

О Т Ч Е Т

**НА ИНСТИТУТА ПО НЕВРОБИОЛОГИЯ
ПРИ БЪЛГАРСКА АКАДЕМИЯ НА НАУКИТЕ**



**ЗА НАУЧНО-ИЗСЛЕДОВАТЕЛСКАТА,
УЧЕБНА И ФИНАНСОВА ДЕЙНОСТ
ПРЕЗ 2013 Г.**

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1. ПРОБЛЕМАТИКА НА ЗВЕНОТО

1.1. Преглед на изпълнението на целите (стратегически и оперативни) и оценка на постигнатите резултати в съответствие с мисията и приоритетите на звеното, утвърдени от ОС на БАН при структурните промени през 2010 г.

Основният предмет на дейност на ИНБ е провеждане на фундаментални и научно-приложни изследвания в областта на невронауките, посредством интердисциплинарни неврофизиологични, психофизиологични и фармакологични подходи за получаване на нови знания за невробиологичните механизми на организация, адаптация и регулация в организма на човека и животните и фармакологичните въздействия върху тях.

Стратегическа цел на научно-изследователската дейност на ИНБ е получаване на нови знания, провеждане на конкурентноспособни научни изследвания, създаване на нови диагностични и прогностични методи за подобряване на качеството на живот и на интелектуалните и физически възможности на човека.

През 2013 въз основа на решение на ОС на БАН (Протокол № 14 от 28.01.2013 и Протокол № 18 от 25.02.2013) към ИНБ, беше присъединена Експериментална и развъдна база за опитни животни „ЕРБОЖ“ – гр. Сливница.

Базата е единствена по рода си за цялата страна и е основен източник на експериментални животни за институтите на БАН, преобладаващо от направление „Биомедицина и качество на живот“, а така също и на медицински, фармацевтични и други организации. През отчетния период ИНБ отдели значителен финансов ресурс за реновирането ѝ, свързано с подобряване на условията на развъждане и отглеждане на експериментални животни, като и на условията за работа в ЕРБОЖ. Едновременно с това усилията на ръководството на института бяха насочени към разширяване на контингента от потребители на развъжданите в ЕРБОЖ животни. Предвижда се в бъдеще да се потърсят възможности за трансгранични сътрудничества, свързани с пласмент на развъжданите животни.

Научно-изследователската тематика в ИНБ продължи да се развива съобразно основните структуро-определящи научни направления: Сензорна невробиология, Когнитивна психофизиология, Поведенческа невробиология, Синаптична сигнализация и комуникации, Биологични ефекти на природни и синтетични вещества.

През 2013 г. научно-изследователската дейност се развива в съответствие с възприетите като стратегически направления и приоритети на научната политика на БАН за периода 2009-2013г., Европейска стратегия, национални приоритети.

Основните насоки на изследванията провеждани в ИНБ са:

- изучаване на невробиологичните механизми на регулация на жизненоважни процеси в организма;
- изследване на неврохимичните, клетъчните и системно-интегративни основи на нормални и патологични процеси в нервната система;
- моделиране на неврофизиологични процеси и техните патологични отклонения;
- изследване на въздействие и/или взаимодействие на ендогенни и екзогенни биологично-активни вещества и лекарствени продукти и оптимизиране на възможностите за тяхното приложение;
- разработване на съвременни методи за анализ на мозъчни биоелектрични сигнали, както и на методични постановки с практическо приложение при клинични изследвания.

Благодарение на усилията на учените от ИНБ през 2013г. са публикувани общо **51** научни труда и са подгответи за печат **23**, от които **58** са рефериирани и индексирани в световните системи за рефериране, индексиране и оценяване. От тях **43** публикации имат IF (Web of science) или импакт ранг SJR (SCOPUS).

През 2013г. са забелязани **1016** цитирания на научни трудове на изследователи от ИНБ, с изключени самоцитати, като **99%** са от чуждестранни автори. Разработвани са **35** проекти, от които само **9** с външно финансиране. За съжаление поради кадрови, структурни и финансови проблеми във фонд „НИ“ към МОН през 2013г. не беше реализирано обявеното преразглеждане на подадени през 2012 г. проекти, както и не бяха преведени финансови средства на текущ Младежки проект с р-л гл.ас К. Рачева и на текущ договор ДДВУ-02-24/2010 с ръководител за ИНБ проф. Рени Калфин.

1.2. Връзки с политиките и програмите от приетите на ОС на БАН на 23.03.2009 г. „Стратегически направления и приоритети на БАН през периода 2009-2013 г.“

Многообразната научно-изследователската дейност в ИНБ е в съответствие с очертаните „Стратегическите насоки и приоритети на БАН“ за периода 2009-2013 и се вписва изцяло в: Политика 2: „Научен потенциал и изследователска инфраструктура – част от Европейското изследователско пространство“, програма 2.3: „Качество на живота и интердисциплинарни изследвания на човека и живата природа“.

В съответствие с проведената през 2010 г реформа в БАН и приетите от Общото събрание тематични направления, ИНБ е част от направлението „Биомедицина и качество на живот”.

