

School of Professor V.G. Makats
(Ukraine - prof.Makats@gmail.com)



LECTURE-5 (5th problem of functional vegetology)

MAKATS V.G.

SYSTEMIC DEPENDENCE AS UNKNOWN MECHANISM OF INTERNAL VEGETATIVE CONTROL

Expert of the highest level of the National Academy of Sciences of Ukraine, Doctor of Medical Sciences, Professor (European Center for Postgraduate Education, PA "Ukrainian National Academy of Natural Sciences").

TYPES OF REACTIONS UNDER EXCITATION (+) AND SUPPRESSION (-) OF INDIVIDUAL FUNCTIONAL SYSTEMS...

The materials of this section are presented without comments. Let's pay attention..

1. Three types of biophysically dependent reactions have been established: SR (synchronous with the dynamics of the activity of the leading system of influence); AR (asynchronous with the dynamics of the activity of the leading system) and PR (paradoxical - synchronous with the leading system in the zone of its functional norm, and asynchronous in the zone of its excess). There is no doubt that PR arise under conditions of excessive functional stress of the "leading channel" and cause the development of inverse systemic dependence in the form of "secondary synchronous, asynchronous and paradoxical reactions." The latter indicates a chain paradoxical dependence in the process of constant autonomic control and correction of functional disorders...

Example. Types of systemic dependence upon arousal (+) SP FC-2.

Types of systemic reactions in relation to +SP...

Asynchronous (AR)

Paradoxical (PR)

Synchronous (SR)

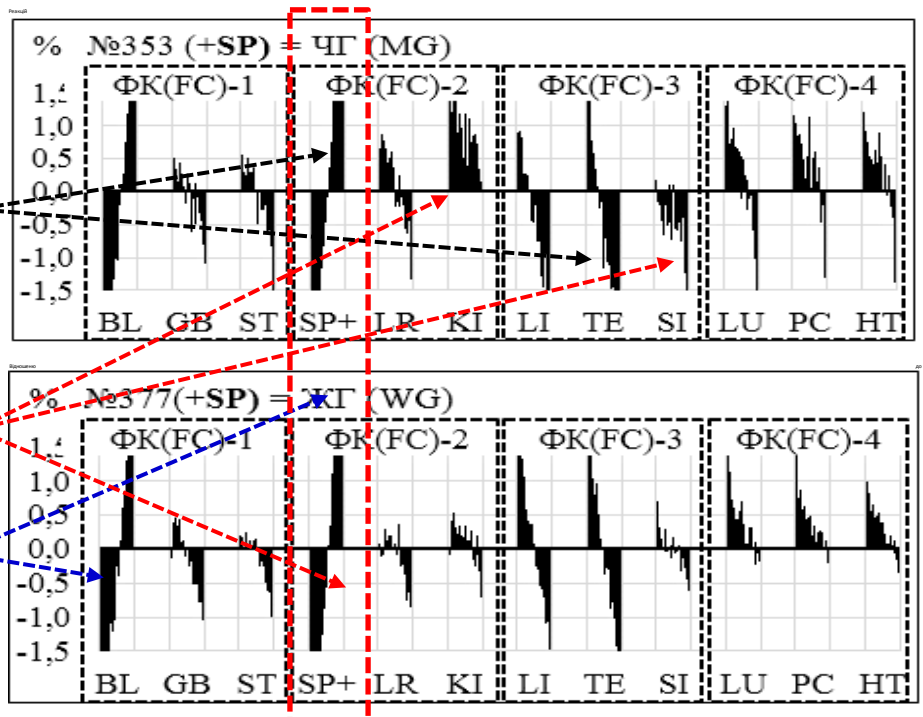


Fig. 5(1) Types of systemic reactions with +BL in adolescent groups (ASE)

2) Gender and age identity of systemic responses in female (F) and male (M)

groups, which is noted at all levels: DV-preschool, MSHV-primary school, PSHV-adolescent, YSHV-youth and SG-mature;

3) Age and sex characteristics of systemic dependence in male groups and their chaotic (disordered) activity, due to the peculiarities of age mechanisms of functional vegetative pathogenesis and periods of age and sex maturity...

