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 МИКРОБИОЛОГИЯ

“СТЕФАН АНГЕЛОВ”

ДИРЕКТОР:

/проф. д-р Христо Найденски, двмн/

О Т Ч Е Т

за работата на

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ПРОБЛЕМАТИКА НА ЗВЕНАТА

1.1. Преглед на изпълнението на стратегическите и оперативни цели и оценка на постигнатите резултати в съответствие с мисията и приоритетите на ИМикБ

Институтът по микробиология „Стефан Ангелов” при Българската академия на науките е национален изследователски център по микробиологични науки, асоцииран към Институт Пастьор, Париж и член на Международната мрежа на Пастьоровите институти с водещо място в Балканския регион. Основната мисия, която ИМикБ изпълнява е да провежда научни изследвания за и решаването на конкретни проблеми в областта на здравеопазването, хранителната и фармацевтичната индустрия, биотехнологиите, в това число алтернативните енергийни източници и опазването на околната среда. Основен принцип в тази дейност е подготовката и изпълнението на научноизследователски проекти. Разполагайки с висококвалифицирани кадри и компетентни учени, в Института се изготвят експертни програми и становища за целите на държавните институции, отнасящи се до здравеопазването и националната сигурност. Оценката от анализа за изпълнението на поставените цели в съответствие с посочената мисия е, че отговорността, значението и задачите на Института да провежда на високо научно ниво фундаментални и приложни изследвания в областта на общата, инфекциозната и приложната микробиология, вирусологията и имунологията се запазва, независимо от поредната трудна във финансово отношение година. Научните изследвания и иновациите, разработени в Института, са основа за икономически и социален напредък и се вписват в концепциите за устойчиво развитие на нашето общество. Институтът по микробиология „Стефан Ангелов” през 2012 г. отбеляза 65-годишнината от своето основаване. През всичките тези години научното развитие на ИМикБ се е определяло на базата на адекватни научни приоритети, за които са влагани финансови ресурси и човешки потенциал. Прегледът на цялостната научноизследователската дейност в Института показва, че през 2012 г., независимо от постоянния дефицит на средства за работни заплати и консумативи /електроенергия, отопление, вода и др./, колективите на структурните единици в Института отговорно изпълняваха задачите си. Те успяха да запазят своята цялост и интегритет, независимо от трудните условия за работа поради необходимостта да се ползват голям брой дни в неплатен отпуск /средно 30/ и постигнаха добри резултати в изследователски

направления, които са в пряко съответствие с националните и международни приоритети.

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

Научноизследователската дейност в ИМикБ се вписва в следните основни научни политики и програми от “Стратегическите насоки и приоритети на БАН” за периода 2009-2013.

Политика 1: Науката – основна двигателна сила за развитие на националната икономика и общество, базирани на знания (Програма 1.3. Конкурентноспособност на българската икономика и на научния иновационен капацитет; Програма 1.6: Качествено и конкурентноспособно обучение).

Политика 2: Научен потенциал и изследователска инфраструктура – част от Европейското изследователско пространство (Програма 2.1: Технологично развитие и иновации; Програма 2.3: Качество на живота и интердисциплинарни изследвания на човека и живата природа, Програма 2.6: Енергийни източници и енергийна ефективност).

В съответствие с проведената през 2010 г. реформа в БАН и приетите от Общото събрание тематични направления, ИМикБ е част от направлението „Биомедицина и качество на живота”. В същото време, той провежда изследвания, които имат връзка с направленията „Биоразнообразие, биоресурси и екология” и „Нанонауки, нови материали и технологии”.

Посочените приоритети съвпадат и/или се включват основно в един от общонационалните приоритети за развитие на науката до 2020 г., а именно „Здраве и качество на живота, биотехнологии и екологично чисти храни”. В Института се работи и по теми към приоритетите „Енергия, енергийна ефективност и транспорт” „Развитие на зелени и еко-технологии” и „Нови материали и технологии”. ИМикБ е търсен партньор в тематики от приоритета „Културно историческо наследство”. Изследователските ни направления са в съответствие с четири от тематичните области за сътрудничество на Седма рамкова програма (2007 – 2013) – „Здраве”, „Храни, селско стопанство и биотехнологии”, „Нанонауки, нанотехнологии, материали и

прозводствени технологии", „Околна среда, включително промени в климата". Разработки има и в областта „Енергетика".

1.3. Извършвани дейности във връзка с точка 1.2.

Дейности в изследователски направления, свързани със здравеопазването

От първостепенно значение за повишаване качеството на научноизследователската дейност в различните изследователски направления на Института са дейностите, свързани с въвеждане на съвременни методи и подходи при проучванията в областта на геномиката, транскриптомиката, протеомиката и метаболомиката с цел по-пълното разкриване на молекулните механизми на ключови биологични процеси и тяхното целево използване в медицината, индустрията, селското стопанство и др. Важен момент за бъдещето развитие на Института е и подготовката на перспективни млади учени, които са част от интелектуалния потенциал на България в областта на микробиологията.