Насоките на научното развитие на ИНБ в голяма степен са в съответствие с приоритетната област “Здраве” на 7 Рамкова програма на ЕС (2007 – 2013), в съзвучие с стартиралия през октомври 2013 проект „Human Brain” (2013-2016) - инициатива на 7РП, както и със стартираната през м. април 2013 инициатива на президента на САЩ програма “BRAIN” – насочена към нови подходи в разбирането за човешкото съзнание и нови начини за лечение, предотвратяване, и лекуване на мозъчни заболявания като Алцхаймер, шизофрения, аутизъм, епилепсия и травматично увреждане на мозъка.

1.3. Извършвани дейности във връзка с точка 1.2

Конкретните научно-изследователски задачи и постигнатите резултати от колективата на ИНБ през отчетната 2013 година са в съответствие с предмета на дейност и приоритетите на ИНБ и включват:

Изучаване на неврофизиологичните механизми на преработка на сетивна, двигателна и когнитивна информация: Изследванията са съсредоточени върху: изучаване на възрастовите промени в зрителното възприятие на пространство и движение; влияние на параметрите и ориентацията на стимули-синусоидални решетки върху параметрите на зрителни събитийно-свързани потенциали (ЗССП) при пациенти със захарен диабет тип 2; проучване ролята на моторната система при трансформирането на зрителна информация; разпознаване на зрителни образи при лица с проблеми от аутистичния спектър; изучаване функционалното значение на мозъчните събитийно-свързани потенциали при преработка на информацията в мозъка в норма (развитие и стареене) и патология (детски психиатрични заболявания; неврологични и невродегенеративни разстройства на стареенето), както и ролята на мозъчните осцилации и ритми при сън и бодърстване и когнитивни процеси като перцепция, осъзнаване, внимание, консолидация на процедурална, имплицитна и експлицитна памет; възрастови промени в сетивно-двигателната адаптация на движенията на ръката и очевидителната система; мозъчно-корова регулация на спокойния стоеж при сетивен конфликт; позно-двигателна координация в условия на различни сензорни задачи в норма и патология.

Моделиране на неврофизиологични процеси и техните патологични отклонения
чрез проучвания на ефектите на хормона мелатонин и антихипертензивното средство

лосартан върху експериментални модели на епилепсия; проучване на ролята на канабиноидна невромедиаторни системи във формиране на поведението и болковата чувствителност; процесите свързани с обучението и паметта при модели на депресия; проучване поведенческите ефектите на съдържащите се в плодовия сок от Aronia melanocarpa биологично активни flavonoids – кварцетин и галовата киселина; изследване токсичния ефект на високи дози на елаговата киселина (ЕК) върху здрави и инфицирани с грипен вирус мишки; проучване на ефектите на новосинтезирани пептидомиметици върху когнитивните функции на гризачи при модел на агресия и модел на социална изолация; изследване на невромедиирани моторни отговори на гастроинтестиналния тракт при оксидативен стрес и експериментални туморни модели; създаване и използване на експериментални модели за проучване на интимните механизми на синтез и секреция на бета-клетките в ендокринния панкреас; морфологични и имуноистохимични изследвания на каротидното тельце, на главния мозък при висцерална болка; на глутаматергичната инервация в слуховия ядрен комплекс, както и морфологични изследвания при каинатна епилептогенеза.

Фармакологични изследвания свързани с изследване на ефектите и механизмите на действие на невропептида грелин, приложен самостоятелно и в комбинация с ангиотензин II (Ang II) и аргинин-вазопресин (AVP), върху съкратителната активност на гладки мускули от пикочен мехур; изследване влиянието на 2 новосинтезирани комплекса на Zn/Au Zn/Ag с лиганда Salen върху преживяемостта и пролиферативната активност на култивирани в лабораторни условия трансформирани с вируси човешки и животниски туморни и нетуморни клетки; ефект на продължително лечение с алфа-липоева киселина върху постурална стабилност на пациенти с диабетна полиневропатия; изследване на острата токсичност на селектирани нови пептидомиметици, производни на ниско молекулни алфа аминокиселини - аналог на Tug-MIF-1, и аналог на ноцицептин върху бели мишки; изследване въздействието на синтезирани хексапептидни аналоги при модела на карагенин-предизвикано остро периферно възпаление.

1.4. Полза / ефект за обществото от извършваните дейности по т. 1.3

Разработваните проблеми дават непосредствен принос в развитието на науката невробиология. Изследванията се провеждат на различни нива на познанието – клетъчно ниво до висша нервна дейност. Посредством интердисциплинарни неврофизиологични, психофизиологични и фармакологични подходи се получат нови

знания за интелектуалните и физически възможности на човека и се създадат нови диагностични, терапевтични и прогностични методи за човешката дейност в норма и патология. Крайна цел е подобряване качеството на живот на човека в условията на съвременната информационна и екологична среда.

ИНБ има традиции в консултантската и експертна дейност на национално ниво. Учени от ИНБ участвуват в редица експертни комисии и съвети от държавно и академично ниво.