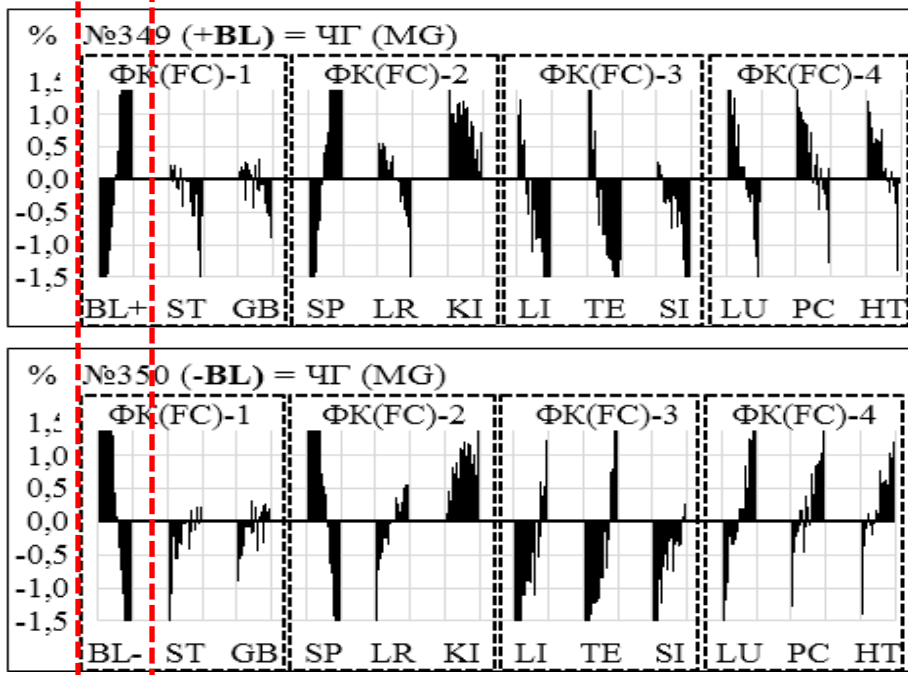
4) Oppression (or excitement) of the leading system, which naturally determines the asynchronously directed dynamics of system dependence...

Consider the biophysical reality of the given types of systemic dependence in a complex sequence of functional systems...

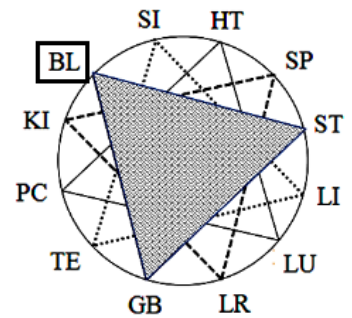
5.1. SYSTEM REACTIONS OF THE FIRST COMPLEX BL-GB-ST

FC-1. Types of systemic reactions with ±BL (fig.5.1.1)

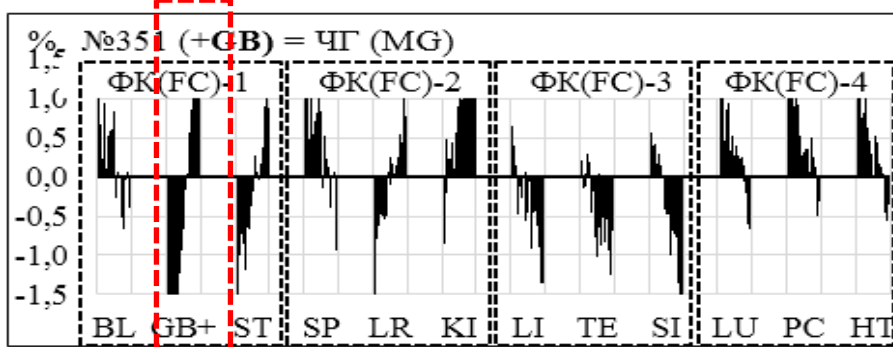
	CP	AP			PP
+BL	SP*	LR*	SI-TE-LI*	LU-PC-HT*	GB-ST* KI*
-BL	SP*	LR*	SI-TE-LI*	LU-PC-HT*	GB-ST* KI*



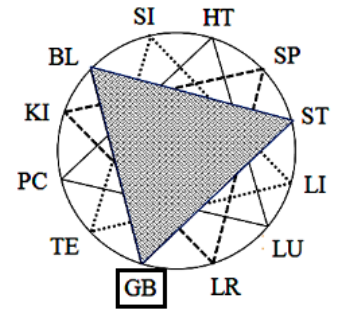
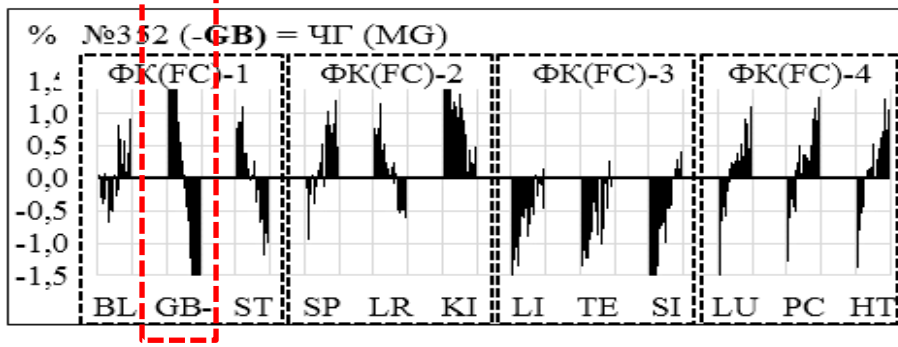
Types of systemic reactions with ±BL



