



БЪЛГАРСКА АКАДЕМИЯ
НА НАУКИТЕ

ИНСТИТУТ ПО БИОФИЗИКА И
БИМЕДИЦИНСКО
ИНЖЕНЕРСТВО

ГОДИШЕН ОТЧЕТ
2013
ТОМ 1/2

СОФИЯ 28.01.2014

1. Научна проблематика на звеното

1.1. Преглед на изпълнението на целите /стратегически и оперативни/, оценка и анализ на постигнатите резултати и на перспективите на звеното в съответствие с неговата мисията и приоритети, 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.Ш.2010 г. чрез сливане и като правопреемник 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, академичният състав на ИБФБМИ формулира и ОС на БАН утвърди за Института 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 моделни 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; *in silico* 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 организация през 2013 г. от сътрудници на ИБФБМИ са публикували общо 153 и са подготвили за печат 27 публикации. В издания, реферирани и индексирани в световната система за реферирание, индексирание и оценяване, са публикувани общо 103 и са под печат 15 публикации, като от тях 61 публикувани и 10 под печат са с импакт фактор IF (Web of Science) или импакт ранг SJR (SCOPUS). В издания без реферирание и индексирание в световната система за реферирание, индексирание и оценяване са публикувани 32 и са под печат 5 публикации. Излезли от печат са 3 монографии и 15 глави от книги, а са приети за печат 1 монография и 6 глави от книги. През 2013 г. са забелязани 2256 цитирания на научни трудове на изследователи от ИБФБМИ, с изключени самоцитати. Работено е по 62 теми, от които 37 с външно финансиране: 19 от Фонд “Научни изследвания”, 3 проекта по 7FP, 8 по ОП "РЧР" и 8 теми по договори с чуждестранни фирми или с чуждестранни финансиране.

Успешно са преминали процедури за заемане на академичната длъжност "доцент" двама и за "главен асистент" – трима учени от ИБФБМИ.

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 технологии 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. 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 приоритети 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 високоспециализирани 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.

В допълнение към посочените политики, през 2013 г. ИБФБМИ има активно участие в приоритетни разработки на новосъздадените регионални центрове на БАН.

1.3. Извършвани дейности във връзка с точка 1.2.

Изследванията, отразяващи съдържанието на приведените в горния раздел връзки, през 2013 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;

- методи, модели и програмни средства за оптимизиране на спешната медицинска помощ при сърдечно-съдови инциденти и на интензивното лечение на критично болни пациенти;
- 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, на студенти в магистърски програми в областта на биомедицинското инженерство и информационните технологии в медицината, на докторанти по тематичните направления на Института.

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

Здравен ефект и превенция при социално значими заболявания:

- за нуждите на клиничната и спешната кардиология 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 спешната медицинска помощ са реализирани проекти за оптимизиране лечението на критично болни пациенти в реанимационни звена и за оптимизация на системата «от врата до интервенционално звено» за пациенти с остри сърдечни инциденти;

- за нуждите на клиничната кардиология са проведени нови 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 антитуберкулозни 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-подпомагаша 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;
- разработена е серия устройства, в т.ч. и с безжичен интерфейс към пациента, за високочестотно отвеждане на електро- и векторкардиограми с възможност за синхронно осредняване, анализ, измерване на вариабилитета на сърдечния ритъм, визуализация и организиране на пациентни бази данни.

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 ежедневиия оксидативен стрес в съвременните условия на живот;

- с методите на компютърното моделиране на биологично-активни съединения са анализирани данни за екоотоксичност 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;
- провежда се непрекъснато обучение на докторанти за нуждите на висши медицински и технически училища и водещи национални здравни звена.

1.5. Взаимоотношения с институциите

- Договор за съвместна дейност № 126/11 от 2001 с *Университетска болница "Александровска"*
- 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*
- Договор за съвместна дейност № 177 от 2008 г. с *ФЕТТ, Техническият университет – София*
- Договор за сътрудничество от 26.03.2008 г. с *Университет "Проф. д-р Асен Златаров" – Бургас*
- Рамково споразумение от 12.10.2008 г. с *Университетска СБАЛСМ "Н. Пирогов"*
- Рамково споразумение от 14.10.2008 г. с *УСБАЛ по неврология и психиатрия "Св. Наум" – София*
- Рамков договор от 2009 г. с *Медицински Университет – Плевен*

Споразумения с други национални научни организации или висши училища, със съпътстващи научни програми с:

- *Съвет по Медицинска Наука към Медицински Университет – София*
- *Медицински факултет на Тракийски Университет – Стара Загора*

1.6. Общонационални и оперативни дейности, обслужващи държавата

1.6.1. 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.

