ОТЧЕТ

на Институт по биофизика и биомедицинско инженерство

Българска академия на науките

за 2014 г.

София

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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 мисия и приоритети, съобразени с утвърдените през 2014 г. научни тематики

Институтът по биофизика и биомедицинско инженерство е водещ институт в България в областта на фундаменталните науки биофизика, биохимия, клетъчна биология, физиология и е на челно място в развитието на технологиии за биомедицината и здравеопазването в областта на електрофизиологията, двигателната активност, информационните технологии и биологично активните вещества и демонстрира успешен трансфер на технологии към други институти на БАН, университети, клиники и компании. Институтът по биофизика и биомедицинско инженерство е напълно конкурентен и разпознаваем в международен план като постиженията на научния му състав получават високо международно признание.

Утвърдените тематичните направления на ИБФБМИ за периода 2014-2016 г., обединяващи научноизследователската и иновационна дейност са съобразени с приоритетите на Стратегическата рамка на Националната програма за развитие на Република България, Националната стратегия за развитие на научните изследвания и на Хоризонт 2020 и включват:

Направление 1. ***Съвременни подходи за изследване на липиди, белтъци и биологични системи. Структурно-функционални взаимодействия в биологични мембрани. Патологични процеси. Оксидативен стрес и стареене***.

Изследванията в това направление са фокусирани върху:

- Оксидативен стрес, процеси на стареене, липидология и липиден метаболизъм в норма и патология, влияние на пробиотиците и пребиотиците върху липидния профил и чернодробните функции;
- Динамика, конформация и стабилност на биологични макромолекули;
- Калориметрични биомаркери за диагностика и мониториране на заболявания.

Направление 2. ***Иновационни методи, технологии и продукти за подобряване качеството на живот – приложения в медицинската диагностика и терапия и при оценка на риска за човешкото здраве.***

Изследванията в това направление са акцентирани върху:

- Разработка на алгоритми, програмни и апаратни средства и методи от изкуствения интелект и приложението им в медицината и здравеопазването;

- Изследване на нови сигнални туморни маркери и разработка на процедури и устройства за лечение на злокачествени тумори чрез нови лекарствени средства самостоятелно и в комбинация с прилагане на електрични импулси;

- Изследване биосъвместимостта на нови материали за нуждите на тъканното инженерство и регенеративната медицина;

- *In silico* подходи за характеризиране на връзката между структура и функция на биологични макромолекули и химични съединения и оценка на проявявания от тях терапевтичен или токсичен ефект.

Направление 3. ***Експериментални и моделни изследвания на възбудими структури и управление на двигателната дейност на човек в норма и патология, при умора и рехабилитация.***

Изследванията в това направление включват:

- Изследване на възбудимостта на мускулни влакна и двигателни единици при физиологични и патологични състояния;

- Приложение на изследванията на двигателната активност за формиране на адекватен рехабилитационен процес и оптимизиран тренировъчен режим при спортисти и други лица с висока степен на физическо натоварване;

- Изследване на ефекта на температурата върху процесите на разпространение, адаптация и акомодация на симулирани демиелинизиращи нервопатии и невронопатии по време на хипотермия, хипертермия и физиологичен температурен диапазон.

Направление 4. ***Биофизика на енергопреобразуващи мембрани, фотоиндуцирани явления в клетките, стресови фактори и оксидативен стрес при фотосинтезиращи организми, устойчивост и механизми на адаптацията им към промени в околната среда***.

Изследванията са концентрирани върху:

- Стресови фактори и оксидативен стрес във фотовъзбудими мембрани, ефективност на фотосинтетичните процеси и механизми на адаптация на фотосинтетичния апарат към стресови фактори от околната среда;

- Сравнителни изследвания на растения, цианобактерии и техни мутанти по отношение на чувствителността им към замърсявания от околната среда с оглед приложението на фотосинтетични организми, мембрани и комплекси при разработване на биосензори;

- Роля на макроорганизацията на пигмент-белтъчните комплекси за регулацията на фотосинтетичните процеси.

През 2014 г. от сътрудници на ИБФБМИ са публикували общо 148 и са подготвили за печат 46 публикации. В издания, реферирани и индексирани в световната система за реферирање, индексиране и оценяване, са публикувани общо 127 и са под печат 17 публикации, като от тях 77 публикувани и 16 под печат са с импакт фактор IF (Web of Science) или импакт ранг SJR (SCOPUS). В издания без реферирање и индексиране в световната система за реферирање, индексиране и оценяване са публикувани 17 и са под печат 6 публикации. Излезли от печат са 3 монографии и 16 глави от книги, а са приети за печат 2 монография и 5 глави от книги. През 2014 г. са забелязани 2327 цитирания на научни трудове на изследователи от ИБФБМИ, с изключени самоцитати. Работено е по 62 теми, от които 37 с външно финансиране: 22 от Фонд “Научни изследвания”, 3 проекта по програми на ЕС, вкл. и COST, 7FP, 4 по ОП "РЧР" и 6 теми по договори с чуждестранни фирми или с чуждестранно финансиране.

Успешно е преминал процедура за заемане на академичната длъжност "професор" един учен от ИБФБМИ, за "доцент" - един и двама за "главен асистент". Бяха избрани двама нови член-кореспонденти: чл.-кор. Илза Пъжева и чл.-кор. Стефан Хаджитодоров.

1.2. Изпълнение на Националната стратегия за развитие на научните изследвания 2020. Извършвани дейности и постигнати резултати

Утвърдените тематичните направления на ИБФБМИ за периода 2014-2016 г се включват в **Приоритет 2** „ЗДРАВЕ И КАЧЕСТВО НА ЖИВОТА, БИОТЕХНОЛОГИИ И ЕКОЛОГИЧНО ЧИСТИ ХРАНИ**”** и част от тях в **Приоритет 3** „НОВИ МАТЕРИАЛИ И ТЕХНОЛОГИИ” и **Приоритет 5** „ИНФОРМАЦИОННИ И КОМУНИКАЦИОННИ

ТЕХНОЛОГИИ” на Националната стратегия за развитие на научните изследвания в България.

Направленията са пряко свързани с приоритетите на Националната програма за развитие на Република България и конкретно с **Подприоритет 1.3** ПОВИШАВАНЕ КАЧЕСТВОТО И ЕФЕКТИВНОСТТА НА ЗДРАВНИТЕ УСЛУГИ (направление 1 и 2 от плана), **Подприоритет 1.2** ПОДОБРЯВАНЕ НА КАЧЕСТВЕНИТЕ ХАРАКТЕРИСТИКИ НА РАБОТНАТА СИЛА (направление 3) и **Подприоритет 3.3** СЪЗДАВАНЕ НА УСЛОВИЯ ЗА ОПАЗВАНЕ И ПОДОБРЯВАНЕ НА ОКОЛНАТА СРЕДА В РЕГИОНИТЕ И АДАПТИРАНЕ КЪМ ПРОМЕНИТЕ НА КЛИМАТА В ПОЛЗА НА УСТОЙЧИВИЯ РАСТЕЖ (направление 4).

В съответствие на приетите тематични направления на ИБФБМИ за периода 2014-2016 г през 2014 г. бяха извършени следните конкретни дейности:

- изследвания върху фотосинтетичния апарат и неговата активност и влияние на стресови фактори от околната среда;
- 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;
- изследвания върху възможностите за приложение на фотосинтезиращи организми за разработка на биосензори;

- изследвания върху оксидативния стрес при здрави и онкогентрансформирани клетки;
- моделни изследвания върху клетъчни мембрани;
- изследване влиянието на физикохимични фактори върху биоматериали, в т.ч. и наноструктурирани;
- изследвания върху молекулярните механизми на паметта;
- подготовка на висококспециализирани 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.

