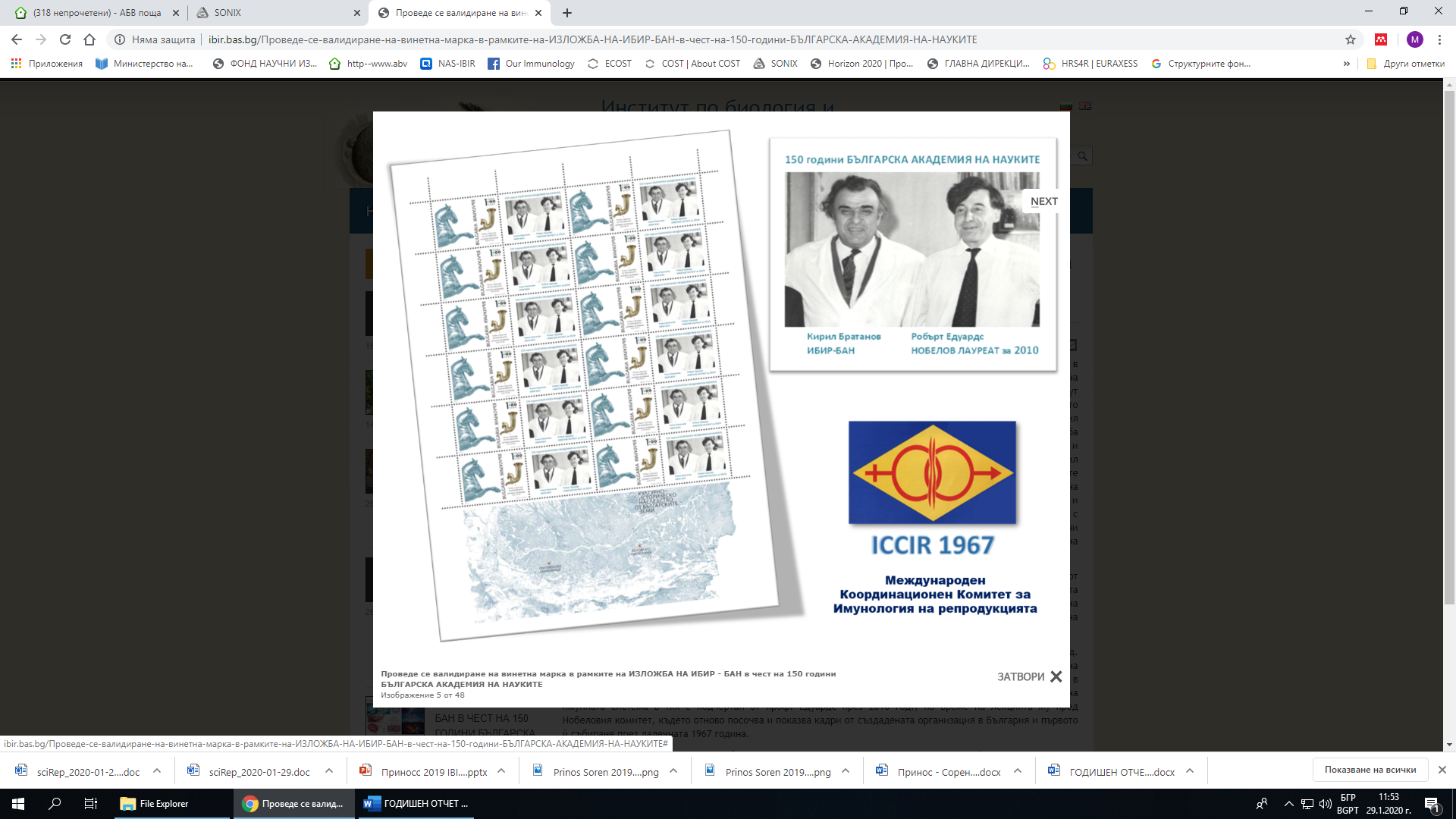
***Българска Академия на Науките***

***ИНСТИТУТ ПО БИОЛОГИЯ И ИМУНОЛОГИЯ НА РАЗМНОЖАВАНЕТО***

***„Акад. К. Братанов”***



***ГОДИШЕН Отчет***

***за научноизследователската, учебната и финансова дейност на ИБИР – БАН***

***за 2019 г.***

**ГОДИШЕН ДОКЛАД НА ИБИР-БАН, 2019**

**ПРОБЛЕМАТИКА НА ЗВЕНОТО**

**Преглед на изпълнението на целите (стратегически и оперативни) на звеното**, **оценка и анализ на постигнатите резултати и на перспективите на звеното в съответствие с неговата мисия и приоритети, съобразени с утвърдените научни тематики**

ИБИР-БАН е утвърден научен център и извършва фундаментални и приложни научни изследвания, както и образователна дейност в областта на биология и имунология на размножаването при животните и човека. ИБИР–БАН е институт - инициатор на направлението “Имунология на репродукцията” и заедно с Нобеловия лауреат проф. Робърт Едуардс е учредител на Международния Координационен Комитет по Имунолгия на репродукцията. ИБИР е един от пионерите в Европа по въвеждането на ембриотрансфера и криопрезервацията на гамети в развъждането на селскостопански животни. ИБИР – БАН е водеща научна организация в националното научно пространство по отношение на изследванията свързани с биологията и имунологията на размножаването, отразяващи научните приоритети на БАН и Националната програма за развитие на науката. Като научноизследователска организация, ИБИР-БАН е институция, осъществяваща фундаментални и индустриални научни изследвания в областта на репродукцията, като разпространява резултатите от тях посредством преподавателска работа, публикуване или трансфер на технологии (Регламент ЕС 651/2014). *Стратегическите цели* на ИБИР са разширяването на научното познание и разработката на технологии, свързани с проблемите на репродукцията, биологията на развитието и столовите клетки, онкогенезата и криобиологията, представляващи изключително социално предизвикателство пред Европейската и особено пред българската общност, във връзка с повишеното застаряване на населението и рязко намаления прираст. Във връзка с тях, ИБИР има поставени следните *оперативни цели* – задълбочаване и повишаване на качеството на провеждане на медико-биологични изследвания с фундаментален и приложен – транслируем характер по отношение на инфертилитета, основан на биологични и/или имунологични причини и при двата пола, имплантацията и ембриогенезата, ролята на стволовите клетки в репродукцията и онкогенезата. ИБИР-БАН разшири и осъвремени фундаменталното ниво на изследваните проблеми в област репродукция през последните няколко години: изследвания на вродената имунна сигнализация и автофагията, и ролята им в мъжкия инфертилитет, промени в механизмите на епигенетичната регулация на гени, свързани с онкогенезата и репродукцията, изследване на механизмите на действие клинично значими пептиди с имуномодулиращи свойства, роля на НК и Т-регулаторните клетки в имплантацията. Значително бе повишен методологичния инструментариум в отговор на поставените предизвикателства: разработване на клетъчни моделни системи с помощта на геномно редактиране и секвениране от трето поколение, целящо директен епигенетичен и транскриптомен анализ. Разширен бе обхватът на изследвания - от свързани с човека и селскостопанските животни, към такива насочени към дребни домашни животни.

Научните резултати се транслират в практиката, чрез разработката на маркерна диагностика, модифицирането на методи за криоконсервация на репродуктивни клетки и тъкани, техники за асистирана репродукция, изолиране и диференциране на мезенхимни стволови клетки, тестване и приложение на биологично активни субстанции в репродуктивните биотехнологии.

