riboflavin
7. Riboflavin in sprouting legume seeds, Latv. PSR Zin. Akad. Vestis, No. 11, 1951.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

1. ROBEZNYEKS, I.; SKULME, K.; PETERSONE, M.
2. USSR (600)
4. Gastric Juice
7. Oxidation of ascorbic acid with gastric juice of man.  
Latv. PSR Zin. Akad. Vestis 5, 1951

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

RUBISEK, F.

USSR/Human and Animal Morphology - The Heart.

R-5

Abs Jour : Referat Zhur - Biologii, No 16, 1957, 70693

Author : Robicsek, F.  
Title : The Problem of Neuro-Regulation in the Compensatory Stenosis of the Left Venous Opening.

Orig Pub : Vnitri lekarsvi, 1956, 2, No 10, 865-877

Abstract : In catetherization of the heart of patients with mitral stenosis, it was established, that the burden on the right ventricle is determined in a large degree by the enlarged resistance in the pulmonary vessels, rather than by the stenosis. The increased resistance appear to be a neuro-functional reaction, expressed in spasm of the arterioles. In dogs the artificial increase in the resistance of the vessels of the lungs by the ...



204  
NYF  
paz

EXCERPTA MEDICA Sec 15 Vol 9/9 Chest Dis. Sept 56

2138. HALMAGYI D., ROBCSEK F., FELKAI B., IVANYI J., ZSOTER T. and SZUCS Zs. A szegedi Orvostud. Egyet. I. és II. Belgyógyászati Klin. és Budapesti Orvostud. Egyet. Sebész Továbbképző Klinikájának Közlem. \*Megfigyelések kísérletes idült jobbszív elégtelenségben kutyán. Observations on experimentally produced right cardiac failure MAG. BELORV. ARCH. 1955. 8 73 (80-84) Tables 4

Tricuspid insufficiency and pulmonary stenosis were produced experimentally in dogs. The resulting clinical picture (severe ascites with high protein content, reduced minute volume, decreased arterial pressure, and short survival time) bears close resemblance to the state of chronic cardiac insufficiency in man. Data are

A. B. C. D. E. F.

EXCERPTA MEDICA Sec.18 Vol.1/2 Cardiovascular Feb 57

545. ROBICSEK F. Post-Grad. Surg. Clin., Univ. Med. Sch., Budapest *Intravascular catheterization for the diagnosis of aortic coarctation* Acta cardiol. (Brux.) 1956, 11/5 (475—479) Graphs 1 Illus. 2

The author describes a procedure for the diagnosis of coarctation of aorta which he has used successfully in 8 patients without complications. An intravascular catheter is passed through a peripheral systemic artery into the aorta and the presence and localization of the coarctation is determined from the site at which the catheter gets stuck and from the pressure curves.

Heath - Birmingham

ROBICSEK, F.

EXCERPTA MEDICA Sec.18 Vol.1/2 Cardiovascular Feb 57

557. ROBICSEK F., TEMESVARI A. and KADAR R. L. Dept. of Heart Surg., Post-Grad. Surg. Clin., Budapest *A new method for the treatment of congenital heart disease associated with impaired pulmonary circulation. An experimental study* Acta med. scand. 1956, 154/2 (151—161) Graphs 1 Tables 1 Illus. 4

The authors have developed experimentally in dogs a new method for the relief of congenital heart disease associated with impaired pulmonary circulation. In 15 dogs the superior vena cava was transected superior to the site of union of the azygos vein and the right pulmonary artery was transected immediately at its origin from the main trunk. The peripheral stumps of the 2 vessels were then anastomosed end-to-end. As a result the right lung was supplied with blood directly from the superior vena cava, the blood flow by-passing the right heart. Eleven dogs survived the operation, and in 10 of these the anastomosis remained patent. Cardiac catheterization showed that pulmonary blood flow was almost equal on both sides without any significant increase in blood pressure in the area of the superior vena cava. Angiocardiography demonstrated excellent filling of the right pulmonary arterial tree. The authors claim that their method is applicable to human cardiac surgery and has advantages over the Blalock operation and its modifications in the following respects: (1) The operation places no considerable extra burden on the heart. (2) It does not increase blood pressure in the main trunk of the pulmonary artery. (3) The anastomosis supplies pure venous blood to the lung. (4) Endarteritis is not liable to occur. (5) Technically the operation is not difficult, even when performed in children.

Heath - Birmingham (VI, 9, 18)

HALMAGYI, D.; ROBICSEK, F.(ROBICHEK, F.); FELKAI, B.; ZSOTNR, T.; IVANYI, J.  
TENYI, M.; SZUCS, Zs.(SIUGH', Zh.); SZEITZ, K., technical assistant

Studies on experimental tricuspidal insufficiency in dogs. Acta  
med.hung. 5 no.3-4:347-361 1954.

1. Drs. Halmagyi, Felkai, Ivanyi, Szucs, and Tenyi are members of  
the staff of the First Department of Medicine, University Medical  
School, Szeged; Dr. Robicsek is a member of the staff of the  
Postgraduate Department of Surgery (Postgraduate Surgical Clinic),  
University Medical School, Budapest; Dr. Zsoter of the Second  
Department of Medicine, Szeged.