1.3. Полза/ефект за обществото от извършваните дейности

Здравен ефект и превенция при социално значими заболявания:

- Проведени са изследвания върху механизмът на влияние на антиоксиданта кверцетин върху мембранните липиди и техния маетаболизъм при хепатоцити от стари плъхове. Установено е понижение на съотношението холестерол/тотални фосфолипиди след третиране с кверцетин, а също така промяна в други фактори като понижение на индекса наситени/ненаситени мастни киселини в молекулите на мембранните фосфолипиди, както и на липидните пероксиди в мембрани от хепатоцити. Получените резултати показват, че третирането с кверцетин повлиява някои специфични мембранни показатели за повишен оксидативен стрес. Демонстрирано е, че кверцетинът действа като мощен антиоксидант на мембранно ниво, което го прави подходящ за включване в комплексни терапии, насочени към повлияване на оксидативния статус на мембраните и клетките като цяло.
- Проведено е изследване за изясняване на структурните и реорганизационни промени, засягащи светосъбиращ комплекс на фотосистема 2 при нефотохимичното гасене на флуоресценцията на хлорофила. Показана е различна организация тримерите в светосъбиращип комплекс отговарящи на рзлични нива на протониране.
- за нуждите на клиничната и спешната кардиология е проектиран и разработен 16-канален електрокардиографски симулатор за директно възпроизвеждане на стандартизирани бази даннии. Създадена е софтуерна библиотека за оценка на качеството на ЕКГ сигнали и разместени електроди с цел подобряване точността на

автоматичния анализ на електрокардиографските сигнали и подобряване на енергетичните параметри на дефибрилацията;

- за нуждите на клиничната кардиология са разработени модули за анализ на многоканална електрокардиограма в автоматични мониторни системи. Създаден е софтуер за реализация на 4 линейни класификатора на камерни комплекси.
- 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 X синдром, синдром на Brugada;
- 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:

- Разработена е софтуерна платформа AMMOS, съдържаща 3 пакета за целите на виртуален скрининг на големи бази данни от химични съединения. Пакетите са предназначени за генериране на 3D структури (DG_AMMOS), оптимизация на пространствени структури (AMMOS_SmallMols) и оптимизация на взаимодействия в протеин-лигандни комплекси (AMMOS_ProtLig), в това число при наличие на водни молекули в активното място. AMMOS е разработена като отворен код съвместно с колектив от Университет VII в Париж, Франция и може да бъде използвана от учени, работещи в областта на създаване на нови лекарствени препарати.
- Разрботен е модул на програмата “TOXTREE” (Estimation of toxic hazard – a decision tree approach) за оценка на очно възпаление – съвместно с Изследователски център на Европейската комисия, Испра, Италия. Модулът може да бъде използван

от химическата индустрия и регулаторни организации при вземането на комплексно решение относно потенциала на даден химикал за очно възпаление, така както е заложено в изискванията на REACH законодателството.

- Разработени са QSAR И 3D QSAR модели за оценка на активност и токсичност при изследване на зависимости структура-активност и молекулно моделиране на биологично активни съединения. Резултатите могат да се използват от фирми във фармацевтичната, биотехнологичната и химическата индустрии, както и при разработване на софтуер за R&D (Research & Development) в тези области.
- разработен е еталон за проверка на цифрови електрокардиографски апарати
- Предложена е теория на индексираните матрици (ИМ) и произтичащото от тях матрично смятане, което надгражда и усилва възможностите на смятането със стандартни матрици. Апаратът на ИМ дава възможност за реализиране на често срещана в практиката необходимост от операции над матрици с различни размерности, които са нереализируеми чрез стандартно матрично смятане. Теория на ИМ вече намира приложения в области като информатика, медицина, екология и икономика.
- получени са резултати за повишена избирателна активност на нови алкилфосфохолинови анти-туморни препарати върху туморни клетки в in vitro системи;

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

- Проведено е широко изследване на няколко аспекта на влиянието UV-B облъчването върху фотосинтетичния апарат на висши растения и цианобактерии, включващо механизми на увреждане, роля на активни кислородни форми и протекторно действие на антиоксиданти. Показано е, че защитният ефект на тези антиоксиданти е следствие не само от прякото им взаимодействие с активните кислородни форми, но и от структурните промени, които те индуцират във фотосинтетичните мембрани и в кислород-отделящия комплекс. При изследвания на различни екотипове на висши растения и цианобактерии от различни географски ширини е установена корелация между географското им местообитание и чувствителността към UV-B радиация
- 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 висококвалифицирани кадри в национален мащаб:

- създадена е и успешно се реализира система за обучение на кадри с биофизична подготовка за нуждите на биологията, медицината и екологията;

провежда се непрекъснато обучение на докторанти в областта на биофизиката и биомедицинското инженерство.

1.4. 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, Техническия 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*

1.5. Общонационални и оперативни дейности, обслужващи държавата

Учени от ИБФБМИ през изтеклата година са участвали в работата на следните органи, извършващи общонационални и оперативни дейности, обслужващи държавата: Съвет за медицинска наука- Медицински университет- София; Комисия по биология и медицински науки към ФНИ, 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.

1.5.1. 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/.

1.5.2. 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

Договор от 04.12.2014 г. между Българския институт по метрология (БИМ) и ИБФБМИ за „Изработка на работен еталон за проверка на цифрови електрокардиографи за нуждите на Главна дирекция „Мерки и измервателни уреди“ с финансиране от страна на БИМ. Ръководител на работния колектив – проф. Михаил Матвеев.

2. Резултати от научната дейност през 2014 г.:

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

Разработка на колектива на секция „Фотовъзбудими мембрани" към ИБФБМИ-БАН.

При своето развитие растенията са подложени на различни стресови въздействия като екстремни температури, висок светлинен интензитет, UV облъчване и други, които намаляват тяхната продуктивност. В резултат на човешката дейност озоновият слой непрекъснато намалява, количеството на UV-B радиация достигащо до земната повърхност се увеличава и влияе негативно на всички живи организми. Изследвано е влиянието на UV-B облъчването върху фотосинтетичния апарат на висши растения и цианобактерии. Установено е, че температурата по време на UV-B третирането не влияе съществено върху степента на инхибиране на фотосинтетичните процеси в хлоропластите от висши растения, но протективният ефект на гасители на активни кислородни форми зависи от температурата. Показано е, че UV-B – индуцираното инхибиране на фотохимичната активност и кислородното отделяне при ниски температури е доминирано от хидроксилни радикали, докато при стайна температура съществена роля играе и синглетният кислород. Установено е, че наринginът и аскорбатът протектират ефективно кислород-отделящия комплекс и е показано, че защитният ефект на тези антиоксиданти е следствие не само от прякото им взаимодействие с активните кислородни форми, но и от структурните промени, които те индуцират във фотосинтетичните мембрани и в кислород-отделящия комплекс. Показано е, че фитохормонът 24-епибрасинолид предпазва фотосинтетичните пигменти от UV – индуцирано увреждане. При изследвания на различни екотипове на висши растения и цианобактерии от различни географски ширини е установена корелация между географското им местообитание и чувствителността към UV-B радиация. Получените резултати представляват интерес при развитие на стратегия за създаване на икономически значими култури, устойчиви към промените на околната среда.

Публикации:

1. Lazarova D., Stanoeva D., Popova A., Vasilev D., Velitchkova M. (2014) UV-B - induced alteration of oxygen evolving reactions in pea thylakoid membranes as

affected by scavengers of reactive oxygen species, Biologia Plantarum, 58 (2): 319-327. IF- 1.740

2. Dobrikova A., Apostolova E. (2014) Protective effects of naringin on the photosynthetic apparatus against UV-B radiation, *C. R. Acad. Bulg. Sci.* 67 (5): 675-682. IF-0.211
3. Dobrikova A.G., Krasteva V., Apostolova E.L. (2013) Damage and protection of the photosynthetic apparatus from UV-B radiation. I. Effect of ascorbate, *J. Plant Physiol*. 170 (3): 251-257. IF- 2.770
4. Velitchkova M., Stanoeva D., Popova A.V. (2013) Sensitivity of two ecotypes of Arabidopsis thaliana (Cvi AND Te) towards UV-B irradiation, *C. R. Acad. Bulg. Sci.* 66 (6): 839-846. IF-0.211
5. Velitchkova M., Stanoeva D., Popova A.V. (2013) UV-B-induced alterations in primary photosynthetic reactions in isolated thylakoid membranes of Arabidopsis thaliana (C24), *C. R. Acad. Bulg. Sci* 66 (11): 1553-1562. IF-0.211
6. Apostolova E.L., Pouneva I., Rashkov G., Dankov K., Grigorova I., Misra A.N.. (2014) Effect of UV-B radiation on photosystem II functions in antarctic and mesophilic strains of a green alga *Chlorella vulgaris* and a cyanobacterium *Synechocystis salina*, *Ind. J. Plant Physiol*., 19: 111-118. SJR – 0.118

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

Разработката е на секция „Обработка и анализ на биомедицински данни и сигнали”

Разработен е изчислителен модул за вграждане в автоматични мониторни електрокардиографски системи за определяне в реално време на оптималния момент за стартиране на запис на диагностично-полезна 12-канална ЕКГ в покой (най-рано по време, с най-добро качество във всички отвеждания), в рамките на зададен времеви интервал. Модулът е реализиран въз основа на индекс, обобщаващ качеството на всички отвеждания в 12-канална ЕКГ мониторна система и метод за неговото изчисляване в реално време чрез анализ на буферираните данни от последните 4s. Индексът за качество отразява статуса на отвежданията и обобщава количествено ЕКГ компонентите на всички отвеждания в нискочестотната област (изчислява ниво на офсет и дрейф на нулевата линия), високочестотната област (открива спайк шумове) и в средната честотна област (изчислява ниво на сигнала и ниво на шумовете в типичната честотна лента на ЕКГ сигналите). Въз основа на индекса е разработен и алгоритъм , базиран върху адаптивен праг за оценка на качеството на ЕКГ сигналите, който е обучен върху 375 записа на 12-канална ЕКГ и е тестван 267 пациентни записи. Резултатите от тестването са: 87.2% от ЕКГ записите са направени с качество ≥95% от максималното; 33.1% от ЕКГ записите са стартирани в оптималния момент за запис с толеранс от 2.5 секунди; 29.3% от ЕКГ записите са стартирани по-рано, поради

доброто си начално качество; 37.2% от ЕКГ записите са направени със закъснение >2.5 секунди заради ниското си качество, което не може да надвиши адаптивния праг.