Провеждани са дейности, свързани с изследвания на перспективни за фармацевтичната индустрия и клиничната практика продукти на химически синтез и природни продукти за откриване и разработване на нови антивирусни средства (химиотерапевтици и модификатори на биологичния отговор); контрол на резистентността към противогрипни химиотерапевтици; диагностика и епидемиологичен контрол на папиломавирусни инфекции; туморогенни и онколитични вируси; Балканската ендемична нефропатия; туберкулоза – молекулярна епидемиология на лекарствено устойчиви щамове на *Mycobacterium tuberculosis;* бактериални зоонози; бактериална вирулентност; нови антивирусни и антимикробни агенти, включително и фотодинамична инактивация; нови подходи за бактериологичен контрол на хранителните продукти; вагинални лактобацили; резистентност към антиинфекциозни средства; механизми на автоимунните заболявания; нови имуномодулатори; сепсис, артрит и ревматоид при хората; съвременни подходи за създаване на нова генерация ваксини; технология за производство на галантанамин (нивалин) и др.

Дейности в изследователски направления, свързани с обща и приложна микробиология и микробна екология:

Изследванията са провеждани във връзка с молекулярната таксономия и генетика на микроорганизми с биотехнологично и медицинско значение, структурно-функционални характеристики на надклетъчни бактериални съобщества (биофилми) и на взаимодействия между про- и еукариоти, регулаторни механизми на микробния метаболизъм, клетъчен отговор срещу физиологичен стрес и механизми на адаптация при бактерии и гъби, физиология и генетика на млечно-киселите бактерии с традиционно приложение и като продуценти на биологично активни пептиди, биосърфактанти – биосинтез, механизъм на действие и приложение, нови антибиотици от микроорганизми, микробен биосинтез на биологично активни вещества – ензими, аминокиселини, растежни фактори и други, микробна трансформация на стероидни съединения, екологични биотехнологии, очистване на води и почви от тежки метали, микробно разграждане на ароматни съединения, анаеробно разграждане на органични отпадъци с получаване на биогаз (получаване на биогаз), биосинтез на биологично-активни съединения от растителни суспенсионни култури, биоразнообразие, екология и биотехнологичен потенциал на екстремофилни микроорганизми и др.

Всички извършвани дейности са насочени към непрекъснатото усъвършенстване и разкриване на нови възможности за модернизация на научните изследвания в съответствие със стремежа ни за достигане на високите международни стандарти за наука в европейската научна общност. Целевата група, към която са насочени извършваните дейности във връзка с т. 1.2. е българското общество. Организационните структури, участващи в извършването и предоставянето на резултатите по съответните програми от приетите приоритети са департаменти, секции, лаборатории, центрове и помощни звена в съответствие със структурата на Института.

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

Всички извършвани дейности са насочени към непрекъснатото усъвършенстване и разкриване на нови възможности за модернизация на научните изследвания в съответствие със стремежа ни за достигане на високите международни стандарти за наука в европейската научна общност. За България научните изследвания и иновации са решаващ фактор за икономически и социален напредък.

Затова, за да постигнем устойчиво развитие през следващите години, ще продължи работата по надграждане на научноизследователската работа за

модернизиране и развитие на медицинските изследвания в изследователските направления и дейности, приоритетно свързани със здравеопазването на хора и животни, изучаване природата на микроорганизмите – бактерии, вируси и мицети; проучване ролята на микроорганизмите в патогенезата на социално значими инфекциозни заболявания, разработване на средства за борба с тях, както и за лечение на автоимунни заболявания; разработване на методи, лабораторни модели и технологии за получаване на биологично-активни вещества за приложение в медицината, хранително-вкусовата и фармацевтичната индустрия, разработване на биотехнологии за получаване на "чиста" енергия и биогорива и др.

Така, чрез извършваните дейности ще осигурим условия за доразвиване и надграждане на натрупаното от изследователския колектив познание. Разработването на отделните задачи, извършвани от ИМикБ помага да се намерят решения и произтичащото от това развитие на посочените в т. 1.3. научноизследователски и иновационни дейности. Това е начин за решаване на съществуващи обществено значими проблеми и ползата за обществото е чрез преодоляване на сериозните предизвикателства на нашата съвременност да се постигне икономически и социален просперитет.

В областта на общата микробиология получените резултати могат да намерят пряко приложение при създаване на иновативни технологии за производство на нови лекарствени форми; изследванията по млечно-кисели бактерии - при производство на млечни продукти с пробиотична и антигъбна активност; разработките в областта на микробното разграждане на токсични ароматни замърсители подпомага създаването на съвременни и по-евтини биотехнологии за очистване и опазване на околната среда.

