

БЪЛГАРСКА АКАДЕМИЯ НА НАУКИТЕ



ИНСТИТУТ ПО МИКРОБИОЛОГИЯ

“СТЕФАН АНГЕЛОВ”

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за работата на

Института по микробиология

“Стефан Ангелов” - БАН

през 2014 г.

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1. ПРОБЛЕМАТИКА НА ЗВЕНАТА

1.1. Преглед на изпълнението на целите /стратегически и оперативни/, оценка и анализ на постигнатите резултати и на перспективите на ИМикБ в съответствие с неговата мисия и приоритети, съобразени с утвърдените през 2014 г. научни тематики

ИМикБ е Национален изследователски център, специализиран в областта на микробиологичните науки, с водещо място в Балканския регион и член на Международната мрежа на Пастъоровите институти. Поставените пред него стратегически и оперативни цели са свързани с провеждането на стойностни на научно ниво фундаментални и приложни изследвания в най-актуалните направления на съвременната микробиология.

В съгласие с утвърдените през тази година 4 научни тематики /гласувани от НС и приети с протокол 6/08.05.14/, неговата постоянна мисия и трайни перспективи за научно развитие, ИМикБ е използвал своя висококвалифициран и компетентен човешки потенциал за постигане на добри резултати от изследвания по заложените и адекватно дефинирани научни приоритети. С въвеждането на приоритети се очертават по-ясно насоките на изследователската дейност и се подобряват правилата за финансиране, с което учените се стремят да се съобразяват при участието си в конкурси за финансиране. Оценката на постигнатите резултати е, че независимо от ограничените до критичен праг финансови ресурси, те са довели до решаването на конкретни проблеми в областта на здравеопазването, хранително-вкусовата и фармацевтичната индустрия, биотехнологиите, в това число и алтернативните енергийни източници и опазването на околната среда. Осигуряването на ефективност на научните изследвания по определените тематики обаче би се подобрило, ако възникването и изпълнението на конкурентоспособни научни идеи не се затруднява от оскъдния финансов инструментариум, липсата на секторни програми за научни изследвания, например в областта на здравеопазването, земеделието или околната среда, с чиито проблеми ИМикБ е тясно свързан, винаги е бил полезен и има ресурси да направи повече. Творческите възможности на човешкия ресурс на ИМикБ не могат да се разгърнат подобаващо и поради нарушения баланс в мотивировката за работа както на младите, така и на утвърдените учени.

В Института се изготвят експертни програми и становища за нуждите и целите на държавните институции, отнасящи се до здравеопазването, икономиката, безопасността на храните, опазването на околната страна и националната сигурност. Съществена дейност по една от приетите тематики е участието на учени от Института в образователния процес в България, конкретно свързано с обучението на студенти, стажанти и докторанти по различни образователни програми, като резултатът е подготовка на перспективни млади учени в областта на микробиологията като част от интелектуалния потенциал на България.

Оценката от цялостната дейност на ИМикБ за 2014 г. е положителна, като това заключение се основава на анализа на получените научни и приложни резултати, постигнати в ИМикБ, а именно: много добра публикационна активност (173 бр.), запазваща тенденциите на предходните години, традиционно висок импакт фактор (250.3) и съответно видимост на научните постижения на учените от Института в международното научно пространство (1 410 цитирания), активна работа по проекти с активизиране и работата със стопански субекти, значително подобрена активност по отношение на подготовката на специалисти и разширена учебна дейност.

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

Националната стратегия за научни изследвания отразява политиката на Правителството на Република България като част от отговорностите му по отношение на стратегическото развитие на страната. Тази стратегия трябва да подпомогне превръщането на българската наука във фактор за развитието на икономика, базирана на знанието и иновационните дейности.

В съответствие с тази стратегия, научноизследователската дейност в ИМикБ през 2014 г. е свързана с приоритетни области на Националната програма за развитие на Република България: БЪЛГАРИЯ 2020, с основните приоритети на ЕС, заложиени в Рамковата програма „Хоризонт 2020”, както и с Националната стратегия за развитие на научните изследвания 2020.

Постигнатите резултати от извършваните в ИМикБ дейности са съобразени с утвърдените тематики и са в областта на: 1/ Патогеномни проучвания, молекулярна епидемиология и патогенеза на актуални зоонозни патогени и свързаните с тях инфекции; 2/ Разработване на антивирусни, антимикробни, антимикотични и

антитуморни етиотропни средства (химиотерапевтици, имуномодулатори, онколитични вируси, ваксинални препарати и др.); 3/ Изследвания в областта на имунопатологията и автоимунитета (патогенеза на сепсиса, подходи за лечение на автоимунните заболявания) и 4/ Генетична, биохимична и ултраструктурна характеристика на микроорганизми (бактерии, дрожди, гъби), микробни и растителни биотехнологии за нови биологично активни вещества с приложение в медицината, фармацевтичната индустрия, хранителната промишленост, опазването на околната среда и получаването на алтернативни биогорива.