Публикации за 2014 г :

1. Jekova I., Leber R., Krasteva V., Schmid R., Abächerli R., 2014, “Lead Quality Monitoring for Detection of the Optimal Snapshot Time to Record Resting ECG”, Computing in Cardiology, vol. 41, pp. 573-576, IF-Scopus(2013)=0.46, ISSN: 2325-8861.
2. Abächerli R., Leber R., Jekova I., Krasteva V., Schmid R., Schmid J-J, Müller C., 2014, “Detection performance of an automatic lead reversal detection module”, Journal of Electrocardiology, Vol. 47, Issue 6, pp. 907, DOI: 10.1016/j.jelectrocard.2014.08.017, IF(2013)=1.363, ISSN: 0022-0736.
3. Bortolan G., Christov I., 2014, “Dynamic filtration of high-frequency noise in ECG signal”, Computing in Cardiology, 41, pp. 1089-1092, IF-Scopus(2013)=0.46, ISSN: 2325-8861
4. Jekova I., Krasteva V, Aba"cherli R., 2013, “Detection of Electrode, Interchange in Precordial and Orthogonal ECG Leads”, Computing in Cardiology, vol. 40, pp. 519-522, IF-Scopus(2013)=0.46, ISSN: 2325-8861.
5. Jekova I., Krasteva V., Christov I., Aba"cherli R., 2012, “Threshold-based system for noise detection in multilead ECG
6. recordings”, Physiol. Meas., vol. 33, pp. 1463-1477, IF(2013)=1.617, ISSN: 0967-3334.

3. Художественотворческа дейност на звеното през 2014 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 МОТСО софтуер, *Полска академия на науките*, 2012-2014, доц. д-р Христо Аладжов

4.1.4. Нелинейна геометрия на мембрани, филаменти и капки, *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

4.1.7. Low temperature tolerance mechanisms in a resurrection and non resurrection plants Механизми на толерантността към ниски температури на възкръсващи и невъзкръсващи растения, *Унгарска академия на науките,* 2013-2015, проф. д-р К. Георгиева ИФРГ-БАН; ИБФБМИ е съизпълнител.

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 Изследване на морфологичните промени в електрокардиограмата при хемодиализа; Съвместно с Институт по биомедицинско инженерство - *Италиански национален съвет за научни изследвания (ISIB-CNR) и Националната кардиологична болница*; 2014-2015; ръководител проф. дтн Ивайло Христов, участници: от ИБФБМИ: доц. Ирена Жекова, доц. Весела Кръстева, гл. ас. Татяна Нейчева; от ISIB-CNR: prof. Giovanni Bortolan; от НКБ: проф. Цветана Кътова, гл. ас. д-р Яна Симова, гл. ас. д-р Лиляна Камбова

4.2.2 Моделиране на ABC (АТФ-свързващи) транспортни протеини и техни субстрати и инхибитори, участващи в множествената лекарствена резистентност и ADME (Резорбция, Разпределение Метаболизъм, Екскреция), *Университет Бон, Германия*, ръководител чл.-кор. Илза Пъжева.

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

4.2.4 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.

4.2.5 ФитоБалк, *Българо-швейцарска изследователска програма*, *МОМН*, ръководител гл. ас. д-р Калина Данова, Институт по органична химия - БАН.

4.2.6 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. дтн Ивайло Христов.

Най-значими международно финансирани проекти:

1. 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
2. Изследователски проект по Българо-Швейцарска изследователска програма №IZEBZO-143169/1 на тема: "Пренилхинони и каротеноиди-потенциални медиатори на толерантността на висши ратсения към светлинен и температурен стрес", Базова организация в България – ИБФБМИ, Ръководител: проф. д-р М. Величкова

5. Участие на звеното в подготовката на специалисти

Специалисти от звеното са водили лекции в:

1. Биологически ф-т на Софийски Университет „Св. Кл. Охридски"
2. Факултет по химия и фармация, Софийски университет „Св. Климент Охридски"
3. Факултет по математика и информатика, Софийски университет „Св. Климент Охридски"
4. Факултет по технически науки, Университет "Проф. д-р А. Златаров" - Бургас
5. ХТМУ, София
6. Технически университет - София
7. Факултет по математика и информатика, Пловдивски университет „Паисий Хилендарски"

Специалисти от звеното са водили 6 докторантски курса:

1. Докторантски курс „Компютърно-подпомогнат лекарствен дизайн“, Център за обучение, БАН (чл.-кор. И. Пъжева)
2. Докторантски курс „Обобщени мрежи“, Център за обучение, БАН (чл.кор. К.Атанасов).
3. Докторантски курс „Интуиционистки размити множества“, Център за обучение, БАН (чл.кор. К.Атанасов).
4. Докторантски курс „Фотопроцеси в биологични мембрани“, Център за обучение, БАН , проф. д-р Мая Величкова
5. Докторантски курс „Фотопроцеси в биологични мембрани“, Център за обучение, БАН , проф. д-р Е. Апостолова
6. Докторантски курс „Електропорация и електросливане“, Център за обучение, БАН , проф. д-р Я. Цонева

Придобили образователната и научна степен “доктор ”

Райна Иванова Георгиева, редовен докторант**,** секция „Липид-белтъчни взаимодействия“**,** научен ръководител доц. д-р Галя Станева и консултант проф. дбн Албена Момчилова, тема „Влияние на докозахексаеновата киселина и фосфолипаза А2 върху процесите на мембранно преструктуриране“**,** защита: 09 април 2014.

Мария Колева Ангелова, редовен докторант, секция „Биоинформатика и математическо моделиране“, научни ръководители проф. дтн Стоян Цонков и доц. д-р Таня Пенчева**,** тема „Модифицирани генетични алгоритми и интуиционистки размита логика за параметрична идентификация на модел на полупериодична култивация“, защита: 07 юли 2014

Владимир Георгиев Димитров, докторант на самостоятелна подготовка**,** секция „Възбудими структури“**,** научни консултанти доц. д-р Тодор Арабаджиев и доц. д-р Лилия Христова**,** тема „Ефекти на централните и периферните фактори върху електромиографските оценки при мускулна умора“, защита: 28 май 2014

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

През 2013 г. 2 учени от ИБФБМИ са провели обучение на 8 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*).

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

7. 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;

Секция „Обработка и анализ на биомедицински сигнали и данни" – съвместна иновационна дейност по договор между БАН и SCHILLER AG, Швейцария, с отговорен изпълнител ИБФБМИ по тематично направление „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". Дейността е съпроводена с ежегодно финансиране от страна на SCHILLER AG, Швейцария, с ежегодно публикуване на резултати в престижни международни издания и с участие с доклади в международни научни прояви, с издадени сертификати за разработки.

Секция „Обработка и анализ на биомедицински сигнали и данни" – съвместна иновационна дейност между Българския институт по метрология (БИМ) и ИБФБМИ за проектиране и изработка на универсално тестово устройства - работен

еталон за проверка на цифрови електрокардиографи за нуждите на метрологичния контрол в страната на най-разпространеното клинично и амбулаторно диагностично устройство – цифровите електрокардиографи, доставяни от значителен брой чуждестранни производители.

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.);

7. Стопанска дейност на звеното

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 2014 г., като това е съобразено с актуалните изисквания, спуснати от ЦУ на БАН. 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 2014 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.

Ремонтни 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 2014 г. се извърши цялостен ремон на санитарните помещения в бл. 21, ет. 3, един работен кабинет и заседателна зала в бл. 105. Бяха подменени осветителните тела с икономични в коридори, кабинети, лаборатории и санитарни помещения. Във връзка с

безопасното преминаване, бе демонтирана и монтирана нова козирка на входа в бл. 105. С цел създаване на безопасни условия на труд за работещите, през 2014 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.

8. Кратък анализ на финансовото състояние на звеното за 2014 г.

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

ИНСТИТУТ ПО БИОФИЗИКА И
БИОМЕДИЦИНСКО ИНЖЕНЕРСТВО
През 2014 год. (данни към 31.12.2014 г.)