В областта на вирусологията се откриват и разработват нови антивирусни средства (химиотерапевтици и модификатори на биологичния отговор), перспективни за фармацевтичната индустрия и клиничната практика; контрол на резистентността към противогрипни химиотерапевтици; диагностика и епидемиологичен контрол на папиломавирусни инфекции, причинители на злокачествени заболявания в гинекологичната практика и др.

В областта на имунологията се разработват нови подходи за ваксинопрофилактика и лечение на социално значими заболявания като артрит и сепсис, и се търсят нови вещества с имуномодулиращи свойства. Резултатите са от значение за клиничната практика за постигане на висок имунизационен ефект и обхват,

както и за повишаване качеството на живот при автоимунни и възпалителни заболявания и за снижаване на икономическите разходи при тези заболявания.

В областта на инфекциозната микробиология са разработени съвременни и бързи методи за диагностициране на туберкулоза, причинена от лекарствено резистентни щамове *Micobacterium tuberculosis*, за доказване на хранителни патогени в мляко, месо и техните продукти, за определяне ролята на мигриращите птици в разпространението на важни за обществото хранителни зоонози, намиране на нови противотуберкулозни средства, както и средства за борба с други инфекциозни заболявания със синтетичен или природен произход, включително и такива с фотодинамичен ефект. Получените резултати имат не само висока научна стойност, но и конкретни и значими социални и икономически измерения, след въвеждането им за прилагане в областите здравеопазване, контрол на храните и фармацевтичната индустрия.

Разработваните технологии в областта на приложните биотехнологии са директно свързани с решаването на екологичните проблеми на обществото: съхранение на застрашени от изчезване растителни видове; получаване на биологично активни вещества с потенциал за медицинско приложение (галантамин, иридоидни гликозиди, глюкоманан), приложение в хранително вкусовата промишленост (антиоксиданти и антимикробни препарати), както и заместители на синтетични компоненти в козметичната промишленост (дрождеви екзополизахарид и тритерпенови киселини), получаване на биогорива от отпадъци.

В областта на математическото моделиране**,** разработените нови алгоритми за мониторинг, оптимизация и управление на процесите на анаеробно разграждане на органични отпадъци могат да доведат до увеличаването на добивите на биогаз и подобряване устойчивостта на процесите. Това ще подобри икономическата ефективност на биогазовите инсталации, които започват да се строят у нас в резултат на новите цени за възобновяеми електрически източници (в сила от 1.07.2011 г.).

Тематиката на секция „Микология” е свързана с две от основните направления в БАН – „Биомедицина и качество на живот” и „Биоразнообразие, биоресурси и екология”. Разработва се лабораторна технология за получаване на нов температурно-чувствителен антиоксидантен ензим (супероксид дисмутаза, СОД), който може да се използва в медицината, козметичната и фармацефтичната индустрия. Особено значение има неговото приложение в криохирургията, при трансплантацията на органи и тъкани,

при криосъхранение на клетки, при *in vitro* оплождането, за подобряване фертилитета на полови клетки и др.

Основен акцент в научната проблематика на „Лабораторен център Пастьор“ през изминалата 2012 г. бе провеждането на молекулярно-вирусологично проучване на проби от пациенти с Балканска ендемична нефропатия за наличие на човешки папиломни вируси и човешки полиомни вируси. Бяха изследвани 200 проби чрез методите на конвенционалната полимеразно верижна реакция (ПВР) и ПВР в реално време.

Регулярно са осъществявани административни контакти с Инситут Пастьор – Париж от дирекцията на ИМикБ.

1.5. Взаимоотношения с институции

Взаимодействието с научни институции, университети, министерства, ведомства, фирми и др. се изразяват в: партньорство в научноизследователската работа, съдействие на държавни управленски структури чрез експертна дейност, преподавателска дейност във висши училища, в курсове на общопрактикуващи лекари и др.

Традиционно и успешно е партньорството ни с Медицински университет – София-Център по молекулна медицина, Катедра по медицинска генетика, Национален геномен център; Стоматологичен факултет; Медицински университет – Варна; Болнични заведения - Болница Токуда, Майчин Дом, Военномедицинска академия; Национален онкологичен център, Болница „Царица Йоанна/ИСУЛ”, Александровска болница, Очна клиника „Зрение”; Национален център по заразни и паразитни болести; Национален диагностичен научноизследователски ветеринарномедицински институт; Българска агенция за безопасност на храните (БАБХ), различни звена към Министерство на здравеопазването, Министерство на земеделието и храните, Ветеринарномедицински факултет към Тракийския университет – Стара Загора; Софийски университет „Св. Климент Охридски”- Биологически факултет ,Химически факултет, Физически факултет, Военномедицинска академия; Селскостопанска академия, Югозападен университет – Благоевград, Пловдивски университет „Паисий Хилендарски”, Университет по хранителни технологии – Пловдив, Аграрен университет – Пловдив, Химикотехнологичен и металургичен университет – София, Бургаски университет „Асен Златаров”, различни фирми- „LB Bulgaricum ЕАД” – София, „Боди Д – Добри Добрев” – Пловдив, „Живас ООД” – София, „Solvey Sody Ltd”