ИМикБ разполага с необходимата инфраструктура за реализиране на проекти по различните програмни схеми. С оглед на предизвикателствата на програмния период 2014-2020, Институтът полага усилия за осъвременяване на материалната база чрез участието в конкурси за спечелване на проекти, които да финансират закупуването на нова апаратура. Трябва обаче да се отбележи, че са малко националните инструменти за подкрепа на научната дейност - съществуват само два фонда и то с ограничено за мащабите на кандидатстващите финансови ресурси. Успех за Института е спечелването на проект с Фондация „Александер фон Хумболд” за оборудване с апаратура на нова лаборатория. Същевременно ИМикБ разполага с високо квалифициран научен потенциал, 18% от който са млади учени. Този процент през последните години намалява. Трябва да се отбележи спадания интерес на завършващите студенти относно докторантури. А добре известно е, че интелектуалният потенциал формира капацитета за провеждане на научни изследвания и иновации. Извършваните дейности за отчетния период обаче показват, че продължава развиването на утвърдени изследователски школи в отделните департаменти, а постигнатите резултати допринасят за по-висока конкурентноспособност на предлаганите изследвания, независимо от предизвикателствата и трудностите пред учените от ИМикБ. Отново трябва да се подчертае, че продължаващата тенденция за ниско заплащане на труда на учените по обективни финансови причини, ограничен избор на предпочитано работно място и тематика на изследвания, са едни от основните бариери за намаляване на притока на млади хора не само в ИМикБ, а в областта на науката като цяло.

1.3. Полза/ефект за обществото от извършваните дейности

Прегледът на научноизследователската дейност в Института, анализът на резултатите и обосноваването на положителна оценка показват, че през 2014 г. колективът

на Института отговорно е изпълнявал задачите си и е постигнал добри резултати в развиваните изследователски направления. Извършваните дейности се вписват в концепциите за устойчиво развитие на нашето общество, тъй като целевата група, към която са насочени дейностите е българското общество. Най-общо потенциалната полза за обществото е свързана с разрешаването на проблеми в здравеопазването, хранително-вкусовата и фармацевтичната индустрия, екологията, биоразнообразието, биотехнологиите, в това число алтернативните енергийни източници.

В областта на общата микробиология получените резултати могат да намерят потенциално приложение в биомедицината - за нови фармацевтични препарати; в биотехнологията - за получаване на ензими и други биологично активни вещества; в екологията и опазването на околната среда - биодеграцията на опасни ксенобиотици и биоремедиация на замърсени с токсични вещества почви и води; за изясняване на микробното разнообразие в различни биотопи на Антарктида.

В областта на вирусологията приносите са свързване с: получаване на нови данни, доказващи перспективността на разработения в Института оригинален подход за химиотерапия на ентеровирусните инфекции, възпиращ развитието на лекарствена резистентност, чрез комбинация от три инхибитори на ентеровирусната репликация в терапевтичен курс при последователно алтернативно прилагане; охарактеризиране на високата ефективност при експериментална инфекция *in vivo* с грипен вирус А на комбинацията от химиотерапевтик (оселтамивир) и антиоксидант (витамин Е), като тази комбинация следва да се препоръча за използване в медицинската практика при лечението на грипа.

В областта на имунологията се разработват нови генетични конструкции за изследване терапевтичния им потенциал при ваксинации, грипни инфекции и автоимунен диабет. Изследват се механизмите на действие на киназни инхибитори при сепсис, остеоартрит и ревматоиден артрит. Извършва се системен анализ на антигеновите репертоари с помощта на пептидни и гликанови масиви на микрочипове и се въвеждат методи за „деимунизация“ чрез внасяне на мутации в рекомбинантен фактор VIII за лечение на хемофилия. Разработват се нови методи, базирани на пасивна имунотерапия с “модифицирани” имуноглобулинови препарати, приложими при автоимунни и възпалителни заболявания като лупус, артрит и сепсис.

Получените резултати **в областта на инфекциозната микробиология** имат не само висока научна стойност, но и конкретни и значими социални и икономически измерения. Разработени са съвременни и бързи методи за диагностициране на туберкулоза, причинена от конвенционални и лекарствено резистентни щамове *Micobacterium tuberculosis*, за бързо доказване на хранителни патогени в мляко, месо и техните продукти, за определяне ролята на мигриращите птици като източници на инфекция за хора и животни, както и за околната среда /вода, почва и др/, синтез на нови противотуберкулозни средства и други химиотерапевтици със синтетичен или природен произход, включително и такива с фотодинамичен ефект за борба с инфекциозни заболявания. Ползата от разработките в областта на инфектологията и микробиологията е пряко свързана със здравеопазването на хората и стопанските животни, микробиологичния контрол и безопасността на храните и фармацевтичната индустрия.

Разработките **в областта на приложната микробиология и биотехнологии** са принос към: 1/ опознаване на микробното разнообразие в екстремни ниши и проучване на възможностите за индустриално използване на синтезираните от екстремофилите екзополisahариди (ЕПЗ). Установеното високо ниво на продукция на екзополisahарид от термофилен щам, високата степен на чистота на ЕПЗ и подобряването на свойствата на търговски крем след включване на микробния ЕПЗ в състава му определят перспективата за ЕПЗ приложение в козметичната промишленост 2/ в областта на микробния биосинтез и екология са изследвани нови енергетични източници и подходи за очистване на въглероден диоксид в биогаза, с цел опазване на околната среда; разработени са варианти на технологии за микробиален синтез на аминокиселини (лизин, валин, лейцин), в зависимост от източниците на суровина; получени са евтини и безвредни растителни биопродукти (компост и почвени подобрители) от растителни отпадъци. Получените резултати са основа за разработване на комплексна технология за по-ефективно оползотворяване на растителни отпадъци с положителен екологичен и финансов ефект. 3/ създаване на система за био-мониторинг на растения и техни *in vitro* култури, съхранение на застрашени от изчезване растителни видове; оригинални изследвания на профила на фенолните метаболити от български растения, получаване на биологично активни вещества с потенциал за медицинско приложение (галантамин, иридоидни гликозиди, глюкоманан, флаваноиди, протопин, хемантамин, вербаскозид), приложение в хранително вкусовата