I. Постъпили в звеното финансови средства	-	**2440810 лв.**
1. От бюджетна субсидия в т.ч. трансфери за поети осигурителни вноски		**1277912 лв.**
2. От други източници в т.ч.		*1162898 лв.*
2.1. Остатък на 01.01.2014 г. от собсвени средства		**128902 лв**.
2.2. Постъпления през годината в т.ч.		**770138 лв.**
2.2.1. От договори с МОН по Българо-швейцарски фонд		114574 лв.
2.2.2. От договори с НФ "Научни изследвания" към МОН	-	520005 лв.
2.2.3. От съфинансиране на научен проект по Седма Рамкова програма (COSMOS) от МОН		100250 лв.
2.2.4. От договор с Български институт по метрология		18000 лв.
2.2.5. От договори по ОП «РЧР»- «Наука и бизнес»МОН	-	5506 лв.
2.2.6. От договори за наем	-	6479 лв.
2.2.7. Приходи от абонаменти за списания	-	1420 лв.
2.2.8. От такиси на докторанти	-	3904 лв.
3. Валутни приходи в т.ч.		**263858 лв.**

3.1. Остатък на 01.01.2014 г.	-	80134 лв.
3.2. Получен приход по договор по Седма Рамкова програма (COSMOS)		170705 лв.
3.3. Получен приход по договор Schiller AG-Швейцария	-	5867 лв.
3.4. Приходи от абонаменти на списания	-	6520 лв.
3.5. Приходи от такси за Международна конференция	-	391 лв.
3.6. Положителна преоценка на валутни средства	-	232 лв.
3.7. Приходи от лихви по текущи банкови сметки	-	9 лв.
II. Изразходвани средства	-	**1598246 лв.**
(От субсидия, собствени и валутни средства в т.ч)		
1. За работни заплати	-	959374 лв.
2. За други възнаграждения в т.ч. за хонорари за НЖ, НС и по договори с европейски и други проекти		138614 лв.
3. За СБКО		24275 лв.
4. За ДОО, ДЗПО в УПФ и ЗОВ		181537 лв.
5. За издръжка (електроенергия, топлоенергия, вода, външни услуги, материали, пощенски разходи и др.)	-	111409 лв.
6. За научно-изследователски разходи	-	7512 лв.
7. За стипендии	-	63000 лв.
8. За командировки в страната и чужбина		35051 лв.
9. За текущ ремонт, данък сгради и такса смет и данък върху приходите от стопанска дейност		8656 лв.
10. За придобиване на ДМА		42065 лв.
11. За придобиване на НМА (прогр.продукти и лицензии)		16713 лв.
12. Преведена гаранция на БИМ, съгл.сключен договор	-	9540 лв.
13. Дарение във връзка честването на 145 години БАН	-	500 лв.

Остатък на 31.12.2014 г. от собствени средства	-	***710073 лв.***
Остатък на 31.12.2014 г. по валутни сметки	-	***132491 лв.***
Общ остатък на 31.12.2014 г.	-	***842564 лв.***

ГЛАВЕН СЧЕТОВОДИТЕЛ: **ДИРЕКТОР:**

/Анна Неделчева/ **/чл.-кор. А. Косев/**

9. Издателска дейност

1. *International Journal Bioautomation* (ISSN 1314-2321 on-line, ISSN 1314-1902 print)
   Главен редактор Михаил Матвеев, зам. гл. редактор Таня Пенчева
   Излезли от печат 4 книжки за 2014 г.
   От 2013 г. списанието има SJR ранг 0.134.

2. *Notes on Intuitionistic Fuzzy Sets* (ISSN-1310-4926)
   Редактори Красимир Атанасов, Humberto Bustince (Испания) и Janusz Kacprzyk (Полша)
   Излезли от печат 5 книжки (една допълнителна, посветена на двадесетгодишнината на списанието).

3. *Notes on Number Theory and Discrete Mathematics* (ISSN-1310-5132)
   Редактори Aldo Peretti (Аржентина), Anthony Shannon (Австралия) и Красимир Атанасов
   Излезли от печат 5 книжки (една допълнителна, посветена на двадесетгодишнината на списанието).

4. *Journal of Geometry and Symmetry in Physics,* (ISSN 1314 - 5673 on-line, ISSN: 1312-5192 print)
   SJR (2013) = 0.262, SNIP (2013) = 0.479.
   Главен редактор Ивайло Младенов, технически сътрудници Мариана Хаджилазова и Климент Младенов
   Излезли от печат 4 книжки.

5. *Geometry, Integrability and Quantization*, (ISSN: 1314-3247 print)
   Главен редактор Ивайло Младенов, технически сътрудници Мариана Хаджилазова и Климент Младенов
   Излязъл от печат 1 том..

10. Информация за научния съвет на звеното

Списък на членовете на Научния съвет на ИБФБМИ-БАН

Вътрешни членове:

- чл.-кор. дмн дтн Красимир Тодоров Атанасов (ИБФБМИ-БАН) - председател
- доц. д-р Таня Колева Пенчева (ИБФБМИ-БАН)- зам. председател
- доц. д-р Румяна Димитрова Цонева (ИБФБМИ-БАН)- – секретар
- проф. дбн Албена Борисова Момчилова (ИБФБМИ-БАН)-
- чл.-кор. дбн Андон Радев Косев (ИБФБМИ-БАН)-
- проф. дбн Диана Христова Петкова (ИБФБМИ-БАН)-
- проф. дтн Ивайло Иванов Христов (ИБФБМИ-БАН)-
- чл.-кор. дбн Илза Константинова Пъжева (ИБФБМИ-БАН)-
- проф. д-р Емилия Любомирова Апостолова (ИБФБМИ-БАН)-
- доц. д-р Иванка Милошева Цаковска (ИБФБМИ-БАН)-
- доц. д-р Ирена Илиева Жекова (ИБФБМИ-БАН)-
- проф. д-р Мая Янева Величкова (ИБФБМИ-БАН)-
- проф. д-р Мира Христова Бушева (ИБФБМИ-БАН)-
- проф. д-р Михаил Георгиев Матвеев (ИБФБМИ-БАН)-
- проф. дтн Росица Тодорова Райкова (ИБФБМИ-БАН)-
- проф. дбн Стефка Германова Танева (ИБФБМИ-БАН)-
- проф. дбн Яна Христова Цонева (ИБФБМИ-БАН)-

Външни членове:

- акад. проф. дфн Александър Георгиев Петров (Институт по физика на твърдото тяло – БАН)
- чл.-кор. дбн Здравко Иванов Лалчев (Биологически факултет, СУ „Св. Климент Охридски“)
- проф. дтн Георги Славчев Михов (Технически университет, София)
- проф. д-р Христо Стефанов Гагов (Биологически факултет, СУ „Св. Климент Охридски“)
- чл.-кор. дтн Стефан Тодоров Хаджитодоров (БАН – Администрация)

- Дата на избиране на НС на ИБФБМИ-БАН - **27.11.2014** – в състав 21 членове (без доц. д-р Румяна Димитрова Велинова-Цонева от списъка по-горе)
- На заседание на ОСУ-ИБФБМИ от **18.12.2014** е взето решение за увеличаване с един броя на вътрешните членове на Научния съвет и след проведено гласуване доц. д-р Румяна Димитрова Велинова-Цонева е избрана за член на НС-ИБФБМИ.

11. Копие от Правилника за работа в звеното

Б Ъ Л Г А Р С К А А К А Д Е М И Я Н А Н А У К И Т Е

ИНСТИТУТ ПО БИОФИЗИКА И БИОМЕДИЦИНСКО ИНЖЕНЕРСТВО

П Р А В И Л Н И К

за вътрешния трудов ред в Института по биофизика и биомедицинско инженерство

Настоящият Правилник за вътрешния трудов ред (ПВТР) се издава на основание чл. 181 от Кодекса на труда (КТ), с оглед нормалното протичане и ефективност на научно-изследователския процес и административните дейности, осигуряването на безопасност и хигиена на труда на всички служители и работници от Института по биофизика и биомедицинско инженерство - наречени по долу служители, и които се явяват страна по индивидуалното трудово правоотношение. В ПВТР се конкретизират: възникването, изменението и прекратяването на трудовите правоотношения; разпределянето на работното време, почивките и отпуските; правата и задълженията на работодателя; правата и задълженията на служителите; трудовата дисциплина, дисциплинарните нарушения и наказания; заплащането на работниците и служителите; пропускателният режим в сградите със заеманите от ИБФБМИ помещения и други.

Глава първа

Общи положения.

