БЪЛГАРСКА АКАДЕМИЯ
НА НАУКИТЕ

ИНСТИТУТ ПО БИОФИЗИКА И БИОМЕДИЦИНСКО ИНЖЕНЕРСТВО

ГОДИШЕН ОТЧЕТ
2011

SOFIA 30.01.2012

1. Научна 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.

Институтът по биофизика и биомедицинско инженерство (ИБФБМИ) е създаден с решение на Общото събрание на БАН от 22.III.2010 г. чрез сливане и като правоприемник на Института по биофизика и Централната лаборатория по биомедицинско инженерство в съответствие с целите и задачите на структурната реформа на Академията. Съгласно научната тематика на направление "Биомедицина и качество на живот" и националната и международната разпознаваемост на Института като водещ в редица области на фундаменталните и научно-приложните дисциплини, ОС на БАН утвърди за ИБФБМИ следната **МИСИЯ:** Изучаване на структурно-функционалните взаимодействия на липиди и белтъци в биологични мембрани, електро- и фотоиндуцирани явления в клетките, биоелектрични процеси във възбудими клетки. Разкриване на механизмите, водещи до възникване на мембранно-свързани патологични процеси. Моделиране на липид-белтъчните, пигмент-липидните и междуклетъчните взаимодействия с помощта на модели мембрани, биофизични молекулни и математически модели. Създаване на методи и средства за регистрация, обработка и анализ на електрофизиологични сигнали. Регулация на двигателната дейност и биомеханика. Разработка на алгоритми, програмни и апаратни средства за медицината, приложение на информационните технологии в здравеопазването. Молекулно моделиране.

Въз основа на посочената мисия са конкретизирани следните **ПРИОРИТЕТИ:**

- Комплексни интердисциплинарни биофизични, биохимични и физиологични изследвания на ролята на мембранната структура и свойства в регулацията на клетъчни функции в норма и патология;
- Изучаване на ефектите на различни стресови фактори на околната среда върху функционалната активност на клетките;
- Изследване на възбудимостта на невроните, мускулните влакна и двигателните единици при физиологични и патологични състояния;
- Биофизика и фотобиологични процеси и създаване на биосензори;
- Изследване на взаимодействието на клетките с биоматериали и изучаване на механизмите на клетъчната адхезия;
- Методи за регистрация, обработка и анализ на електрофизиологични сигнали и данни и реализацията им в диагностични и терапевтични устройства;

- Методи и алгоритми за разпознаване на образи, класификация и дискриминация;
- Моделиране и симулиране на биологични и медицински процеси и състояния;
- Проектиране на системи за компютърно подпомагане на решенията;
- Моделиране на зависимости между структура и активност на биологичноактивни вещества.

След създаването на новото ПНЗ бе оптимизирана структурата на звеното – научна - 9 секции на базата на предишните 11, и административна. При тази нова организация през 2011 г. от сътрудници на ИБФБМИ са публикували общо 121 и са подготвили за печат 40 публикации. Публикувани са 92 и са под печат 25 публикации, които са реферирани и индексирани в световната система за реферииране, индексиране и оценяване. От тях 69 публикувани и 17 под печат са с импакт фактор, IF (Web of Science) или импакт ранг SJR (SCOPUS). 27 публикувани и 12 под печат са публикациите без реферииране и индексиране в световната система за реферииране, индексиране и оценяване. Излезли от печат са 2 монографии, а 3 са под печат. През 2011 г. са забелязани 1523 цитирания на научни трудове на изследователи от ИБФБМИ. Работено е по 81 теми, от които 46 с външно финансиране: 31 от Фонд "Научни изследвания", 6 проекта с ВУЗ, 5 проекта по 7FP и ЕСФ и 3 тема по договори с чуждестранни фирми.

Успешно са преминали хабилитация двама учени за заемане на академичната длъжност «доцент».

Приведените обобщени данни са основание за извод, че понастоящем ИБФБМИ е водещ изследователски институт в България в областта на фундаменталните науки биофизика, биохимия, клетъчна биология, физиология и в областта на научно-приложните технологиии в електрофизиологията, двигателната механика, информационните технологии и биологично активните вещества за нуждите на биомедицината и практическото здравеопазване. Институтът е напълно конкурентен и разпознаваем в международен план и постиженията на научния му състав получават високо национално и международно признание.

1.2. В съответствие с прегледа от т. 1.1. представете визия за развитието на звеното и приоритети за периода 2013-2015 г.