промишленост (антиоксиданти и антимикробни препарати), както и заместители на синтетични компоненти в козметичната промишленост (дрождеви екзополisahариди и тритерпенови киселини), детайлизиране на биологичната активност на известни структури, както и откриване на нови структури с потенциал за фармакологично приложение, създаване на стартери за нови ферментирани млечни продукти с повишени хранителни и здравни характеристики, като изолирането на пробиотични щамове от растения е важно, защото те могат да се култивират в безлактозна среда и да бъдат приемани от хора с лактозна непоносимост. 4/ Разработените нови лабораторни технологии за анаеробна биодеградация на лигноцелулозни отпадъци позволяват да се получава възобновяема енергия (биогаз) от някои практически неизползваеми в момента селскостопански отпадъци (слама, царевичак и др.). Разработените модели и алгоритми за мониторинг и управление на процесите на анаеробна биодеградация на органични отпадъци могат да доведат до увеличаването на добивите на биогаз и подобряване на устойчивостта на тези процеси.

В областта на **микологията** се разработват проблеми в две от основните направления в БАН – „Биомедицина и качество на живот” и „Биоразнообразие, биоресурси и екология”. Доказана е ролята на оксидативния стрес и антиоксидантната защита за повишената резистентност към тежки метали на мицети, изолирани от замърсени почви. Установени са промените в нивото на биомаркерите на стреса и в активността на ключови антиоксидантни ензими. Получени са нови данни за регулацията на редокс баланса в клетките. Разработен е метод за третиране на плесенно замърсяване по културни паметници с цел тяхната реставрация.

Базата на Лабораторен център „Пастър“ е използвана от учени и докторанти от различни департаменти на Института по микробиология: секция „Микробна генетика“ към Департамента по „Обща микробиология“ за провеждане на изследвания в областта на геномиката и транскриптомиката на мбечно-кисели бактерии, Департамента по „Инфекциозна микробиология“ за провеждане изследвания върху *E. coli* от теренни проби, взети от водоеми от различни части на България и клинични изолати от болни преживни животни за наличие на патогенни маркери /гени, плазмиди и др./, Департамента по „Вирусология” за провеждане на молекулярно - биологични изследвания за генотипиране на ентеровируси (диви и мутантни щамове) и др. Базата е използвана както за провеждане на теоретични и практични занятия, така и

за обучението на студенти по молекулярна биология от Биологическия факултет към Софийския университет и студенти от Нов български университет.

Регулярно са осъществявани административни контакти с Институт Пастьор – Париж от служители на Центъра.

1.4. Взаимоотношения с институции

Продължават дългогодишните успешни партньорства на ИМикБ с различни научни институции, университети, министерства, ведомства, фирми и др. Те се изразяват в: сътрудничество в научноизследователската работа; съдействие на държавни управленски структури чрез експертна дейност; преподавателска дейност във висши училища и други институции, включваща лекции, упражнения, курсове на различни специалисти, обучение по програма на ЕСФ и МОН „Студентски практики” и др.

Списъкът на институциите, с които си партнира ИМикБ е следният:

Медицински университет – София, 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), Министерство на земеделието и храните, Селскостопанска академия, Институт по рибарство и аквакултури, Агробιοинститут, Ветеринарномедицински факултет към Тракийския университет – Стара Загора; Софийски университет „Св. Климент Охридски”- Биологически факултет, Факултет по химия и фармация, Физически факултет, НИС към СУ, Югозападен университет – Благоевград, Пловдивски университет „Паисий Хилендарски”, Университет по хранителни технологии – Пловдив, Аграрен университет – Пловдив, Химикотехнологичен и металургичен университет – София, Технически университет-София, Бургаски университет „Асен Златаров”, Шуменски университет „Черноризец Храбър”, Медицински колеж „Й. Филаретова”, Пещерен клуб „Хеликтит”, различни фирми - българо-американската фирма „Квантацеа”, „Живас” ООД, „Неофарм-България” ООД, „Булел”ООД, „Нетратекс”-ЕООД, „Варна Пласт”ООД, „Биовет” Пещера, „Валенза Биотек”ЕООД,

„Боди Д – Добри Добрев” – Пловдив и др. 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 „Акад. Кирил Братанов”, 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, Институт по експериментална морфология, патология и антропология с музей, Институт по системни изследвания и роботика, Институт по математика, Институт за космически изследвания и технологии, Институт по биоразнообразие и екосистемни изследвания и др.

1.5. ОБЩОНАЦИОНАЛНИ И ОПЕРАТИВНИ ДЕЙНОСТИ, ОБСЛУЖВАЩИ ДЪРЖАВАТА

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/

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

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

Министерство на образованието и науката – участие с експерти в експертни групи за акредитация на ВУЗ-ове в Националната агенция за оценка и акредитация, готовност за участие с експерти към комисиите на Фонда за научни изследвания, изготвяне на рецензии върху проекти към Фонда, участие в журита с рецензии и становища към различни учебни заведения, научни организации и др.