– Девня, “Echopharma Ltd” – София, Олинеза ООД – Пловдив, Филипов, И.С. ООД., Bulgarian Green House Association, Алдагод ООД. Ползотворни са връзките на Института и с други звена от БАН: Институт по органична химия с Център по фитохимия, Институт по биология и имунология на размножаването, Институт по молекулярна биология „Акад. Румен Цанев”, Институт по невробиология, Институт по инженерна химия, Институт по полимери, Институт по физика на твърдото тяло, Институт по биофизика и биомедицинско инженерство.

1.6 ОБЩОНАЦИНАЛНИ 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/

ИМикБ не получава субсидия за практически дейности по смисъла на горната точка. Независимо от това обаче участва с висококвалифицирани специалисти като експерти към следните министерства и ведомства:

- Министерство на външните работи - експерти по бактериология и вирусология към Дирекция “НАТО и международна сигурност” по Конвенцията за забрана на разработването, производството и натрупването на запаси от бактериологични (биологични) и токсични оръжия и за тяхното унищожаване. Те участват с анализи и оценка на системата за биологична защита и потенциалния риск за населението в кризисни ситуации.
- Министерство на здравеопазването – участие с експерти в разработването и обсъждането на стратегията на МЗ за борбата с инфекциозните заболявания в Експертния съвет по епидемиологичен надзор на заразните болести, имуно-профилактиката и противоепидемичния контрол, в Експертния съвет по борба с вътреболничните инфекции и в Националния съвет за контрол върху безопасното лабораторно съхранение на дивите полиовируси; Активна дейност за информиране на населението за борба с вирусните заболявания чрез медиите.

- Министерство на образованието, младежта и науката – участие в програмата „Развитие на човешките ресурси” към Европейския социален фонд. Готовност за участие с експерти към комисиите на Фонда за научни изследвания.
- Министерство на околната среда и водите – експертно участие в Консултативната комисия по генно модифицирани организми.
- Министерство на земеделието и храните – участие в Комисията за етика приработа с животните към БАБХ; участие в Експертния съвет по кнотрол на храни към ЦОР при БАБХ..
- Институт по стандартизация – експертно участие в Техническа комисия ТК 15 „Опазване на околната среда”.

1.6.2. Проекти, свързани с общонационални и оперативни дейности, обслужващи държавата и обществото, финансирани от държавни институции, програми, националната индустрия и др. - няма

2. РЕЗУЛТАТИ ОТ НАУЧНАТА ДЕЙНОСТ ПРЕЗ 2012 Г.

Обезпечаването на научноизследователските и научноприложни разработки бе единствено на принципа на проектното финансиране. За поредна година обаче голяма част от проектите бяха необосновано предоговорирани с редуциран бюджет. Поради финансови причини, които бяха извън Института, на човешкия ресурс на Института не бе осигурена спокойна среда за провеждане на научните изследвания. Независимо от това бяха постигнати значими резултати. Част от тях могат да се формулират като постижения и ние предлагаме следните:

2.1. Научно постижение

Ревматоидният артрит е една от основните причини за трайна нетрудоспособност при възрастните, водеща до влошаване качеството на живот на пациентите и до високи икономически загуби. Доказано е, че отстраняването на пропердина (един от компонентите на системата на комплемента) предизвиква намаляване продукцията на редица възпалителни медиатори в ставите. Това води до забавяне разрушаването на хрущяла и хронифицирането на възпалителния отговор. При пропердин-дефицитни мишки се установява намалена ставна деструкция в резултат на подтискане на процесите на остеокластогенеза. Резултатите разкриват нови

аспекти в патогенезата на артритните заболявания на клетъчно и молекулно ниво, които са важни за разработването на високо ефективни и насочени терапии за лечение на артрозите. (Ръководител: проф. Н. Ивановска)

2.2. Научно- приложни постижения

Разработена е лабораторна биотехнология за анаеробна биодеградация на лигно-целулозни селскостопански отпадъци в смес с отпадни плодове и зеленчуци за получаване на биогаз, която е проверена с пилотна биогазова инсталация. Биотехнологията гарантира устойчивост на процесите на анаеробното разграждане на тези смеси с получаване на високи добиви на биогаз с 54-60 % съдържание на метан в него. Тази тенология е значима за обществото, защото: полученият метан е източник на електрическа и топлинна енергия; допринася за решаването на проблема с натрупващите се селскостопански отпадъци и прекратяване на тяхното изгаряне, съпровождано с редица вредни за природата ефекти; получаване на естествен тор (биошлам), който е ценен продукт за „биологичното" земеделие. (Ръководител: доц. д-р Иван Симеонов)