(TRICUSPID VALVE, diseases

\*exper. insuff. in dogs after removal of casps, hemodynamics)

ROBICSEK, Ferenc; TEMESVARI, Antal; R.-KADAR, Livia; ARVAY, Attila

New surgical method in the therapy of congenital cardiac defects with decreased pulmonary circulation (pulmonary circulation with evasion of the right side of the heart). *Magy. Tudom. Akad. Biol. Orv. Oszt. Kozl.* 8 no.1-2:79-82 1957.

1. A Budapesti Orvostudományi Egyetem Sebész Továbbképző Klinikájáról.

(PULMONARY STENOSIS, exper.

surg., end-to-end anastomosis between vena cava superior & pulmonary artery in dogs (Hun))

ROBICSEK F., FELKAI B., IVÁNYI J., ZSÓFER T., SZÜCS Zs., TÉNYI M. AND HALMÁGYI D.

1 und 2 inn. Klin., Med. Univ., Szeged; Klin. für chir. Fortbild., Budapest. \*Der Lungenkreislauf bei experimenteller Pulmonalstenose. Pulmonary circulation in experimental pulmonary stenosis ACTA PHYSIOL. ACAD. SCIENT. HUNG. (Budapest) 1954, 5/suppl. (57-58)

SO: EXCERPTA MEDICA, Section II Vol. 7 No. 11

HALMAGYI, D.; ROBIGSEK, F.; FELKAI, B.; ZSOTER, T.; IVANYI, J.

The lesser circulation in experimental mitral regurgitation. Acta.  
med. hung. 6 no.1-2:177-188 1954.

1. 1st and 2nd Departments of Medicine, University Medical School,  
Szeged and Postgraduate Department of Surgery, University Medical  
School, Budapest.

(MITRAL VALVE, dis.

insuff., exper., eff. on pulm., (acc. in dogs) !

(BLOOD CIRCULATION

pulm., eff. of exper. mitral insuff. in dogs)

ROBICSEK, F.

A new method for the diagnosis of coarctation of the aorta. Acta  
med. hung. 6 no.1-2:219-222 1954.

1. Department of Postgraduate Surgery, University Medical School,  
Budapest.

(COARCTATION OF AORTA, diag.  
catheterization)



ROBICSEK, F.

HALMAGYI, D.; ROBICSEK, F.; FELKAI, B.; ZSOTER, T.; IVANYI, J.; SZUCS, Zs.;  
TENYI, M.

Studies on experimental tricuspid insufficiency in dogs.  
Kiserletes orvostud. 6 no.3:220-230 May 54.

1. Szegedi Orvostudományi Egyetem I. es II. Belklinikaja es  
Budapesti Orvostudományi Egyetem Sebész-továbbképző Klinikaja.  
(TRICUSPID VALVE, diseases,  
exper. insuff. in dogs)

*Robicssek F*

HALMAGYI, D.; ROBICSEK, F.; FELKAI, B.; IVANYI, J.; ZSOTER, T.; SZUCS, Zs.;  
TENYI, -M.

Small circulation in experimental pulmonary stenosis. Kiserletes  
orvostud. 6 no.3:230-238 May 54.

1. Szegedi Orvostudományi Egyetem I. es. II. Belklinikája es a  
Budapesti Orvostudományi Egyetem Sebesztovábbképző Klinikája.  
(PULMONARY STENOSIS, experimental,  
pulm. circ. in)  
(LUNGS, blood supply,  
circ. in exper. pulm. stenosis)

TEMESVARI, Antal, dr.; SOLTESZ, Lajos, dr.; ROBICSEK, Ferenc, dr.

Surgical treatment of the Raynaud's syndrome of the upper extremity.  
Magy. sebeszet 7 no.6:407-417 Dec 54.

1. Budapesti Orvostudományi Egyetem Sebesztovábbképző Klinikájának  
közleménye. Igazgató: Littmann Imre dr. egyetemi tanár.  
(RAYNAUD'S DISEASE, surg.  
technic)

LASZLO, Janos, dr.; LITTMAN, Imre, dr.; TEMESVARI, Anta, dr.; ROBICSEK,  
Ferenc, dr.

The relation between hemodynamics and changes of the pulmonary vessels  
in the mitral stenosis. Orv. hetil. 95 no.50:1368-1375 12 Dec 54.

1. A Budapesti Orvostudományi Egyetem I. Korbonctani és Kísérleti  
Rakutató Intézetének (igazgató: Baló József dr. egyet. tanár) és  
a Budapesti Orvostudományi Egyetem Sebész Továbbképző Klinikájának  
(igazgató: Litman Imre dr. egyet. tanár) közleménye.

(MITRAL STENOSIS, physiol.

hemodynamics & pulm. vasc. changes)

(LUNGS, blood supply

pathol. changes in mitral stenosis, hemodynamics)