Индустриалната изследователска програма на ИБИР е насочена в две области: - технологии за асистирана репродукция и криобиология, свързани с криопрезервация на овариални тъкани и гамети, оптимизация на технологии за асистирана репродукция, развитие на нови методи за оценка на качество на гаметите и жизнеспособността на ембрионите; - репродукция при животните и технологиите за развъждане, отговаряща на Стратегическата изследователска програма на FABRE-TP, насочена към оптималното използване и възстановяване на селскостопанските и природните ресурси и подобряване на качеството на живот.

За постигане на стратегическите си цели, и създаване на предпоставки за устойчиво развитие на изследователския процес и адекватно осигуряване на технологичен и човешки ресурс, през 2019 ИБИР-БАН успешно реализира участието си в два дългосрочни научни проекта.

* Като част от ***Националната пътна карта*** за научна инфраструктура ИБИР участва като основен партньор в **„Научна инфраструктура по клетъчни технологии в биомедицината (НИКТБ)“**, съвместно с коодринатор Софийски университет „Св.Кл.Охридски“ и друг основен партньор - Институт по биофизика и биомедицински изследвания – БАН. Към НИКТБ са присъединени и редица асоциирани партньори - Съвместния геномен център към СУ и редица центрове за асистирана репродукция. Целта на проекта е осъвременяване на технологичното ниво на изследвания, създаване на дългосрочна програма за развитие на интердисциплинарни кадри с умения в области с биологично и техническо приложение и осъществяване на рамка за координирани изследвания с фундаментален и транслационен характер в областите репродуктивна и регенеративна медицина, както и модели за валидиране на нови решения за онко-терапия.
* ИБИР-БАН е и основен партньор и изпълнител от страна на БАН по ***Национална програма*** за научни изследвания **РЕПРОБИОТЕХ**. Целта на програмата е практическо внедряване на иновации с икономическа ефективност и постигне на ефективно подпомагане на българското животновъдство, ускорено възпроизводство и увеличаване на животинската биомаса за нуждите на населението~~.~~

**Изпълнение на *Националната стратегия за развитие на научните изследвания 2020*.** **Извършени дейности и постигнати резултати по конкретните приоритети**

Дейността на ИБИР-БАН е в съзвучие с утвърдените от ОС на БАН мисия и приоритети в направление "*Биомедицина и качеството на живот*", хармонизирана е с новата *Националната стратегия за развитие на научните изследвания в България до 2025*, с приоритет “*Здраве и качество на живот, биотехнологии и екологична храна*” и с програма „*Хоризонт 2020*“ на ЕК - Рамкова програма за Изследвания и иновации за периода 2014 – 2020, Приоритети: “*Здраве, демографски промени, благосъстояние и безопасна храна, устойчиво земеделие и био-икономика*”. С оглед интегрирането в Националната стратегия за интелигентна специализация и на новите направления, развити с инициирането на Програмата на ЕК - Хоризонт 2020, ИБИР вече **пета** година следва нова актуализирана дългосрочна стратегия за развитие. Новата стратегия предвижда работа и показатели отговарящи на Европейските и световните критерии, съобразени с количествените индикативни параметри на националния Правилник за наблюдение на научните организации, ДВ, бр. 72 от 18.09.2015, мярка от новата Национална стратегия. Съгласно стратегията и правилника, ИБИР-БАН **пета** поредна година публикува статии в престижни международни издания с висок импак фактор, някои от които са и в първите 10% на ранга на списания в съответните тематични области (според глобалния ранг на ISI Web of Science и ранга на списания по тематичните области на Science Journal Rankking SciImago на издателство Elsevier). Достигната е устойчива тенденция през последните **5** години и за публикуване на оригинални научни статии с импакт фактор (над 2) и в квартил 1.

ИБИР разшири своето участие в националните донорски програми за наука с участието си по Национална пътна карта за инфрастркутура, Национална научна програма Репробиотех, Национална научна програма „Вихрен“, програмата за подпомагане на млади учени към БАН, актуализира стандартите си за обучение на докторанти и постдокторанти, получавайки изключително високи оценки в акредитаципнните си оценки на специалностите „имунология“, „физиология на човека и животните“ и „развъждане на селско-стопанските животни“.

През 2019 трима млади учени от ИБИР (Мадлена Андреева „Изследване влиянието на породните особености при овце върху криотолерантността на сперматозоидите“; Милена Костадинова „Изследване на растежа на туморни клетки от комерсиални линии при дългосрочно ко-култивиране с мезенхимни стволови клетки“ и Цветан Цветков „Семинално плазмени протеини свързани с процеса на капацитация“) бяха участници/бенефициенти по Национална Програма Млади учени и постокторанти. Анализът на представянето им е удовлетворяващ и мотивира бъдещо участие на по-голям брой млади изследователи от ИБИР в програмата. Освен конкретните резултати по изследователските им програми, изпълнението на програмта се отчита с 12 конгресни участия и три подготвени публикации.

ИБИР повиши участието си в акции по програма COST на ЕК, разширявайки спектъра си на научни разработки и колаборации, и създаването и участието в нови научни мрежи. През 2019 от ИБИР бяха подадени и финансирани от ФНИ три нови проекта по COST Actions 16113 (Национално съфинансиране, проект номер КП-06-KOCT/6), 16119 (Национално съфинансиране, проект номер КП-06-KOCT/21) и 15138 (Национално съфинансиране, проект номер КП-06-KOCT/24).

Нивото на иновационната дейност също е повишено, започвайки от 2014 год., с подаване на заявка за национален патент, колаборация с национални и чуждестанни индустриални партньори, с които има издадени национален полезен модел (2016), световен/американски и европейски патент (2016), както и два нови европейски полезни модела (2018).

Трайната тенденция за повишената цитируемост и качествено ново ниво на публикационна дейност ще позволи на ИБИР по-висока успеваемост при кандидатстването за ново проектно финансиране от страна на Фонд Научни Изследвания към МОН и инициативи по програма Хоризонт 2020. Дългосрочно, стратегията предвижда научно-приложна продукция за нуждите на експерименталната, репродуктивната и регенеративната медицина, онкологията и създаване на транслационни терапевтични решения.

**По инициативата за „Развитие на научния потенциал за икономика и общество, базирани на знания“, ИБИР продължава политиката си заИнтеграцията в Европейското научно пространство, чрез следните дейности:**

През 2019, ИБИР участва в 4 текущи акции на програма COST и има 4 приключени до момента (FA0602, “Bioactive food components, mitochondrial function and health” – до 2011; FA1201, “EPICONCEPT” – до 2016; FA1205, “AQUAGAMETE” – до 2016; COST Action FA1403 POSITIVe Interindividual variation in response to consumption of plant food bioactives and determinants involved – до 2019). ИБИР беше домакин за 2019 год. на годишната среща на акция CA15138, „Transautophagy“ (2017-2021), посветена на фундаменталните изследвания на автофагията и транслиирането им в клиниката. По отделните акции са осъществени мобилности на млади учени с цел обучение, представяне на научни съобщения и срещи на членовете на Управителните комитетите (УК) и участие на националните представители за акцията. В УК на различните акции, членуват следните учени от ИБИР: проф. С. Хайрабедян, проф. К. Тодорова, доц. М. Мурджева, доц. Е. Кистанова, доц Орешкова.

Кариерното развитието в ИБИР на академичния състав през 2019 г. включва защита на ОНС „Доктор“ на 4 докторанта (Антония Терзиева, Ваня Младенова, Десислава Градинарска, Мая Попова), пета запонала процедура – Надя Петрова, защита на 4 февруари 2020 и един конкурс за главен асистент (Марина Христова).