През посочения период научните изследвания в ИБФБМИ ще са концентрирани върху:

- изучаване на структурно-функционалните взаимодействия на липиди и белтъци в биологични мембрани;
- електро- и фотоиндуцирани явления в клетките;

- биоелектрични процеси във възбудими клетки и разработка на биосензори;
- разкриване на механизмите, водещи до възникване на мембранно-свързани патологични процеси;
- моделиране на липид-белтъчните, пигмент-липидните и междуклетъчните взаимодействия с помощта на модели мембрани, биофизични молекулни и математически модели;
- създаване на методи и средства за регистрация, обработка и анализ на електрофизиологични сигнали;
- регулиране на двигателната дейност и биомеханика;
- разработване на алгоритми, програмни и апаратни средства за медицината;
- приложение на информационните технологии в здравеопазването;
- моделиране на зависимости между структура и активност на биологично-активни вещества с приложение във фармацията, хранителната промишленост и контрола върху хранителните продукти, екологията;
- подготовка на специалисти и докторанти в национален мащаб в дисциплини от областта на биофизиката, биомедицината, биомедицинското инженерство в сътрудничество с други академични звена и висши училища.

Основни цели на посочените изследвания са: разработване на съвременни технологии, средства и материали с принос в здравеопазването, качеството на живот, опазването на околната среда и контрол върху вредни компоненти в биологичните продукти и жизнената среда, получаване на пазарно-ориентирани продукти с приложение в биомедицината; изграждане на научна инфраструктура и подготовката на кадри по научния профил на звеното; постоянно нарастване на дела на външното (извънбюджетното) финансиране на изследователските проекти.

1.3. Връзка с политиките и програмите от приетите от ОС на БАН на 23.03.2009 г. ”Стратегически направления и приоритети на БАН през периода 2009-2013 г.”

Преди всичко мисията на ИБФБМИ е съществено обвързана с една от 4-те основни задачи, поставени пред Академията – интердисциплинарността на изследванията. По степента на този показател Институтът е уникално изследователско звено. Научните и научно-приложните приоритетие на звеното се вписват в немалка част от политиките и програмите на БАН, приети за посочените в двата документа периоди:

- **Политика 1**: **Науката – основна двигателна сила за развитие на националната икономика и общество, базирани на знания, в т.ч.:**

Програма 1.1. – в развитие на биомедицината като част от социалните отношения и социалната практика в страната, на нивото на страна-член на ЕС;

Програма 1.2. – в ефективното използване на природните ресурси, предимно на естествените природни биологични суровини, за целите на биомедицината, биотехнологиите и здравеопазването;

Програма 1.6. – в подготовката на висококвалифицирани кадри в редица области на биофизиката, биомедицинското инженерство, високите технологии в биомедицината;

- **Политика 2: Научен потенциал и изследователска инфраструктура – част от Европейското изследователско пространство, в т.ч.:**

Програма 2.1. – в създаване на иновационни технологии, средства и продукти за нуждите на здравеопазването, биомедицината, фармакологията, биотехнологиите;

Програма 2.3. – в подобряване качеството на живот чрез интердисциплинарни изследвания в областта на изследователската и клиничната медицина, спорта, контрола върху субстанции и фактори, вредящи на човека и живата природа.

1.4. Извършвани дейности във връзка с точка 1.3.

Изследванията, отразяващи съдържанието на приведените в горния раздел връзки, през 2011 г., са конкретизирани в:

- изследвания върху фотосинтетичния апарат и неговата активност на представители от растителния свят ;
- методи и алгоритми за регистриране, обработка, анализ и класификация на биомедицински данни, сигнали и образи и реализацията им чрез програмни и схемни решения в електронна клинична и животоспасяваща апаратура;
- моделиране и експериментално изследване на двигателната активност при изпълнение на различни двигателни задачи, включително и разработка на експериментални устройства за превенция на скелетно-мускулни аномалии;
- скрининг на природни и синтетични биологично-активни съединения с използване на молекулно моделиране;
- развитие и приложение на информационните технологии и математическите методи в биомедицината;
- моделиране, оптимизация и управление на биопроцесни системи и апарати;
- многопосочни биофизични изследвания на невро-мускулни елементи в норма и патология;
- разработка на биосензори;

- изследвания върху оксидативния стрес при здрави и онкогентрансформирани клетки;
- моделни изследвания върху клетъчни мембрани;
- изследване влиянието на физически фактори върху биоматериали, в т.ч. и наноструктурирани;
- изследвания върху молекулярните механизми на паметта;
- подготовка на високоспециализирани кадри по биофизика за нуждите на медицината и екологията (в обхвата на ОП "Човешки ресурси"), на магистри-инженери в областта на информационните технологии в медицината, на докторанти по тематичните направления на Института.

1.5. Полза/ефект за обществото от извършваните дейности по точка 1.4.