Министерство на екологията и природните ресурси – експертно участие в Консултативната комисия по генно модифицирани организми.

Министерството на земеделието и храните – участие в Националната комисия по етика при работа с животните към БАБХ, членство в Консултативния съвет към Директора на Центъра за оценка на риска при БАБХ.

Министерство на икономиката - участие на технически експерт към Изпълнителна агенция „Малки и средни предприятия” и Изпълнителна агенция към Българска служба по акредитация.

Европейски съюз - Комисия „Предизвикателства пред Европейската биоикономика: продоволствена сигурност, устойчиво земеделие и горско стопанство, мореплавателски, морски и вътрешноводни изследвания” - участие на експерт като представител на България в програмния комитет на програма за научни изследвания и иновации на Европейския съюз "Хоризонт 2020".

Участие като представител на България в Експертна група по микробиологична оценка на риска при Европейския орган по безопасността на храните (EFSA).

Неправителствени организации - участие в Управителните съвети на Националното дружество по екологично инженерство и опазване на околната среда /НДЕИООС/ и Съюз по автоматика и информатика /САИ/.

Участие на учени от Института има и в различни международни комисии, фондации, редакционни колегии, както и в различни национални и европейски дружества.

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

Подадено е проектно предложение по програма Хоризонт 2020 в рамките на Widespread-2014-1 Teaming с партньори от България и Германия – PlantaSYST H 2020 Widespread 2014-1 Teaming. Към 30 януари 2015 г., има информация от ЕС, че този проект е преминал успешно първия етап / 20 от 170 са одобрени за втори /, като за този първи етап до 3 седмици ще се получи договор, а до 3 месеца след подписването му ще се получат парите в размер на 1 000 000 лв в Института по микробиология.

2. РЕЗУЛТАТИ ОТ НАУЧНАТА ДЕЙНОСТ ПРЕЗ 2014 Г.

От анализа на дейностите се вижда, че те са насочени към непрекъснатото усъвършенстване и разкриване на нови възможности за модернизация на научните изследвания в съответствие с набелязаните тематики и в съответните приоритетни области, към постигнати на добри резултати, с максимално използване на ограничените и лимитирани финансови ресурси от спечелените проекти през предишни години. Общият стремеж е да се достигне международен стандарт.

2.1. Научно постижение

Характеризирани са български млечно-кисели бактерии с пробиотични свойства и научно доказани здравословни ефекти. Подбрани са уникални щамове, способни стабилно да колонизират храносмилателния тракт и бързо да възстановяват здравословния баланс. Разкрити са част от механизмите, гарантиращи трайното доминиране на пробиотичните млечно-кисели бактерии в протективната микрофлора на хора и животни. Създадената колекция от биопротективни култури е обещаваща основа за нови функционални храни и препарати за здраве и намаляване на риска от хранителни патогени, включително токсигенни плесени в млечните продукти. **Колектив:** доц. д-р Светла Данова, доц. д-р Пенка Петрова, доц. д-р Дора Бешкова.

2.2. Научно-приложно постижение

Разработена е лабораторна биотехнология за анаеробна биодеградация на пшеничена слама в смес със свински тор или с отпадни плодове и зеленчуци, която е тествана на пилотната биогазова инсталация. Подбраните органични отпадъци водят до получаването на максимални добиви на метан при устойчиви процеси на анаеробна биодеградация. Получени са нови знания за биодеградацията на трудноразградимия лигноцелулозен отпадък пшеничена слама в смес с други органични отпадъци и необходимостта от предварителното ѝ третиране. Изяснени са условията и параметрите на протичащите процеси с цел максимален добив на енергоносителя метан, като се подобряват и възможностите за преработка на селскостопански отпадъци за получаване на възобновяема енергия. **Ръководител:** доц. д-р Иван Симеонов.

4. МЕЖДУНАРОДНО СЪТРУДНИЧЕСТВО НА ИНСТИТУТА

Политиката на Института е да се поощряват всички възможни форми на контакти и сътрудничество с институти, университети, фирми и др., за да популяризира както своята научна активност и иновативни решения по утвърдените тематики, така и да се осигурят възможности за стипендии на младите учени, техни специализации чрез инициране на съвместни проекти, които да финансират научната дейност и да се подпомогне функционирането на института. Затова, стремежът за непрекъснатото разширяване на международното научно сътрудничество като постоянен приоритет в научноизследователската дейност на Института е добра възможност за успешното интегриране на Института в европейското научно пространство и повишаване качеството на работа с цел постигане на още по-добри резултати. През отчетната 2014 г. международното сътрудничество се проявява в осезателното присъствие на Института в различни международни инициативи, както и организирани от страна на Института научни форуми с международно участие :

- 13-ия Конгрес на българските микробиолози с международно участие в Трявна, 7-10 Октомври

В работата на конгреса взеха участие 106 учени, от които 52 от ИМикБ. Чуждестранните лектори бяха 9 - от Франция, Португалия, Русия, Австрия, Украйна и Македония, Полша.