*Качеството на научни изследвания се подържа в съзвучие с новата стратегиия на МОН за развитие, като ИБИР се мониторира съгласно Правилника за наблюдение на дейността на научните оргазизации, съблюдаавайки високи критерии за научна продукция.* При научен състав от 38 изследователи са взети мерки за намаляване на хетерогенността на продуциращите статии публикувани в реферирани и рецензирани издания (вкл. с импак фактор). Като част от годишния отчет на ИБИР се проследяват поименно приностите на изследователите по отношение на публикации, цитирания и проектно финансиране и участие.През 2019 год. от учени в ИБИР са публикувани 23 публикации с общ WoS импакт фактор 33.62, като за сравнение през 2018 тези публикации са били 24 с IF 39.62, през 2016 тези публикации са били 17 с IF 44.20, а през 2015 год. са били 21 с IF 36.41. Всички публикации с IF са 80% от публикуваните в реферирани и индексирани източници. Отделно 19 са публикациите в национални нереферирани в международната система източници.

**Участие в научни инфраструктури**

За постигане на стратегическите си цели, и създаване на предпоставки за устойчиво развитие на изследователския процес и адекватно осигуряване на технологичен и човешки ресурс, ИБИР-БАН успешно стартира участието си в два дългосрочни научни проекта. Като част от ***Националната пътна карта за научна инфраструктура*** ИБИР участва като основен партньор в **„Научна инфраструктура по клетъчни технологии в биомедицината (НИКТБ)“**, съвместно с коодринатор Софийски университет „Св.Кл.Охридски“ и друг основен партньор - Институт по биофизика и биомедицински изследвания – БАН. Към НИКТБ са присъединени и редица асоциирани партньори - Съвместния геномен център към СУ и редица центрове за асистирана репродукция. Целта на проекта е осъвременяване на технологичното ниво на изследвания, създаване на дългосрочна програма за развитие на интердисциплинарни кадри с умения в области с биологично и техническо приложение и осъществяване на рамка за координирани изследвания с фундаментален и транслационен характер в областите репродуктивна и регенеративна медицина, както и модели за валидиране на нови решения за онко-терапия. През 2019 год. НИ КТБ старира изграждането на следните платформи - Клетъчни технологии, Омикс технологии, Ин-виво образен анализ, Криоконсервация и криобанкиране, Информационно обслужване и биоинформатика. Като партньор по НИ КТБ, ИБИР-БАН участва в разработването на част от документацията по правилата за използване и достъп до НИ, участва в панела представящ страната и инфраструктурата пред Европейската инфраструктура за транслационна медицина – EATRIS, и започна изграждането на платформата си за ОМИКс технологии с добавяне на изчислителен модул към платформата си за 3 поколение новогенрационно секвениране, както и микрофлуидна технология за системно-биологични изследвания към платформата си за клетъчни технологии. След успешно приет първи етап, за следващата 2020 год. ИБИР е бенефициент на транш от 610 000 лв. за изграждане на следващите етапи от платформите за системно-биологичен подход за анализ на мултипараметрични системи свързани с репродуктивната и регенеративната биология и медицина. Платформите включват обордуване за получаване на едноклетъчни суспензии от сложни тъкани, секвениране и профилиране на единични клетки, биопринтиране на сложни мнококлетъчни модели, високопроизводително секвениране от 3-то новогенерационно секвениране със свързаните методи за получаване и комплесен анализ на нуклеинови киселини и биоинформатичен анализ и съхраняване на данни, за нуждите на инфраструктурата.

ИБИР-БАН е и основен партньор и изпълнител от страна на БАН по ***Национална програма за научни изследвания*** **РЕПРОБИОТЕХ**. НПП „РЕПРБИОТЕХ“ е насочена към разработване и прилагане на иновативни технологии в размножителния процес при селскостопански животни, включително при едри преживни (крави и биволи), дребни преживни (овце и кози) и еднокопитни ( кобили и магарици), с цел да се подпомогне възпроизводството при тези видове. През 2019 година съвместно с партьорите си ИБИР-БАН работеше по основните задачи на програмата и получи следните резултати:

**1.Селектиране на разплодниците, подготовка, получаване и оценка на генетичeн материал**

За първи път чрез профилиране на протеини в семинална плазма са характеризирани разплодници от български породи селскостопански животни: кочове от Черноглава Плевеската порода и коне от Източно Българска порода.

**2.Технологични аспекти за репродукция**

С целусъвършенстване на биотехнологии за съхранение на сперма за изкуствено осеменяване са изпитани две криопротективни среди и различни разредители при криоконсервация на семенна течност при коне и е проучена възможността за съхранение на охладена сперма (5ºC) с добавка на натурален антиоксидант орегонин към основния разредител при кочове.

**3. Биотехнологии за интензификация на репродукцията**

Направено е индуциране на синхронен еструс в извънслучен сезон при овце от Синтетична популация българска млечна чрез мелатонин - прогестагеново третиране и синтетичен аналог на PGF 2α с цел повишаване икономическа ефективност на стадото и опит за целогодишно получаване на мляко.

Третирането с биодобавка AyuFertin (Indian Herbs, Ltd) стимулира възстановяване на цикличната активност на яйчниците при биволици след раждане, което е подтвърдено от направените ехографски изследвания.

Хранителна добавка Equi Vita Forte (The Netherlands), давана на кобили по определена схема в продължение на 6 седмици, положително влияе не само върху хематологичните параметри, но и върху репродуктивния статус и би могла с успех да се използва за интензификация на репродуктивния процес при кобили.

**4. Епигенетиката като иновация при решаване на проблеми в репродуктивния процес**

Проведени са анализи на глобалния метилационния статус на ДНК от сперматозоиди от различни разплодници, с цел предиктивна селекция и оптимизация на репродктивната технология. Предстои корелация със секвениране на ДНК.

**5. Транфер на знания и иновации**

Научните резултати са представени на международна конференция /ЕСДАР, два постера с отпечатване на резюмета в реферирано списание с ИФ/ и на две национални с международно участие /Румъния – доклад; Ст.Загора – два доклада и един постер/. Излезли са от печат две статии в списание реферирано в Скопус и една в сборник от конференция.

**Полза/ефект за обществото от извършените дейности**

**Във връзка с нарастващата опасност от демографския срив в страната,** ИБИР е водещ в страната научен център, занимаващ се с биомедицинските проблеми свързани с намалена раждаемост и проблемите на преждевременното и застаряващо майчинство. Във връзка с това в ИБИР са направени нови фундаментални изследвания и са внедрени в кличната практика нови приложни технологии, които имат значение за репродуктивното здраве:

Получените резултати по проект ДН 03/5, финансиран от ФНИ, Медицински науки, втори етап “Профил на γδ T лимфоцитите при нормална бременност и в плацентобиома на БЦЖ-ваксинирани бременни жени” с ръководител доц. Димова показват, че значителна пропорция от γδТ клетките на майчино-феталната граница са цитотоксични (ко-експресират перфорин, гранзимА и гранулизин), но сравнителният анализ на количеството на перфорин-съдържащи γδТ клетки в децидуа и кръв от една и съща бременна жена (чифтни образци) показва достоверно по-малкото им количество на майчино-феталната граница в сравнение с кръвта на бременните жени. Липсата на перфорин при наличие на гранули с гранзимА дефинира γδТ клетките по-скоро като проинфламаторни, отколкото цитотоксични. ТCR репертоарът на γδ Т клетките в ранна и терминална децидуа, както и в кръвта на бременните жени показва поликлонални профили на δ1, δ2 и δ3 веригите γ2, γ3, γ4, γ5 и γ8 веригите и олигоклонален и силно рестриктиран CDR3γ9 репертоар (***Terzieva A, Dimitrova V, Djerov L, Dimitrova P, Zapryanova S, Hristova I., Vangelov I, Dimova T. Early pregnancy human decidua is enriched with activated, fully differentiated and pro-inflammatory gamma/delta T cells with divers TCR repertoires.*** ***Int. J. Mol. Sci. 2019, 20, 687, doi:10.3390/jims20030687.*** ***IF 3.687, Q1-Chemistry, Q1-Medicine; 2.Dimova T. Gamma/delta T cells in pregnancy. Chapter in Immunology of pregnancy, Book edited by Gil Mor, publisher Elsevier (под печат)***. Беше установено, че трансплацентарният трансфер на микобактериални L форми при БЦЖ-ваксинирани бременни жени настъпва рано по време на бременността (6-та гест. седмица) като колонизацията на плацентата е предшествана от колонизация на децидуата ***(Dimova T., Dimitrova V., Grozdanov P., Markova N. BCG-vaccination in the babyhood of the women influences their placenobiome during pregnancy: colonization of early pregnancy placenta with mycobacterial L forms. 14th ISIR and 34th JSIR, 13-16 November 2019, Nara, Japan, Abstract Book, P-017, poster)***.

**Взаимоотношения с други институции**

ИБИР-БАН има договорености за преподавателска и научно-изследователска (или научно-приложна) дейност с редица институции. В рамките на тези между-институционални договори се осъществяват съвместни научни изследвания, подготовка и разработка на съвместни проекти, подготвят се съвместни публикации, обучават се магистри и докторанти и специализанти, организира се активно участие в научни мероприятия, както и в курсове за обучение, провеждани от ИБИР или от партньорите.

**Договори на ИБИР с изследователски институции:** Институт по животновъдни науки в Костинброд - Селскостопанска академия; Опитна станция по земеделие – Средец - Селскостопанска академия на науките; Ветеринарно-медицински факултет при Тракийски университет, Стара Загора; Агробиологичен факултет, Тракийски университет, Стара Загора; Аграрен университет, Пловдив; Медицински университет /Катедра по биология/, София; Факултет по ветеринарна медицина при Лесотехнически университет, София; Биологически факултет при Софийски университет; Изследователски институт по планинско земеделие и животновъдство, Троян; Селскостопански институт в Шумен; Медицински университет, Пловдив; Медицински университет, Плевен; Институт по рибарство и аквакултури, Пловдив; Договор с Институт по Електроника – БАН.

**ИБИР има сключени договори за съвместна дейност със следните институции**: Болница Токуда, СБАЛОЗ, София**,** Медицински център “РепроБиоМед”; Център по репродуктивно здраве “Надежда”; Медицински център “Репродуктивно здраве”; Медицински Център „Вяра”; Медицински център „Димитров”; КИРМ; Договор с Частна ветеринарна клиника, София.

**Общонационални и оперативни дейности, обслужващи държавата** (макс. 2 стр.) – плюс до 2 илюстрации

ИБИР-БАН е партньорска организация на Европейската Агенция за безопастност на храните (EFSA), която работи в тясно сътрудничество с Българската Агенция по безопастност на храните (БАБХ). Институтът има специалисти с компетенции в тази област и се подготвя да стане фокален център към Агенцията.

**Практически дейности, свързани с работата на национални, правителствени и държавни институции, индустрията, енергетиката, околната среда, селското стопанство, национални културни институции и др. (относими към получената субсидия)**

След работата по проект "Въвеждане на съвременни методи от репродуктивната биология към образованието и работа с млади таланти", с ръководител доц. Десислава Абаджиева, през 2018 год., през изминалата година успешният опит на ИБИР и на доц. Абаджиева беше продължен чрез два нови проекта по **Програма „Образование с наука“.** Програмата има за цел да подобри информираността и достъпа на учениците, учителите и работещите в сферата на образованието до институтите на БАН.

Един от участниците в програмата за периода 2019-2020 г. е ИБИР-БАН със следните подпроекти:

1. **Лятна школа „Въвеждане на иновации в образователната школа по биология и имунология“ -** Има за цел да ангажира интереса на ученици към биологията в прогимназиален и гимназиален етап на образованието. През 2019 г. бяха организирани посещения в института и лабораториите му, а по време на лятната ваканция - организирана школа.

* Ръководител: доц. Десислава Абаджиева
* Бюджет: 16 000 лв.

1. **STEM „GoBiology“ -** Основна цел на проекта е да бъде предоставена достъпна алтернатива на тези училища, ученици и учители, които не разполагат със специализирани кабинети и изпитват трудност да демонстрират връзката между теорията и реални биологични наблюдения. Допълнителен стремеж на проекта е да помогне в процеса на възстановяване на кабинетите, чрез свободно предоставяне на учебни материали, които могат да бъдат използвани от учителите в процеса на обучение. За да бъде реализирана целта на проекта ще бъдат създадени обучителни продукти –лекции, текстови материали, презентации и графики, както и широк набор продукти за проверка на знанията – тестове, адаптиращи се към нивото на обучаемия, експериментални постановки и др. Създадените продукти ще бъдат обединени в тематичен онлайн курс, чрез онлайн платформата VIVA Cognita.

- Ръководител: доц. Десислава Абаджиева

- Бюджет: 15 000 лв.





* Трима изслдователи от ИБИР-БАН (проф. Красимира Тодорова, дбн, доц. Мурджева, проф. Сорен Хайрабедян, дбн) бяха поканени от Министерство на околната среда и водите (МОСВ) като експерти по скрийнинг на вещества с въздействие върху здравето и по-специално ендокринни дизруптори, вещества увреждащи репродуктивните способности и пр. През 2019 проф. Тодорова и доц. Мурджева изготвиха експертни оценки по две отделни процедури, като част от националния екип участващ в процедури за скрийнинг на индустриални и битови химически вещества анализирани от Европесйка Агенция за химически вещества – ECHA (European Chemicals Agency), съгласно системата на ЕС за регистрация, оценка, оторизация и ограничение на химически вещества - RECH (Registration, Evaluation, Authorisation and Restriction of Chemicals)
* **Членове от научният колектив на ИБИР са експерти в национални правителствени институции:**
* Член на ПНЕК на комисията за двустранно сътрудничество на МОН - Проф. С. Лолов, дмн
* Член на ПНЕК на комисията за двустранно сътрудничество на МОН - Кистанова ФНИ
* Експерт към фонд „Асистирана репродукция“ към МЗ - Доц. П. Тодоров
* Учени от ИБИР имат договори за съвместна научно-изследователска и приложна дейност с Медицински Център „Димитров” (Ръководител доц. Пламен Тодоров), договор за провеждане на съвместна научно-изследователска и приложна дейност с фирма ГАЛБА ООД, „Централна ветеринарна клиника“, Пловдивски университет „Паисий Хилендарски“, Софийски университет „Св. Климент Охридски“ (проф. М Иванова, доц. М. Мурджева)

**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 (заглавие, програма, по която се финансира, координатор, и постигнати резултати)