FC-1. Types of systemic reactions with ±GB (fig.5.1.2)



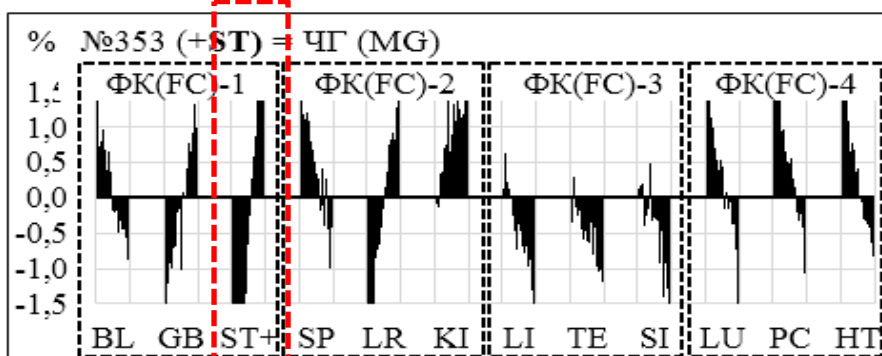
Types of systemic reactions with ±GB



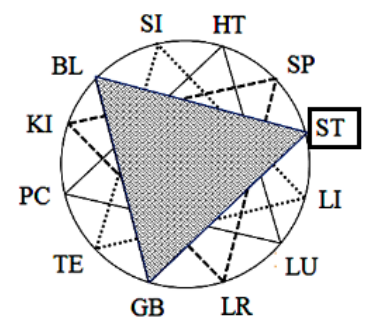
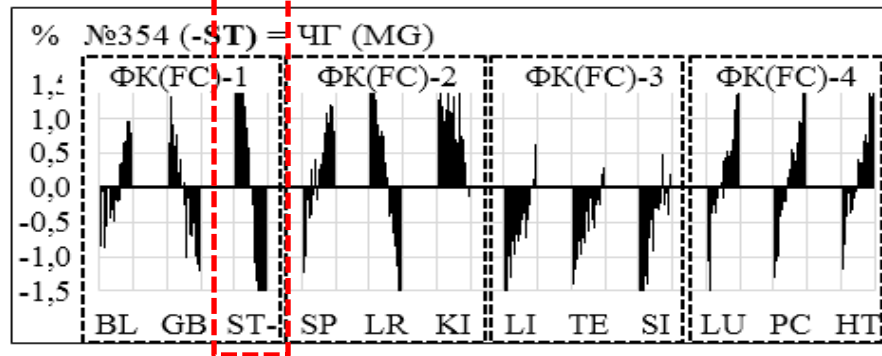
	CP	AP	ПР
+GB	ST* LR*	SP* LU-PC-HT*	BL* KI* LI-TE-SI*
-GB	ST* LR*	SP* LU-PC-HT*	BL* KI* LI-TE-SI*

FC-1. Types of systemic reactions with ±ST (fig.5.1.3)