Учени от ИмикБ /Департамент по имунология/ организираха и други значими международни научни конгреси и първото международно училище по имунология в България:

- VI-ти Национален конгрес по имунология, 2-5 октомври 2014 г. Златни пясъци, Варна – ИМикБ /Имунология/ като съорганизатор
- Първо международно училище по имунология (BSIIS), Октомври 2, 2014, Златни пясъци, Варна

През м. октомври 2014 се проведе първото заседание на сформирания Международния научен съвет към ИМикБ. Осъществени са и работни срещи с чуждестранни партньори.

Значително е участието на учени от Института в голям брой международни конференции с доклади и постери, проведени в различни страни, както и осъществени командировки за четене на лекции или краткосрочни специализации: Белгия, Италия, Гърция, САЩ, Ирландия, Холандия, Хърватия, Унгария, Турция, Швеция, Люксембург, Хонг Конг, Албания, Полша, Русия, Армения, Испания, Франция, Германия, Македония.

В областта на международното сътрудничество са осъществени и командировки по организационни и административни задачи във Франция, Италия, Германия, Австрия, Сърбия.

ИМикБ участва в работата на 4 международни научни мрежи:

- Международна мрежа на Институтите Пастър
- Международна мрежа OCUVAC – Център по очни инфекции
- COST Action BM1003 - Мишени за нови терапевтични подходи при муковисцидозата
- COST Action FA 1006 – Метаболитно инженерство при растенията за ценни продукти

4.1. В рамките на договори и спогодби на ниво Академия

Разработвани са 7 проекта по ЕБР съответно с Белгия, Русия, Украйна, Египет, Унгария, Сърбия и Турция.

4.2. В рамките на договори и спогодби на институтско ниво

Разработваните договори и спогодби на институтско ниво с чуждестранни партньори през 2014 г. са 16 /без тези по ЕБР/: три по програма ACIP на Институти от мрежата Пастър, 1 с Немския център за изследване на рака в Хайделберг, /Германия/, 1 с Университета в Бордо, /Франция/, 1 с фонд Швейцария и 1 по програма Наука без граници с Бразилия и 1 с Фондация „Александър фон Хумболд“. Два проекта с ФНИ имат съвместно международно сътрудничество с Германия. Сключен и финансиран от БАН-ЦУ е и проект с Македония /МАНИ/. Пет договора са възложени от фирми от чужбина – 2 с фирма РТУ, /Германия/, 1 с фирма Племазавод, /Русия/, 2 с фирма Кристиян Хенсен, /Дания/.

Като асоцииран към Институт Пастър, Париж и член на Международната мрежа на Пастъровите институти, ИМикБ има съвместна дейност с различни

институти от Мрежата по различни научни направления: генетични изследвания на хепатитни вируси В и С като причинители на рак на черния дроб и генетични изследвания на човешки папиломавируси, клетъчни популации и взаимодействие между тях при остеоартроза, молекулно типизиране на хранителни патогени, роля на мигриращите птици за разпространение на кръвнопреносими зоонози с медицинско значение, изследване терапевтичния потенциал на модифицирани имуноглобулинови препарати при експериментален респираторен синдром, конструиране на химерни молекули за вирусно насочване.

През 2014 г. е дофинансиран само един проект от изпълняваните - IZEBZO_142967 с 63 135 лв и съфинансиране 20 326 лв по ДО2-1066/2012.

5. УЧАСТИЕ НА ЗВЕНОТО В ПОДГОТОВКАТА НА СПЕЦИАЛИСТИ

Съществена част от мисията на Института е подготовката на млади специалисти с висока квалификация. В зависимост от приоритетните направления, разработвани от научния колектив на ИМикБ, спектърът на образователните и научни сфери в обучението им непрекъснато се разширява. Анализът на тази дейност на звеното показва, че освен голямото многообразие на осъществяваните форми и инициативи, непрекъснато нараства отговорността, значението и задачите на Института като престижен център за обучение на специализанти, бакалаври, магистри и докторанти в присъщите му научни и образователни области. В изпълнението на тези задачи се разчита на компетентността и ентузиазма на хабилитираните и нехабилитираните научни кадри, на съществуващите школи в отделните звена, на традициите и наложеното в научната общност добро име на Института, създавано и утвърждавано през дългогодишната му история. В резултат на наложила се дългогодишна практика за провеждане на обучение на студенти и предоставяне на възможности за изготвяне на дипломни работи за придобиване на магистърски степени, в звената на Института се осъществява подбор на най-заинтересованите и обещаващи младежи за по-нататъшно обучение, независимо от негативната тенденция за спад на млади хора с мотивация за научна работа. Подборът от вече обучавани или работили дипломните си работи студенти с интерес към докторантура е важен, защото се избягва при обявяване на конкурсите случаен и не винаги удачен избор. Традиционно, в ИМикБ винаги има голям интерес към магистърските и докторантските програми. Общият спад на интереса на завършващите студенти обаче, води до спад като

тенденция и на броя на желаещите да се обучават в докторските програми на ИМикБ. Трябва да се отбележи, че времето от три години за редовно обучение на докторанти в областта на микробиологията не е достатъчно за обучение в специализирани курсове по изискуемите кредити, за експериментална работа, за двата изпита през първата година, поради което винаги се иска удължаване на срока. Това е свързано с търсене на възможности за назначаване на младите хора за довършване на докторантурите си и съответно непланирано финансиране, а и самите докторанти губят някои финансови стимули, предвидени от закона.