1. Работодател на служителите на ИБФБМИ е Директорът на института. Всички останали служители на ИБФБМИ са представители на наемния труд.
2. В Института не могат да се изпълняват поръчки, обслужващи политическата дейност на партии и движения, сдружения на политическа основа или платена синдикална дейност (офиси).
3. Служителите на Института имат законното право да се обединяват в синдикални организации, които сключват колективен трудов договор с Работодателя. Неразделна част от колективния трудов договор са споразуменията за заплатите в ИБФБМИ, които се договарят периодично. Към колективния трудов договор, по реда упоменат в него, могат да се присъединяват и служители, които не са синдикални членове.

Глава втора

Трудови правоотношения.

I. Възникване и изменение на трудовото правоотношение.

4. Основание за възникване на трудово правоотношение е трудовия договор, сключен в писмена форма между служителя и работодателя. Към заявлението си, отправено към работодателя, желаещият да встъпи в трудово правоотношение прилага:
- лична карта или друг документ за самоличност, който се връща незабавно;
- документ за придобито образование, специалност, квалификация и други; изискващи се за заемането на обявената вакантна длъжност;
- документ удостоверяващ придобития трудов стаж;
- документ за медицински преглед при първоначално постъпване на работа или след преустановяване на трудовата дейност за срок над 3 месеца;
- свидетелство за съдимост.
5. При необходимост работодателят може да изисква и предоставяне на допълнителна информация, свързана с професионалния опит и квалификацията на кандидата за съответната длъжност.
6. Трудовият договор със служителя се сключва в писмена форма, в два екземпляра и се подписва от страните по него. Договорът се изготвя по утвърдения образец и преди подписването му се съгласува с Гл. счетоводител и със Зав. „Човешки ресурси“.
7. В тридневен срок след сключването на всеки договор, работодателят изпраща уведомление за възникнало трудово правоотношение до Националната агенция по приходите (НАП).
8. Екземпляр от двустранно подписания договор и копие от уведомлението, се връчват на служителя срещу подпис при постъпването му на работа. Вторият екземпляр от трудовия договор се съхранява в канцеларията на Института и се прилага към трудовото досие.
9. Служителят е длъжен да постъпи на работа в едноседмичен срок от получаване на документите описани по горе.
10. В случай, че служителят не постъпи на работа в посочения срок, се счита че трудовото правоотношение не е възникнало.
11. Изпълнението на задълженията по трудовия договор започва с постъпването на работа, което се удостоверява в писмен вид.
12. Работодателят и служителят не могат да променят едностранно клаузите на сключения трудов договор.
13. При постигане на взаимно съгласие за изменения в трудовия договор, Директорът изпраща уведомление до НАП в тридневен срок.

14. Прекратяването на трудовия договор се извършва при спазване на разпоредбите на Кодекса на труда.
а) Служителят може едностранно да прекрати трудовото правоотношение с писмено предизвестие отправено до работодателя в едномесечен срок, предхождащ момента на прекратяване.
б) Трудовия договор, сключен със срок за изпитване може да бъде прекратен без предизвестие от страната, в чиято полза е уговорен.
15. Работодателят си запазва правото да сключва трудови договори със срок за изпитване в своя полза, но за период не по-продължителен от една година.

II. Работно време, почивки и отпуски.

16. Нормалната продължителност на работното време през деня в ИБФ е 8 (осем) часа, при пет дневна работна седмица.
17. Работният ден в Института започва в 9 и приключва в 17 часа и 30 мин. Служителите ползват обедна почивка от 30 минути.
18. За работещите при непрекъснат режим на работа – портиери, охрана и т.н. се въвежда работа на смени по предварително утвърден от работодателя месечен график и при сумарно изчисляване на работното време.
19. Работодателят се задължава да спазва официалните празници на Република България.
Работата през дните на официалните празници се компенсира с трудово възнаграждение в удвоен размер.
20. Служителите в ИБФБМИ имат право ежеседмично на два последователни почивни дни – събота и неделя.
21. Оставането след работното време се разрешава, когато е във връзка с възложена задача и след предварително уведомяване на прекия ръководител. Оставане в сградата след 20 часа, а в предпразнични дни след 18 часа се допуска само след предварително разрешение на Директора на Института или на Пом. директора.
22. Извънредният труд в ИБФБМИ е забранен. Полагането на извънреден труд се допуска само по изключение и при наличието на предвидените в Кодекса на труда (КТ) предпоставки.
23. С настоящия Правилник и Колективния трудов договор (КТД) от 2008 г. се определя размерът на основния годишен отпуск за служителите в Института, който е не по-малък от 25 (двадесет и пет) работни дни за съответната календарна година. Правото за придобиване на платен отпуск е наличие на 8 месеца трудов стаж.
24. Академиците и член-кореспондентите на БАН, както и служителите на академична длъжност ползват нормативно уреден допълнителен отпуск. Синдикалните членове съгласно чл. 157 от КТ имат право по реда на глава 5 от КТД да ползват и допълнителен отпуск.
25. Ползването на платения годишен отпуск се осъществява въз основа на писмено заявление от служителя до Директора и след получаване на неговото писмено разрешение се оформя заповед за предоставяне на платен годишен отпуск.
26. Платеният годишен отпуск се ползва наведнъж или на две части като половината от него се ползва задължително през календарната година, за която се отнася, а останалата част до 30 юни на следващата година.
27. Когато служителят след покана от Директора не е поискал отпуската си до края на календарната година, (за която се отнася), Директорът има правото да го предостави без съгласието на служителя.

III. Основни задължения на страните.
Права и задължения на работодателя.

28. Работодателят е длъжен:
- Да осигури на служителя работно място, нормални, безопасни и здравословни условия на труд при изпълнение на неговите трудови задължения;
- Да осигури провеждането на необходимия инструктаж по техника на безопасност при работа в лабораториите;
- В рамките на допустимите разходи да подсигурява служителите с необходимите за извършването на работата им техника, пособия, материали и консумативи;
- Да предостави на всеки служител, срещу подпис при постъпване на работа длъжностна характеристика, утвърдена от него. Екземпляр от длъжностната характеристика се съхранява в личното трудово досие на служителя;
- Да запознае служителите с приетите и утвърдени от него вътрешни документи и правила.
- Да създава условия за повишаване на квалификацията на служителите;
- Периодично и в срок да изплаща дължимите трудови възнаграждения;
- Да осигурява служителите за всички осигурителни социални рискове, при спазване на Кодекса за социалното осигуряване (КСО).
- Да изпълнява задълженията си по Колективния трудов договор и да поддържа конструктивен диалог със синдикалните структури.

29. Работодателят има правото:
- Да изисква от всеки служител точно, добросъвестно и качествено изпълнение на възложените трудови задължения;
- Да дава задължителни за служителите указания и нареждания по изпълнението на задачите и трудовите функции;
- Да налага установените в КТ дисциплинарни наказания;
- Да търси имуществена отговорност за виновно причинените от служителя вреди.
- По собствена инициатива и/или по предложение на ръководителите на секциите, административните и обслужващите звена да награждава с парични награди и определя допълнително материално стимулиране (ДМС) на служителите за добро изпълнение на задълженията и/или извършената работа.

Права и задължения на служителите.

30. Служителите на ИБФ са длъжни:
- Да изпълняват възложената им в съответствие с индивидуалния трудов договор работа в необходимото количество и качество;
- Да изпълняват указанията и нарежданията на Директора, издадени във връзка с трудовите задължения;
- Стриктно да спазват изискванията за безопасни, хигиенни и здравословни условия на труд, да се придържат към технологичните и технически правила и спазват Правилата за противопожарна и аварийна безопасност;
- Да спазват трудовата дисциплина, съобразно установения ред в ИБФ;
- Да съгласуват добронамерено и толерантно, при необходимост работата си с колегите;
- Да проявяват лоялност към Директора и не разпространяват поверителни сведения, да не уронват доброто име и репутацията на Института;

- Да се явяват на работното място в състояние, позволяващо да изпълняват възложената работа и да не употребяват алкохол и други упойващи вещества.
- Да повишават своята професионална квалификация, съобразно изискванията на заеманата длъжност.

31. Служителите в ИБФ имат следните права:
- На трудово възнаграждение, в сроковете и условията, предвидени в индивидуалния трудов договор;
- На социално и здравно осигуряване, в съответствие с действащата нормативна уредба;
- На почивки и отпуски, установени в Глава втора Раздел II от този Правилник и при спазване на КТ.
- На безопасни, хигиенични и здравословни условия на труд;
- На указания и описание на работата, която ще изпълняват в съответствие с длъжностната характеристика;
- Да получават от Директора своевременно достоверна информация по въпроси, непосредствено свързани с трудовите ангажименти.
- Без предварително разрешение, свободно да образуват по свой избор синдикални организации, доброволно да встъпват и да излизат от тях, като се съобразяват само с техните устави (КТ чл.4).