	CP	AP	ПР
+ ST	GB* LR*	BL-SP* LU-PC-HT*	KI* LI-TE-SI*
- ST	GB* LR*	BL-SP* LU-PC-HT*	KI* LI-TE-SI*



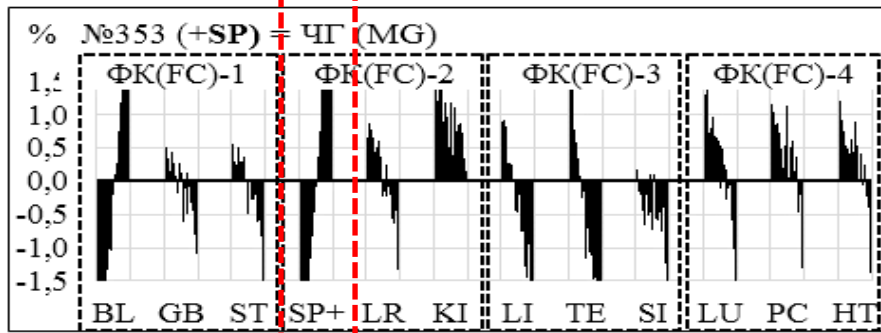
Types of systemic reactions with ± ST



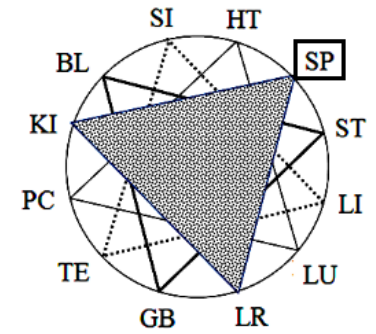
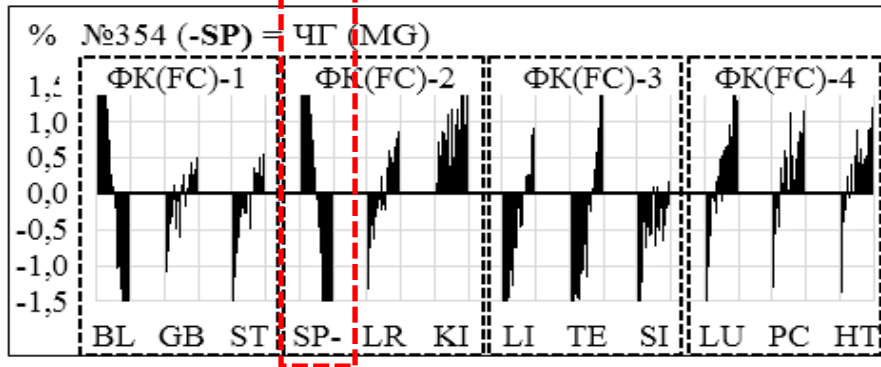
5.2. СИСТЕМНЫЕ РЕАКЦИИ ВТОРОГО КОМПЛЕКСА SP-LR-KI

FC-2. Types of systemic reactions with ±SP (fig.5.2.1)

	CP	AP	ПР
+SP	BL*	GB-ST* LR* TE-LI* LU-PC-TE*	KI* SI*
-SP	BL*	GB-ST* LR* TE-LI* LU-PC-TE*	KI* SI*

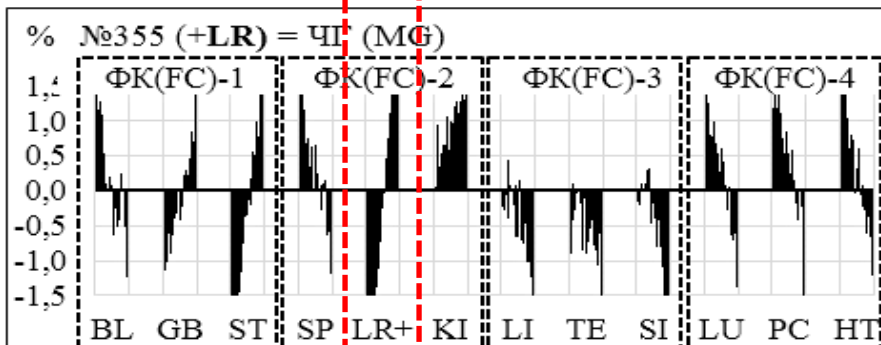


Types of systemic reactions with \pm SP

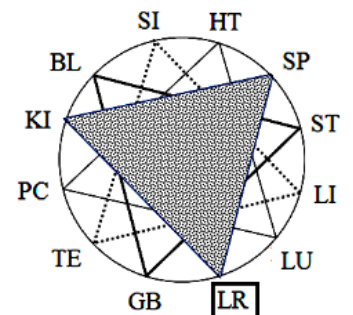
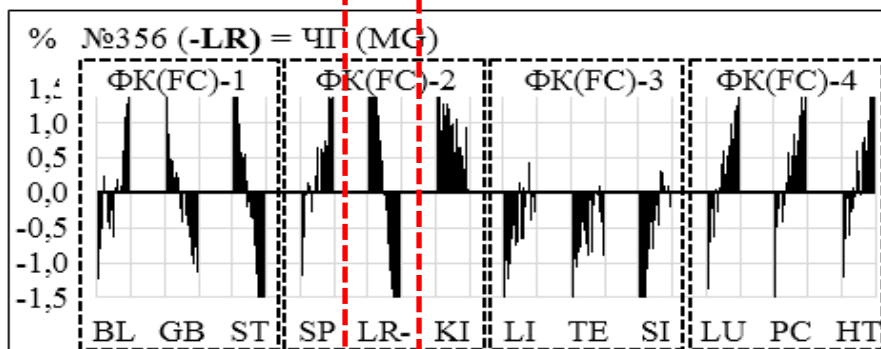


FC-2. Types of systemic reactions with \pm LR (fig.5.2.2)