През 2014 г. (към 31.12.2014) в ИМикБ са подготвяни общо 20 докторанти (3, от които със съвместно ръководство) в две форми на обучение – редовна (14), и самостоятелна (6) докторантура. През 2014 г. успешно са защитили 7 докторанти. Новозачислените докторанти през 2014 са общо 9 (6 – редовна форма и 3 свободна форма). Отчислените докторанти са общо 6 – 4 от редовна форма на обучение и 2 от свободна форма. Докторантурата на самостоятелна подготовка е перспективна форма и е добре да бъде застъпена в по-голяма степен, тъй като дава възможност за по-ефективна селекция на бъдещите учени и по-дълъг период за експериментална работа. Базата на „Лабораторен център Пастьор е използвана ефективно за подготовка както на докторанти от различни научни звена на Института, така и за обучението на студенти по молекулярна биология от Биологически факултет към Софийския университет и студенти от Факултета по ветеринарна медицина на Лесотехническият университет.

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, консумативи и условия за разработване на техните магистърски тези.

През 2014 г. общо в Института намериха работно място и 10 студенти по програмата „Студентски практики” на МОН., 23 студенти работят дипломните си работи с ръководители учени от ИМикБ, има и 3 докторанти със съвместно ръководство.

Подготовката на специалисти включва четене на лекции и водене на курсове – общо 660 часа и водене на упражнения и семинари - 848 часа в различни висши учебни заведения и институции: три факултета на СУ”Св. Кл. Охридски” - Биологически, Факултет по химия и фармация и Физически факултети; Факултет по ветеринарна

медицина на Лесотехническият университет; Химико -технологичен и металургичен университет, Университет по хранителни технологии - Пловдив; Аграрен Университет - Пловдив, Нов Български Университет, Пловдивски университет "Паисий Хилендарски", Медицински колеж „Й. Филаретова“, Институт по биология и имунология на размножаването, Институт по експериментална морфология, паразитология и антропология с музей и УМБАЛ "Иван Рилски"

6. ИНОВАЦИОННА ДЕЙНОСТ

6.1. Осъществяване на съвместна иновационна дейност с външни организации.

1. От колектив от Институт по микробиология – БАН, съвместно с фирма „Иновет” ООД

Авторски колектив от департамент „Приложна микробиология”, съвместно с фирма „Иновет” ООД разработи нова технология за компостиране на растителни отпадъци от оранжерии за биологична продукция. Тази технология е базирана на ензимна хидролиза при използване на смесена култура от подбрани мезофилни и термофилни щамове. Тя е по-ефективна и безвредна от други известни технологии за компостиране и може да се използва за рекултивация на бедни и замърсени почви. Предстои патентоване на получените резултати.

Области на приложение: опазване на околната среда и биологично земеделие, рекултивация на бедни и замърсени почви.

Заинтересовани от резултата: оранжерии за зеленчуци, фирми за рекултивация на почви, фермери.

2. Съвместен колектив от И-т по инженерна химия и от И-т по микробиология е разработил метод за получаване на 2,3-бутандиол, ценен продукт, намиращ приложение в химическата, фармацевтичната и хранителната промишленост. Методът е защитен с патент за изобретение BG6611 B1/31.01.2014. Разработката ще бъде използвана с перспектива за внедряване от ИХЕМ-БАН ООД.

Област на приложение: хранително-вкусова промишленост, фармацевтична промишленост, химическа промишленост.

6.2. Подготовка на трансфер на технологии

1. От колектива на Научно изследователска група „ММКМ”

Авторският колектив от Институт по микробиология – БАН, с ръководител доц. д-р Иван Симеонов, е разработил лабораторна биотехнология за анаеробна биодegradация на смеси от свински тор, отпадъчни плодове и зеленчуци и пшеничена слама, защитена с полезен модел „Състав за получаване на биогаз” (свидетелство за регистрация № 1814/22.01.2014).

Полезният модел се отнася до анаеробната биодegradация на смеси от свински тор, отпадъчни плодове и зеленчуци и пшеничена слама, при което се получава биогаз със сравнително високо съдържание на метан. Метанът е енергоносител и от него чрез когенерация се получава електрическа и топлинна енергии. Получаваният биошлам е естествен тор за биологичното земеделие.

Област на приложение: възобновяеми енергийни източници и биогорива, биологично земеделие

Заинтересовани от резултата: свиневъдни ферми, тържища за плодове и зеленчуци, фермери.

2. От колектива на Лаборатория по генетика на млечно кисели бактерии и пробиотици в сътрудничество с Лабораторията по инфекциозна имунология и възпаление към ИМикБ-БАН

Авторският колектив от Институт по микробиология – БАН, с ръководител доц. д-р Светла Данова, е разработил български щамове млечно кисели бактерии с доказан пробиотичен потенциал. За част от тях е стартирана процедура по регистрация на полезен модел, като процедурата за сега е замразена по финансови причини.

По този начин ще бъдат изпълнени основните изисквания на ЕФСА и СЗО и ще могат да бъдат предложени за внедряване (в много кратък срок) нов тип пробиотици, създадени за целеви групи от консуматори и за функционални храни/продукти с научно доказани здравни претенции.

Област на приложение: хранително-вкусова промишленост, фармацевтична промишленост

Заинтересовани от резултата: фирми за производство на закваски, на млечни продукти и на други ферментационни продукти; фирми от фармацевтична промишленост.