3. МЕЖДУНАРОДНО СЪТРУДНИЧЕСТВО НА ИНСТИТУТА

Панорамният преглед на развитието на научните изследвания в Европа и света показва, че те се развиват динамично и бързо, обновявайки постоянно своята научна база и иновативните си подходи. Въпроси като изменението на климата и свързаните с него ефекти върху биоразнообразието, предизвикателствата на новите биотехнологии или борбата с инфекциозните и имунни заболявания, все повече изискват съгласувани международни изследователски усилия. Като заявява готовност за международно сътрудничество и като зачита най-добрите специалисти в Европа и света, ИМикБ работи активно за задълбочаване и разширяване на научното сътрудничество по стратегическите приоритети на Р България и ЕС, като в същото време се стреми да запази своите достойнства и традиции в развиваните изследователски направления и научна проблематика. В отговор на своя постоянен стремеж за международно сътрудничество, ИМикБ заявява готовност за сътрудничество с научни институции и фирми и от трети страни като Русия, САЩ, Китай, Япония, Индия и др.

През 2012 г. ИМикБ бе посетен от Генералния секретар на Международната мрежа на Институтите Пастьор д-р Марк Жуан. На среща с Председателя на БАН и ръководството на института, бяха обсъдени ролята и значението на ИМикБ в дейността

на мрежата и перспективите за развитие в областта на диагностиката, борбата с инфекциозните и имунни заболявания и иновациите в тези области.

Проведени бяха 2 международни мини-симпозиума по проекти, финансирани от мрежата (ACIP) с участието на проф. Д. Бернардини и д-р Д. Бенигни (Университет Сапиенца, Рим), проф. К. Ставару и доц. Л. Баница (Институт Кантакузино, Букурещ), проф. Е. Карниел (И-т Пастьор, Париж), проф. Н. Токаревич, И-т Пастьор, Санкт Петербург) и проф. С. Медведев (И-т по зоология, С. Петербург, РАН). В рамките на официално посещение в БАН, институтът бе посетен и от проф. Д. Рикие - Зам-председател на Френската академия на науките, г-н Е. Сенклер – икономически съветник по наука и иновации към посолството на Кралство Белгия у нас. Интересни лекции в ИМикБ представиха д-р Д. Томонаро (И-т по химия на биомолекулите, Неапол), доц. Е. Онер (У-т Мармара, Истанбул), д-р В. Делсенсери (У-т на Лиеж, Белгия), проф. О. Таширев (И-т по микробиология и вирусология, Национална академия на науките на Украйна) и доц. Н. Матвиева (И-т по клетъчна биология и генно инженерство, НАНУ). Гост-учени бяха и доц. С. фон Гюнтер (У-т на Берн, Швейцария), проф. С. Диоп (CNRS, Париж), проф. Н. Христов (У-т на Лил, Франция), проф. С. Нараянан и докторант П. Чандрасекар (Център за научни изследвания на земята, Тривандрум, Индия) и др. Нови перспективи очерта и и срещата на ръководството с делегация от Китайската народна република в състав професорите К. Ин (У-т по науки и технологии, гр. Нанкин), Ш. Слин, Р. Зу, К. Вей и Ш. Зонг.

На всички провеждани срещи ръководството на ИМикБ представяше проектите, изпълнявани от учени на института, техните най-нови постижения, както и възможностите за научно сътрудничество. Посетени бяха редица лаборатории от различни департаменти и бе представена най-съвременната апаратура на Института.
и др.

Общата преценка за основните политики, състоянието и перспективите за международно сътрудничество показва, че то е устойчиво, с тенденция към постоянното разширяванеь а това дава възможност за успешното интегриране на Института в европейското научно пространство и повишаване качеството на работа с цел постигане на все по-добри резултати. Освен отбелязаните през изминалата година реализирани множество инициативи, насочени към подържане и задълбочаване на установените научни контакти с институти, отделни лаборатории и фирми, международното сътрудничество на Института се характеризира и с все по-осезателното му присъствие в различни международни инициативи. Затова отбелязваме

активността на учените от Института в различни договори, описани в съответните приложения.

3.1. В рамките на договори и спогодби на ниво Академия

Разработвани са 2 проекта по ЕБР съответно с Русия и Белгия.

3.2. В рамките на договори и спогодби на институтско ниво

Разработваните договори и спогодби на институтско ниво с чуждестранни партньори през 2012 г. са 13 /без тези по ЕБР/: 4 с Институт Пастьор, Париж, 1 с Германия /Хайделберг/, 2 с Италия, 2 с Франция /Университета в Бордо и Националния център за научни изследвания на Франция/, 1 със САЩ /Дрексел Институт за биотехнологии и вирусни изследвания, Пенсилвания/,1 със Сърбия /Университета в Ниш/, 1 с Швейцария, 1 с Румъния и 6 са възложени от фирми от чужбина.