	CP	AP	ПР
+LR	GB-ST*	BL* SP* LU-PC-TE*	KI* LI-TE-SI*
-LR	GB-ST*	BL* SP* LU-PC-TE*	KI* SI-TE-LI*

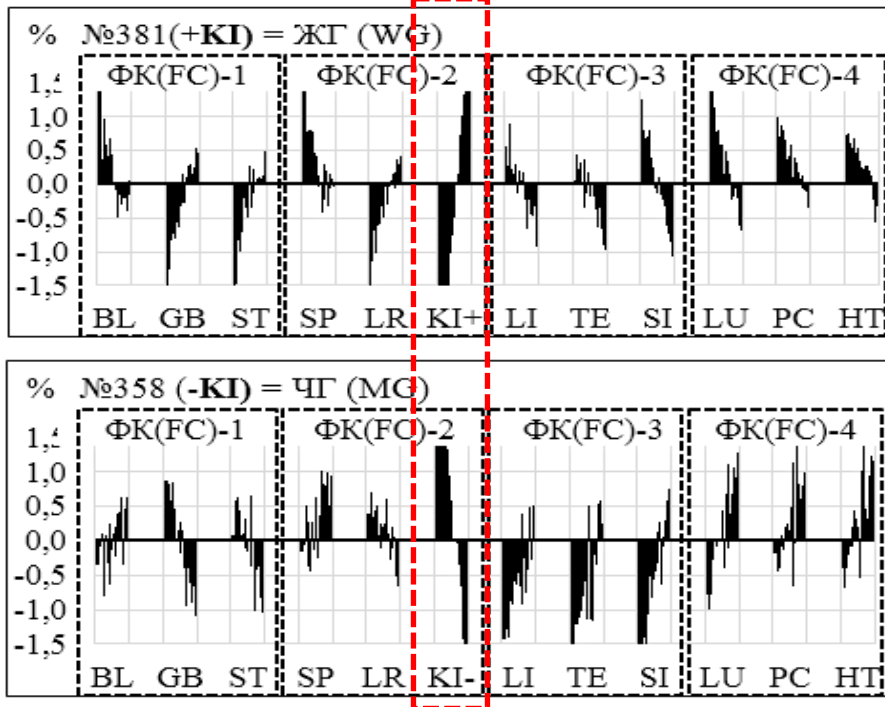


Types of systemic reactions with \pm LR

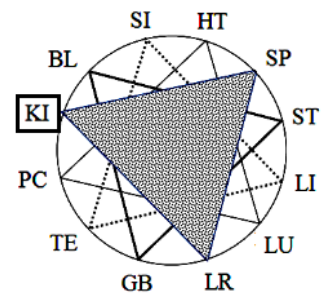


FC-2. Types of systemic reactions with \pm KI (fig.5.2.3)

	CP	AP	PP
+KI	GB-ST* LR*	BL* SP* LI-TE-SI* LU-PC-HT*	–
-KI	GB-ST* LR*	BL* SP* LI-TE-SI* LU-PC-HT*	–



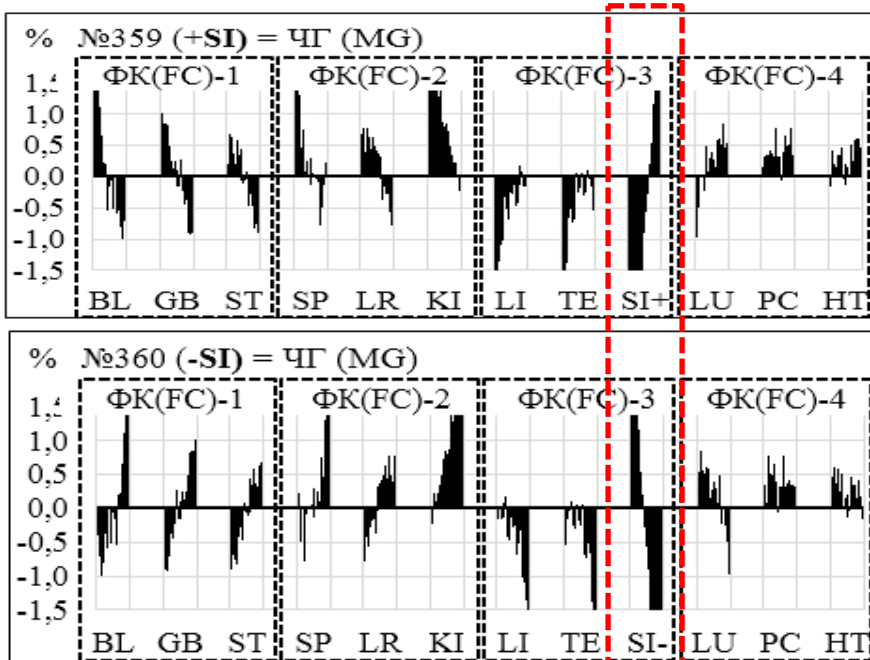
Types of systemic reactions with \pm KI



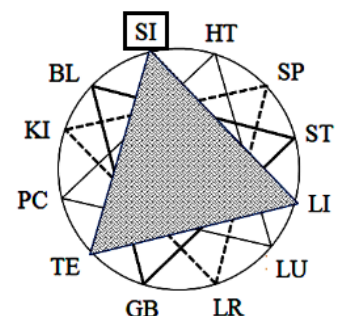
5.3. SYSTEMIC REACTIONS OF THE THIRD COMPLEX SI-TE-LI

FC-3. Types of systemic reactions with \pm SI (fig.5.3.1)