1.5. Взаимоотношения с институции

ИНБ осъществява научно-изследователска и експертна дейност и участва в подготовката на специалисти (студенти, специализанти и докторанти) със следните институции:

Висши училища: Софийски университет „Св. Климент Охридски“ (Биологически, Физически факултети, Факултет по начална и предучилищна педагогика), Медицинските университети в София, Пловдив, Варна и Плевен, Химикотехнологичен и металургичен университет-София, Нов български университет, Национална спортна академия “В. Левски”- София, Тракийски университет (Ст.Загора).

Клинични здравни заведения: Университетската многопрофилна болница за активно лечение (УМБАЛ) „Александровска“, УМБАЛ по неврология и психиатрия „Св. Наум“-4 км, УМБАЛ “Царица Йоана-ИСУЛ”, Специализираната очна болница за активно лечение „Акад. Пашев“ ОД- София, НМТБ “Цар Борис III” –София.

Фирми: ИНЕКС-проект ОД – съвместна дейност за ранна диагностика на деменции и невродегенеративни заболявания.

Други институти на БАН: Институт по биофизика и биомедицинско инженерство, Институт по комуникационни и информационни технологии, Институт по експериментална морфология, патология и антропология с музей, Институт за изследване на населението и човека, Институт по механика, Института по молекулярна биология при БАН.

1.6. ОБЩОНАЦИОНАЛНИ И ОПЕРАТИВНИ ДЕЙНОСТИ, ОБСЛУЖВАЩИ ДЪРЖАВАТА

През 2013 г. в ИНБ са разработвани 1 проект към Националния иновационен фонд и 8 проекта съвместно с български университети с важно значение за развитието на здравеопазването и експерименталната медицина като:

- „Иновативен метод и компютърно реализиран алгоритъм за ранна диагностика на деменции при невродегенеративни заболявания” - Националния иновационен фонд, ръководител от ИНБ проф. И. Белчева
- „Фармако-физиологични характеристики на моторната дейност на висцералните гладки мускули” - разработка съвместно с Медицински университет Варна, ръководител от ИНБ чл. кор. Р. Радомиров
- „Поведенчески ефекти на фенолните киселини: хлорогенова, ферулова и галова” - разработка съвместно с Медицински университет Варна, ръководител от ИНБ проф. И. Белчева
- “Участие на канабиноидните CB1 рецептори при депресивни състояния” - разработка съвместно с Медицински университет Варна, ръководител от ИНБ доц. Р. Ташев
- “Фармакологично и невробиологично изследване на новосинтезирани пептидомиметици, производни на ниско молекулни алфа аминокиселини” - разработка съвместно с ХТМУ София, ръководител от ИНБ доц. Л. Танчева
- „Проучване участието на агиотензин II модулаторната система и хормона мелатонин в механизмите регулиращи циркадианните ритми на мозъчната реактивност при каинатен модел на епилепсия” - разработка съвместно с Медицински университет Плевен, ръководител от ИНБ доц. Я. Чекаларова
- “Имунохистохимична локализация на AMPA- глутаматни рецептори в кохлеарния нуклеарен комплекс на плъх” - разработка съвместно с Медицински университет Плевен, ръководител от ИНБ проф. Н. Лазаров

2. РЕЗУЛТАТИ ОТ НАУЧНАТА ДЕЙНОСТ ПРЕЗ 2013 Г.

През изтеклата година ИНБ представи в научното пространство общо 74 публикации от които 51 са излезли и 23 са приети за печат.

Анализът на публикационната дейност за 2013 г. показва, че: 58 публикации (15 - под печат) са в списания реферирани и индексирани в световни системи за рефериране, индексиране и оценяване като SCOPUS и Web of Science, което представлява 78% от общия брой публикации; 13 научни труда са отпечатани или приети за печат в нереферирани от информационните системи списания.

Учени от ИНБ са участвали в издаване на глави в 2 монографии и 1 учебно помагало издадени от издателства Springer, а СУ „Кл. Охридски“ и „Парадигма“.

В сравнение с 2012 г. броят на публикациите в реферирани научни списания е намалял с 13%. Прави впечатление и малкия брой участия на учени от ИНБ в монографични трудове (3 бр.), за разлика от 2012 г. (7 бр.).

Четиридесет и две (43) публикации са в издания с импакт фактор (IF), което съставлява 74% от реферираните публикации. Преобладаващата част от тях са в международни списания. Публикациите в издания с IF за 2013 г. съставляват 58% от публикационната продукция в ИНБ.

Общийт импакт фактор на публикациите, изчислен по данни на ICI WEB of Knowledge е 78.97. В съавторство с чуждестранни учени от САЩ и Европа (Англия, Германия, Италия, Белгия, Румъния, Чехия, Испания и др.) са 24 от трудовете (32% от общия брой).

Всички тези наукометрични показатели показват устойчиво високо ниво на публикационна дейност в реферирани международни списания (78%). Имайки предвид, че числеността на академичния състав на ИНБ към 1.01.2014 г. е била 44 человека (без 2 дългосрочно в чужбина), на член от научния колектив през 2013 г. се получават средно по 1.76 публикации.

