

### BIOTECHNOLOGICAL INNOVATION OF UKRAINIAN SCIENTISTS – RECOMBINANT PROBIOTIC SUBALIN

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In the pharmaceutical market of Ukraine presented the resulting genetically engineered newest recombinant probiotic Subalin for the dysbiotic violations correction and normal flora of the intestine restore with subsequent normalization of digestion, intestinal motility and detoxification in the complex treatment of patients with the syndrome of intestinal infections endotoxemia, acute and chronic viral hepatitis A and hepatitis B and patients carrying HBsAg, patients with bacterial and viral and bacterial meningencephalitis, for the adult and pediatric patients with contraindications to the antibiotics therapy.

This biological product is created by Ukrainian scientists (V.V. Smirnov, S.R. Reznik, I.B. Sorokulova et al., Institute of Microbiology and Virology of Ukrainian Academy of Sciences, Research and Design Technological Institute of Biologically Active Substances, Research and Production Association «Vector») on the basis of the strain *Bifidobacterium subtilis* VKPM B-4759, containing the recombinant plasmid with the gene of human  $\alpha 2$ -interferon.

Subalin shows polytropic antibacterial, anti-diarrheal, immunomodulatory, antiviral, antitumor therapeutic and preventive action in the combined therapy of the adults and children, characterized by a high antagonistic activity against a broad spectrum of pathogenic and opportunistic microorganisms (*Salmonella*, *Staphylococcus*, *Pseudomonas aeruginosa*, *Proteus*, *Klebsiella*, *Candida*), antiviral activity (due to synthesis of  $\alpha 2$ - and U-interferon and the ability of when administered orally to induce the synthesis of g-interferon).

This microbial strain was deposited in the Collection of Industrial Microorganisms, adapted to the long-term persistence in the human intestine and adapted to the human population living in Ukraine. Russian Patent RU2035185. Subalin has no analogues in the world of medical practice. Subalin® (Ukraine, Kiev, Biopharma Company) is available as a dry powder in vials number 10 for the preparation of oral suspension (1 dose contains  $1 \cdot 10^9$  live microbial cells *Bacillus subtilis* UKMV-5020) at an average retail price of around 88–95 UAH (8-9 EUR) per pack.

Polytropic probiotic action, low toxicity, clinically proven efficacy and pharmaco-economic availability make Subalin as popular and promising modern probiotics drug. These properties of the Subalin increase the clinicians empowers individualized approach to the treatment of dysbiosis in adult and pediatric practice with the most rational use of recombinant preparations of microbial origin.

The work is submitted to the International Scientific Conference «Homeostasis and infectious process», Israel (tel Aviv), February, 20–27, 2014, came to the editorial office on 03.02.2014.

### ACTION OF FAMILY ON EMERGENCE OF PSYCHOSOMATIC VIOLATIONS OF CHILDREN

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The medicine science proved for a long time that diseases in a human body is not accident or not infections, not intoxication, and not an infectious disease. That is became known that under each illness there are mental, psychovulnerable factors. Unsatisfied need of the person, in the period of big difficulties and experience as it proved that mentality and a body is closely connected among themselves, also became the proof that harms to weak bodies of an organism. That is the mentality and a body of the person do not live separately therefore many the case which irritated, gave a look an organism, created certain diseases. This case happens not only an adults, these diseases meet and on small children.

In many families not found enough time for children and kindness is not shown. Even there are parents who consider that food and clothes are enough for education. There are parents who consider correct to grow children without paying attention to their inner world why it sad, roughly talking, forbidding and take in a high security. That is different a case in a family, continuous quarrel of parents not to turn enough time to them, not to notice their desire, not to do or establish too confidential service, to cause that children could not make, set freely the unattainable purposes, won't praise for awards, not to notice, punish for inutile mistakes, that is because of psychological compulsions of children, children always feel a dissatisfaction, uncertainty, chagrin, even fear. Infinite proceeding the concern of the fear, unsatisfied requiring, harms to an organism of children and creates different diseases.

In education in a family there are pleasant and unpleasant obstacles for character styles for development of children. This is general good breeding relation, negative and emotional relations of family members, obstacles or not emotional proximity etc.

In general, it is possible to distribute three types of education in family: destructive, constructive and type which contains both types-mixed type. Destructive part of family. The family relations differ that there is no politeness and patience. In a family often quarrels. In such family parents generally show to children negative emotions, and the type of parents in education differs that there is no decency.

Constructive type of education in family. In general, this type is full opposite previous. Parents try to keep the pleasant, sure atmosphere. And quarrels are usually turned into a joke. Adults in a family, they hold the strong feelings, especially, teach children that they are good, that they love them and that they necessary for them. And still, in empirical

studying of J. Baldwin, education of parents divide into two types: democratic and observing.

Democratic style is defined by the following parameters: high relations between parents and children, participation of children in solutions of family problems, the parental help in due time to look with trust at actions of the child, limited subjective thoughts in studying of the child.

Observing style is a lot of restrictions on behavior of the child. Each action, aspiration, desire of the child is under strict supervision and is estimated by seniors, about the reasons of restrictions for child won't tell nothing clearly.

The mixed style of education is peculiar to children emotional sensitivity and trust. In their thoughts the universality and reflections are not noticed.

Let's look at communication between parental education and features of the child.

**Too controllable (hyper patronage).** The child is under supervision of parents and other people. They pay attention to maximum on satisfaction of need of the child. This type of education can be described as excessive care of parents. Such parents are not allowed to disturb nobody on the relations between children.

Prevailed hyper patronage. The child has no rights to choice. The child is passive, dependent, with difficulty gets used to environment. After these in children will appear psychogenic diseases.

**Poorly controllable (giperprotection).** Actions of the child are not supervised. And on the hand parents try to limit children from adults, teachers, from organizations of education of children. In that case in family the physical needs of the child are not satisfied in the necessary level. Child has no toys, books, his own study. Spiritual needs are not noticed in any way. Nobody helps to do homework. Parents do not interested their child, with whom he spends time, what is he doing. Most of all such relations will result in negative character.

**Prevailed hypopatronage.** Interest to education is poorly noticeable, but parents do not demand any rules of good breeding. Children feel it. Such type is described like in the purpose not to show a shortcoming of parents, the child renders the help to people around. In such artificial removal of time the child does not feel heat of soul. From it at the child there will be psychological wounds.

**High moral responsibility.** Approach low attention to needs of the child and high insistence. Here, because of certain reasons the child demands

from his own children that things which his parents did not reach. In many cases the care of others is provided to the child to look after and feed, that is to help younger and needing the help. The child for some time already will understand big responsibility in himself. And still, the child psychologically cannot take out such responsibility, despite age. To look for the younger brother, to help the grandmother, every day to return with five at school, because of these requirements at the child can be psychogenic violations, and can ache with phobia diseases.

**Emotional discharges.** Brought up in such look children won't brag for its good actions. Parents often punish them, beat the child. Won't satisfy them with the necessary things. First of all there is an emotional discharge.

**Opposite education.** Belong to the child differently for example having told «it badly to steal, only bad children do like this», so sometimes parents, it is not known from where taken a beautiful toy or money without having asked «where took?», tell to the child who asks back «it bought ourselves, this is our toy». That is personal mental difficulties of family members bring to that there are different types of education of the child. In this case for the child will appear unpleasant psychological case, as an opposite direction and conditions which complicate to get used, to establish neurotic qualities.

Violations of internal family relation, especially, between children and mother, lead to psychological diseases in the future.

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