	CP	AP	PP
+SI	–	BL-GB-ST * SP-LR*	KI* LI-TE* LU-PC-HT*
-SI	–	BL-GB-ST * SP-LR*	KI* LI-TE* LU-PC-HT*

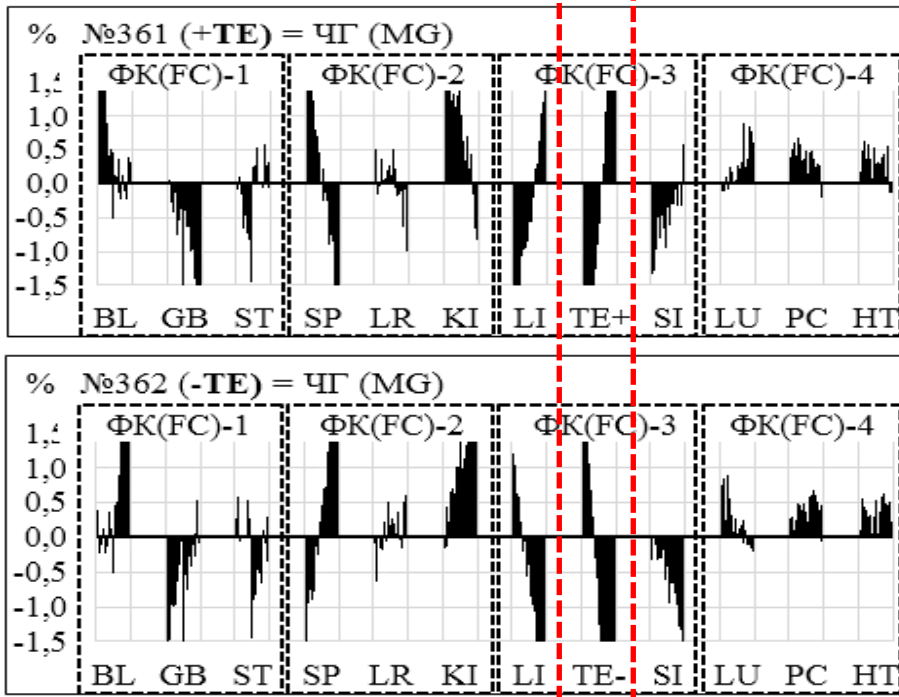


Types of systemic reactions with \pm SI

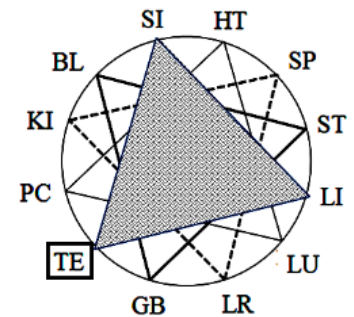


FC-3. Types of systemic reactions with $\pm TE$ (fig.5.3.2)

	CP	AP	ІІР
+TE	LI*	SP*	BL-GB-ST* LR-KI* SI* LU-PC-HT*
-TE	LI*	SP*	BL-GB-ST* LR-KI* SI* LU-PC-HT*

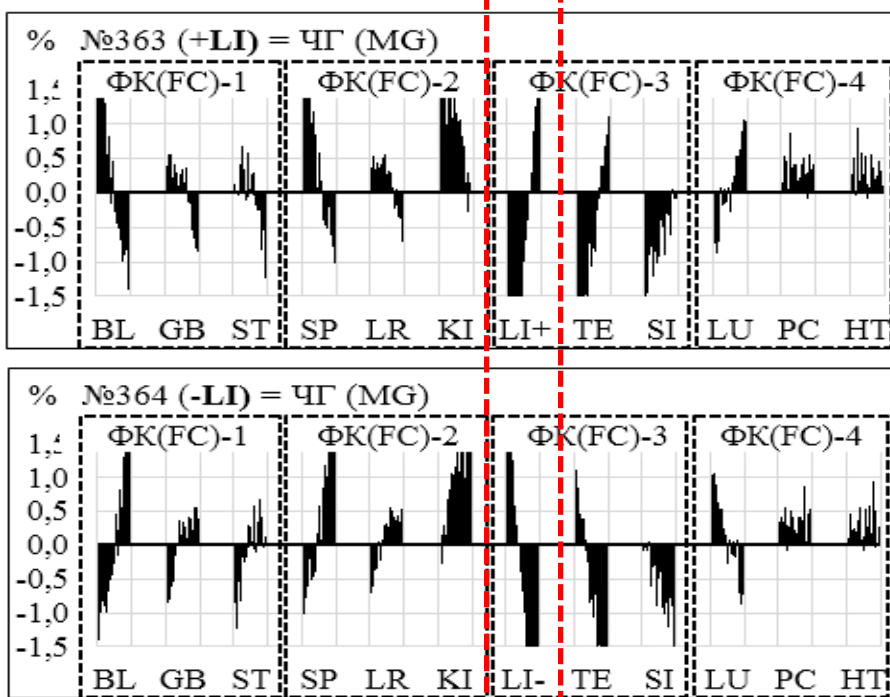


Types of systemic reactions with $\pm TE$

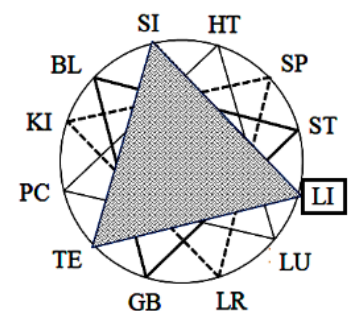


FC-3. Types of systemic reactions with $\pm LI$ (fig.5.3.3)