Свидетелство за качеството на научната продукция на учените от ИНБ са откритите за 2013 г. в световни системи за рефериране и индексиране на научна литература цитирания на **285** публикации на изследователи от ИНБ г.. Общийт брой цитати е **1016**, от които **99%** са цитирания от чуждестранни автори.

Тук трябва да се отбележи силното присъствие на учените от работната група по „Когнитивна невродинамика“ към направление „Сензорна невробиология“ със 434 цитирания.

През 2013 г. в ИНБ са разработвани общо 35 научно-изследователски проекти, от които 10 с външно финансиране: 1 по 7 РП на ЕС, 6 от Фонд “Научни изследвания” и 3 от МУ- Варна. Разработвани са без пряко финансиране - 1 проект към Национален инновационен фонд, 3 – с ВУЗ в страната, в които ИНБ е съизпълнител, 11 проекта от бюджетната субсидия на БАН, за които са осигурени единствено работните заплати на научните колективи; 2- проекта по линия на международно сътрудничество в рамките на междуакадемични договори и споразумения (EBR) (Румъния и Чешка Република), при които се осигурява престоя на командированите учени в съответната страна без пътни разходи и 8 – в сътрудничество с Университети в чужбина (Германия, Швейцария, Англия).

Доц. Л. Танчева участва в проект на И-т по микробиология БАН с Фонд “Научни изследвания” (FFNNIPO_12_01230).

През изминалата година ас. Стелиана Борисова получи финансова подкрепа от “конкурс за подбор на докторанти, пост-докторанти и млади учени за едномесечни обучения във високотехнологични научни комплекси”, по проект BG051PO001/3.3-05-0001 „Наука и бизнес” - МОН, осъществяван с финансовата подкрепа на ОП „Развитие на човешките ресурси”, съфинансиран от Европейския социален фонд на Европейския Съюз.

През годината бяха представени 46 научни съобщения в 17 международни и 6 национални научни форуми с международно участие. Асистент Лора Дякова спечели втора награда за отлично представяне на постер на XII Международен конгрес по медицински науки, 9-12 май 2013, София, България.

Чл. кор. Р. Радомиров участва като специално поканен гост на Световен форум за наука (World Science Forum) - 23-29.11.2013г. в Рио де Жанейро, Бразилия.

Проф. Ю. Йорданова участва като поканен лектор на международната конференция "Стареене и когниция 2013", състояла се в гр. Дортмунд, Германия на 25-27.04.2013. , а доц. Р. Киров - като поканен лектор на 14-та световна конференция по климатични промени и здраве, състояла се от 17 до 19 май 2013 в Лондон (Англия).

Учени от направление “Сензорна невробиология” участваха в организацията и провеждането на 1 национална тематична конференция “Роботика и интелигентни системи” (Технологии за независим живот и социално включване)”.

Професор д-р Рени Калфин е участвала в Организационните комитети на две научни прояви в София – Осмата работна среща „Биологична активност на метали и метални съединения” 27-29 ноември, 2013 г. и Четвъртата работна среща „Експериментални модели в биомедицинските изследвания” 27-29 май, 2013 г.

Общо 8 учени от ИНБ са членове на 32 експертни комисии и органи на външни за БАН институции (24 национални и 8 международни). През отчетния период са изгответи от 20 учени общо 194 писмени становища, експертни оценки и рецензии. Осем учени от звеното са членове на общо 15 редакционни колегии на научни списания (13- международни и 2 български). През 2013 г. проф. Йорданова е направила 49 рецензии за 20 международни списания и 12 рецензии на проекти по 7-ма Рамкова програма на Европейския съюз, където е Национално контактно лице за България,

проф. В. Колев – 14 рецензии за 7 международни списания, а доц. Р. Киров - 54 рецензии за 18 международни списания (Приложение 26, 27).

Прави впечатление постоянното и активно присъствие на учени от ИНБ в експертни съвети и комисии на международни организации като 7 РП на ЕС, Генералната асамблея на Международния съюз по фармакология IUPHAR, Управителния съвет на Балканския Медицински Съюз, Регионалния комитет на IBRO за централна и източна Европа, Научния консултативен комитет на Европейското дружество по фармакология EPHAR и др.

През годината в института един учен е избран за „доцент”.

Зашитени са две дисертация за получаване на образователната и научна степен „доктор”.

През 2013 г. бяха зачислени 1 редовен, 2 задочни докторанти и 2 докторанти на свободна подготовка.

