

# МЕДИЦИНСКИЕ НАУКИ

## PREPARATION OF ENTANGLED STATES FOR PERFORMING CONVALESCENCE OF NOSOLOGICAL FORMS (ON THE EXAMPLE OF MULTIPLE SCLEROSIS)

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**Abstract. Background:** hypothetical foundations of quantum technologies on new physical principles of action have been considering since 1989. And in relation to the convalescence of nosological forms (for example, multiple sclerosis) in the format of an interdisciplinary convergence - since 2014.

### Objectives:

\* registration (in vitro) of the emission spectrum of a stage of oligodendrocyte differentiation for correct mRNA splicing;

\* processing and saving the electromagnetic emission in crystals in the form of stable deformations of the crystal lattice;

\* implementation of physiotherapy effects by specially organized electromagnetic fields;

\* modeling of remission or reconvalescence of morbid states.

**Materials and equipment:** femur, os femoris (in vivo); Epidermal Growth Factor and glial cell cultures (in vitro); Multielectrode Arrays; ultra-wide-band and ultra-high-frequency electromagnetic emitter; soft x-ray source (wavelength 0.3-10 nm) based on a collapsible x-ray tube under the patent of the Russian Federation: RU 2 509

389 C1 from 30.07.2012 of the state atomic energy corporation "Rosatom"; discussed it is also possible to use the VAREX GS-1562 x-ray tube in pulsed nano- (pico-) second mode.

**Planned Results:** for multiple sclerosis – remyelination, remission, possibility of reconvalescence.

**Conclusion:** multidisciplinary format is used for the first time for the development of physiotherapy methods.

**Keywords:** multiple sclerosis, physiotherapy, preparation of entangled states, quantum information teleportation; STIMEL-01M electrical stimulation device.

## INTRODUCTION

Various natural, experimental, and nature-like mechanisms of teleportation of information and preparation of entangled (linked) states [1, 2] require not only their correct preparation, but long-term preservation of such states [3, 4]. Physiotherapeutic stimulating effects are carried out using [5, 6]. In particular, [1] provides an extensive literature review and a list of literature in the framework of relevant research. The mathematical apparatus for describing and experimentally modeling processes according to the generalized scheme shown below is presented in [7]. The necessary level of conceptual information on the topic under consideration is given in [8].

## MATERIALS AND METHODS

A generalized scheme of physiotherapy is shown in figure (1). Bone marrow (3) is taken from femur, os femoris (2). The sample (4) is placed in an active nutrient medium (5), where after adding an epidermal growth factor and glial cell culture (6), the required stage of regeneration of oligodendrocyte differentiation will be formed for the correct splicing of mRNA encoding the protein neurofascin 155 – an important factor in the development of neuroglia cells.

The signal is registered using a multielectrode system (for example Multielectrode Arrays /MEA/) in

the developing dynamics of the process. Given system processes this signal in the form of a certain algorithm (8), through the amplifying equipment (7), for some time. Then, the received signal is sent to the modulator (9), which is irradiating the object with ultra short pulses (about 1 NS) of ultra-wideband (bandwidth of several gigahertz) electromagnetic radiation of the microwave range through the emitter (10). Emitter will generate a stimulating effect (11) [5,6]. Feature of the new physical principle would be a favorable force conditions simulating natural geomagnetic background of the planet in the form of Schumann resonances for exposure to electromagnetic field (12) produced in the affected area (16). A soft x-ray emitter (13) is required for creating a field of Louis de Broglie waves, as a source of bosons that are the carrier of useful information. The emitter (16) creates an electromagnetic field (17) with the frequency of Schumann resonances ( $\approx 7,83$  Hz) in the area of influence (14) modeled by the device (15). An electromagnetic field (17) is created in the form of a standing wave of common-mode currents generated by the STIMEL-01M [9] electrical stimulation device. Two STIMEL-01M devices are used - specially modified, synchronized, and phased by wave parameters to create current interference.