7. СТОПАНСКА ДЕЙНОСТ НА ЗВЕНТО

7.2. Отдаване под наем на помещения и материална база

Под наем са отдадени общо 7 помещения, намиращи се в блок 108 със съответни договори с 4 фирми и един квадратен метър за кафе машина в блок 26.

7.3. Сведения за друга стопанска дейност

ИМикБ не извършва стопанска дейност.

8. КРАТЪК АНАЛИЗ НА ФИНАНСОВОТО СЪСТОЯНИЕ

Отчетът е изготвен на база касово изпълнение на бюджет 2014 г.

Общите приходи на Института по микробиология са в размер на 1 952 570.00 лв., от които 1 508 156.00 лв. са бюджетна субсидия от БАН, увеличена 283 56.00 лв. Останалите 573 341.00 лв. са средства от договори с МОН – 7 898.00 лв., договори с ФНИ- 328 615.00 лв, договор с БАН – 20 000.00 лв., договори с български и чужди фирми за научни разработки и анализи – 77 652.00лв., валутни договори по международни програми – 83 462.00лв., проект от програма „Конкурентноспособност”- 34 236.00 лв., наеми – 5 132.00лв., продажба на бракувани материали – 1 827-00лв., дарения – 2 980.лв., такси участие в 13-тия Конгрес на българските микробиолози - 14 095.00 лв., такси за обучение на докторанти - 4 180.00лв. и лихви по банкови сметки -20.00лв.

През 2014 г. бюджетната субсидия е използвана за заплати – 1 098 924.00 лв. и осигурителни вноски върху заплатите – 201 106.00лв, за стипендии – 67 450.00 лв., обезщетения по КТ при пенсиониране – 12 856.00 лв., болнични от работодател – 6 291.00лв. За хонорари за Научен съвет /заседателни, журита, рецензии/-4 670,00лв. От субсидията за издръжка /ел. енергия, топлоенергия и вода/са изплатени–99 597.00лв., данък строителство и такса смет –5 145.00 лв.

Общо разходите, заплатени от бюджетната субсидия са 1 496 039.00лв.

Средствата от договори с МОН, валутни договори и др. са изразходвани за научно-изследователски разходи – 12 0013.00 лв., материали – 33 622.00лв., външни услуги и ремонти – 96 144.00лв., командировки в страната – 17 893.00лв. и чужбина – 49 853.00лв., дълготрайни материални и нематериални активи – 24 874.00 лв., възнаграждения по договори 86 044.00 и осигуровки- 10 15200 лв. и др. Общо разходите от собствени средства са – 444 705.00лв.

9. 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 21 263 бр., от които 4 810 бр книги и периодични издания 16 453 броя на обща стойност 304 013.18 лв. През 2014 г. в библиотеката са получени само 24 издания (3 книги и 21 списания). Абонаментът за руски и западни издания поради финансови причини е изключително редуциран. Общата стойност на новополучените издания е 525 лв. През 2014 г. постъпи дарение от проф. Хр. Найденски - 31 тома от “Большая медицинская энциклопедия” (1960) и 43 бр. книги от г-жа Венета Шишкова. В момента е започнато компютърното описание на библиотеката.

Библиотеката се обслужва до обяд от библиотекар на 3-часово работно време, като за годината посещенията са 121 броя. Необходимо е библиотеката да 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 по-стари издания, библиографски справки, несъществуващи в други електронни бази данни и пр. Като асоцииран институт към Институтите Пастьор, учените имат достъп и до информационната мрежа на Институтите Пастьор.

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

Дата на избиране: 27.02.2012 г.

10.1. Списък 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	Постоянна Месторабота
1.	Ангел Симеонов Гълъбов	дмн, “Вирусология”	академик, “Медицински науки”	пенсионер
2.	Тодор Веселов Кантарджиев	дмн, “Микробиология”	професор, “Микробиология”	НЦЗПБ
3.	Мария Богомилова Ангелова	дбн, “Микробиология”	професор, “Микробиология”	ИМикБ БАН
4.	Чавдар Любенов	дбн,	професор,	ИМикБ

	Василев	“Имунология”	“Имунология”	БАН
5.	Атанас Иванов Павлов	дтн, “Технология на биол. активни вещества”	Чл.-кор., “Аграрни и лесовъдни науки	УХТ - Пловдив
6.	Нина Димитрова Ивановска	дбн, “Имунология”	професор, “Имунология”	ИМикБ БАН
7.	Христо Миладинов Найденски	двмн, “Микробиология”	Чл.-кор., “Аграрни и лесовъдни науки”	ИМикБ БАН
8.	Любка Йорданова Думанова	д-р, “Вирусология”	доцент, “Вирусология”	ИМикБ БАН
9.	Данка Николова Гълъбова	д-р, “Микробиология”	доцент, “Микробиология”	пенсионер
10.	Златка Милчева Алексиева	д-р, “Микробиология”	доцент, “Микробиология”	ИмикБ БАН
11.	Маргарита Стоянова Камбуrowa	д-р, “Микробиология”	доцент, “Микробиология”	ИМикБ БАН
12.	Светла Трифонова Данова	д-р, “Микробиология”	доцент, “Микробиология”	ИМикБ БАН
13.	Пенка Младенова Петрова	д-р, “Микробиология”	доцент, “Микробиология”	ИМикБ БАН
14.	Андрей Иванов Чорбанов	д-р, „Имунология”	доцент, “Имунология”	ИМикБ БАН
15.	Веселин Кънчев Късовски	д-р, “Микробиология”	доцент, “Микробиология”	ИМикБ БАН
16.	Надя Димитрова Маркова	д-р, “Микробиология”	доцент, “Микробиология”	ИМикБ БАН
17.	Вера Атанасова Максимова	д-р, „Вирусология”	професор, „Молекулярна биология”	пенсионер
18.	Любомира Николаева Крумова- Гломб	д-р, „Вирусология”	доцент, “Вирусология”	НЦЗПБ
19.	Петя Асенова Димитрова	д-р, „Имунология”	доцент, “Имунология”	ИМикБ БАН
20.	Стоянка Рангелова Стоицова	д-р, „Паразитология”	доцент, „Морфология”	ИМикБ БАН
21.	Блага Ангелова Мутаfoва	д-р, “Микробиология”	доцент, “Микробиология”	ИМикБ БАН