2.1. Най ярко научно постижение

В резултат на съвместни изследвания с учени от Института по физиология и анатомия към Спортния университет в Кьолн върху едновременната адаптация на движенията на очите и ръката, е установен общ адаптационен механизъм за таргетните зрителни сакади и движенията на ръката, локализиран на подкорово ниво (горните зрителни хълмчета), който работи на принципа на сравнение на сетивно-двигателните пренастройки на двете системи. При несъответствия между таргетните отмествания за двете системи, доминира адаптацията на движенията на ръката, което се дължи на активното участие на мозъчната кора (париеталния и префронталния дял). Резултатите имат оригинален научен принос като опровергават съществуващите твърдения в литературата за липсата на общ механизъм на адаптация между най-често генерираните движения на очите и ръката. В приложен аспект те са от съществено значение за управлението на различни видове транспортни средства, работа с компютър и други операторски дейности, особено при по-възрастни хора, работещи с диоптрични очила или страдащи от някои неврологични или зрителни заболявания.

Значимостта на резултатите е подкрепена от 2 публикации в международни списания с импакт фактор и защитена дисертация за научната и образователна степен “Доктор” от ас. Стелиана Борисова.

Разработката е реализирана от колектив от направление “Когнитивна психофизиология” с ръководители доц. д-р Валентина Григорова и проф. Отмар Бок.

2.2. Най ярко научно-приложно постижение

Подредством прилагане на кайнатен модел на предизвикан епилептичен статус при нормотензивни плъхове порода „Wistar” и спонтанно хипертензивни плъхове (SHR) бяха получени оригинални експериментални данни относно ефекта на действие на хормона мелатонин върху епилептогенезата и последствията от нея. Инфузията с мелатонин облекчава оксидативния стрес вследствие епилептичния статус, а двумесечното третиране с хормона облекчава епилептогенезата в по-голяма степен у SHRs плъхове придружавано с облекчаващ хипертонията ефект. Данните биха допринесли за използването на мелатонина в терапевтичната практика при лечение на състояния свързани с епилептогенеза, коморбидни депресивни състояния и невропротекция.

Данните са докладвани на 4 научни форума и публикувани в 4 международни списания с импакт фактор. Разработката е реализирана от колектив с ръководител доц. Я. Чекаларова, направление „Поведенческа невробиология”

3. МЕЖДУНАРОДНО СЪТРУДНИЧЕСТВО НА ЗВЕНОТО

През изминалата година усилията на учените от ИНБ бяха насочени към подържане и задълбочаване на установени научни контакти с водещи университети и изследователски центрове от страни членки на ЕС (Германия, Румъния, Англия, Чешка Република и др.). През 2013 г. бяха положени усилия в подготовката и сключването на нови международни договори и търсенето на нови партньори от чужбина.

Анализът на публикационната дейност показва, че 32% (24 бр) от общия брой публикации (75 бр.) са в съавторство с чуждестранни партньори.

През годината в Института са гостували 3 учени – 2 от Румъния по договор на ниво Академии (EBR), с координатор за ИНБ проф. Р. Калфин, направление „Синаптична сигнализация и комуникации” и 1 от Англия по институтски договор с ръководител доц. Р. Киров, направление „Когнитивна психофизиология”.

Общата преценка за състоянието и перспективите за международно сътрудничество показва, че то е устойчиво, с тенденция към постоянното разширяване, а това дава възможност за успешното интегриране на Института в европейското научно пространство и повишаване качеството на работа с цел постигане на все по-добри резултати.

3.1. В рамките на договори и спогодби на ниво Академия

Липсата на съфинансиране от други източници за поддържане на двустранните сътрудничества по ЕБР, доведе до редуциране на броя на проектите. През 2013 в ИНБ бяха разработвани 2 проекта по ЕБР с партньори от Румъния и Чехия (Приложение 11).

3.1.1 “Приложение на човешки и животински клетъчни култури за идентифициране на съвременни материали с обещаваща биологична активност”, с Партньор: Румънска Академия, с ръководител доц. Радостина Александрова и координатор от ИНБ проф. Р. Калфин;

3.1.2. “Проучване ефектите на постнатален изолационен стрес и хронично прилагани аденоzinови агенти върху механизма модулиращ гърчово-пристъпната чувствителност в процеса на онтогенезата и зрелостта: ЕЕГ и поведение“, с Партньор: Институт по физиология, Прага, Чешка република, с ръководител от българска страна доц. Я. Чекаларова

3.2. В рамките на договори и спогодби на институтско ниво

През 2013 г. се изпълняват 1 проект по 7 Рамкова програма на ЕС и 8 проекти на институтско ниво с чуждестранни партньори (без тези по ЕБР) от Германия, Англия и Швейцария:

3.2.1. “Социална екосистема за забавяне на стареенето, подобряване на капацитета и качеството на живот” (Social ecosystem for anti-aging, capacitation and wellbeing) - с Партньори от Испания, Франция, Малта и Италия в проект по 7 Рамкова програма на ЕС, координатор от българска страна: доц. Н. Бочева.