Здравен ефект и превенция при социално значими заболявания:

- за нуждите на клиничната медицина и спешната медицинска помощ са реализирани разработки за подобряване точността на автоматичния анализ на електрокардиографските сигнали в автоматични външни дефибрилатори и за подобряване на енергетичните параметри на дефибрилацията;
- за нуждите на клиничната кардиология са проведени изследвания върху приложимостта на електрокардиографски показатели за диагностика на трудни диференциално-диагностични нозологични синдроми – кардиален Х синдром, синдром на Brugada;
- разработено е пилотно устройство за превенция на гръбначни изкривявания при подрастващи;
- проучени са свойствата на нови антитуберколозни средства, на антиоксиданти и токсични вещества;
- получени са оригинални резултати за изясняване механизмите на различни невропатии;
- предложен е нов подход за изследване на множествена миелома;
- проучени са фактори, оказващи влияние върху фармакологичната активност на антипсихотичните лекарства.

Разработки, свързани с възможности за внедряване на нови технологии, устройства и материали:

- предложен е метод за разработване и приложение на нов клас биосензори;

- разработва се иновативна компютърно-подпомагаща технология за определяне началото на отвикване от принудителна белодробна вентилация за нуждите на интензивната медицина;
- разработен е клиничен апаратен комплекс за третиране на кожни тумори при пациенти със сърдечни заболявания;
- получени са нови резултати върху повлияването на множествената лекарствена резистентност в туморни клетки.

Разработки, свързани с опазване на околната среда и подобряване качеството на живот:

- предложен е високочувствителен метод за регистрация на ниски концентрации хербициди, блокиращи функция на фотосинтетичния апарат;
- проучени са фактори, имащи влияние върху ежедневния оксидативен стрес в съвременните условия на живот;
- с методите на компютърното моделиране на биологично-активни съединения са анализирани данни за екотоксичност на седиментни замърсители във водни басейни.

Подготовка на високоспециализирани кадри в национален мащаб:

- създадена е и успешно се реализира система за обучение на кадри с биофизична подготовка за нуждите на медицината и екологията в рамките на ОП "Човешки ресурси" и с усвояване на средства по програмата.

1.6. Взаимоотношения с институциите

- Договор за съвместна дейност № 126/11 от 2001 с Университетска болница "Александровска"
- Договор за съвместна дейност № 177 от 2008 г. с ФЕТТ, Техническия университет – София
- Рамково споразумение от 31.01.2001 г. с Университетска МБАЛ "Св. Анна" – София
- Рамков договор за сътрудничество от 12.03.2004 г. с Нов български университет
- Рамков договор за съвместна дейност от 17.08.2006 г. с Националната кардиологична болница
- Програма за съвместна научно-изследователска дейност от 4.04.2007 г. с Националната спортна академия "Васил Левски"
- Договор за сътрудничество от 26.03.2008 г. с Университет "Проф. Асен Златаров" – Бургас

- Рамково споразумение от 14.10.2008 г. с Университетска СБАЛНП "Св. Наум" – София
- Рамково споразумение от 12.10.2008 г. с Университетска СБАЛСМ "Н. Пирогов"
- Рамков договор между ИБФБАН и Медицински Университет – Плевен
- Споразумения с други национални научни организации или висши училища, със съпътстващи научни програми с:
  - *Медицински Университет – Варна*
  - *Физически факултет, СУ"Кл. Охридски"*
  - *Съвет по Медицинска Наука към МУ – София*
  - *ФНИ-СУ*
  - *МФ-ТУ.*

1.7. Общонационални и оперативни дейности, обслужващи държавата

1.7.1. Практически дейности, свързани с работата на национални правителствени и държавни институции, индустрията, енергетиката, околната среда, селското стопанство, национални културни институции и др. /относими към получаваната субсидия/.

Учени от ИБФБМИ през изтеклата година са участвали в работата на следните органи, извършващи общонационални и оперативни дейности, обслужващи държавата: Координационен съвет за електронно здравеопазване към Министерство на здравеопазването; Национална агенция за оценяване и акредитация към Министерски съвет; Държавната агенция за насърчаване на малки и средни предприятия; Държавна агенция по метрология и технически надзор; Български институт за стандартизация.

1.7.2. Проекти, свързани с общонационални и оперативни дейности, обслужващи държавата и обществото, финансирани от национални институции (без Фонд "Научни изследвания"), програми, националната индустрия и пр.

Проект по ОП „Развитие на човешките ресурси" - № BG051PO001-3.3.04/42 2009/2011 г. "Въвеждане и използване на нови методи и подходи в обучението на млади изследователи в областта на биофизиката с цел повишаване на тяхната квалификация и конкурентоспособност в приложни направления, като селско стопанство, екология и медицина".