IV. Трудова дисциплина, дисциплинарни нарушения и наказания.

32. Служителите в ИБФБМИ са длъжни да изпълняват поетите от тях трудови задължения и да спазват трудовата дисциплина, регламентирана в КТ, нормативните актове за неговото прилагане и настоящия Правилник;
33. Нарушенията на трудовата дисциплина са:
- Закъснение, преждевременно напускане на работното място, неявяване на работа и не уплътняване на работното време;
- Явяване на работа в състояние, което възпрепятства изпълнението на възложените им задачи;
- Неспазване на правилата за безопасни, хигиенни и здравословни условия на труд;
- Злоупотреба с доверието и уронване доброто име и престиж на Института, както и всяка форма на разпространение на поверителни сведения, отнасящи се до работодателя;
- Увреждане на имуществото на ИБФБМИ, извършване на некачествена работа по вина на служителя и други.
34. Дисциплинарните наказания са:
1. Забележка;
2. Предупреждение за уволнение;
3. Дисциплинарно уволнение.

35. Дисциплинарните наказания се налагат на служителите с мотивирана заповед, издадена от Директора.
36. При определяне на вида на дисциплинарното наказание се вземат предвид тежестта на нарушението, обстоятелствата при които то е извършено и поведението на нарушителя.
37. Преди да се наложи дисциплинарното наказание работодателят е длъжен да изслуша служителя или да приеме писмените му обяснения за случилото се, както и да оцени посочените от него доказателства.

38. Заповедта за дисциплинарното наказание се връчва на служителя срещу подпис, като върху нея се отбелязва датата на връчването.
39. Дисциплинарните наказания, с изключение на дисциплинарното уволнение се считат заличени, ако служителя на когото е наложено наказанието, в течение на 1 година не бъде отново наказан.
40. Уволнените дисциплинарно и самоволно напусналите служители се лишават от ДМС или целеви награди.
41. Наложените дисциплинарни наказания могат да се обжалват по установения ред;
42. Служителят отговаря имуществено за вреда, която е причинил на Института, поради небрежност при или по повод изпълнение на преките си служебни задължения. Размерът на тази отговорност се определя съгласно разпоредбите на действащото трудово законодателство. Когато е невъзможно да се установи персонално виновният служител, колективът поема отговорността за понесените щети, които се възстановяват солидарно от служителите, работещи в същата лаборатория или място, (чл. чл. 207 и 208 от КТ).
43. За нарушаване на правилата за осигуряване на здравословни и безопасни условия на труда служителите, (ако не подлежат на по-тежко наказание) се наказват с глоба в размер от 100 до 500 лв. За повторно нарушение размера на глобата е от 500 до 1000 лв. (чл. 413, ал. 1 и 3 от Кодекса на труда, 2008 г.).
44. Служителят е длъжен в едномесечен срок от влизане в сила на наказателното постановление да плати наложената му имуществена санкция или глоба. В противен случай се дължи лихва в размер на основния лихвен процент на Българската народна банка за просроченото време плюс 20 пункта, (чл. 415а и 415б от КТ).
45. На административна и/или материална санкции подлежат и всички самоволни (и не съгласувани с ръководството и БАН) преустройства (и ремонт) на съществуващите в сградите работни помещения и складове, както и на електрическите, водопроводните и канализационните инсталации в тях.

V. Режим на достъп. Общи разпоредби.

46. Всеки служител има право на свободен достъп до своето работно място в рамките на установеното работно време.
47. Извън работното време служителите имат достъп в Института с разрешение на своя непосредствен ръководител.
48. С прекратяване на трудовото правоотношение служителят придобива статута на външно за ИБФБМИ лице и има право на достъп, при спазване на установения за външни лица пропускателен режим. В сградите на заеманите от ИБФБМИ помещения се води (от дежурния портиер) дневник на посещенията за външни лица. Посетителите се допускат до работните помещения на Института след вписване в дневника на индивидуални данни - трите имена на посетителя по представено удостоверение за самоличност, началния и крайния час на посещението и кого е посетил.
49. Забранява се посещението на външни лица в лабораториите, работилницата и складовите помещения без разрешението на съответния ръководител.
50. Отговорниците за Противопожарна и аварийна безопасност (ПАБ) следят ежедневно противопожарното състояние на работните места и след приключване на работното време изключват всички източници на електрически ток, проверяват изправността на водопроводните кранове и затварят отворените прозорци. Преди напускане на помещението дежурния отговорник за ПАБ се разписва в тетрадката - дневник за противопожарната безопасност.

51. Пожароопасните и токсични материали задължително се съхраняват в предназначените за целта метални шкафове.
52. Изнасянето на апаратури за ремонт и материали извън сградите на Института се извършва с изричното разрешение на Ръководството на института.

Глава трета
Организация и контрол на научно-изследователската и административни дейности.
Основни права и задължения на научните работници и специалисти.

53. Ръководителите на секциите отговарят за правилната организация на научно-изследователския процес, за срочното и качествено изпълнение на задачите в секцията, за правилното използване и съхраняване на предоставената материално-техническа база, за техническата безопасност и охрана на труда на поверения персонал, за подготовката на докторанти, дипломанти и други.
54. Наред с основните си научни и ръководни функции, ръководителите на секциите изпълняват и някои административни функции с помощен характер и отговарят за дисциплината в поверените им научни звена. При отсъствие те посочват свой заместник.
55. Лицата на академична длъжност „Доцент“ и „Професор“ изпълняват научно-организационни функции и полагат грижи за осигуряване на научно ръководство и повишаване квалификацията на ръководения от тях персонал. Те са длъжни да изпълняват, в кръга на своята компетентност и възлаганите им от Директора на Института задачи като рецензии, доклади, участие в комисии, изготвяне на експертни оценки и становища във връзка с общонационални и регионални проблеми, проекти и дейности и други.
56. Всички научни сътрудници и другите служители представят своите заявления, предложения и други до Директора на Института чрез ръководителя на звеното, който е длъжен да им даде незабавно ход и да изрази своето становище.
57. Всеки научен сътрудник е длъжен :
а) Да изпълнява в срок и на високо равнище възложените му научно-изследователски задачи;
б) Да подготвя в срок и качествено своя личен научен план и работната си програма, както и да представя (според изискванията) тримесечни отчети за тяхното изпълнение и извършената научно-изследователска работа от него и предоставените за целта специалисти с висше образование;
в) Да работи за повишаване на своята научна квалификация;
г) Да съхранява в прегледен вид научната си документация;
д) Да участва дейно в цялостната работа на ИБФБМИ;
е) Да изпълнява възложените му от Директора служебни задачи, свързани с общата дейност на Института, за които предварително се уведомява прекия му научен ръководител.
58. Научните сътрудници имат право да използват материалната база на ИБФБМИ съобразно настоящия Правилник и да ползват научно-техническа помощ, която се определя със заповед на Директора след обсъждане на Директорския съвет.
59. Секциите, като цяло и научните сътрудници имат право да установяват и поддържат връзки с институти и учреждения у нас и в чужбина по установения официален ред. Включването в съвместни задачи и образуването на колективи в рамките на Института се осъществява със знанието на ръководителите на научните звена и Ръководството на Института.