3.2.2. “Оценка на методи за тренировка на очни движения при по-възрастни хора” с Партньор: Институт по физиология и анатомия, Спортен университет, Кьолн, DFG, Германия, ръководител от българска страна: доц. В. Григорова

3.2.3 “Пластичност на мозъка и сън” с Партньор: Университет Любек, DFG, Германия Ръководител от българска страна: проф. Ю. Йорданова

3.2.4. “Генетични, фамилни и индивидуално-личностови детерминанти на функционалното развитие в норма и психопатология” с Партньор: Университет Гьотинген, Германия , ръководител от българска страна: доц. д-р Румен Киров

3.2.5. “Неврофизиологични корелати на когнитивната дейност при детски психиатрични разстройства“, с Партньор: Университет Гьотинген, Германия, ръководител от българска страна: проф. д-р Юлияна Йорданова

3.2.6. „Роля на съня за когнитивните и психични процеси в норма и психопатология“ с Партиори: Университет Базел, Швейцария, ръководител от българска страна: доц. д-р Румен Киров

3.2.7. „Невроелектрични корелати на дефицит на вниманието при неглект синдром“ с Партиор: Университет Нотингам, Англия, ръководители от българска страна: проф. В. Колев, проф. Ю. Йорданова

3.2.8. „Разпознаване на зрителни образи при лица с проблеми от аутистичния спектър“ с Партиори: Университет в Глазгоу, Шотландия и Кембридж Университет, Англия, ръководител от българска страна: гл. ас. М. Михайлова

През 2013 г. в изпълнение на разработваната тематика за провеждане на съвместните изследвания и обсъждане на резултати от съвместната дейност са осъществени 4 дългосрочни (20-30 дни) и 2 краткосрочни (4 дни) командировки и една 30 дневна специализация в чужбина.

Политиката на Института е да се поощряват всички възможни форми на контакти и сътрудничество с институти, университети, фирми и др., от една страна за популяризиране разработваната научно-изследователска тематика и от друга – за иницииране на съвместни проекти, които биха довели до финансиране на научната дейност в ИНБ.

Най-значим международно финансиран проект е “Социална екосистема за забавяне на стареенето, подобряване на капацитета и качеството на живот” финансиран по 7 Рамкова програма на ЕС с ръководител доц. Н. Бочева (Приложение 10)

4. УЧАСТИЕ НА ЗВЕНОТО В ПОДГОТОВКАТА НА СПЕЦИАЛИСТИ

И през 2013 г. сътрудниците на ИНБ участват активно в подготовката на докторанти, студенти и специализанти.

Формите под които учени от ИНБ участват в подготовката на кадри са: научно ръководство на докторанти, лекции и упражнения във висши училища, специализирани курсове и лекции в чужбина.

През отчетната година в ИНБ са обучавани общо 15 докторанти в три акредитирани научни специалности – 4 в специалност “Физиология на животните и човека”, 9 по ”Фармакология, фармакокинетика и химиотерапия” и 2 по “Психофизиология”. Предпочитани форми на обучение от докторантите в ИНБ са задочна 5 и самостоятелна подготовка 8. В началото на 2013 са обучавани 10

докторанти, като през годината са зачислени 5 нови докторанти: 1 в редовна, 2 – задочна и 2 в самостоятелна форма на обучение. Пет докторанти са отчислени с право на защита. Под ръководството на учени от Института е обучаван 1 докторант от звена извън ИНБ. Успешно са защитили 2 докторанти - ас. Полина Матеева и ас. Стелиана Борисова (Приложения 22 и 23). Трябва да се отбележи, че предпочитани в ИНБ остават задочната и свободна форми на докторантурата. Докторантурата на самостоятелна подготовка е перспективна форма и е застъпена в голяма степен, тъй като дава възможност за по-ефективна селекция на бъдещите учени и по-дълъг период за експериментална работа.

Подготовката на млади специалисти с висока квалификация е съществена задача от мисията на Института. В изпълнението на тези задачи се разчита на компетентността и ентузиазма на хабилитирани и нехабилитирани научни кадри, на създадените школи в отделните научно-изследователски колективи, традициите и утвърденото в научната общност добро име на Института.

С финансовите средства от дарението на акад. Дамян Дамянов бяха учредени награди-стипендии за работещи на основен трудов договор в Института млади учени, придобили или в процес на придобиване на образователната и научна степен "доктор".

През 2013 г. за пръв път бяха изплатени възнаграждения на научните ръководители и научните консултанти, които обучават докторанти в Института по невробиология. Възнаграждения бяха дадени също на ръководителите на успешно защитилите през 2013 г. докторанти в ИНБ.

Провежданата от ръководството на Института политика за подкрепа на докторантите и техните ръководители даде резултат – през 2013 г. броят на обучаваните в ИНБ докторанти е с 40 % по-голям от този през 2012 г.

През 2013 г. общо 20 учени от ИНБ са участвали в обучението на студенти от Софийски университет "Св. Кл. Охридски, Медицински университет-София, Медицински университет – Плевен, Шуменски университет, Национална спортна академия – София, Нов български университет, ИЕМПАМ-БАН, ЦО – БАН.

Общият хорариум на лекциите е **768** часа, а на упражненията – **1197** часа.

Заслужава да се отбележи факта, че броят на учените, както и водените лекционни курсове и упражнения през 2013 г. в сравнение с предходната година е нараствал 2 пъти. Пълна справка за преподавателската дейност на сътрудниците на института е дадена в Приложение 24.