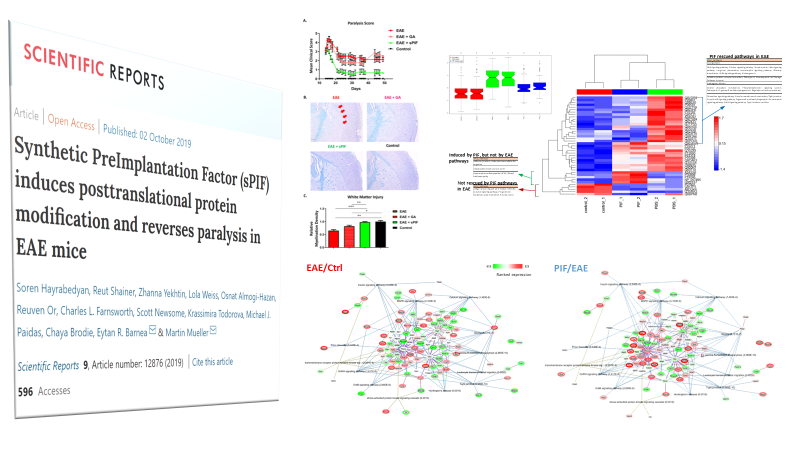
* ***Националната пътна карта за научна инфраструктура*** ИБИР участва като основен партньор в **„Научна инфраструктура по клетъчни технологии в биомедицината (НИ КТБ) – ИБИР-БАН и ИБФМИ-БАН** са основни партньори на СУ „Кл. Охридски“ по тази програма, като участват в изграждането на изключително модерна научна инфраструктура за системно биологичен комплексен анализ на биологически феномени свързани с репрофуктивната и регенеративната медицина. (Подробности по-горе и на сайта на инфраструктурата - <http://www.alliancecelltechnologies.eu/organizatzii>; <https://naukamon.eu/научна-инфраструктура-по-клетъчни-те/>; )
* ***ННП Репробиотех – Национална научна програма Репробиотех –*** ИБИР-БАН е основен партньор по програмата прилагане на репродуктивните биотехнологии в животновъдството в България (Подробности по-горе и на сайта - <http://reprobiotech.eu/> )
* ***НП Млади учени – трима млади учени от ИБИР участваха в програмата през 2019.***

**РЕЗУЛТАТИ ОТ НАУЧНОИЗСЛЕДОВАТЕЛСКАТА ДЕЙНОСТ ПРЕЗ 2019 г.**

**ЕДНО** най-значимо **научно постижение** и съответната графична илюстрация към него с кратък подфигурен текст.

Автоимунните реакции срещу миелиновите обвивки на нервните клетки се считат за основни в развитието на заболяването мултиплена склероза (МС). Настоящите подходи за лечение водят до намаляване на честотата на възпалителни отговори, но не са в състояние да спрат процеса на невродегенерация.

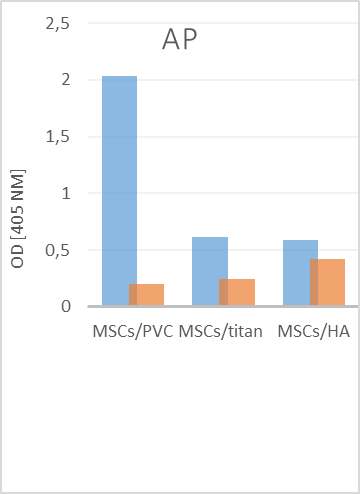
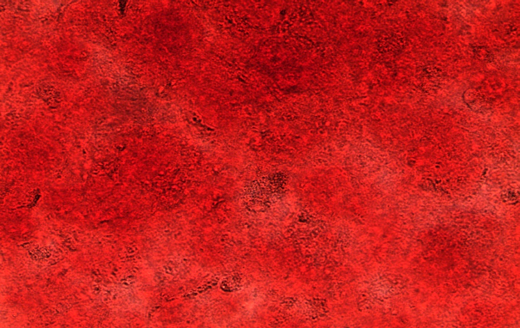
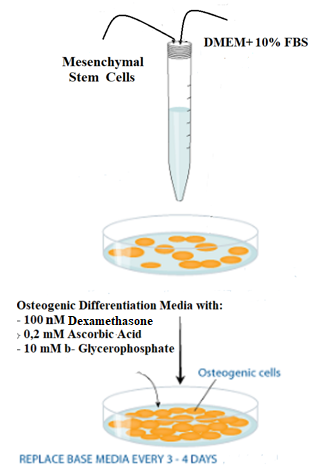
Международен екип от изследователи от САЩ, Швейцария, Израел и България, изследващи интензивно възможностите за транслационно терапевтично приложение на изолиран от ембриони имуномодулиращ пептид, показват на експериментален миши модел на мултиплена склероза с автоимунен енцефалит, възможността този пептид да възстановява в значителна степен клиничната картина при животните, подобрявайки състоянието им два пъти повече от контролен медикамент. Механизмът на действие бе изследван с помощта на ин витро и ин виво методи, както и с анализ на промените на фосфопротеома на нервна тъкан, изолирана от мишките. Одобреният от американската агенция по храни и лекарства пептид PreImplantationFactorTM, има способност да възстанови нормалното производство на редица протеини които се променят при експерименталния модел на мултиплена склероза, както и да доведе до корекция на профила на прибавяне на фосфо-групи към тях (т.нар. пост-транслационни модификации).

В екипа участват двама изследователи от Института по биология и имунология на размножаването при БАН – проф. д-р Сорен Хайрабедян и проф. Красимира Тодорова, като проф. Хайрабедян е първи автор в проучването. В ИБИР-БАН преди бе извършен комплексен анализ на механизма на действие на пептида, показващ кои аминокиселинни остатъци са отговорни за свързването му с различни прицелни молекули в клетките.  ***От международен екип с участие на проф. Хайрабедян и проф. Тодорова бе установено кои са промените в протеините, какви са профилите на допълнително модифициране, чрез фосфорилиране и кои сигнални пътища са засегнати при миши модел на мултиплена склероза с автоимунен енцефалит, третиран с PIF.***

**ЕДНО** най-значимо **научно-приложно постижение** и съответната графична илюстрация към него с кратък подфигурен текст.

Всяка година на смяна на тазобедрената става в България се подлагат около 3000 човека. Основната цел на проект **Идентифициране на биологично активни вещества, оптимизиращи диференцирането на мезенхимни стволови клетки при ставно протезиране** (бенефициент ИБИР и партниращи експерти от УМБАЛ „Царица Йоанна -ИСУЛ”, СУ „Св. Климент Охридски“ - БФ и УМБАЛ Св.И.Рилски) е да посочи биологично активно вещество/a, достъпно/и за ползване в клиничната практика, което да подобри показателите на клетките, култивирани върху материалите, от които се приготвят имплантите.

Благодарение на изследванията през 2019 екипа разработи модели на мезенхимни стволови клетки (MSC), култивирани върху метални пластини от материала на протезите (1), керамични повърхности, идентични с тези на протезите (2) и върху класически пластмасови съдове (3). Беше проследена пролиферацията чрез МТТ и alamarBlue® тестове. В резултат на тези изследвания бяха получени сравнителни пролиферативни криви за всеки пациент при трите условия на култивиране на клетките. След това клетки в трите експериментални условия бяха подложени на остеогенна диференциация, като степента й беше оценена чрез оцветявания за алкална фосфатаза и отлагане на калциеви йони.



***Модел на остеогенна диференциация на мезенхимни стволови клетки (MSC), култивирани върху метални пластини от материала на протезите (1), керамични повърхности, идентични с тези на протезите (2) и върху класически пластмасови съдове (3). Ivan Bochev, Milena Kostadinova, Boris Antonov, Tsvetelina Oreshkova, Plamen Kinov, Milena Mourdjeva. TI6AL4V alloy and β-Tricalcium Phosphate based systems for in vitro studying of mesenchymal stem cell functions at implant–tissue interface. Biotechnology & Biotechnological Equipment (submitted).***

**МЕЖДУНАРОДНО СЪТРУДНИЧЕСТВО НА ЗВЕНОТО**

**Основни насоки и политики, перспективи, до ½ стр. текущ международен проект**

ИБИР е създател и съучредител на Международния координационен комитет по „Имунология на репродукцията” ICCIR (International Coordination Committee for Immunology of Reproduction). През 2018 ИБИР и МККИР организираха юбилеен 15 конгрес с участието на водещите изследователи в областта на имунология на репродукцията от Европа, САЩ, Япония. От 2018г. Председател на МККИР е проф. Хайрабедян и секретар доц. Мурджева. С това традицията ИБИР да бъде седалище и учени от ИБИР да ръководят дейността на комитета ще бъде продължена.