10.2. СПИЪК на членовете на Международния научен съвет (INTERNATIONAL SCIENTIFIC BOARD) при Института по микробиология “Стефан Ангелов” – БАН

Fabian Wild	Professor, Expert in the Centre of WHO, Lion, France
Jeffery Almond	Professor, Head of the School of Animal and Microbial Sciences at the University of Reading, UK and Vice-President, Discovery Research and External Research and Development at Sanofi Pasteur
Anna Erdei	Professor, Head of Department of Immunology, University of L. Eotvos, Budapest, Hungary
Fergus G. Priest	Professor, Head of Life Sciences, International Centre for Brewing and Distilling, School of Life Sciences Heriot-Watt University Edinburgh, UK
Erik DeClercq	Professor, Director of Rega Institute for Medical Research at the Catholic University of Leuven, Belgium
Dietmar Fuchs	Professor, University of Innsbruck, Austria
Tomas Bley	Professor, Chair of Bioprocess Engineering, Institute of Food Technology and Bioprocess Engineering

КОПИЕ ОТ ПРАВИЛНИКА НЕ ПРИЛАГАМЕ, ТЪЙ КАТО НЯМА РАЗЛИЧИЯ ОТ ПРЕДСТАВЕНИЯ С ПРЕДИШНИЯ ОТЧЕТ

11. СПИСЪК НА ИЗПОЛЗВАНИТЕ В ОТЧЕТА И ПРИЛОЖЕНИЯТА СЪКРАЩЕНИЯ

1. 7РП - 7 Рамкова програма към ЕС
2. ACIP - Action Concertée du Reeseau International des Insituts Pasteur (Inter-Pasteurien Concerted Actions)
3. EFSA - Европейската федерация по безопасността на храните
4. FEMS - Federation of European Microbiological Societies (Федерация на Европейските Микробиолози)
5. IUMS - International Union of Microbiological Societies
6. RIIP - The Institut Pasteur International Network
7. АРОО - анаеробното разграждане на органични отпадъци
8. БАБХ – Българска агенция по безопасност на храните
9. ЗРАСРБ – Закон за развитието на академичния състав в Република България
10. БФ - Биологически факултет
11. ДВУ - държавни висши училища
12. ИБЕИ - Институт по биоразнообразие и екосистемни изследвания -БАН
13. ИМикБ - Институт по микробиология
14. ЛТУ - Лесотехнически университет
15. МВнр – Министерство на външните работи
16. МОМН - Министерство на образованието, младежта и науката
17. НАОА - Националната Агенция за Оценка и Акредитация
18. онс – образователна научна степен
19. РАН – Руска Академия на Науките
20. СНС - Специализиран научен съвет
21. УАН – Унгарска Академия на Науките
22. УХТ - Университет по хранителни технологии
23. ФНИ - Фонд „Научни изследвания”
24. ХТМУ - Химико-технологичен и металургичен университет
25. ФХФ – Факултет по химия и фармация

12. ДОПЪЛНИТЕЛНИ СПИСЪЦИ

12.1. ПУБЛИКАЦИИ НА УЧЕНИТЕ ОТ ИМикБ ЗА 2014 г

I. ИЗЛЕЗЛИ ОТ ПЕЧАТ ПРЕЗ 2014 г.

I.1. НАУЧНИ ПУБЛИКАЦИИ, РЕФЕРИРАНИ И ИНДЕКСИРАНИ В СВЕТОВНАТА СИСТЕМА ЗА РЕФЕРИРАНЕ И ИНДЕКСИРАНЕ

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I.2. НАУЧНИ ПУБЛИКАЦИИ, РЕФЕРИРАНИ И ИНДЕКСИРАНИ И ВКЛЮЧЕНИ В ИЗДАНИЯ С ИМПАКТ ФАКТОР (IF) ИЛИ ИМПАКТ РАНГ (SJR) – ТЕ СА ЧАСТ ОТ ПОСОЧЕНИЯ ПО-ГОРЕ БРОЙ

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II. ПРИЕТИ ЗА ПЕЧАТ С ДОКУМЕНТ ОТ ИЗДАТЕЛЯ

II.1. НАУЧНИ ПУБЛИКАЦИИ, РЕФЕРИРАНИ И ИНДЕКСИРАНИ В СВЕТОВНАТА СИСТЕМА ЗА РЕФЕРИРАНЕ, ИНДЕКСИРАНЕ И ОЦЕНЯВАНЕ

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