	CP	AP	ІІР
+LI	TE* LU*	BL-GB-ST* SP-LR*	KI* SI* PC-HT*
-LI	TE* LU*	BL-GB-ST* SP-LR*	KI* SI* PC-HT*



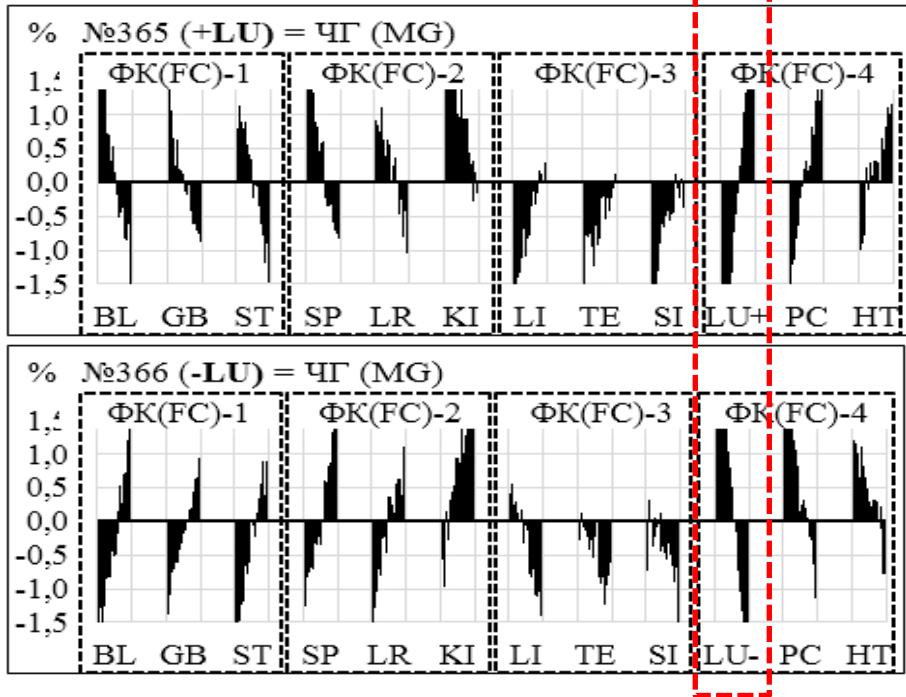
Types of systemic reactions with $\pm LI$



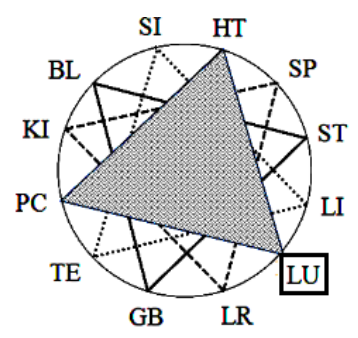
5.4. СИСТЕМНЫЕ РЕАКЦИИ ЧЕТВЕРТОГО КОМПЛЕКСА LU-PC-HT

FC-4. Types of systemic reactions with ± LU (fig.5.4.1)

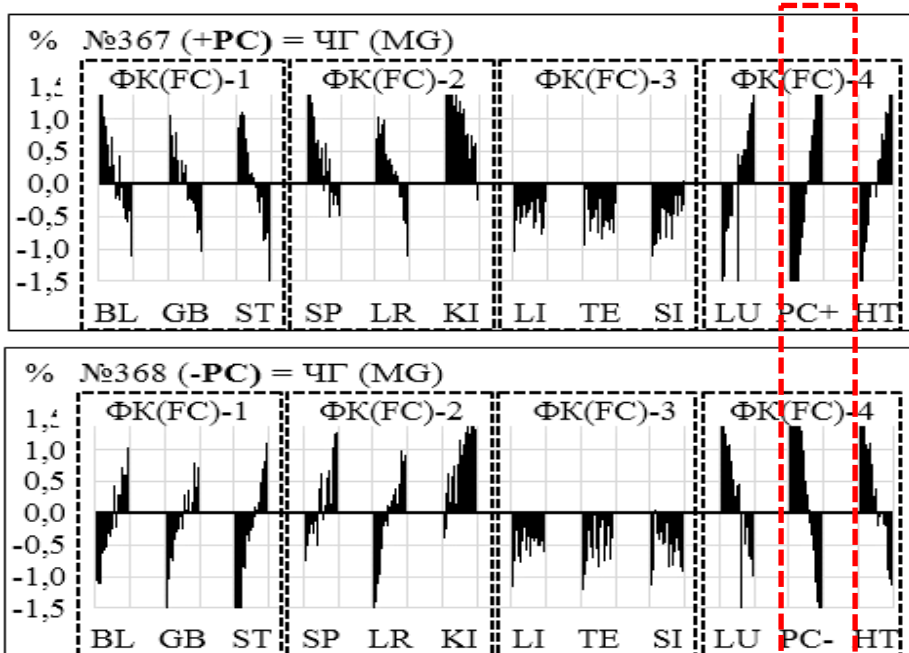
	CP	AP	PP
+LU	PC-HT*	BL-GB-ST* SP-LR*	KI* LI-TE-SI*
-LU	PC-HT*	BL-GB-ST* SP-LR*	KI* LI-TE-SI*