1.6.2. Проекти, свързани с общонационални и оперативни дейности, обслужващи държавата и обществото, финансирани от национални институции (без Фонд “Научни изследвания”), програми, националната индустрия и пр. - до ТРИ най-значими проекти

2. Резултати от научната дейност през 2013 г.:

2.1. Не повече от ЕДНО най-важно и ярко научно постижение

Установен е механизъмът на влияние на антиоксиданта резвератрол върху процесите на стареене на чернодробни мембрани. Показано е, че третирането с резвератрол влияе върху сфингомиелиновия метаболизъм, като предизвиква понижаване на мембранните показатели за стареене на клетките – концентрация на церамидите и активността на мембранно-свързаната неутрална сфингомиелиназа. Установени са промени и в асиметричното разпределение на мембранните аминокиселини, като се понижава техният относителен дял във външния мембранен монослой.

Демонстриран е благоприятният ефект на резвератрола върху специфични мембранни показатели за клетъчно стареене. Получените резултати показват, че резвератролът действа като мощен антиоксидант на мембранно ниво, което го прави подходящ за включване в комплексни терапии, насочени към повлияване на оксидативния статус и процесите на стареене на мембраните и клетките като цяло.

Ръководител на разработката: проф. д-н Албена Момчилова

2.2. Не повече от ЕДНО най-важно и ярко научно-приложно постижение

Създадена е компютъризирана система за определяне на началото на отвикване от механична вентилация (МВ) при критично болни пациенти и преход към частична подкрепа и спонтанно дишане по данни непосредствено преди започване на процеса на отвикване и по време на отделните фази на респираторна подкрепа. Определянето на началото на процеса на отвикване от МВ се извършва чрез пет различни алгоритъма. С помощта на системата се постига значително намаляване на честотата на усложненията, на продължителността на МВ, честотата на вентилаторно-асоциираните пневмонии, времето за отвикване, продължителността на престоя в интензивното отделение и цената на лечението. Системата е адаптирана и към пациенти, които имат подлежащи сърдечно-съдови заболявания и при които моделите на предикцията отчитат специфични показатели.

Системата е внедрена в Централната реанимация към Клиниката по интензивно лечение на УМБАЛСМ „Н. И. Пирогов“.

Ръководител на разработката: проф. д-р Михаил Матвеев

3. Художественотворческа дейност на звеното през 2013 г.

3.1. Списък на организирани международни изложби

3.2. Списък на организирани национални изложби

3.3. Списък на художественотворчески продукти

4. Международно научно сътрудничество на звеното

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

- 4.1.1. Светлинно-индуцирано преобразуване на енергия и молекулна динамика в ретинални белтъци. Приложение в биоелектрониката, *Унгарска академия на науките*, 2013-2015, ръководител проф. дбн Стефка Танева
- 4.1.2. Създаване на модел на мускул на плъх съставен от реалистичен брой двигателни единици и неговото експериментално и моделно изследване чрез прилагане на различни серии от импулси за всяка двигателна единица, *Полска академия на науките*, 2012-2014, ръководител проф. дтн Росица Райкова
- 4.1.3. Експериментално и моделно изследване на движенията на горния крайник на човека в норма и при патологии чрез използване на повърхностна електромиография и MOTCO софтуер, *Полска академия на науките*, 2012-2014, доц. д-р Христо Аладжов
- 4.1.4. Геометрични аспекти на еластичните среди: от биомембрани до нанотръби, *Полска академия на науките*, 2012-2014, ръководител доц. д-р Ивайло Младенов
- 4.1.5. Интуиционистки размити множества, интуиционистки размита оптимизация – теория и приложения в медицината, екологията и други области, *Полска академия на науките*, 2012-2014, ръководител чл. кор. дтн дмн Красимир Атанасов
- 4.1.6. Интуиционистки размити множества – теория и приложения, *Словашка академия на науките*, 2012-2014, ръководител чл. кор. дтн дмн Красимир Атанасов

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

- 4.2.1. Пренилхинони и каротеноиди – потенциални медиатори на толерантността на висши растения към комбиниран светлинен и температурен стрес, *Българо-швейцарска изследователска програма, МОМН*, ръководител проф. д-р Мая

Величкова.