Основните насоки за научно сътрудничество на ИБИР в научно-фундаментален план са международни организации в областта на репродуктивната биомедицина и онкологията. ИБИР е участник в научната мрежа, изучаваща регистрирания от американската FDA пептид с търговско име „ПреИмплантационенФактор“ имащ значение за лечението на социално-значими заболявания като мултиплена склероза, Алцхаймер, диабет и атеросклероза посредством мощни поливалентни имуномодулаторни свойства. ИБИР има публикувани научни резултати с групи от САЩ, Щвейцария, Израел,и др. В научно-приложен план ИБИР си сътрудничи в областта на репродуктивните биотехнологии в асистираната репродукция и в животновъдството и функционалните храни. Изграждането на научни мрежи е един от основните приоритети на ИБИР, залегнали в неговата дългосрочна научноизследователска и иновационна стратегия, като основни инструменти са програмите на ЕС – COST и програмата за двустранен обмен на БАН (ЕБР).

По проекти на ИБИР през 2019 гостуваха следните чуждестранни учени:

|  |  |  |
| --- | --- | --- |
| Academician, Prof. Anatoli Goltsev | Ukraine | 5 дни |
| Peter Sedlmayer | Austria | 4 дни |
| prof Lucia Mincheva-Nilsson | Sweden | 5 дни |
| Prof. Marina Petrushko | Ukraine | 5 дни |
| Taisija Urchuk | Ukraine | 5 дни |
| Thomas Kroneis | Austria | 3 дни |

Учените от ИБИР, представители на България в комитетите на COST акциите, редовно участваха в заседанията на управителните комитети, научните срещи и други прояви в рамките на Акциите. През 2019, 5 учени от ИБИР са членове на управителните съвети на 4 Акции: COST Action **CA15138 TRANSAUTOPHAGY** European Network of Multidisciplinary Research and Translation of Autophagy knowledge; COST Action **CA16119 CellFit** In vitro 3-D total cell guidance and fitness; COST Action **CA16113 CliniMark**: ‘good biomarker practice’ to increase the number of clinically validated biomarkers; COST Action **CA17116 SPRINT** International Network for Translating Research on Perinatal Derivatives into Therapeutic Approaches.

**УЧАСТИЕ НА ЗВЕНОТО В ПОДГОТОВКАТА НА СПЕЦИАЛИСТИ**

**Форми на обучение.** ИБИР-БАН поднови успешо и с много високи оценки от специализираните комисии на НАОА акредитацията си и по трите научни специалности, по които е акредитиран – „имунология“, „физиология“ и „развъждане на селскостопанските животни“. Основната цел e обучение на докторанти в перспективни и привлекателни направления, създаване на условия за научното им израстване и реализацията на младите учени, привличането и задържането им в системата на БАН.

През 2019 ИБИР има спечелени 3 нови проекта за съфинансиране по програма COST (акции CA16113 - CliniMARK: ‘good biomarker practice’ to increase the number of clinically validated biomarkers, Transautophagy, CellFit), в които е предвидено подпомагане на млади учени от целевите научни колективи и краткосрочна мобилност в рамките на научните мрежи на акциите.

Другите форми на обучение провеждани в и от ИБИР-БАН са научното и методично ръководство на дипломанти при изготвяне на дипломни работи по магистърски и бакалавърски програми (2 защитени дипломни работи през 2019), както и провеждане на практическо обучение на студенти и специализанти. Хабилитираните учени от ИБИР участват в подготовката на специалисти чрез следните форми на обучение: обучение на докторанти (редовни, задочни и на самостоятелна подготовка); обучение на студенти – бакалаври и магистри на територията на Института по договори със Софийски Университет, Биологически факултет; изнасяне на лекции, провеждане на семинари и практически занятия във ВУ - СУ; изнасяне на лекции, провеждане на семинари и практически занятия в ИБИР с покана на докторанти, млади специалисти от ВУ, други институти на БАН и ССА. От две години Института е активен участник в инициативите на МОН и БАН за обучение на деца от всички възрасти чрез програмата Образование с наука – три проекта с ръководител доц. Абаджиева.

**Обучение на докторанти**

В ИБИР през 2019 бяха зачислени 2докторанта в редовна форма на обучение. През 2019 г. има 4 успешно защитили ОНС „Доктор”. През годината са се обучавали 5 докторанта в редовна форма на обучение и 6 в задочна.

|  |
| --- |
| **Антония Терзиева-Караиванова**. Роля на гама делта Т клетките по време на бременността при жената. 2019, 123 |
| **Ваня Димитрова Младенова**. Проучване върху митохондриалния статус в яйчници и епигенетични маркери в ооцити на суперовулирани мишки, получавали комбинирана биодобавка. 2019, 133 |
| Градинарска, Д.**. Спермално плазмени протеини – роля в репродуктивния процес и нискотемпературното съхранение на сперматозоиди от кучета. 2019, 165** |
| **Мая Начева Попова**. Молекулна основа на нарушени фертилни функции при мъжа, предизвикани от съвременни фактори на оконата среда. 2019, 131 |

**Обучение на студенти и магистри на територията на Института.**

От учени от ИБИР през 2019 г. са проведени специализирани курсове в 3 ВУ по 3 тематики, 76 часа, от 2-ма лектори и упражнения в 3 ВУ по 5 тематика, 333 часа, от 3-ма лектори.

**Защитени магистърски тези през 2019 г.**

През годината са защитени 2 магистърски тези на дипломанти, студенти от БФ на СУ:

* Радко Георгиев Сотиров; Промени в морфологията и биологичните свойства на мезенхимни стволови клетки при 3D култивиране; Софийски Университет "Св. Климент Охридски", Биологически факултет; 2019; ръководител доц. Милена Мурджева
* Ренита Аленова Павлова; Анализ на експресията на CYP19 в миши яйчници; Софийски Университет "Св. Климент Охридски", Биологически факултет; 2019; ръководител доц. Десислава Абаджиева.

**Сътрудничество с учебни заведения**

Лекции и упражнения от учени от ИБИР са проведени в следените ВУ - Софийски Университет "Св. Климент Охридски", Биологически факултет; Биологичен факултет на Пловдивския университет „Паисий Хилендарски“ и Лесотехнически университет-София.

**ИНОВАЦИОННА ДЕЙНОСТ НА ЗВЕНОТО И АНАЛИЗ НА НЕЙНАТА ЕФЕКТИВНОСТ (до 1/2 стр.)**

**Съвместна иновационна дейност с външни субекти**

**Съвместна научно-изследователска дейност с иновативен характер с академичен партньор от Литва.** През 2018 год. бе одобрена заявка към Европейския патентен офис за Полезен модел с заглавие „**Substances decreasing of hypermethylation of DNA in the mammal cells“ (№15262 / 20.05.2018**) с международен авторски състав от Латвия (prof. Jelena Krasilnikova, Riga University и др.) и ИБИР-БАН (Elena Kistanova, Dessislava Abadjieva, Elena Stoyanova) и втори полезен модел **Remedy for increasing mitochondrial DNA in mammalian cells (№15311 / 20.06.2018)**, с международен колектив - Jelena Krasilnikova, Galina Telesheva, Elena Kistanova, Desislava Abadjieva, Elena Stoyanova, Mihail Chervenkov, Peteres Tretjakovs, Uldis Berkis, Tatjana Dizbite, Maris Lauberts.