2. Резултати от научната дейност през 2011 г.:

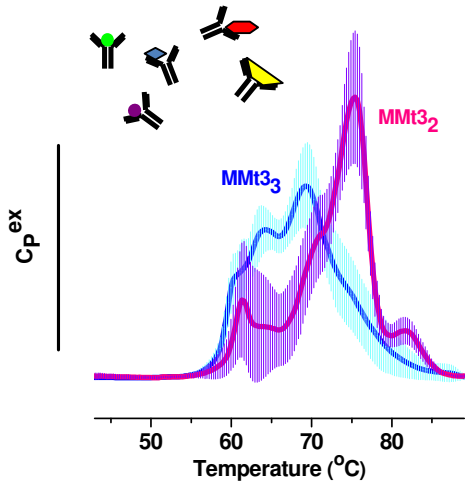
2.1. Най-важно и ярко научно постижение

Приложен е нов подход за изследване на множествена миелома (ММ) - диференциална сканираща микрокалориметрия (ДСК) комбинирана с капилярна електрофореза. ДСК позволява регистрирането на промени в топлинно-индуцираните конформационни промени в основните белтъци на кръвен серум. ДСК термограмите на серум от пациенти, диагностицирани с ММ, се различават от типичната термограма характерна за здрави индивиди. Установено е, че ММ води до:

- стабилизиране на фракция от серумния албумин и на глобулините;
- изчезване на прехода приписван на трасферин;
- поява на нов преход характерен само за изотип IgG.

Случаите на ММ, съпроводени с ниски концентрации на свободни леки вериги и несекреторна миелома, които не се регистрират с капилярна електрофореза, също се характеризират с модифициран термодинамичен портрет.

Изследването показа сложна взаимовръзка между присъствието и концентрацията на моноклонални парапротеини, техния изотип, количеството албумин в кръвния серум и силно променена мрежа от взаимодействия между белтъците. За първи път е предложена термодинамична класификация на хетерогенната множествена миелома на няколко групи/подгрупи. Графичният абстракт представя избрани ММ термограми (S. Todinova, S. Krumova, L. Gartcheva, C. Robeerst, S.G. Taneva, *Analytical Chemistry* 83 (2011) 7992-7998, Microcalorimetry of blood serum proteome – a modified interaction network in the multiple myeloma case).



Резултатите доказват потенциала на ДСК за регистриране на онкологични заболявания и въвеждането му като скрининг технология.

Ръководител на изследването: проф. дбн Стефка Танева

2.2. Най-важно и ярко научно-приложно постижение

Разработен е електрохимиотерапевтичен апаратен комплекс Chemopulse III (фиг. 1.), предназначен за третиране на пациенти с повърхностни кожни тумори и с имплантиран пейсмейкър или ритъмни и проводни сърдечни нарушения. Комплексът се състои от преносим електропоратор, QRS синхронизатор и модул за запис на съпротивлението между приложните точки на електродите и параметрите на приложените електроимпулси. Уредът е с повишена електрозащита за пациента и оператора и с автономно батерийно захранване, позволяващо при едно зареждане третиране с до 200 електроимпулса с максимална мощност.

Апаратурата е използвана за лечение на пациенти в Клиниката по дерматология на Специализираната болница за активно лечение по онкология – София. 37 пациенти с общо 47 лезии от три типа рак на кожата – базоцелуларен карцином, спиноцелуларен карцином и саркома на Капуши, са успешно третирани с помощта на Chemopulse III. На фиг. 2 е представен пример за резултатите от лечението на един от тези пациенти.

Комплексът е разработен в рамките на изследователски проект ДО 02/178, финансиран от Фонд "Научни изследвания" към МОМН, от колектив учени в секции "Електоиндуцирани и адхезивни явления" и "Анализ и обработка на биомедицински сигнали и данни" на ИБФБМИ, БАН с ръководител проф. дбн Яна Цонева.

Фиг.1 Апаратура Chemopulse III

А Б В

Фиг. 2 Електрохимиотерапия на пациент с базоцелуларен карцином. А преди третиране, Б една седмица след третиране, В един месец след третиране.

3. Международно научно сътрудничество на звеното

3.1. През годината служители на звеното работиха по следните теми в рамките на договори и спогодби на ниво Академия:

3.1.1. Интуиционистки размити множества, интуиционистки размита оптимизация - теория и приложения в медицината, екологията и други области, Полска академия на науките, ръководител проф. дтн дмн Кр. Атанасов

3.1.2. Интуиционистки размити множества – теория и приложения, Словашка академия на науките, ръководител проф. дтн дмн Кр. Атанасов

3.1.3. Откриване и анализ на миниатюрни периодични промени на QRS комплекса и Т вълната в електрокардиографски сигнали, Италиански национален съвет за научни изследвания (ISIB-CNR), ръководител проф. дтн Ивайло Христов

3.1.4. Светлинно-индуцирано преобразуване на енергия и молекулна динамика в ретинални белтъци. Приложение в биоелетрониката, Унгарска академия на науките, ръководител проф. дбн Стефка Танева

3.1.5. Формиране на паметта: Ефект на холинергичната система върху локалната мозъчна протеинова синтеза, Италия, CNR, ръководител доц. д-р А. Раковска

3.1.6. Състав и функции на каротеноиди в светосъбиращия комплекс на фотосистема 1, Испания, ръководител доц. д-р Мая Величкова