- 4.2.2. ФитоБалк, *Българо-швейцарска изследователска програма, МОМН*, ръководител гл. ас. д-р Калина Данова, Институт по органична химия - БАН.
- 4.2.3. Промени на QRS комплекса и Т вълната на пациента в зависимост от натоварването по време на стрес тест ECG - подзадача от рамков договор Анализ на цифрови електрокардиографски данни, рамков договор с *ISIB-CNR, Италия* и *St George's University of London*, ръководител проф. д-р Ивайло Христов.
- 4.2.4. Моделиране на ABC (АТФ-свързващи) транспортни протеини и техни субстрати и инхибитори, участващи в множествената лекарствена резистентност и ADME (Резорбция, Разпределение Метаболизъм, Екскреция), *Университет Бон, Германия*, ръководител проф. д-р Илза Пъжева.
- 4.2.5. Моделиране, оптимизация и управление на ферментационни процеси, Рамково споразумение с *Институт по техническа химия – Университет Хановер, Германия*, ръководител проф. д-р Стоян Цонков.

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.

5. Участие на звеното в подготовката на специалисти

Специалисти от звеното са водили лекции и упражнения в:

- *Софийски Университет „Св. Климент Охридски“*
- *Химикотехнологичен и металургичен университет – София*
- *Медицински Университет – София*
- *Технически Университет – София*
- *Бургаски Университет “Проф. д-р А. Златаров”*
- *Пловдивски Университет*

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

- *University Paris-Diderot – Paris VII*
- *Химикотехнологичен и металургичен университет – София*

Специалисти от звеното са провели и 6 докторантски курса.

През 2013 г. 10 учени от ИБФБМИ са провели обучение на 19 студенти в изпълнение на ПРОЕКТ BG051PO001-3.3.07-0002 „Студентски практики” (с финансовата подкрепа на Оперативна програма „Развитие на човешките ресурси”, съфинансирана от Европейския социален фонд на Европейския съюз)

Образователната и научна степен “доктор” – защитили четирима докторанти:

1. Светла Желязкова Тодинова: *Термодинамичен профил на плазмения протеом при злокачествени заболявания*, ръководител проф. дбн Стефка Танева
2. Виктория Николаева Пехливанова: *Термодинамичен профил на плазмения протеом при злокачествени заболявания*, ръководител проф. дбн Яна Цонева, научен консултант доц. д-р Румяна Цонева
3. Петър Младенов Василев: *Интуиционистки развити множества с функции на принадлежност и непринадлежност в метрична релация*, ръководител чл. кор. дтн дмн Красимир Атанасов
4. Димитър Георгиев Димитров: *Програмен аспект на теорията на обобщените мрежи – оптимизация на алгоритми за изпълнение, оператори за модификация на модели и приложения*, докторант в СУ "Св. Климент Охридски" с ръководител чл.-кор. дтн дмн Красимир Атанасов

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

а) от чужбина

б) от България

6. Иновационна дейност на звеното и анализ на нейната ефективност

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

През 2013 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 2013 г. в Клиниката по дерматология на СБАЛО, София.

- с Университетска МБАЛ “Александровска” – влияние на неинвазивната вентилаторна терапия при синдром на обструктивна сънна апнея;

- 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 УМБАЛ "Св. Анна" - София - апаратура за безжично отвеждана високочестотна електрокардиограма с възможност за Холтер изследване и анализ на ВСР;

- с УМБАЛ "Св. Анна" - София и Университетска МБАЛ “Александровска” – 16-канална апаратура за отвеждане на електро- и вектор-кардиограма и дихателен сигнал с висока разделителна способност.

6.2. 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, дял на новите продукти в общия обем на продажбите и т.н.);

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 2013 г. трансферът е финансиран от фирмата в размер на 3 000 Евро.

7. Стопанска дейност на звеното за 2013 г.

7.1. Осъществяване на съвместна стопанска дейност с външни организации и партньори /продукция, услуги и др., които не представляват научна дейност на звеното/, вкл. поръчана и договорирана с фирми от страната и чужбина

7.2. Отдаване под наем на помещения и материална база

Договорните отношения с фирмите ЕТ “Ласто-Лазар Стойчев” и “Шиллер – Инженеринг София” ЕООД продължават и през 2013 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.

7.3. Сведения за друга стопанска дейност

Като форма на административно-стопанската дейност през 2013 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 ремонт на работни и санитарни помещения, техническите съоръжения в отделните помещения, ВиК системата и абонатната станция за топлоподаване се поддържат основно със средства и труд на института. През 2013 г. се извърши цялостен ремонт на санитарните помещения, отремонтираха се три работни кабинета и една зала в бл. 105. Основен ремонт, бе извършен в бл. 21 на помещение в приземният етаж и на една стая в бл. 108. Ремонтни дейности на помещения бяха извършени в бл. 23. С цел създаване на безопасни условия на труд за работещите, през 2013 г. се направи обследване на звеното по отношение на противопожарна, аварийна и здравословна безопасност .