Като асоцииран към Институт Пастьор, Париж и член на Международната мрежа на Пастьоровите институти, ИМикБ има съвместна дейност с институтите от Мрежата по различни научни направления: резистентност на грипните вируси към химиотерапевтици, екология на птичите грипни вируси, молекулни основи на репликацията на ентеровируси, генетични изследвания на хепатитни вируси В и С като причинители на рак на черния дроб и генетични изследвания на човешки папиломавируси, изследване за антивирусна активност на новосинтезирани съединения, клетъчни популации и взаимодействие между тях при остеоартроза, молекулно типиране на хранителни патогени, роля на мигриращите птици за разпространение на зоонози с медицинско значение, взаимодействие на имунните клетки като механизъм за системен контрол, лекарствена резистентност при *Mycobacterium tuberculosis* към туберкулостатици и др.

Политиката на Института е да се поощряват всички възможни форми на контакти и сътрудничество с институти, университети, фирми и др., за да популяризират както своята научна активност, така и да се инициират съвместни проекти, които биха довели до финансиране на научната дейност.

Най-значимите международно финансирани проекти са:

- Нови полизахарид модифициращи ензими, оптимизиращи потенциала на хидроколоиди за приложение в храните и медицината (PolyModE), финансиран от ЕС по 7 РП, с ръководител доц. д-р Кънчо Лахчев – 860 000 лв
- Глобално решение за кланици, предприятия за щавене на кожи и фитосанитарния сектор: третиране на животински отпадни продукти от категория 3 и

получаване на висококачествен продукт с био-пестицидни свойства, финансиран от ЕС по 7 РП, с ръководител доц. д-р Адриана Гущерова – 760 000 лв

4. УЧАСТИЕ НА ЗВЕНОТО В ПОДГОТОВКАТА НА СПЕЦИАЛИСТИ

Съществена задача от мисията на Института е подготовката на млади специалисти с висока квалификация. В зависимост от приоритетните направления, разработвани от научния колектив на ИМикБ, непрекъснато се разширява спектъра на образователните и научни сфери в обучението. Анализът на тази дейност на звеното показва, че освен голямото многообразие на тези дейности, непрекъснато нараства отговорността, значението и задачите на Института като престижен център за обучение на бакалври, магистри и докторанти в присъщите му научни и образователни области. В изпълнението на тези задачи се разчита на компетентността и ентусиазма на хабилитираните и нехабилитираните научни кадри, на създадените школи в отделните звена, на традициите и наложеното в научната общност добро име на Института, създавано и утвърждавано през 65-годишната му история. В резултат на многогодишно провеждане на обучение на студенти, предоставяне на възможности за изготвяне на дипломни работи за придобиване на магистърски степени, в звената на Института има възможност да подбор на най-заинтересованите и обещаващи младежи за по-нататъшно обучение. Затова, въпреки че в страната делът на млади хора с интерес към научна кариера остава относително нисък, в ИМикБ винаги има голям интерес към докторантските програми, винаги са се искали допълнителни бройки за докторантура. Като проблем може да се посочи факта, че тригодишното редовно обучение не е достатъчно и за експериментална, и за обучение в специализирани курсове по изискуемите кредити, и за двата изпита през първата година, поради което винаги се иска удължаване на срока, а това е свързано с търсене на възможности за назначаване на младите хора, съответно финансиране.

В Института се използват две форми на докторантура. През 2012 г. (към 31.12.2012) в ИМикБ са подготвяни общо 16 (плюс 2 със съвместно ръководство) докторанти в две форми на обучение – редовна (13), и самостоятелна (3) докторантура. През 2012 г. успешно са защитили 3 докторанти. Трябва да се отбележи, че докторантурата на самостоятелна подготовка е перспективна форма и е застъпена в голяма степен, тъй като дава възможност за по-ефективна селекция на бъдещите учени и по-дълъг период за експериментална работа.

Учени от ИМикБ участват в подготовката на бакалаври чрез пряко ръководство на студенти и участието им в научноизследователската работа на различни групи, както и в подготовката на магистри /дипломанти/ като освен, че четат лекции и водят семинарни занятия в редица университети от страната, осигуряват база и условия за разработване на техните магистърски тези.

През 2012 Базата на „Лабораторен център Пастьор“ беше използвана от докторанти и от други научни звена на Института по микробиология за провеждане на молекулярно биологични изследвания – Департамента по обща микробиология, Департамента по инфекциозна микробиология, Департамента по вирусология. Провеждаи са също така теоретични и практични занятия за обучението на студенти по молекулярна биология от Биологически факултет към Софийския университет. Продължи успешната колаборация с Медицинския факултет на Университета в Ниш, Сърбия с включено обучение на докторант от този университет.