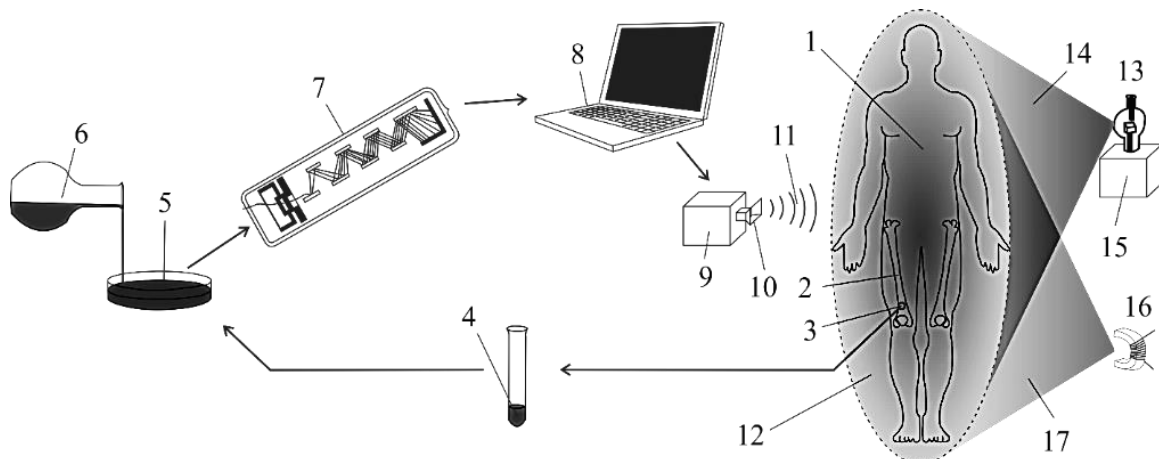


Figure 1. General scheme of physiotherapeutic treatment on the basis of new physical principles of action

## RESULTS

In preparation for the above-described physical therapy, information about such effects can be prepared and stored in crystals in the form of stable deformations of the crystal lattice. Information is stored in crystals [3, 4] as a multi - and quasi - partial diffraction grating of "preserved" entangled states, which then reproduces the holographic picture in the form of an information matrix of the modeled process at the impact stage. The modeled process occurs as follows:

- epidermal growth factor and glial cell cultures form the required stage of regeneration, which results in the differentiation of oligodendrocytes;
- some of their mRNAs undergo a special modification known as m6A-methylation (that is, the addition of a methyl group to the sixth nitrogen atom of adenosine, which is part of the mRNA);
- this modification is necessary for proper splicing of mRNA encoding the protein neurofascin-155 – an important factor in the development of neuroglia cells;

- further dynamics of the process continues until the required stage is reached, namely, post-transcriptional modifications of mRNA in cells;

- this is the covalent addition of a methyl group (-CH<sub>3</sub>) to the nitrogen atom N<sub>6</sub> in the nitrogenous base of adenosine, known as m<sup>6</sup>A-methylation.

Then the process of remyelination of nerve fibers will be initiated, which will lead to a possible remission of one or another degree of duration and persistence under favorable circumstances.

#### REFERENCES:

1. Gavrilov V, Antipova T, Vlasov Y, et al. TELEPORTATION OF SARS-COV-2 INFORMATION AND QUANTUM ENTANGLEMENT OF THE COVID-19 PANDEMIC PROCESS (SOME PHYSICAL MEANINGS). Preprints.ru. 2020. <https://doi.org/10.24108/preprints-3112047>

2. Антипова Т.А., Ардатов С.В., Ардатова А.С., и др. Обзор некоторых междисциплинарных подходов к исследованию телепортации квантовой информации в макро – и экосистемах биосферы // Современные научные исследования и инновации. 2020. № 3 [Электронный ресурс]. URL: <http://web.snauka.ru/issues/2020/03/91665> [Antipova TA, Ardatov SV, Ardatova AS, et al. Obzor nekotorykh mezhdistiplinarnykh podkhodov k issledovaniyu teleportatsii kvantovoi informatsii v makro – i ehkositemakh biogeosfery. Sovremennye nauchnye issledovaniya i innovatsii. 2020; (3), <http://web.snauka.ru/issues/2020/03/91665>. (In Russ).]