5. ИНОВАЦИОННА ДЕЙНОСТ НА ЗВЕНОТО И АНАЛИЗ НА НЕЙНАТА ЕФЕКТИВНОСТ

Научните изследвания в ИНБ имат както фундаментален, така и приложен характер. По-голямата част (>90%) от разработваните проекти през 2013 година са приложни изследвания с иновативен характер и се намират основно във фаза изследователска (iR2).

През 2013 г. е продължена работата по създаване на система за неинвазивно едновременно измерване еластичността на подлежащата артерия и кръвното налягане. Разработката е реализирана от доц.. М. Антонова, направление „Поведенческа невробиология”.

От януари 2013 г. колектив от ИНБ под ръководството на проф. Ирен Белчева започна работа по проект, финансиран от Националния Иновационен Фонд (“Иновативен метод и компютърно реализиран алгоритъм за ранна диагностика на деменции при невродегенеративни заболявания”).

6.-7. КРАТЬК АНАЛИЗ НА ФИНАНСОВОТО СЪСТОЯНИЕ

I. ПРИХОДИ

През отчетния период 01.01.2013 г. – 31.12.2013 г. ИНБ е реализирал и отчел приходи, както следва):

1	ПРИХОДИ общо	Стойност лв.	Относит.дял %
		1136669	
1.1	Бюджетна субсидия	966500	85,03
1.2	Собствени приходи, в т.ч.	170169	14,97
1.2.1	<i>Проекти, финансиирани от МУ-Варна</i>	30754	18,07
1.2.2	<i>Проект, финансиран от 7 РП на ЕС</i>	75104	44,13
1.2.3	<i>Наеми на имущество</i>	10522	6,18
1.2.4	<i>Такси от докторанти</i>	2210	1,30
1.2.5	<i>Дарение</i>	2350	1,38
1.2.6	<i>Продажба на опитни животни</i>	49862	29,30
1.2.7	<i>Продажба на брак на вторични сировини</i>	1220	0,72
1.2.8	<i>Лихви, курсови разлики, внесен ДДС</i>	-1853	-1,09

II. РАЗХОДИ

Разходите за отчетния период са в размер на 859 348 лв. разпределени по дейности както следва:

2	РАЗХОДИ общо	Стойно ст лв.	Относит.дял %
		1134990	
2.1	Заплати и възнаграждения на персонала по трудови правоотношения	682147	60,10
2.2	Други възнаграждения и плащания на персонала	115121	10,14
2.3	Задължителни осигурителни вноски от работодателя	136707	12,04
2.4	Издръжка, в т.ч.	139269	12,27
2.4.1	<i>постелен инвентар и облекло</i>	189	0,14
2.4.2	<i>учебни и научно-изследователски разходи</i>	8528	6,12
2.4.3	<i>други материали</i>	41013	29,45
2.4.4	<i>вода, горива и енергия</i>	46588	33,45
2.4.5	<i>разходи за външни услуги</i>	24975	17,93
2.4.6	<i>текущ ремонт</i>	1947	1,40
2.4.7	<i>платени данъци, мита и такси</i>	2714	1,95
2.4.8	<i>командировки в страната</i>	2262	1,62
2.4.9	<i>краткосрочни командировки в чужбина</i>	10579	7,60
2.4.10	<i>разходи за застраховки</i>	299	0,21
2.4.11	<i>други финансово услуги (банкови такси)</i>	169	0,12
2.4.12	<i>разходи за лихви</i>	6	0,00
2.5	Стипендии	6750	0,59
2.6	Изплатени стипендии за млади учени от дарение	2200	0,19
2.7	Придобиване на дълготрайни материални активи, в т.ч.	35450	3,12
2.7.1	<i>придобиване на компютри и хардуер</i>	7116	20,07
2.7.2	<i>придобиване на др. оборудване, машини и съоръжения</i>	25668	72,41
2.7.3	<i>придобиване на стопански инвентар</i>	2666	7,52
2.8	Придобиване на нематериални дълготрайни активи	17346	1,53

8. СЪСТОЯНИЕ И ПРОБЛЕМИ НА ЗВЕНОТО В ИЗДАТЕЛСКАТА И ИНФОРМАЦИОННАТА ДЕЙНОСТ

От 2001 г. библиотеката на ИНБ работи като Академичен Информационен Център по невронауки. Дейността на Центъра включва стопанисване на наследения библиотечен фонд, осигуряване на електронен достъп до базата данни на Централната библиотека на БАН и свързаните с нея библиотечни звена, ползване в реално време на информационни и абонаментни ресурси на Централната Библиотека на БАН, като Web of Knowledge, Science Direct, Scopus, Embase, ProQuest и др. През отчетната година беше подновена компютърната техника, и бяха оборудвани 4 работни места отговарящи на съвременните изисквания за работа в интернет пространството. Беше въведена практиката да се изпраща до всички потребители на локалната мрежа на ИНБ актуална информация постъпваща в ИНБ относно конкурси, предстоящи научни срещи и конгреси и др. От месец август, 2013 г., Центърът заработи с постоянно работно време (от 9:30 до 16:30) в сравнение с 2012 г. (два пъти седмично, от 9:00-12:00) и беше назначен още един служител.