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 2013 г. бяха продължени договорите с:

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

8. Кратък анализ на финансовото състояние на звеното за 2013 г.

С П Р А В К А За приходите и разходите на научно звено БАН

ИНСТИТУТ ПО БИОФИЗИКА И БИОМЕДИЦИНСКО ИНЖЕНЕРСТВО През 2013 год. (данни към 31.12.2013 год.)

I. Постъпили в звеното финансови средства	- <u>2223595 лв.</u>
1. От бюджетна субсидия в т.ч. трансфери за поети осигурителни вноски	- 1104700 лв.
2. От други източници в т.ч.	- 1118895 лв.
2.1. Остатък на 01.01.2013 г. от собствени средства	- 628016 лв.
2.2. Постъпления през годината в т.ч.	- 99742 лв.
2.2.1. От договор с МОМН по Българо-швейцарски фонд	- 80285 лв.
2.2.2. От договор с НФ "Научни изследвания" към МОМН-	5800 лв.
2.2.3. От ИНБ-БАН за съвместна научна дейност	- 4000 лв.
2.2.4. От договори от наем	- 6290 лв.
2.2.5. Приходи от абонаменти на списания	- 1000 лв.
2.2.6. От такси на докторанти	- 2367 лв.
3. Валутни приходи в т.ч.	- <u>391137 лв.</u>
3.1. Остатък на 01.01.2013 г.	- 25976 лв.
3.2. Получен приход по договор по Седма рамкова програма (COSMOS)	- 298687 лв.
3.3. Получен приход по договор по Седма рамкова програма (MATSIQEL)	- 52807 лв.
3.4. Получен приход по договор Schiller AG-Швейцария	- 5868 лв.
3.5. Приходи от абонаменти на списания	- 7776 лв.
3.6. Приход от лихви по текущи банкови сметки	- 23 лв.

II. Изразходвани средства	- <u>2014559 лв.</u>
1. От субсидия, собствени и валутни средства в т.ч.	- 2010513 лв.
1.1. За работни заплати	- 842366 лв.
1.2. За други възнаграждения в т.ч. за хонорари за НЖ, НС и по договори с МОМН и по валутни проекти	- 310385 лв.
1.3. За СБКО	- 17640 лв.
1.4. За ДОО, ДЗПО в УПФ и ЗОВ	- 174101 лв.
1.5. За издръжка (електроенергия, топлоенергия, вода, външни услуги, материали, пощенски разходи и др.)	- 181098 лв.
1.6. За научно-изследователски разходи	- 141750 лв.
1.7. За стипендии	- 59800 лв.
1.8. За командировки в страната и чужбина	- 107359 лв.
1.9. За текущ ремонт, данък сгради и такса смет	- 28885 лв.
1.10. За придобиване на ДМА	- 147129 лв.
2. Възстановени остатъци на НФ "Научни изследвания" към МОМН от приключили и отчетени договори	- 4046 лв.
Остатък на 31.12.2013 г. от собствени средства	- 128902 лв.
Остатък на 31.12.2013 г. по валутни сметки	- 80134 лв.
Общо салдо на 31.12.2013 г.	- 209036 лв.

ГЛАВЕН СЧЕТОВОДИТЕЛ:

/Анна Неделчева/

ДИРЕКТОР:

/чл.-кор. А. Косев/

9. Издателска дейност

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

Почетен главен редактор: Стоян Цонков

Главен редактор: Михаил Матвеев

Зам. гл. редактор: Таня Пенчева

През 2013 г. излязоха 4 броя.

От 2008 г. списанието е официално издание на БАН. *International Journal Bioautomation* се реферира от редица международни бази данни: Scopus, Compendex, Chemical Abstract Service, Directory of Open Access Journals, Electronic Journals Library, 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.

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. *Journal of Geometry and Symmetry in Physics* (ISSN: 1312-5192)

Главен редактор: Ивайло Младенов

Излезли от печат 4 книжки.

5. *Proceedings of the Fourteenth International Conference on Geometry, Integrability and Quantization*, Avangard Prima, Sofia 2013, Eds. Mladenov I., A. Ludu, A. Yoshioka, ISSN 1314-3247.

10. ПРИЛОЖЕНИЯ

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

- излезли от печат

1. Andonov V. Connection between Generalized Nets with Characteristics of the Places and Intuitionistic Fuzzy Generalized Nets of Type 1 and Type 2. Notes on Intuitionistic Fuzzy Sets. 19, 2, 2013, 77-88. ISSN 1310-4926.
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ПРИЛОЖЕНИЕ 43: 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.-председател на НС

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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