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Biochemical and behavioral effects of alaptide, a spirocyclic dipeptide derived from 
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Correlation between the duration of perphenazine catalepsy and pressure maintained tonic immobility under the influence of beta-sympathotropic agents
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Koupilova, M., Herink, J., Hrdina, V., Barth, T.  
Effects of the synthetic analogue of vasopressin (DGAVP) at systemic and local application on the behaviour of the laboratory rat  

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Comparison of amitriptyline and maprotiline in old depressed patients  

Department of Psychiatry, Medical Faculty, 813 69 Bratislava, Czechoslovakia

Mares, P.  
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Institute of Physiology, Czechoslovak Academy of Sciences, 142 20 Prague 4, Czechoslovakia
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Oxazepam to stomatologic patients who do not cooperate
1 Department of Stomatology, Medical Faculty, University J.E. Purkyne, 602 00 Brno, Czechoslovakia

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Behavioural effects of muramyl dipeptide and adamantylamide dipeptide in mice

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Institute of Physiology, Faculty of Medicine, Charles University, 128 00 Prague 2, Czechoslovakia

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Therapeutic results in acute phases of manic depressive and schizophrenic psychoses as possible predictors of the prophylactic effect

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Military Institute of Hygienic Epidemiology, 01-163 Warsaw, Poland
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Department of Psychiatry, Medical Academy, 71-460 Szczecin, Poland

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Institute of Mental Hygiene, Military Medical Academy, 91-229 Lodz, Poland

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Changes in the optokinetic nystagmus cessation limit under the influence of ethanol and caffeine
Institute of Normal and Pathological Physiology, Centre of Physiological Sciences of the Slovak Academy of Sciences, 813 71 Bratislava, Czechoslovakia
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An alternative approach to the evaluation of the DST results.
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Behavioural consequences of NaNO2-induced hypoxia in male rats.
Res. Inst. Pharmacy and Biochemistry, Prague, CSSR.

Schickerová, R., Mares, P., Trojan, S.
Rhythmic metrazol activity in rats as a model of human absences.
Institute of Physiology, Faculty of Medicine, Charles University, Prague.

Abstract
Rhythmic activity of the spike-and-wave type was induced by administration of metrazol (25 or 50 mg/kg s.c.) in male rats with implanted cortical electrodes. The animals were deprived of water and then allowed to lick water from a tube. Under control conditions they licked for 3-4 min without an interruption. Rhythmic metrazol activity deranged the licking: when this pathologic activity represented about one third of the time, the licking was fully blocked. We conclude that the impairment of highly motivated behaviour confirms the adequacy of the rhythmic metrazol activity as a model of human primary generalized seizures of the absence type.

Vetulani, J.
The development of understanding of the mechanism of action of antidepressant drugs.
Dept. Biochem., Inst. Pharmacol., PAN, Krakow, Poland.
Hamon, J.F., Seri, B., Camara, P.  
Motor skill acquisition influences brain responsivity in sprinters.  
Department de Biologie, Faculté des Sciences, Abidjan.

Abstract  
Contingent negative variation (CNV) and reaction time were examined in four groups of eight young adult men: controls, witnesses, students in physical and athletic education, and sprinters. Subjects, except the control group, were asked to detect and respond quickly by pressing a button in the following experimental conditions: 1) simple auditory stimuli, 2) paired auditory stimuli, 3) mixed simple and paired auditory stimuli. A higher CNV voltage and lower reaction time and reaction time variability were obvious in students in physical and athletic education and sprinters, compared to controls and witnesses. In all the groups CNV amplitude declined in the third condition, reaction time and reaction time variability augmented from condition 1 to condition 3. These results show that relationships couple attentiveness and motor activation processes. The motor activation differed for simple starter and presignalled starter conditions (conditions 1 and 2). An increase of discrimination difficulty diminished the performance.

Málková, L., Wackermann, J., Hrudová, L., Dostálek, C.  
Strictly simultaneous classical eyelid conditioning in man.  
Institute of Physiological Regulations, Czechoslovak Academy of Sciences, Prague.

Abstract  
Strictly simultaneous eyelid conditioning in human Ss on the one hand and forward (ISI: 0.45 s), backward (ISI: 0.45 s), and pseudoconditioning on the other hand were compared in two different experimental situations: one-session experiment (100 reinforcements, 20 isolated CS randomly interspersed), and ten-sessions experiment (20 reinforcements, 4 isolated CS in each session), UCS was a light flash (0.5 J, 20 microseconds duration), CS a tone (1000 Hz, 50 ms, 73 dB). In both the experiments, strictly simultaneous conditioning was significantly different from pseudoconditioning, but significantly less effective than backward conditioning. In the ten-sessions experiment, it was also less effective than backward conditioning, while in the one-session experiment, it did not differ from backward conditioning. Statistical mixture decomposition method applied to the one-session- and the ten-sessions- experimental samples of individual acquisition curves resulted into the division of both samples into 4 subgroups according to the trend of acquisition curves. A significant positive association between the conditioning procedure and the distribution of individual curves into the four subgroups was found.