3.1.7. Роля на модифицирането на липидния, каротиноидния и белтъчен състав върху структурната организация и функционална активност на фотосинтетичния апарат, Унгарска академия на науките, ръководител доц. д-р Емилия Апостолова

3.1.8. Набухване на спонгиозна липидна фаза чрез включване на пептиди, полимери и амфифилни вещества, Чешка академия на науките, ръководител гл. ас. Рада Мутафчиева

3.1.9. Геометрични аспекти на еластичните среди: от биомембрани до нанотубите, Полска академия на науките, ръководител доц. д-р И. Младенов

3.1.10. Есперименталнии изследвания и моделиране на силите развивани от двигателни единици на мускул, Полска академия на науките, ръководител проф. дтн Р. Райкова

3.1.11. Роля на супрамолекулярната организация на комплекса ФС2-ССК2 в изопрен-отделящи растения и връзката й с термозащитата, Унгарска академия на науките, ръководител доц. д-р Цонко Цонев, ИФРГ-БАН

3.2. През годината служители на звеното работиха по следните теми в рамките на договори и спогодби на ниво сътрудничество между институти:

3.2.1. Обобщеномрежови модели и интуиционистки размити множества в интелигентните системи, Royal Society International Joint Project, Ref. №JP100372**,** Westminster University, London, UK, ръководител проф. дмн дтн Красимир Атанасов

3.2.2. Моделиране на ABC (АТФ-свързващи) транспортни протеини и техни субстрати и инхибитори, участващи в множествената лекарствена резистентност и ADME (Резорбция, Разпределение Метаболизъм, Екскреция), с Университет Бон – Германия, ръководител проф. дбн Илза Пъжева

3.2.3. Анализ на цифрови електрокардиографски данни, рамков договор с ISIB-CNR, Италия и St George's University of London, 2010-2015, проф. дтн Ивайло Христов.

3.2.4. Анализ на цифрови електрокардиографски данни, рамков договор с St George's University of London, 2008-2013, проф. дтн Ивайло Христов.

3.2.5. Моделиране, оптимизация и управление на ферментационни процеси, Рамково споразумение с Институт по техническа химия – Университет Хановер, Германия, ръководител проф. дтн Стоян Цонков

3.2.6. Написване на книга със заглавие: Компютърна невронаука: Симулирани демиелинизиращи невропатии и невронопатии, ръководител проф. дбн Диана Стефанова.

Най-значими международно финансирани проекти:

FP7-HEALTH-2010-Alternative-Testing-Strategies Collaborative project: "Integrated *in silico* Models for the Prediction of Human Repeated Dose Toxicity of Cosmetics to Optimise Safety", Coordinator: Prof. Dr. M. Cronin, local coordinator: Assoc. Prof. Dr. I. Tsakovska

4. Участие на звеното в подготовката на специалисти

Специалисти от звеното са водили лекции и упражнения в:

- *Софийски Университет „Св. Климент Охридски"*
- *Технически Университет – София*
- *Бургаски Технически Университет "Проф. А. Златаров"*
- *Бургаски Свободен Университет*
- *Химикотехнологичен и металургичен университет – София*

Специалисти от звеното са водили лекции и упражнения и във връзка с изпълнение на ***Lifelong Learning Programme: Higher Education (Erasmus)*** с:

- *University Paris-Diderot – Paris VII*
- *Northumbria University – Newcastle, UK*

Образователната и научна степен "доктор" – защитили петима докторанти:

1. Стефан Мирчев Кръстев: "*Изследване ефекта на течните слоеве на миелиновата обвивка върху мембранните свойства на симулирани случаи на демиелинизиращи невропатии*", ръководител проф. дбн Д. Стефанова и доц. д-р Негрин Негрев, МУ-Варна
2. Кольо Георгиев Данков: "*Роля на организацията на фотосинтетичния апарат за устойчивостта му към температурен и светлинен стрес*", ръководител доц. д-р Е. Апостолова
3. Анелия Стефанова Костадинова: "*Модулиране взаимодействие на клетки с полимерни повърхности и мембрани*", ръководител проф. дбн Г. Алтънков
4. Камелия Тодорова Христова: "*Модулирано взаимодействие на остеобласти с хидроксиапатитни материали*", ръководител проф. дбн Г. Алтънков
5. Надежда Петрова Стефанова (СУ "Св. Кл. Охридски"): "*Структурно-функционални зависимости в плазмени мембрани на клетки, култивирани в три-измерни условия*", ръководител проф. дбн А. Момчилова

Сътрудничества с учебни заведения:

1. Договор за съвместна дейност № 177 от 2008 г. с ФЕТТ, Техническия университет – София.
2. Рамков договор за сътрудничество от 12.03.2004 г. с Нов български университет.
3. Програма за съвместна научно-изследователска дейност от 4.04.2007 г. с Националната спортна академия "Васил Левски".
4. Договор за сътрудничество от 26.03.2008 г. с Университет "Проф. Асен Златаров" – Бургас.
5. Договор за обучение на докторант на свободна подготовка с МУ – Варна за периода 2010-2012 год.
6. Рамков договор между ИБФБАН и Медицински Университет – Плевен

7. Споразумения с други национални научни организации или висши училища, със съпътстващи научни програми с:
   - *Медицински Университет – Варна*
   - *Физически факултет, СУ"Кл. Охридски"*
   - *Съвет по Медицинска Наука към МУ – София*
   - *ФНИ-СУ*
   - *МФ-ТУ.*

Проект по ОП „Развитие на човешките ресурси" - № BG051PO001-3.3.04/42 2009/2011 г. "Въвеждане и използване на нови методи и подходи в обучението на млади изследователи в областта на биофизиката с цел повишаване на тяхната квалификация и конкурентоспособност в приложни направления, като селско стопанство, екология и медицина"

Проектът се реализира от Института по биофизика и биомедицинско инженерство в партньорство със СУ "Св. Климент Охридски" (Биологически и Физически факултет) и Фондация „Приложни изследвания и комуникации". Проектът цели да подпомогне младите учени и докторантите в тяхната научна работа, да повиши квалификацията им и да мотивира активното им кариерно развитие в областта на научните изследвания. Програмата, заложена в проекта, дава възможност на участниците в целевата група освен подготовката в областта на биофизиката да развият и умения за изготвяне и управление на проекти по български и международни научни програми. Една от специфичните цели на проекта е създаване на нови партньорства и разгръщане на възможностите за развитие на биофизиката в България.

През 2011 г. беше проведено обучение по специализираната програма по биофизика и биофизични методи с приложение в медицината, екологията и селското стопанство, като първото обучение (Сесия I, 2 част (по Модул I)), бе проведено в град София в конферентната зала на ИФРГ в бл. 21 на БАН, с 50 участника, с продължителност 5 дни, от 21 до 25 февруари 2011 г.

От 28.04.2011 г. до 01.03.2011 г. се проведе първата част от II обучителна сесия с лектори - хабилитирани лица от ИБФБМИ и СУ "Св. Кл. Охридски".

Беше организиране презентация на нови уникални апарати и техники от фирма "ФОТ" и фирма "Медицинска техника инженеринг" – представители на световноизвестни фирми, производителки на лабораторна апаратура. Участниците в проекта получиха

консумативи и материали, необходими за ежедневната им научна работа и работата по дисертациите им.

През отчетния период участници от проекта участваха в международни конференции и мероприятия, финансирани от договора. Работи и се обновява периодично интернет страница на проекта. Бяха проведени и четири вътрешни семинара, на които участниците в проекта представяха свои резултати.

Проектът приключи на 31.12.2011 г.

Проект по ОП „Развитие на човешките ресурси" BG051PO001-3.3.04/40: "Изграждане на висококвалифицирани млади изследователи по съвременни информационни технологии за оптимизация, разпознаване на образи и подпомагане вземането на решения"

Проектът с координатор Института по информационни и комуникационни технологии (бивш Институт по информационни технологии) към БАН се реализира в партньорство с Института по биофизика и биомедицинско инженерство, Националния институт по геофизика, геодезия и география, Техническия университет във Варна, Химико-технологичния и металургичен университет и Института по механика. Общата цел на проекта е да се създадат по-добри условия за повишаване на квалификацията и мотивацията на младите изследователи от шестте институции за решаване на научни задачи при използване на съвременните информационни технологии за оптимизация, разпознаване на образи и подпомагане вземането на решения. Целевата група обхваща 36 докторанти и млади учени.

През 2011 г. продължи обучението на участниците в целевата група. Бяха проведени общо 5 лекции и консултации, две от които с лектор проф. Красимир Атанасов. Общо 9 са докладите на национални и международни конференции, един от които – на бенефициент от ИБФБМИ.

Поради продължителното одитиране на първия етап от проекта от финансиращата страна, се получи удължение на втория етап от август 2011 г. до февруари 2012 г., свързано и със забавяне на изплащането на средствата за стипендии за бенефициентите.

4.1. Получени през годината стипендии (брой, вид и размер на стипендията), без стипендиите, получавани от докторантите по държавна поръчка:

а) от чужбина -

б) от България -

5. Иновационна дейност на звеното
и анализ на нейната ефективност

5.1. Осъществяване на съвместна иновационна дейност с външни организации и партньори, вкл. поръчана и договорирана с фирми от страната и чужбина;

През 2011 г. сътрудници на ИБФБМИ са работили с партньори по внедряване на иновации, произтекли от съвместни разработки в Института:

- със Специализираната болница за активно лечение на онкологични заболявания – Национална онкологична болница: модифицирана е методиката за електрохимиотерапия и е създадена нова апаратура за електрохимиотерапия, която позволява да се третират тумори при пациенти с кардиологични проблеми. Апаратурата е прилагана успешно през 2011 г. в Клиниката по дерматология на СБАЛО, София.