Академичният информационен център към ИНБ разполага с общо 23772 тома, от които около 75 % са периодични издания. Значително е количеството литература на английски, руски и немски език. И през 2013 г. снабдяването с книги и списания продължава да е крайно недостатъчно. Получавани бяха единични броеве чуждестранна периодика и само 1 пълно издание на чуждестранно списание (Japanese Journal of Pharmacological Science – 6 книжки).

През 2013 г. интересът към библиотечния фонд включващ специализирани търсения в томове с голяма давност, редки единични томове от периодични издания, които се съхраняват единствено в АИЦН, търсене на периодика от служители от съседни институти, с които АИЦН разполага (най-вече в областта на биофизиката).

Беше констатирано, че липсват съвременни издания на учебници по физиология, фармакология, психофизиология, медицински атласи и др. учебна литература, която е търсена от докторанти и студенти при подготовката за студентски или докторантски изпити. В бъдеще е необходимо да се помисли за снабдяване със специализирана учебна литература или електронни издания на такава. Амбициите на ръководството и служителите в АИЦН са насочени към разширяване на книжната база, посредством създаване на електронен книжен фонд. От друга страна Центърът разполага с работещи копирна машина, скенер и цветен принтер, което значително улеснява ползването на библиотечния фонд на място. За „съживяване“ дейността на Центъра и обвързването

му с научния живот на ИНБ допълнително той се използваше като място за провеждане на докторантски изпити и за самоподготовка и самостоятелна работа на работещите в научните звена. Предвижда се в бъдеще дейността му да се разшири в посока на организиране на семинари, презентации, провеждане на докторантски курсове. Амбициите на ръководството са превръщане на АИЦН в модерно, съвременно информационно звено с широк кръг читатели и/ли потребители.

През 2013 г. продължи въведената практика за изпращане на информация за предстоящи конкурси и защити към PR отдела на БАН.

От 2013 г. Интернет страницата на Института има нов дизайн и се актуализира редовно, заслуга за което има гл.ас. Б. Кадинов, който изпълнява функциите на системен администратор в ИНБ.

Слабост в работата на ИНБ е липсата на издателска дейност. В тази връзка през следващата година се предвижда, с активното участие на служителите на АИЦН организиране и провеждане на научна конференция и издаване на сборник с публикации от нея, както и други инициативи свързани с публикационна дейност.

Заключение

В заключение може да се обобщи, че колективът на ИНБ запазва високо научно ниво на провежданите изследвания и перспективността в дейността на института. През 2013 г. въпреки трудностите по отношение финансиране на научните изследвания не беше допуснато намаляване на качеството и обхвата на дейностите в изпълнение на политиките и програмите на БАН, в Оперативните програми на ЕС и в проекти от национални и международни програми.

НАУЧЕН СЪВЕТ НА ИНБ,
избран на 18 октомври 2011 г.

1. Проф. д-р Рени Калфин, ИНБ - БАН
2. Проф. д-р Ирен Белчева дмн, ИНБ - БАН
3. Проф. д-р Веселин Петков дмн, ИНБ - БАН
4. Проф. д-р Юлияна Йорданова, ИНБ - БАН
5. Проф. д-р Васил Колев, ИНБ - БАН
6. Доц. д-р Надежда Бочева, ИНБ - БАН
7. Доц. д-р Пламен Гатев, ИНБ - БАН
8. Доц. д-р Валентина Григорова, ИНБ - БАН - Председател на НС
9. Доц. д-р Димитър Митов, ИНБ - БАН
10. Доц. д-р Катерина Стамболиева, ИНБ - БАН
11. Доц. д-р Росица Замфирова, ИНБ - БАН - Зам. Председател на НС
12. Доц. д-р Роман Ташев, ИНБ - БАН
13. Доц. д-р Яна Чекаларова, ИНБ - БАН - Секретар на НС
14. Млад учен със съвещателен глас гл. ас. Полина Матеева - ИНБ - БАН

ВЪНШНИ ЧЛЕНОВЕ

1. Акад. Петя Василева, дмн, Специализирана очна болница „Академик Пашев“
2. Чл. кор. проф. д-р Радомир Радомиров, дмн, МА, Плевен
3. Чл. кор. проф. д-р Андон Косев, дбн, ИБФБМИ - БАН
4. Проф. д-р Стефан Костянев, дмн, МА, Пловдив
5. Проф. д-р Божидар Димитров, дмн, ИИНЧ - БАН
6. Проф. д-р Негрин Негрев, дмн, МА, Варна

**СПИСЪК НА ПУБЛИКАЦИИТЕ НА УЧЕНИТЕ ОТ
ИНСТИТУТ ПО НЕВРОБИОЛОГИЯ
през 2013 г.**

**Списък на публикациите, които са реферираны и индексирани в световната
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**СПИСЪК НА ЦИТИРАНИЯТА НА НАУЧНИТЕ ТРУДОВЕ
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