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Reliability of the testing for the "strength of the nervous system" in humans.  
Research Institute of Preventive Medicine, Slovak Academy of Sciences, Bratislava.

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Dept. of Psychiatry, Med. Fac. UJEP, Brno, CSSR.

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Personality traits and neurohumoral stress response in healthy young sportsmen.
Institute of Clinical and Experimental Medicine and Institute for Top Sport Medicine, Praha.

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Institute of Physiology, Czechoslovak Academy of Sciences, Prague.

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Interactions in orientation perception.
Institute of Physiology, Bulgarian Academy of Sciences, Sofia.

Zantovský, M., Höschl, C., Nesporová, B., Hendrychová, Y.
Dominance hierarchy, initiation of interaction and estimates of present state in psychiatric inpatients.
Psychiatric Research Institute, Medical Faculty of Hygiene, Charles University, Prague, CSSR.

Abstract
In a natural experiment two female observers were masked as inpatients on two psychiatric wards. The task of the observers was to ascertain the source distribution hierarchy structure and to register interaction activities in a predefined area of the ward. It was found that in a group of inpatients there appears a relatively stable dominance hierarchy which is related to the rate of interaction initiations among the members of the group. The dominance hierarchy has a predictive value for the selfestimate of present psychic state.

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Department of Psychology, University of Vienna, Austria.
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Institute of Medical Psychology, Munich.

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The effect of an additional task on sensorimotor performance in schizophrenics and neurotics.
Psychiatric Department of the District Health Centre, Liberec.

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Rats of Wistar strain discriminate by rectal temperature the two types of stressors (inescapable shocking versus height and open space) whereas genetically hypertensive rats of Koletsky type do not.
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Genetic and ontogenetic factors in social behavior of male laboratory rats.
Laboratory of Evolutionary Biology, Czechoslovak Academy of Sciences, Prague.

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Influence of nonoliguric acute renal failure on lithium elimination.

Johansson, G.G., Laakso, M., Peder, M., Karonen, S.L.
Endocrine patterns before and after examination stress in males and females.
Department of Physiology, University of Helsinki, Finland.

Abstract
Plasma levels of cortisol, adrenocorticotropin (ACTH), and growth hormone (GH), were determined by radioimmunoassay in medical students just before (Exp.1) plasma values of cortisol were higher than their control values in both sexes, statistically significantly, however, only in males. The difference of cortisol behavior between the sexes was not significant. The males' ACTH values were lower than their control levels, but there was no such difference in the females. Plasma levels and differences of growth hormone varied greatly in both sexes. After the examination (Exp.2) plasma values of cortisol were unaffected compared with their control values in both sexes. The ACTH values were lower than the control values in both sexes, significantly though only in the males. The GH values were higher than control values in the males but not in the females. The results are in line with previous observations suggesting that psychological stress is associated with slightly different hormonal effects in males and females.

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High cardiovascular reactivity to psychological challenge associated alternatively with high density of beta-adrenergic receptors or with high resting level of catecholamines.
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Department of Psychiatry, Faculty Hospital Kunz, Plzen.

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Laboratory of Evolutionary Biol., Czech. Acad. Sci., Prague, CSSR.

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Brain potentials and errors in the course of the one-dimensional tracking task.  
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A comparative study on pattern reversal visual evoked responses in school children and in adults.

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Some relations between successfulness of biological feedback and psychological variables.
Chair of Psychology, Charles University, Prague.

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Institute of Physiology, Czechoslovak Academy of Sciences, Prague.

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The changes of peroxidation of unsaturated fatty acids in epileptic mirror focus in rats.
Dept. Physiol., Med. School of Hygiene, Charles Univ., Prague, CSSR.

Bíro, V.
Analysis of simple GSR measures: differential diagnostic GSR signs in hypertonics, neurological patients and healthy controls.
Abstract
A statistical analysis of GSR measures in three groups of Ss (Hypertonics-HP, Neurological patients-NP, and Controls-CG), subjected to standard electrodermal stimulation supports the existence of a differentiated inner connection among various GSR measures in the three groups. Latency in the CG was found negatively to correlate with amplitude of the derivational curve, while in the other two groups it proved to be an independent measure. It is assumed that the temporal GSR measures reflect its dynamic properties, while amplitude is an indicator of the overall level of the sympathetic nervous system and of the magnitude of changes in the membrane potentials of sweat glands. A point is also made of certain diagnostic applications for differentiating disorders due to organic causes from functional ones, within the framework of man’s psychophysiological unit.

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Inst. Care of Mother and Child, Prague, CSSR.

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Specific behaviour as an objective indicator of emotional arousal in man.
Department of Physiology, Medical Faculty, University J.E. Purkyně, Brno.

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Institute of Physiology, Czechoslovak Acad. Sci, Psychiatric Research Institute, Prague.