- с Университетска МБАЛ "Александровска" – за проучване на клиничните, биохимичните и регулаторните характеристики при жени с кардиален Х-синдром;

- с Националната кардиологична болница – за оптимизиране енергията на електрическите импулси при кардиоверсии;

- с Университетска МБАЛСМ "Н. И. Пирогов" – за внедряване на система за компютърно подпомагане на решенията за отвикване от апаратна вентилация при зависими от респиратора критично болни;

- с Медицински университет – София, УСБАЛ по детски болести – за изработване и внедряване на система за регистрация на ЕКГ и оценка на сърдечно-съдовата автономна инервация при здрави деца и младежи.

5.2. Извършен трансфер на технологии и/или подготовка за трансфер на технологии по договор с фирми; данни за полученото срещу това заплащане; данни за реализираните икономически резултати във фирмите (работни места, печалба, производителност и др.);

През отчетната година продължиха дейности, свързани с трансфер на инженерингови решения в областта на програмно-апаратното осигуряване на електрокардиологията по договор с швейцарската фирма Schiller AG. За 2011 г. трансферът е финансиран от фирмата в размер на 1 500 Евро.

6. Стопанска дейност на звеното за 2011 г.

6.2. Отдаване под наем на помещения и материална база;

Договорните отношения с фирмите ЕТ "Ласто-Лазар Стойчев", "Шиллер – Инженеринг София ЕООД", "Еквифарма АД", "Юнион ЛАБ ООД" продължават ио през 2011 г. Отдадените под наем помещения и материална база се поддържат в добро техническо състояние. Не са установени закъснения в изплащането на наема и консумативните разходи.

6.3. Сведения за друга стопанска дейност;

Като форма на административно-стопанската дейност през 2011 г. могат да бъдат определени такива дейности, като поддържане и ремонт на сградния фонд, поддържане на прилежащите към него терени, изпълнението на мероприятия по безопасни и здравословни условия на труд за работещите, противопожарна безопасност и др.

Ремонтните дейности, като подмяна на дограма, ремонт на работни и санитарни помещения, техническите съоръжения в отделните помещения, ВиК системата и абонатната станция за топлоподаване се поддържат със средства и труд на ИБФБМИ. С цел създаване на безопасни условия на труд за работещите, през 2011 г. се направи обследване на звеното по отношение на противопожарна и аварийна безопасност, проведе се профилактичен преглед на служителите в института.

Последното тримесечие се организира и проведе инвентаризация на всички материални активи в института, съгласно закона за счетоводството. Специални комисии, които отчетоха техническото състояние на отделните уреди, апарати и технически средства, извършиха бракуване на негодната и морално остаряла техника и нейното ликвидиране.

В рамките на възможностите и в зависимост от климатичните условия се правят икономии на електрически ток, топлоенергия и вода, като заслугата за това се пада на помощния персонал на института. С негова помощ се поддържа и районът около сградите и зелените площи, особено през есенно-зимния сезон.

През 2011 г. бяха продължени договорите:

- с фирма "Агроинсект" ООД за борба с разни инсекти за обработки на работните места по предварително изготвен и съгласуван график;
- с фирма ЕТ "ЕВРОШ-ВАНЬО НИКОЛОВ" за извозване на отпадъците на звеното;
- с охранителна фирма "ЗС СОТ" – АД.

7. Кратък анализ на финансовото състояние на звеното за 2011 г.

През 2011 г. ИБФБМИ е получила приходи от бюджетна субсидия, собствени средства, договори във валута, ОП и договори с МОМН:

Субсидии от държавния бюджет в размер на	723 692 лв
По параграф осигурителни вноски	233 492 лв
От договори с МОМН и други договори	699 279 лв
В т.ч. трасфер по договор с МОМН	317 008 лв
ОП "РЧР" - трансфер	209 547 лв
От наем	9 784 лв
ОБЩО	1 875 794 лв

От тях са разходи по параграфи - бюджетна субсидия, собствени средства, договори във валута, ОП и договори с МОМН:

	Общо
01-00 – заплати	749 111 лв
02-00 – други възнаграждения	180 051 лв
05-00 – ДОО, здравни вноски и др.	151 448 лв
10-13 – Постелен инвентар и облекло	100 лв
10-14 – УЧ и НИР	74 343 лв
10-15 – материали	48 328 лв
10-16 – материали, гориво и енергия	44 321 лв
10-20 – външни услуги	66 398 лв
10-30 – текущ ремонт	3 373 лв
10-40 – общ. такси	3 137 лв
10-51 – командировки в страната	10 905 лв
10-52 – командировки в чужбина	27 153 лв
40-00 – стипендии	109 400 лв
52-00 – ДМА	148 836 лв
53-01 – Програмни продукти	37 251 лв
Общо:	1 654 155 лв

Тези разходи са по касово изпълнение, съгласно приведена бюджетна субсидия, собствени средства, договори във валута, ОП и договори с МОМН за 2011 г. Остатъкът по сметките са по договори в лв, валута и ОП "РЧР".