60. *Без знанието и съгласието на Директора на Института, научните сътрудници и другите служители на ИБФБМИ не могат да поемат ангажименти към други институти, учреждения или отделни лица, изпълнението на които отнема служебно време или средства на Института*.
61. Научните работници или отделните звена в ИБФБМИ могат да сключват договори чрез Ръководството на Института с министерства, ведомства, съвети, предприятия и др. за разработване на научни задачи, за усъвършенстване на производствени технологии, за научно или производствено експериментиране, за предоставяне на научни консултации, извършване на експертизи и други. *Изготвените експертни оценки и становища във връзка с общонационални и регионални проблеми, проекти и дейности у нас подлежат задължително на одобрение от НС и съгласуване с Ръководството на БАН.*
62. Внедряването на научните резултати от разработки, завършени в ИБФ или с неговото съдействие, се урежда съгласно Закона за патентите, Закона за задълженията и договорите и съответните постановления на Министерски съвет, след одобряване от Директорския съвет.
63. ИБФБМИ и отделни негови служители могат да сключват договори с юридически и физически лица за изпълнение на изследователска, сервизна и експертна дейност при спазване на на "Правилника за сключване на договори за научно-приложни проекти/задачи от постоянните научни звена на бан с външни възложители" от 08.12.2008 г., „Правилника за осъществяване на стопанската дейност в Българската академия на науките и нейните самостоятелни звена“ от 22.06.2009 г., „Правилника за регистриране, закрила и използване на обектите на интелектуална собственост в Българска академия на науките“ от 22.06.2009 г., изискванията на Кодекса на труда (чл. 111, чл. 112, чл. 113), както и на „Правилника за правата и задълженията на служителите по договори с външни възложители, в които страна са ИБФБМИ или негови служители, и за предотвратяване на конфликт на интереси между ИБФБМИ и негови служители при участието им в такива договори“.
64. Специалистите, лаборантите и другите помощници са длъжни в течение на работното време да извършват помощната и техническа работа по изпълнение на задачите, определени им от съответния ръководител.
65. Административното, финансовото и обслужващото звена в ИБФ имат за задача да създават необходимите условия за правилното провеждане на научно-изследователската работа, посредством целесъобразното изразходване на бюджетните средства, навременното снабдяване с необходимата апаратура и материали, обезпечаването и спазването на реда и трудовата дисциплина, осигуряването на безопасни и хигиенни условия на работа и други.
66. Помощник директорът е пряко подчинен на Директора на ИБФБМИ и помага при ръководството на административно-стопанската дейност. Той отговаря заедно с Директора за състоянието на капиталното строителство, материално-техническото снабдяване, обзавеждането, реда и дисциплината в Института, за складовата база и др. Съобразно с това същият изпълнява и следните ръководни и контролни дейности: Подготвя заповеди и нареждания за подобряване организацията и дейността на административната и стопанска дейност на Института; Контролира дейността на материално отговорните лица и следи за правилното съхраняване и използване на имуществата на ИБФБМИ и материалните ценности; Контролира редовното и навременно извършване и правилно водене на съответните книги и дела в деловодството; Организира и контролира дейността във връзка с поддържането на чистотата в кабинетите, лабораториите и останалите помещения; Контролира спазването на работното време; Отговаря за материално-техническото снабдяване,

ръководи и организира заявките и закупуването на химикали, стъклария, апаратура и други.

67. Финансовата дейност се осъществява от Директора на Института, Главния счетоводител и финансово-счетоводната служба:

а) Главният счетоводител ръководи Финансово-счетоводната служба на ИБФБМИ и носи отговорност по всички въпроси, свързани с финансово бюджетната дейност на Института;

б) Гл. счетоводител провежда финансовата дейност на ИБФБМИ в съответствие със съществуващите законови разпоредби, дава мнения и следи за законосъобразността на издаваните заповеди и всички останали въпроси, по които възникват финансови ангажименти на Института, съобразно със Закона за счетоводство.

в) Разпорежданията на Главния счетоводител за правилното и своевременно оформяне на операциите и представянето в счетоводството на необходимите документи и сведения са задължителни за всички служители в ИБФБМИ.

68. Касиерът на Института извършва всички плащания, превежда заплатите на служителите въз основа на изготвената от него ведомост, като ги снабдява с платежни бележки, изплаща сумите, необходими за командировки, набавяне на материали и други.

69. Редът за създаване, водене и съхранение на документи в ИБФБМИ се ръководи от Постоянно действаща експертна комисия за управление на институтския документооборот и архив. Съставът на комисията се назначава от Директора и включва: зам. директор, научния секретар, представител на счетоводството, помощник директора, завеждащия „човешки ресурси“ и организатор в деловодството. Комисията определя поименно лица, отговорни конкретно за:

а) Организиране и водене на общия архив на Института;

б) Получаване на входящата кореспонденция на ИБФБМИ, която след регистрация и преглед се докладва на Директора на Института и се отправя по предназначение;

в) Експедирана на изходящата кореспонденция;

г) Класиране на документите и преписките в делата по установената номенклатура;

д) Изработване на справки и издаване на удостоверения, снемане на преписи по материали, намиращи се в архива на канцеларията на ИБФБМИ;

е) Картотекиране на постановленията на Министерски съвет, както и на разпоредбите на Ръководството на БАН, получени в Института и информиране на Ръководството на ИБФБМИ за срочното изпълнение на задачите, възложени с подобни документи;

ж) Организиране извършването на експертиза (по листа) на материалите, съхранявани в архива.

70. Завеждащият „Човешки ресурси“ ръководи деловодството и архивата на ИБФБМИ като изпълнява следните задачи: Организира и води общия архив на Института; Получава входящата кореспонденция на ИБФ, която след регистрация и преглед докладва на Директора на Института и я отправя по предназначение; Експедира изходящата кореспонденция; Класира документите и преписките в делата по установената номенклатура; Прави справки и издава удостоверения, снема преписи и други по материали, които се намират в архива на канцеларията на ИБФБМИ; Картотекира разпоредбите и постановленията на Министерски съвет и на Ръководството на БАН, получени в Института и информира ръководството за срочното изпълнение на задачите, възложени с подобни документи; Организира извършването на експертиза на материалите, съхранявани в архива по страници.

71. Зав. личен състав води личните дела на служителите в Института и е длъжен при постъпване на работа да изисква и проучва своевременно всички необходими документи.

72. Куриерът получава и разнася кореспонденцията от и за Института и Централно управление на БАН, изпраща и получава пощенските и колетните пратки на ИБФ за страната и чужбина, води книга, документираща предаването на кореспонденцията и други.
73. Отговорниците по Безопасност и хигиена на труда, Противопожарна и аварийна безопасност и за Газовите бутилки под налягане спазват стриктно Кодекса на труда (чл. чл. 275 и 281), Наредба № 3 / 1996г., (ДВ бр. 44 / 96г.), действащите нормативни актове и разпоредбите на ЦУ на БАН и Директора на ИБФБМИ.
74. Ръководството на ИБФБМИ следи: За правилната организация на труда на служителите така, че всеки да работи по своята специалност и квалификация и да уплътнява работното време; Да осигури изправното състояние на различните видове апарати, съоръжения, машини и инструменти; За получаването (при необходимост) на специално работно облекло, както и да осигурява необходимите санитарни условия и други.
75. Директорът на Института организира приемно време и час през седмицата, в които да изслушва молбите, жалбите и сигналите на служителите, както и да взима мерки за тяхното бързо решаване, в съответствие с действащите нормативни актове и разпоредби.
76. На учените и специалистите-изследователи се разрешава да ползват до два полудни в седмицата за преглед на литературата в библиотеката или лабораторията. При необходимост времето за литературни справки може да се удължи по преценка на съответния ръководител.
77. Посещението на групи с цел запознаване с устройството и работата на ИБФ става след предварително договаряне с Директора, Зам. директора/и/ или Научния секретар на ИБФБМИ.
78. Допускането на лица от други научни звена в помещенията на ИБФБМИ, с цел използване на уреди, устройства, материали и други на Института, се урежда само по официален път и с разрешение на Ръководството. Същото се отнася до приемане на студенти - практиканти и дипломанти.
79. Научните, ръководните, административните и научно-техническите работници могат да получават ДМС, в съответствие със законовите разпоредби, за постигнати успехи по изпълнението на темите и задачите, както и за постижения в развитието на науката и техническия прогрес.
90. Ръководството на ИБФБМИ поощрява с награди и отличия служителите за съзнателно и примерно изпълнение на служебните задължения, за продължителна и безупречна работа или за други постижения.
91. Определят се следните награди и отличия за добросъвестно изпълнение на служебните задължения:
а) Обявяване на благодарност;
б) Парични суми или поименни подаръци;
в) За по-значителни научни постижения Ръководството на Института прави предложения по установения ред за удостояване с ведомствени и държавни награди.
92. Ръководството и синдикалните организации съдействат при организирането на честване на служители за продължителна работа в ИБФБМИ, навършване на определена възраст и други.

Глава четвърта
Кадри.

93. Кадровият състав на ИБФБМИ включва назначените съгласно утвърдения щат ръководни кадри, учени на академична длъжност, специалисти, научно-помощен, административен и друг персонал.
94. Ръководните кадри се избират и назначават съгласно Устава на БАН. Учените на академична длъжност се избират и назначават по реда, предвиден в Закона за научните степени и научните звания, нормативните актове за неговото прилагане и в съответствие с приетите от НС на ИБФБМИ критерии. Останалият персонал се назначава в съответствие с изискванията на Кодекса на труда и длъжностните характеристики.
95. Академичният състав и специалистите-изследователи се атестират периодично в съответствие с приетите в БАН изисквания. Атестирането се извършва съгласно „Правилата за атестиране на служителите в ИБФБМИ“ от Атестационна комисия, избрана от НС на ИБФБМИ в съответствие с утвърдените от НС Атестационна карта.
96. При необходимост в разработването на отделни научни задачи могат да се привличат с договор като извънщатни сътрудници високо квалифицирани учени и специалисти от външни организации, неработещи и пенсионери, (при спазването на условията и реда, предвидени в действащите нормативни актове).

Глава седма
Финансиране и материална база на института.

