

18. Wahlperiode

Schriftliche Anfrage

des Abgeordneten Marcel Luthe (FDP)

vom 18. Juli 2019 (Eingang beim Abgeordnetenhaus am 19. Juli 2019)

zum Thema:

Medizinische Forschung in Berlin

und **Antwort** vom 07. August 2019 (Eingang beim Abgeordnetenhaus am 09. Aug. 2019)

Der Regierende Bürgermeister von Berlin
Senatskanzlei - Wissenschaft und Forschung -

Herrn Abgeordneten Marcel Luthe (FDP)

über

den Präsidenten des Abgeordnetenhauses von Berlin

über Senatskanzlei - G Sen -

A n t w o r t
auf die Schriftliche Anfrage Nr. 18/20300
vom 18. Juli 2019
über Medizinische Forschung in Berlin

Im Namen des Senats von Berlin beantworte ich Ihre Schriftliche Anfrage wie folgt:

Die Anfrage betrifft Sachverhalte, die der Senat nicht ohne Beziehung des Berliner Instituts für Gesundheitsforschung (BIG/BIH) beantworten kann. Es wurde daher um Stellungnahme gebeten.

1. Welche Forschungsprojekte sind seit Gründung des BIH durch das Land Berlin oder den Bund gefördert worden?

Zu 1.:

Am BIG/BIH werden bzw. wurden seit der Gründung des BIG/BIH bislang 410 wissenschaftliche Projekte gefördert. Die Projekte sind in Anlage 1 aufgeführt.

2. Was genau wurde gefördert, was genau fand/findet im BIH statt: a) Grundlagenforschung b) Anwendungsforschung/Studien mit Patienten, c) Individuelle Medizin?

Zu 2.:

Das BIG/BIH betreibt keine reine Grundlagenforschung (a), bedient sich aber dieser zur Förderung systemmedizinischer, translational ausgerichteter Forschung. Letztere greift Ansätze und Ideen aus der Grundlagenforschung für die klinische Forschung (b) und spätere Nutzung (c) auf und adressiert Fragestellungen aus dem klinischen Alltag, für die bislang keine hinreichenden Lösungsansätze vorhanden sind. Die Zielstellung ist hierbei, eine möglichst effektive translationale Wertschöpfungskette zu etablieren. Hierzu gehört auch der Aufbau von Strukturen, die für unterschiedliche Schritte der Translation notwendig sind, auch wenn das BIG/BIH selbst keine Krankenversorgung betreibt.

3. Welche Fachpublikationen zu bzw. aus den von Bund und Land Berlin geförderten Projekten des BIH hat es bisher gegeben? Wo sind diese wann publiziert worden?

Zu 3.:

Eine Auflistung aller 1559 Fachpublikationen, die es mit Stand Ende Mai 2019 zu bzw. aus den von Bund und Land Berlin geförderten Projekten seit Gründung des BIG/BIH gegeben hat, ist als Anlage 2 beigefügt.

4. In dem Artikel der Morgenpost wird der Regierende Bürgermeister zitiert: Der Beschluss sei zugleich ein Auftrag, Forschungsergebnisse noch schneller an die Krankenbetten zu bringen und maßgeschneiderte Medizin zu entwickeln. „Wir sprechen oft von guten Tagen, aber der heutige ist großartig, vor allem für Patienten in Berlin und in ganz Deutschland“, sagte der Regierende Bürgermeister Müller weiter.

Was ist mit „maßgeschneiderter Medizin“ konkret gemeint? Welche „maßgeschneiderte Medizin“ für Patienten wird im BIH praktiziert? Bitte nennen Sie drei Beispiele.

Zu 4.:

Das BIG/BIH ist selbst nicht in der klinischen Versorgung von Patientinnen und Patienten tätig, daher wird keine „maßgeschneiderte Medizin“ im BIG/BIH praktiziert, sondern wie vom Regierenden Bürgermeister ausgeführt, entwickeln Wissenschaftlerinnen und Wissenschaftler sowie forschende Ärztinnen und Ärzte, basierend auf klinischen Fragestellungen, neue Lösungsansätze und bringen diese in den klinischen Forschungsalltag ein.

Mit „maßgeschneiderter Medizin“ ist gemeint, dass, basierend auf genetischen, molekularen und weiteren klinisch relevanten Voraussetzungen einer Patientin oder eines Patienten, die behandelnde Ärztin oder der behandelnde Arzt gemeinsam mit der Patientin oder dem Patienten eine Therapieoption wählt, welche auf die individuellen Ursachen der Erkrankung zugeschnitten ist und für die Patientin oder für den Patienten ein möglichst geringes Risiko von Nebenwirkungen aufweist. Ziel ist es dabei, chronisch fortschreitende Erkrankungen zu verlangsamen und bestenfalls deren Fortschreiten zu verhindern. Die Auswirkungen der zu Grunde liegenden Erkrankungen sollen zudem bestmöglich kontrolliert werden, so dass die Lebensqualität von Patientinnen und Patienten bewahrt oder verbessert werden kann. Das Spektrum schließt neben der gezielten Stratifizierung von Patientinnen und Patienten für bestehende Therapieoptionen auch die Entwicklung von Arzneimitteln für neuartige Therapien ein.