В ИМикБ през 2012 г. освен 16-те докторанта и двама със съвместно ръководство от учени от БАН, са се обучавали 11 дипломанти и 6 специализанти. Общо 15 учени от Института са участвали в това обучение.

Участието на учени от ИМикБ в подготовката на различни специалисти е включвало и четене на лекции и водене на курсове - 230 часа и водене на упражнения и семинари- 710 часа в следните висши учебни заведения: три факултета на СУ ”Св. Кл. Охридски” - Биологически, Химически и Физически факултети; Факултет по ветеринарна медицина на Лесотехническия университет; Химикотехнологичен и металургичен университет, Университет по хранителни технологии-Пловдив; Медицински колеж „Й. Филаретова”.

5. ИНОВАЦИОННА И СТОПАНСКА ДЕЙНОСТ

Иновационната дейност през 2012 г бе насочена към информиране на учените за възможностите за приложение на иновативните постижения чрез организиране на срещи и лекции относно перспективите за разкриване на фирми към института и осигуряване на допълнително финансиране.

5.1. Осъществяване на съвместна иновационна дейност с външни организации

През първата половина на годината на няколко срещи на Ръководството на ИМикБ-БАН (Директор, Зам. директор и Научен секретар) с ръководствата на НСМСБ и Персонал консулт- Г. Попов бе договорено изграждане на един или два офиса за

технологичен трансфер и партньорско участие в разработването на проекти и кандидатстване за безвъзмездна помощ по ОП ”Конкурентоспособност”. Продължава да се очаква финансиране по съответните оперативни програми.

Към края на 2012 г. в нашия Институт продължава готовността на отделни колективи с 22 иновативни проекти. Някои от тях бяха представени на семинара при гостуването на учените от Република Южна Корея. Обсъдени бяха и възможностите за сътрудничество в областта на иновациите с представители на посолството на Северна Корея. По време на посещението на Китайската делегация от Университет по науки и технологии, гр. Нанкин бе обсъдена възможността за сътрудничество в областта на биогазовите технологии.

5.2. Подготовка на трансфер на технологии

Продължиха контактите с ЦЕНТЪРА ЗА ИНОВАЦИИ към БАН и Фондация “ГИС – ТрансферЦентър” с оглед уточняване на възможностите за създаване на технологични фирми към Института.

През изминалата 2012 г. бе продължена информационната дейност в областта на иновациите. Зам. директорът продължи контактите си със Съюза на изобретателите в България и с проф. К. Костадинов, отговорник на БАН за иновационната дейност, като редовно информираше сътрудниците на ИМиК - БАН за провежданите мероприятия.

При посещенията на чуждестранни учени (главно от Франция и Белгия) бе обсъден техния опит в областта на патентното дело и организацията на спин-оф фирми.

6. СТОПАНСКА ДЕЙНОСТ НА ЗВЕНОТО

6.1. Осъществяване на съвместна стопанска дейност с външни организации и партньори

6.2. Отдаване под наем на помещения и материална база

Под наем са отдадени 2 помещения със съответен договор от получената ½ част от блок 108.

6.3. Сведения за друга стопанска дейност

ИМикБ не извършва стопанска дейност, тъй като не разполага с производствена база.

7. КРАТЪК АНАЛИЗ НА ФИНАНСОВОТО СЪСТОЯНИЕ

Отчетът е изготвен на база касово изпълнение на бюджет 2012 г.

Общите приходи на Института по микробиология са в размер на 2 175 115 лв., от които - 1 342 600.00 лв. са бюджетна субсидия от БАН, а останалите 523 993.00 лв. са средства от договори с НФНИ и МОМН, договори с български фирми - 103 68,00 лв, валутни договори по международни програми - 281 435,00 лв, от наеми - 4 840,00, услуги - 7 854,00 лв, такси участие в конференция по вирусология – 8 577,00 лв, такси докторанти - 308.00 лв. и лихви – 50,00. През 2012 г. бюджетната субсидия е използвана за заплати 892 988,00 лв. и осигурителни вноски върху заплатите и хонорари 196 687,00 лв, за стипендии - 57 600,00лв.лв, обезщетения по КТ, болнични от работодател – 29 496,00 лв. За хонорари за научен съвет /заседателни, журита, рецензии/- 6 700,00 лв. От субсидията за издръжка са изплатени 159 129,00. лв /ел.енергия , топлоенергия, вода/.

Средствата от договори с МОМН, валутни договори и др. са изразходвани за научно-изследователски разходи – 300 923,00 лв., командировки в страната – 12 520,00 лв. и чужбина –99 471,00 лв, дълготрайни материални активи – 155 368,00 лв, възнаграждения по договори – 232 224,00лв. и др.

Със собствени средства са изплатени и разходи за материали, вкл. канцеларски, външни услуги /телефонии, транспорт и др./, ремонти и др.-70 000 лв.