**Съвместна научно-изследователска дейност с иновативен характер със селско-стопански индустриален партньор**

ИБИР подържа полезен модел за „Среда за *in vitro* съхранение на семенна течност от коч“ (№ 2073/02.07.2015) заявен от учени от ИБИР-БАН и Станция за осеменяване - гр. Троян (доц. Росен Стефанов, Георги Анев, Тодорка Темелакиева-Братованова). Създадения продукт - спермо-разредител, намира приложение в развъждането с цел криоконсервация с по-добро съхранение на семенен материал и по-висока заплодяемост, след размразяване от тази при традиционните методи.

**Собствена дейност с иновативен характер**

Продължава процедурата по оценка и одобряване на патент (доц. Красимира Тодорова, доц. Сорен Хайрабедян, ИБИР-БАН) за метод и кит за диагностика на нови мутантни форми на фузия между два гена, със значение за определяне на степента на злокачественост на карцинома на простатата. Заявката е все още в процедура на разглеждане.

**Трансфери на технологии или подготовка за трансфери**

В настоящия момент ИБИР няма трансфер на технологии и/или подготовка на трансфер на технологии по договори с фирми.

**КРАТЪК АНАЛИЗ НА ФИНАНСОВОТО СЪСТОЯНИЕ НА ЗВЕНОТО.**

**Съвместна стопанска дейност – продукти, услуги, които не са научна дейност**

Получените приходи от продажба на **услуги** с ДДС през 2019 година са **5866,00** лева.

Средствата са постъпили от:

|  |  |
| --- | --- |
| **Договор за стопанска дейност с фирма:** | **Сума в лв. (по договор, преди данъци):** |
| 1. Медицински у-т Пловдив | 2814,00 |
| 1. СУ "Кл.Охридски" | 3052,00 |
| **Общо:** | **5866,00 лв.** |

**Наеми и материална база**

ИБИР има сключени договори за наеми на материалната си база както следва:

1. Административна сграда ИБИР – за обща площ 265,21 м2
2. ЦНИЛ - за обща площ 646,30 м2
3. Сграда „Опитен обор с жилища” (превърната във ведомствена жилищна площ) - за обща площ 340,25 м2
4. Сграда „Епизоотология“

**Общ приход на ИБИР за 2019 год. от наеми на материална база –** 169 843,00 лв.

**Кратък анализ на финансовото състояние на звеното. Приходите през 2019 г. са сформирани от:**

1. Бюджетна субсидия - първоначалната субсидия е от - 937 461.00 лв. в т.ч. целева субсидия за редовни докторанти.

Депозирани са искания за увеличение на средствата в размер на 13663,02 лв. свързани с плащания за защити, обезщетения по КТ и такса битови отпадъци. Към 30.09.2019г. са отпуснати част от тези искания и субсидията нараства на

938 961,00 лв.

1. Приходи от наеми 169 843,00 лв.
2. От услуги /договори за съвместна дейност/ : 5 866,00 лв.
3. Други приходи - такса докторанти 1 350.00 лв.
4. Дарения 960,00 лв.
5. По договори 571 378.00 лв.

Възстановени разходи от БАН-ЦУ за:

1. Ремонти щрангове 2 400.00 лв.
2. Посещение на гости от Украйна /ЕБР/ 1 185.00 лв.

Извършените разходи са в размер на 1 004 534 лв. са както следва:

1. Заплати на персонала по трудови правоотношения 517 809.00 лв.
2. Други възнаграждения и плащания на персонала 108 499.00 лв.
3. Задължителни осигурителни вноски 312 256.00 лв.
4. Стипендии 33 049.00 лв.
5. Издръжка 325 000.00 лв.

в т.ч.

Режийни разходи след приспадане частта на наемателите - общо 56 186,00лв.

от които:

- Разходите за електро енергия – 17 974,00 лв, топлинна енергия - 35 659,00 лв и вода – 2 553,00лв .

За химикали, лабораторни консумативи, храна за опитни животни и др. – 136 680 лв.

за учебни и канцеларски м-ли, тонер касети, хигиенни м-ли,части за хардуер и др. материали свързани с дейността на ИБИР 3 247 лв.

* Разходи за постелен инвентар и раб. Облекло 387 лв.
* Разходи за външни услуги 34 661 лв.
* Разходи за текущи ремонти 8 761 лв.
* Разходи за командировки в страната 10 767 лв.
* Разходи за командировки в чужбина 23 320 лв.
* Банкови такси 728 лв.

1. Такса смет 7 663 лв.
2. Членски внос 532 лв.
3. Придобиване на ДМА 47 168 лв.

През 2019 година към БАН-ЦУ са преведени всички дължими вноски по отпуснатите заеми в размер на

- 24 000 лв – заем Партида Развитие – остатък по заема -5 243 лв.

- 35 000 лв.- заем Протокол 16/10.04.17г.- Европейски Проект –

остатък 66 000 лв.

1. Преведени са 50% от събраните наеми към Партида „Развитие” – БАН, в размер на 72 611.50 лв.
2. Платеното ДДС за 2018 год. е 14 566 лв.
3. Данък ЗКПО в/у наеми 4 943 лв.

**ИЗДАТЕЛСКА И ИНФОРМАЦИОННА ДЕЙНОСТ**

ИБИР поддържа три интернет сайта:

<http://ibir.bas.bg/> - сайт за института

<http://reproforce.ibir.bas.bg/> - сайт на проект „*ReProForce, FP7-REGPOT-2009-1*“ по 7РП на ЕК

<http://esf.ibir.bas.bg/> - сайт на проект BG051PO001-3.3.06-0059 по Оперативна програма: „Развитие на човешките ресурси”, озаглавен „*Фундаментално и приложно обучение на докторанти, постдокторанти, специализанти и млади учени в интердисциплинарни биологични направления и иновационни биотехнологии*.“

Цялостна и подробна информация за ***събитията***, провеждани в Института и в рамките на проектите, научни постижения и предложения за сътрудничество с научни колективи и бизнес организации се обновяват системно в секциите *Събития* на сайтовете. Отделно, информацията отнасяща се за тръжни процедури е систематизирана и изнесена в хронологичен ред по проекти и спечелени договори на страницата *За ИБИР/Профил на купувача*.

Процедурите за развитие на академичния състав са систематизирани в Текущи и Архив, като се подържат две категории: *Процедури за придобиване на ОНС "Доктор" и НС "Доктор на науките"* и *Конкурси за заемане на академични длъжности,* и са достъпни на сайта на страница *За ИБИР/* *Процедури за развитие на академичния състав в ИБИР.* Нормативната база по конкурсите е достъпна на същата страница и в *Структура/Библиотека/Закони и правилници.*

**БИБЛИОТЕЧНАТА ИНФОРМАЦИОННА СИСТЕМА на ИБИР, разполага със следните ресурси:**

|  |  |  |
| --- | --- | --- |
| Фонд на библиотеката до 2019 година: | 12542тома | Цена: 388614, 64 лв. |
| Постъпили през 2019 г. библиотечни документи: | 79 | Цена : 2063, 55  лв. |
| Отчислена през 2019 г. литература: | Нямa |  |
| Общ фонд на библиотеката в края на 2019 година: | 12531 томa | Цена:  390678, 19 |
| Заглавия списания постъпили в библиотеката през 2019 година: | 14 заглавия | Цена:  1827,34 лв. |
| От тях  български  ЕС и САЩ | 5  9 | Цена:  250,12 лв.  Цена: 1587, 22 лв. |
| Ксерокопирани документи | Над 2000 броя |  |
| Сканирани документи | Над 1000 хиляди страници |  |

**ИНФОРМАЦИЯ ЗА НАУЧНИЯ СЪВЕТ НА ЗВЕНОТО**

**Списък на членовете, акад. длъжности, месторабота**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Член на НС,**  **(длъжност в НС)** | **Месторабота** | **Ш. Спец.** | **Тел.** | **@:** |
| ***Вътрешни членове:*** | | | | |
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**Дата на избор, промени в състава след това**

Научен съвет избран с протокол № 2/2018 от 29.03.2018 от ОС на ИБИР и промяна с писмо за оттегляне поради голяма служебна ангажираност от проф. Мария Николова.