8. Издателска дейност

1. *International Journal Bioautomation* (ISSN 1314-2321 on-line), (ISSN 1314-1902 print)

Главен редактор: Стоян Цонков,

Зам. гл. редактори: Михаил Матвеев, Таня Пенчева и Митко Петров

Издателска редколегия: Олимпия Роева, Таня Пенчева и Митко Петров

Web design: Петко Алов

През 2011 г. излязоха 3 броя, а 4-я е в процес на публикуване.

От 2004 г. Институтът е седалище на Редакционния съвет на списание *International Journal Bioautomation*. Научната политика и качеството на публикуваните материали се контролират от авторитетен международен състав на Редакционния съвет, като организационните и техническите дейности по списването са дело на сътрудници от Института. Годишно излизат 4 броя. Тематиката на списанието понастоящем отразява основните направления в областта на биомедицинското и биопроцесното инженерство. За годините на съществуване списанието се утвърди като сериозно научно и научно-приложно издание, в което публикуват все повече автори от много страни. Списанието се реферира редица международни бази данни: *Chemical Abstract Service, Directory of Open Access Journals, Electronic Journals Library, Scopus, SCIRUS, OhioLINK - Electronic Journal Finder, Electronic Journals by Publisher/University of Saskatchewan Library, FHH - Bibliothek - Elektronische Zeitschriften, Elektronische Zeitschriftenbibliothek, Universitätsbibliothek TU Berlin: E-Zeitschriften/EZB, Electronic Journals, Medical informatics, bioinformatics, biomedical engineering: Free medical journals, Google Scholar, Винити*. Списанието е под наблюдение и в процес на оценяване от *ISI Web of Knowledge*. От 2008 г. списанието е официално издание на БАН и периодично бе подкрепяно финансово от Издателския съвет към Академията. Друг източник на финансиране са абонаментите – в страната и чужбина. В края на 2011 г. Редакционния съвет представи проект за двугодишно финансиране по обявен конкурс за подкрепа на научни списания от Фонд "Научни изследвания", който бе класиран сред одобрените в конкурса с 4 188 лв. В началото на 2012 г., предвид структурните промени, настъпили в БАН, и свързаните с това промени в приоритетните изследователски направления, както и предвид съвременните тенденции към интердисциплинарност, Редакционният съвет планира целесъобразни промени в тематиката на списанието, предимно насочени към нейното разширяване с раздели от биологичната физика. В тази връзка ще бъдат предложени и промени в състава на Редакционния съвет.

2. *Notes on Intuitionistic Fuzzy Sets* (ISSN-1310-4926)

   Редактори Красимир Атанасов, Humberto Bustince (Испания) и Janusz Kacprzyk (Полша)

   Излезли от печат 4 книжки.

3. *Notes on Number Theory and Discrete Mathematics* (ISSN-1310-5132)

   Редактори Aldo Peretti (Аржентина), Anthony Shannon (Австралия) и Красимир Атанасов

   Излезли от печат 4 книжки.

4. Proceedings of the Twelfth International Conference on Geometry, Integrability and Quantization XII, Eds. Mladenov I., G. Vilasi, A. Yoshioka, AVANGARD PRIMA, Sofia 2011, ISSN 1314-3247, pp 358.

9. ПРИЛОЖЕНИЯ

ПРИЛОЖЕНИЕ 03: *Публикации през 2011 г.*

3.1. Списък на публикациите, които са реферирани и индексирани в световната система за реферирање, индексиране и оценяване (в световни вторични литературни източници):

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1. Abächerli R., R. Kobza, I. Christov, F. Frey, P. Erne. Do the ECG Axis and Intervals Depend on the Heart Rate and on the Body Habitus? Computing in Cardiology, 38, 2011, 825-828, ISSN 0276-6574.
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ПРИЛОЖЕНИЕ 37: *Информация за Научния съвет на звеното*

Списъчен състав на НС с посочени научни звания, степени и основна месторабота на членовете на съвета

проф. дбн Албена Момчилова – Председател на НС

проф. дбн Диана Петкова – Зам.-прдседател на НС

доц. д-р Таня Пенчева – секретар на НС

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акад. Александър Петров – ИФТТ-БАН

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Дата на избиране на съвета и сведения за промени в състава му след избора

НС на ИБФБМИ е избран на ОС на ИБФБМИ на 8.XII.2010 г., Протокол №2