97. Научно-изследователската дейност на ИБФБМИ се финансира от бюджета и други източници. Въз основа на утвърдения бюджет се открива финансирането на Института.
98. За изпълнение на научните задачи Институтът може да сключва договори с външни възложители: министерства, ведомства, стопански организации, фондове и други.
99. Средствата от бюджета на ИБФБМИ се изразходват за:
а) Работни заплати;
б) Финансиране на научно-изследователската (и издателската) дейности;
в) Подготовка на кадри;
г) Развитие и поддържане на материално-техническата база.
100. Работните заплати в ИБФБМИ се формират на базата на Закона за бюджета на Република България, Бюджета на БАН, Постановленията на МС за заплатите в бюджетната сфера, Споразуменията за заплатите в БАН между Ръководството на БАН и академичните синдикати, както и с отчитане на Вътрешните правила за определяне на индивидуалните работни заплати.
101. Договарянето на заплатите в ИБФБМИ се извършва индивидуално и колективно. Колективното договаряне се извършва по начин, определен в Колективния трудов договор и Споразуменията за работните заплати между Ръководството на ИБФБМИ и синдикалните организации и се разглежда в специално назначена Комисия, ръководена от Зам. директор на ИБФБМИ.
102. Материалната база на ИБФБМИ включва: работни и помощни помещения, съоръжения, научно-изследователска апаратура, лабораторно и канцеларско оборудване и инвентар, стъклария, химикали и други.
103. Работните места на научните сътрудници, научно-помощния и административен персонал и другите служители се намират в кабинети, лаборатории, канцеларии и други помещения, определени със заповед на Директора на Института.
104. По отношение на инвентарното имущество на ИБФБМИ се прилага принципът на общо ползване, съчетан с принципа на личната отговорност на ръководителя или ползващия инвентара. За всяко помещение или група помещения, със заповед на Директора и след съгласуване със съответния ръководител, се назначава материално-отговорно лице.

105. Някои по-скъпоструващи или за специални нужди апарати се зачисляват пряко на лицата, които най-често работят с тях. Използването им от други служители става по споразумение и при наблюдение от съответния отговорник.
106. Ползването на общите лаборатории и съоръжения, както и на апарати в тематичните лаборатории става след предварително договаряне със съответния отговорник и при строго спазване на определения ред. Никой отговорник не може да откаже ползването на общо помещение или на стандартна апаратура, освен ако съществува опасност от повреди поради недостатъчен професионален опит или по други причини. При всички спорни случаи въпросът се отнася до Ръководството на Института.
107. Лицата, на които са поверени апарати или съоръжения, поемат задължението да следят за тяхното опазване и поддържане в изправност, като същевременно организират и доставката на необходимите резервни части. Същите се задължават да изготвят писмени указания и да дават консултации за работа с по-сложните апарати. Към всеки такъв апарат се завежда отделна тетрадка - дневник, в която се записват ползващите го лица и времето на ползване.
108. Прехвърлянето на зачислените инвентарни предмети от едно отговорно лице на друго става само чрез счетоводството.
109. Инвентарни предмети не могат да се пренасят от едно помещение в друго без знанието на съответното материално-отговорно лице. Изнасянето на инвентарни предмети, материали и други извън ИБФБМИ става само с разрешение на ръководството на Института.
110. Инвентаризациите се извършват един път на всеки две години за всички материални и нематериални дълготрайни активи и не по-рядко от веднъж годишно за останалите активи и пасиви във връзка със съставянето на годишните счетоводни отчети. Инвентаризации се извършват задължително и при смяната на материално – отговорното лице, по искане на съда, прокуратурата и Сметната палата, както и по инициатива на ръководителя на Института.
111. Дълг на всички служители е да избягват всяко разточителство или похабяване на материали (химикали и други консумативи), както и да полагат постоянни грижи за икономии, опазване и най-ефективно използване на институтското имущество.
112. Всички служители са задължени да се запознаят с противопожарните мерки и средства и да изпълняват разпорежданията на Противопожарната служба. При напускане на работа всеки, който излиза последен от помещението, е длъжен да затвори прозорците, да провери внимателно водопроводните кранове и електрическите уреди, като при възможност изключи електрическото табло. Проверката е задължителна и след спиране на електрическия ток и на водата.
113. Наложителни са постоянни и строги икономии по отношение на изразходването на електроенергия, вода, телефонните разговори и други. На служителите ползващи телефонен пост, който е надхвърлил определения от ръководството лимит се удържат от трудовото им възнаграждение допълнително направените разходи.
114. За всякаква повреда или липса на институтско имущество ръководителят на секцията съобщава не по-късно от 24 часа след като е било забелязано. За по-големите щети се съставя протокол.
115. При изпълнението на възложената му работа, всеки служител отговаря за причинените от него (поради небрежност) щети материално и в размер на (действително) причинените вреди, но не по-голям от една трета от месечното му възнаграждение. Щетите се констатират в едногодишен срок от причиняването им. Изплащането се извършва чрез удръжки от заплатата, които започват 30 дни след като виновното лице бъде уведомено.

116. Преди издаването на заповед за извършване на удръжки, Комисия в състав от трима членове: Гл. счетоводител и учени или специалисти, установява дали нанесената щета се дължи на допусната небрежност или поради естеството на работата, поради което може да бъде отнесена към категорията на допустимия и неизбежен производствен риск. Комисията определя, според конкретните обстоятелства, размера на подлежащите на възмездяване щети.
117. Всички въпроси от финансово-административен характер, свързани с ремонтни работи се отнасят до Главния счетоводител и се съгласуват с Пом. директора на Института.
118. Въпроси свързани със заявки и други, от или във връзка с материалното снабдяване и поддържане на оборудването и инвентара, се представят в писмена форма до Пом. директора. Исканията трябва да са точно и добре мотивирани. Без посоченото съгласуване, всички поръчки, пряко възложени на майстора-конструктор, куриера или други служители, не се изпълняват, освен в случаи на аварии.
119. Строго забранено е преустройството на съществуващите електрически инсталации без разрешение от ОА на БАН или Ръководството на Института.
120. Ремонтът на машини, апарати и съоръжения се извършва с разрешение на Ръководството и след като бъдат взети всички необходими мерки за противопожарна безопасност.

Глава осма
Капитално строителство.

121. В съответствие с установения в БАН ред, ИБФБМИ предварително представя пред БАН - ОА най-неотложните си потребности от средства за научно оборудване и основни ремонти през следващата календарна година, с оглед тяхното планиране при изготвянето на новия проектобюджет на Академията.
122. Институтът изготвя изходните данни, необходими за проектирането на обектите (технологическите схеми), изготвя проектите, плановите задания и технико-икономическите условия и ги представя в БАН - ОА за окончателното разработване, утвърждаване, финансиране и осъществяването на инвеститорския процес.
123. Доставката на машини и съоръжения чрез внос или местно производство, както и доставката на суровини и материали, се извършва по установения за страната и БАН ред и при спазване на ЗОП и „Вътрешните правила за провеждане на процедури по възлагане на обществени поръчки в ИБФБМИ при БАН“.
124. За доставка на машини и съоръжения по реда на взаимната размяна с академии и други чуждестранни организации, Институтът представя пред БАН заявки-спецификации, заедно с подробни обосновки и с необходимите технически и други данни. Заплащането на разходите по тези доставки са в зависимост от вида и стойността и се извършват съгласно указанията на Ръководството на БАН.
125. С икономии от бюджетни средства (без тези от фонд “Работна заплата”) и с остатъци от постъпления от сключени и изпълнени договори ИБФБМИ може да закупува апарати, уреди, машини, материали, литература и други.

Заключителни разпоредби.

126. За неуредените с този Правилник и останалите вътрешни за ИБФБМИ актове на ИБФБМИ въпроси се прилагат разпоредбите на Кодекса на труда и действащото у нас трудово законодателство.

127. Настоящият Правилник за вътрешния трудов ред на Института по биофизика и биомедицинско инженерство (ПВТР) е изготвен на основание Закона и Устава на БАН, Кодекса на труда и други нормативни документи, отнасящи се до работата на БАН и нейните поделения, съгласуван със Синдикалната организация "Биофизика" при браншовия синдикат "Висше образование и наука" - КНСБ през 2010 г. и в настоящия му вид е актуализиран от Общото събрание на учените на 19 юни 2014 г.
128. Изменения и допълнения в този Правилник се правят по реда на неговото приемане или предвиденото в чл.36, ал.1 от Устава на БАН.

129. Екземпляр от Правилника за вътрешния ред се намира в канцеларията на ИБФБМИ и е публикуван на сайта на Института.

УТВЪРЖДАВАМ
ДИРЕКТОР:
чл.кор. А. Косев

12. Списък на използваните в отчета и приложенията към него съкращения

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