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

Библиотеката към Институт по Микробиология ”Ст. Ангелов” при БАН, разполага с общ библиотечен фонд от 21 207 бр. Поради силно редуцирания бюджет и предприетите мерки за спряване с финансовия дефицит, отговорникът за библиотеката е приведен на ½ работен ден, както и абонаментът на изданията на английски език не беше възобновен. Получаваха се само български и руски списания.

През 2012 г след отпуснати средства от БАН започна и завърши ремонт на сградата на института, включително и на библиотеката. През годината продължи преместването на целия книжен фонд в съседна сграда, докато траят строително-ремонтните дейности. Понастоящем книжният фонд се връща в сградата и се подрежда и класифицира в хранилището и читалнята. Библиотеката се обслужва до обяд, а е необходимо да се работи пълноценно, защото учените, освен използвайки новите технологии за личен достъп до Интернет пространството, разчитат и на Библиотеката, тъй като чрез нея има достъп до световните и европейски научно-изследователски бази данни, лицензиран от Министерството на образованието младежта и науката: ISI Web

of Knowledge, Science Direct, Scopus, Embase**,** ProQuest, Central and Eastern European Online Library, Directory of Open Access Journals, EBSCO Host Databases, ISI Emerging Markets – SEE. Учените имат достъп и до информационната мрежа на Институтите Пастьор.

9. ДОПЪЛНИТЕЛНИ СПИСЪЦИ:

9.1. ПУБЛИКАЦИИ, ИЗЛЕЗЛИ ОТ ПЕЧАТ

1.1. Списък на публикации, които са реферирани и индексирани в световната система за реферирање, индексиране и оценяване/в световни вторични литературни източници/

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10. **Информация за Научния съвет на ИМикБ – дата на избиране и списъчен състав**

Дата на избиране: 27.02.2012 г.

С П И С Ъ К

на членовете на Научния съвет при Института по микробиология “Стефан Ангелов” – БАН

№	Име, презиме и фамилия	Научна степен и научна специалност, по която е получена	Научно звание и научна специалност, по която е получена	Месторабота
1.	Ангел СимеоновГълъбов	д.м.н., “Вирусология”	акад., “Вирусология”	пенсионер
2.	Тодор Веселов Кантарджиев	д.м.н., “Микробиология”	проф., “Микробиология”	НЦЗПБ
3.	Мария Богомилова Ангелова	д.б.н.,“Микробиология”	проф.,“Микробиология”	ИМикБ – БАН
4.	Чавдар Любенов Василев	д.б.н., “Имунология”	проф., “Имунология”	ИМикБ – БАН
5.	Атанас Иванов Павлов	д.т.н., “Технология на биологично активните вещества”	проф., “Технология на биологично активните вещества”	ИМикБ – БАН
6.	Нина Димитрова Ивановска	д.б.н., “Имунология”	проф., “Имунология”	ИМикБ – БАН
7.	Христо Миладинов, Найденски	д.в.м.н., “Микробиология”	проф.,“Микробиология”	ИМикБ – БАН
8.	Любка Йорданова Думанова-Язаджиева	д-р, “Вирусология”	доц.,“Вирусология”	ИМикБ – БАН

9.	Данка Николова Гълъбова	д-р, “Микробиология”	доц., “Микробиология”	ИМикБ – БАН
10.	Златка Милчева Алексиева	д-р, “Молекулярна биология”	доц., “Микробиология”	ИМикБ – БАН
11.	Маргарита Стоянова Камбурова	д-р, “Микробиология”	доц., “Микробиология”	ИМикБ – БАН
12.	Светла Трифонова Данова	д-р, “Микробиология”	доц., “Микробиология”	ИМикБ – БАН
13.	Пенка Младенова Петрова	д-р, “Микробиология”	доц., “Микробиология”	ИМикБ – БАН
14.	Андрей Иванов Чорбанов	д-р, „Имунология”	доц., “Имунология”	ИМикБ – БАН
15.	Веселин Кънчев Късовски	д-р, “Микробиология”	доц., “Микробиология”	ИМикБ – БАН
16.	Надя Димитрова Маркова	д-р, “Микробиология”	доц., “Микробиология”	ИМикБ – БАН
17.	Вера Атанасова Максимова	д-р, „Вирусология”	проф., „Молекулярна биология”	ИМБ - БАН
18.	Любомира Николаева Крумова-Гломб	д-р, „Вирусология”	доц., “Вирусология”	ИМикБ – БАН
19.	Петя Асенова Димитрова	д-р, „Имунология”	доц., “Имунология”	ИМикБ – БАН
20.	Стоянка Рангелова Стоицова	д-р, „Паразитология”	доц., „Морфология”	ИМикБ – БАН
21.	Блага Ангелова Мутафова	д-р, “Микробиология”	доц., “Микробиология”	ИМикБ – БАН

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