3. Гаврилов В.Ю., Неганов В.А., Осипов О.В., и др. Технология регистрации и трансляции информации о физических свойствах материальных объектов, основанная на специальном способе обработки кристаллов, полупроводников и др. активных сред. Свидетельство о регистрации и депонировании произведения — объекта авторских (смежных) прав №300. Зарегистрировано в Реестре за №1100300 от 07.02.2007 ООО «Юридическая фирма Городисский и Партнеры» [Gavrilov VY, Neganov VA, Osipov OV, et al. Tekhnologiya registratsii i translyatsii informatsii o fizicheskikh svoistvakh material'nykh ob"ektov, osnovannaya na spetsial'nom sposobe obrabotki kristallov, poluprovodnikov i dr. aktivnykh sred. Svidetel'stvo o registratsii i deponirovaniy proizvedeniya — ob"ekta

avtorskikh (smeznykh) prav №300. Zaregistrovano v Reestre za №1100300 ot 07.02.2007 ООО «Yuridicheskaya firma Gorodisskii i PartnerY» (In Russ).]

4. Ардатов С.В., Ардатова А.С., Власов Я.В., и др. Концепция создания функциональных 4 D голографических локусов нового типа энергонезависимой памяти - как носителя и хранилища разнообразных модусов законсервированных запутанных квантовых состояний // Современные научные исследования и инновации. 2019. № 5 [Электронный ресурс]. URL: <http://web.snauka.ru/issues/2019/05/89228>

[Ardatov SV, Ardatova AS, Vlasov YV, et al. Konceptiya sozdaniya funktsional'nykh 4 D golograficheskikh lokusov novogo tipa jenergonezavisimoy pamjati - kak nositelja i hranilishha raznoobraznykh modusov zakonservirovannykh zaputannykh kvantovykh sostojanij. Sovremennye nauchnye issledovaniya i innovatsii. 2019; (5) <http://web.snauka.ru/issues/2019/05/89228>. (In Russ).]

5. Sokolov A, Sakharov K, Mikheev O, et al. Radiators of Ultrashort Electromagnetic Pulses. In: The Third International Conference on Ultrawideband and Ultrashort Impulse Signals, Sevastopol, Ukraine, Sept. 2006: 203 – 205.

6. Device for input of high-voltage voltage pulses into the TEM-horn antenna. Patent 2185012, Russian Federation, 2001.

7. Bo-Sture K. Skagerstam, Karl-Erik Eriksson and Per K. Rekdal. Causality in quantum field theory with classical sources. Journal of Physics Communications. 3 (2019) 8, 082001 <https://inspirehep.net/literature/1651252>

8. Vlasov Y, Ardatov S, Gavrilov V, et al. PREPARATION OF ENTANGLED (LINKED) STATES FOR PERFORMING CONVALESCENCE OF NOSOLOGICAL FORMS (ON THE EXAMPLE OF MULTIPLE SCLEROSIS). Preprints.ru. 2020. <https://doi.org/10.24108/preprints-3112071>

9. Аппарат электростимуляции СТИМЭЛ-01М / URL: [http://www.dealmed.ru/apparat\\_elektrostim\\_stimel01m.html?roistat=direct4\\_search\\_7465784476\\_СТИМЭЛ%2001м%20купить&roistat\\_referrer=none&roistat\\_pos=premium\\_1&\\_openstat=ZGlyZWN0LnlibmRleC5ydTs0MzA4MzI5ODs3NDY1Nzg0NDc2O3lhbmRleC5ydTpwcmVtaXVt&yclid=3564044693295632676](http://www.dealmed.ru/apparat_elektrostim_stimel01m.html?roistat=direct4_search_7465784476_СТИМЭЛ%2001м%20купить&roistat_referrer=none&roistat_pos=premium_1&_openstat=ZGlyZWN0LnlibmRleC5ydTs0MzA4MzI5ODs3NDY1Nzg0NDc2O3lhbmRleC5ydTpwcmVtaXVt&yclid=3564044693295632676)