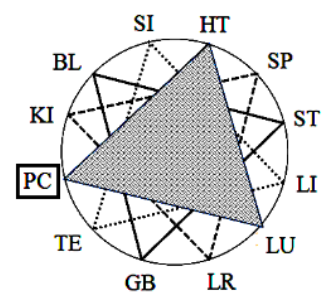
Types of systemic reactions with ± LU



FC-4. Types of systemic reactions with ± PC (fig.5.4.2)



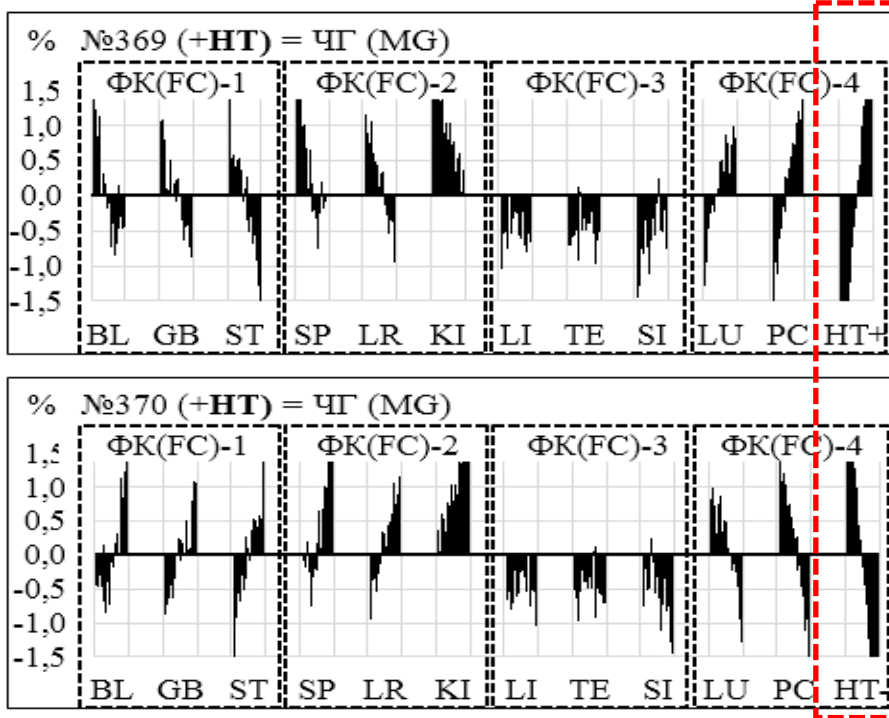
Types of systemic reactions with ± PC



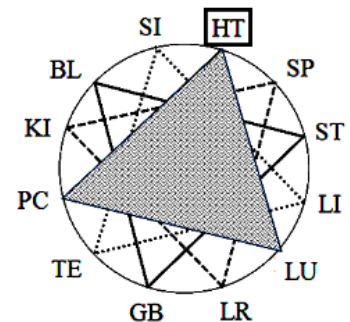
	CP (CR)	AP (AR)	CP
+PC	LI-HT*	BL* SP-LR*	GB-ST* KI* LI-TE-SI*
-PC	LI-HT*	BL* SP-LR*	GB-ST* KI* LI-TE-SI*

FC-4. Types of systemic reactions with ±HT (fig.5.4.3)

	CP	AP	ПР
+HT	LU-PC*	BL-GB-ST* SP-LR*	KI* LI-TE-SI*
-HT	LU-PC*	BL-GB-ST* SP-LR*	KI* LI-TE-SI*



Types of systemic reactions with ±BL



Findings.

1. Increasing (or decreasing) activity of any of the functional systems, is accompanied by an individual complex of asynchronous-dependent reactions.
2. Ultimately, systemic biophysical transformations of each complex form the general vegetative direction of the leading system: sympathetic (YAN) or parasympathetic (YIN)...

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