**КОПИЕ ОТ ПРАВИЛНИКА ЗА РАБОТА НА ЗВЕНОТО**

Правилника на ИБИР-БАН се намира на адрес следния адрес:

**Начало на сайт на ИБИР/За ИБИР/Нормативни документи/** **Правилник за устройството, управлението и дейността на Институт по биология и имунология на размножаването „Акад. К.Братанов” при Българска академия на науките /ИБИР- БАН/**

**URL*: http://ibir.bas.bg/uploads/user/za-ibir/Normativni.Dokumenti/Pravilnik.ustroistoto.IBIR.pdf***

**гр. София доц. Милена Мурджева**

**29.01.2020 г. (Научен секретар –ИБИР-БАН)**

**ПРИЛОЖЕНИЯ (ТАБЛИЦИ)**

**Таблица 01-Персонал**

*Справката е налична в приложената електронна таблица, предоставен от Човешки ресурси.*

**Таблица 02-Изследователски състав: 34 (към 31.12.2018)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Три имена на изследователя** | **Имена под които публикува** | **Научна степен** | **Академична длъжност** |
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| 2. Петя Димитрова Цветкова | Petia Tzvetkova | Доктор на науките | Професор |
| 3. Мария Георгиева Иванова-Кичева | Maria Georgieva Ivanova-Kicheva | Доктор на науките | Професор |
| 4. Сорен Бохос Хайрабедян | Soren Bohos Hayrabedyan | Доктор на науките | Професор |
| 5. Красимира Олегова Тодорова-Хайрабедян | Krassira Olegova Todorova | Доктор на науките | Професор |
| 6. Пламен Тодоров Тодоров | Plamen Todorov Todorov | Доктор на науките | Доцент |
| 7. Бойко Атанасов Георгиев | Boyko Georgiev | Доктор | Доцент |
| 8. Елена Кузмичина Кистанова | Elena Kistanova | Доктор | Доцент |
| 9. Павел Истилиянов Рашев | Pavel Rashev | Доктор | Доцент |
| 10. Велислава Илиева Терзиева | Velislava Terzieva | Доктор | Доцент |
| 11. Теодора Гичева Данева | Teodora Daneva | Доктор | Доцент |
| 12. Таня Георгиева Димова | Tanya Dimova | Доктор | Доцент |
| 13. Диана Йорданова Зашева | Diana Zasheva | Доктор | Доцент |
| 14. Милена Сергеева Мурджева | Milena Mourdjeva | Доктор | Доцент |
| 15. Цветелина Павлова Велева-Орешкова | Cvetelina Oreshkova | Доктор | Доцент |
| 16. Росен Георгиев Стефанов | Rosen Stefanov | Доктор | Доцент |
| 17. Деница Боянова Даскалова | Denica Daskalova | Доктор | Доцент |
| 18. Десислава Василева Абаджиева | Desislava Abadjieva | Доктор | Доцент |
| 19. Елена Николаева Стоянова - Петрова | Elena Stoyanova | Доктор | Доцент |
| 20. Иван Миладинов Бочев | Ivan Bochev | Доктор | Доцент |
| 21. Ивайло Методиев Вангелов | Ivaylo Vangelov | Доктор | Главен асистент |
| 22. Силвина Запрянова Запрянова | Silvina Zapryanova | Доктор | Главен асистент |
| 23. Камелия Винкетова Петкова | Kameliya Vinketova | Доктор | Главен асистент |
| 24. Деспина Вайци Пупаки | Despina Poupaki | Доктор | Главен асистент |
| 25. Паулина Славчева Таушанова | Paulina Taushanova | Доктор | Главен асистент |
| 26. Елена Илиева Христова | Elena Hristova | Доктор | Главен асистент |
| 27. Шина Иванова Пашова - Димова | Shina Pashova | Доктор | Главен асистент |
| 28. Марина Деянова Христова | Marina Hristova | Доктор | Асистент |
| 29. Милена Стефанова Костадинова | Milena Kostadinova | -- | Асистент |
| 30. Антония Илиева Терзиева - Караиванова | Antonia Terzieva | Доктор | Асистент |
| 31. Надя Емилова Петрова | Nadya Petrova | -- | Асистент |
| 32. Цветан Стефанов Цветков | Tsvetan Tsvetkov | -- | Асистент |
| 33. Ваня Димитрова Младенова | Vania Mladenova | Доктор | Асистент |
| 34. Мадлена Нанева Андреева | Madlena Andreeva | -- | Асистент |
| 35. Десислава Георгоиева Градинарска | Desislava Gradinarska | Доктор | Специалист |
| 36. Илка Цветанова Цветкова | Ilka Tsvetkova | -- | Асистент |
| 37. Габриел Елмаджиян | Gabriel Elmadzhiyan | -- | Асистент |
| 38. Андрей Георгиев Величков | Andrei Velichkov | -- | Асистент |
|  |  |  |  |
|  |  |  |  |

**E 1.1 а: Научни публикации в издания, индексирани в WoS, Scopus, ERIH+ (публикувани)**

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16. **Ivanova, M., Gradinarska, D., Tsvetkov, T., Kirilova, I., Georgiev, B.**. Chromatography analysis of seminal plasma proteins in buffalo semen samples with high and low cryotolerance. Polish Journal of Veterinary Sciences, 22, 1, Polish Academy of Sciences, Committee of Veterinary Sciences and University of Warmia and Mazury in Olsztyn, 2019, ISSN:1505-1773 (Print); 2300-2557 (Online), DOI:10.24425/pjvs.2018.125617, 11-16. SJR:0.362, ISI IF:0.839 **Q3 (Scopus**) Линк
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**E 1.3 а: Реферирани научни публикации в издания, неиндексирани в WoS, Scopus, ERIH+, тематични сборници, вкл. сборници от международни и национални научни форуми (публикувани)**

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2. **K. Lazov, B. Georgiev, P. Taushanova, D. Gradinaska, M. Ivanova**. Comparative analisis of cryopresevation of male gametes with and without seminal plasma from Canis Lupus Familiaris. Bulgarian Journal of veterinary medicine, 22, 1, Faculty of veterinary medicine, Trakia university, 2019, ISSN:1311-1477, 129--134 Международно академично издателство
3. **Madlena Andreeva**, Nikola Metodiev, Bogdan Cekić, **Rossen Stefanov**. STUDY OF THE EFFECTS OF LOW TEMPERATURES ON THE MORPHOLOGICAL STATUS OF RAM SPERMATOZOA. 12th International Symposium „Modern Trends in Livestock Production“ Belgrade, 9-11 October, 2019, 2019, ISBN:978-86-82431-76-3, 373-381 Международно академично издателство Линк
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