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Research Inst. for Pharmacy and Biochemistry, Prague.
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Relations between psychological and neurological signs of minimal brain dysfunction in children.
Inst. the Care of Mother and Child, Prague, CSSR.

Weiss, M., Eichhorn, G., Geissler, W.
The changing psychosocial profile of patients before and after coronary artery bypass surgery: a preliminary report with the enlarged Bortner-scale.
Central Institute for Cardiovascular Research, Academy of Sciences of the GDR, Berlin-Buch.

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Myocardial infarction in older age: impact on the decision to retire from active service.

Jucker, M., Meier-Ruge, W., Bättig, K.
Relationship between local brain glucose metabolism and maze patrolling in adult and aged rats.
Comparative Physiology and Behavioral Biology Laboratory, Swiss Federal Institute of Technology, Zürich.

Abstract
Rats in the tunnel maze are not rewarded or punished. The active information gathering of the rats in this apparatus is supposed to be guided by learning and memory processes. As assessed by the 2-deoxyglucose method the age-related behavioral changes in rats in this maze are partly reflected in functional-metabolic changes in cortical and hippocampal structures.
Pfiffner, D., Bättig, K.
Type A behavior and its relations to psychophysiological reactivity: a review.
Swiss Federal Institute of Technology, Comparative Physiology and Behavioral Biology Laboratory, Zurich.

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Evaluation of the effects of noise exposure on various body functions in low-birthweight newborns.
Inst. Hygiene, Med. Fac., Bratislava, CSSR.

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Perinatal risk factors and minor neurological dysfunction.
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Controlled cross-over comparison of carbamazepine with perphenazine in schizophrenic psychoses
Department of Psychiatry, 657 15 Brno-Bohunice, Czechoslovakia


Boleloucký, Z., Plevová, J., Bajgar, R., Pleva, R.
Differences between self-assessed depressive symptoms in fully and partially hospitalized non psychotic patients diagnosed according to the Levine-Pilowsky inventory.
Department of Psychiatry, J.E. Purkyně University Medical Faculty, Brno.

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Abstract
The present study examined the association between alcohol consumption and rates of personal violence (suicide and homicide) over regions within a nation. Although suicide rates were higher in regions with a higher per capita consumption of alcohol, other social variables were also found to be associated with both alcohol consumption and suicide rates, such as divorce rates and inter-region migration. Thus, it appears that alcohol consumption may be but one index of a broader sociocultural dimension that is associated with regional rates of suicidal behavior.
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Plevova, J., Sochor, K., Boleloucky, Z.
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Department of Clinical Pharmacology, Postgraduate Medical and Pharmaceutical Institute, Videnska 800, Prague 4, Czechoslovakia

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University Department of Psychiatry, Mickiewiczova 13, 813 69 Bratislava, Czechoslovakia
Zbytovsky, J., Zapletalek
Longitudinal study of the effect, tolerance and undesired side effects of injection haloperidol decanoate applied in different psychiatric indications

Department of Psychiatry FN, 500 36 Hradec Kralove, Czechoslovakia

Krpálek, P., Zácková, P.
Specification of 3H-imipramine bindings on human platelets and in rat hypothalamus.

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Franková, S., Tikal, K.
Responses to the change in the environment in pairs of male rats genetically selected for activity level.

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Abstract
Laboratory Wistar strain rats were genetically selected for high (+A) and low (-A) activity level. In thirteen pairs of adult males of the 23rd filial generation reactions to changes in the external environment were studied. The animals were housed in breeding cages four each. Two parallel studies were conducted: in pairs simultaneously placed into a novel environment (NOV), empty cages of the same dimensions as the home cage (HC), in the second, behaviour of the second pair that remained in the HC, after removal of two cage-mates, was tested. Once a minute, for a period of one hour, the type of activity was recorded and noted whether it was an element effected in contact with the partner or without any contact. The animals +A and -A differed in the frequency of various types of activity and immobility, in the ratio between behavioural manifestations shown in or without contact as well as in the response to the type of modified environment. To changes in the situation, whether removed cage-mates from the HC or placed into NOV +A animals reacted with a high wave of environment exploration which gradually habituated. -A rats equally responded with exploration but on a lower level. In +rats we recorded more frequently exploration without contact with the partner in HC and NOV in comparison with -A, more frequent grooming, less immobility in contact and with no contact. Between +A partners there was a greater number of contacts in NOV than in HC whereas in the -A group the incidence of contact did not differ between HC and NOV. ANOVA revealed the influence of factors of genetics and environment and interaction in several behavioural categories. The simple and in time economical method demonstrated the possibility of use for the detection of differences between +A and -A lines even at relatively small changes in the external stimulatory situation.
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Preliminary experience with the treatment of depression by bright light.

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Sulvoca, A., Gulda, O.
The behavioural effects of benzodiazepine receptor ligands in mice are inhibited by adamantylamide dipeptide

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Behavioural effects of N-(3,4,5-trimethoxyphenylethyl)-aziridine - A mescaline derivative

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