Beispiele, bei denen das BIG/BIH maßgeschneiderte Medizin fördert und weiterentwickelt, sind:

1. Transplantationsimmunologie: Im Bereich BIH Regeneration wird eine maßgeschneiderte Therapie zur Verhinderung der Abstoßungsreaktion bei Transplantat-Empfängern entwickelt: Der Empfängerin oder dem Empfänger wird Blut entnommen, die darin enthaltenen regulatorischen T-Zellen werden isoliert und unter GMP (Good manufacturing practice)-Bedingungen expandiert (vervielfältigt) und anschließend der Patientin oder dem Patienten wieder reinfundiert. Diese sorgen dafür, dass das neue Organ nicht abgestoßen wird, obwohl die Patientinnen und Patienten nur einen Bruchteil (etwa ein Zehntel) der immunsuppressiven Medikamente einnehmen, die üblicherweise gegeben werden. Dies hat zur Folge, dass wesentlich weniger Nebenwirkungen auftreten, zum Beispiel Infektionen oder Krebserkrankungen, die unter der massiven Immunsuppression häufig sind. Außer-

dem war es einer Patientin möglich, ein gesundes eigenes Kind zu bekommen. Unter massiver medikamentöser Therapie ist dies normalerweise nicht möglich.

2. BeLOVE (Berlin Longterm Observation Of Vascular Events)-Studie: Es ist bekannt, dass vaskuläre Erkrankungen (Erkrankungen der Gefäße) häufig nicht alleine auftreten: Nach dem Herzinfarkt folgt der Schlaganfall, eine Niereninsuffizienz birgt die Gefahr einer späteren Herzinsuffizienz etc. Um nun herauszufinden, welche Krankheiten auf welche folgen und warum, und wie man dies verhindern kann, führt das BIG/BIH eine langfristige Studie durch: In dieser wird das individuelle Risiko von Patientinnen und Patienten mit einem akuten vaskulären Ereignis über die Zeit untersucht. Dazu findet kurz nach dem ersten Ereignis und anschließend über zehn Jahre regelmäßig eine intensive Diagnostik der Patientinnen oder Patienten statt. Ziel ist es, maßgeschneiderte Präventionsprogramme für Folgeerkrankungen sowie ggf. neue Therapieoptionen zu entwickeln.
3. Krebs: Krebszellen tragen als Folge der Genveränderungen (Mutationen) häufig veränderte Eiweißmoleküle auf ihrer Oberfläche. Diese können gezielt genutzt werden, um einzelne Krebszellen für das Immunsystem sichtbar zu machen. Das BIG/BIH fördert gemeinsam mit Charité und MDC ein Forschungsprojekt, in dem Wissenschaftlerinnen und Wissenschaftler maßgeschneiderte Immunzellen für Krebspatientinnen und -patienten herstellen können. In klinischen Studien mit betroffenen Patientinnen und Patienten wird demnächst überprüft, ob diese Zellen wie geplant die Veränderung erkennen, die auf den Krebszellen einer individuellen Patientin oder eines individuellen Patienten vorhanden sind, und diese Zellen gezielt abbauen können.

5. Der Regierende Bürgermeister spricht von einer "maßgeschneiderten Medizin" für Patienten. An wen können sich Patienten aktuell wenden, die z. B. aufgrund einer seltenen Erkrankung eine solche maßgeschneiderte Medizin und Forschung konkret dringend benötigen, weil Therapiemöglichkeiten für ihre seltene Erkrankung in Fachabteilungen von Kliniken nicht vorhanden sind?

Zu 5.:

Zentrale Anlaufstelle für Patientinnen und Patienten mit unklarer Diagnose oder seltenen Erkrankungen ist das Berliner Centrum für seltene Erkrankungen der Charité (BCSE, <https://bcse.charite.de>). Dieses Centrum und viele Kliniken der Charité arbeiten außerdem mit europäischen Initiativen der „European Reference Networks“ (https://ec.europa.eu/health/ern_de) zusammen.

6. Wie schnell erhalten Patienten mit seltenen Erkrankungen aus Sicht des Regierenden Bürgermeisters voraussichtlich konkrete maßgeschneiderte Hilfe?

Zu 6.:

Das BIG/BIH hat mitgeteilt, dass bei seltenen Erkrankungen leider keine pauschalen Aussagen möglich sind, da diese von der individuellen Diagnose abhängen. Das BCSE ist darauf spezialisiert, seltene Erkrankungen zu erkennen und zu diagnostizieren, um die oft jahrelange Suche nach einer Diagnose zu beenden. Gelingt es, die Diagnose für eine seltene Erkrankung richtig zu stellen, ergeben sich für die Patientinnen und Patienten oft konkrete Therapieansätze und weitere Hilfsangebote.

Das BIG/BIH unterstützt die Arbeit des BSCE.

Berlin, den 7. August 2019

Der Regierende Bürgermeister von Berlin

In Vertretung
Christian Gaebler
Chef der Senatskanzlei

Anlage 1 - Anfrage 18_20300

Welche Forschungsprojekte sind seit Gründung des BIH durch das Land Berlin oder den Bund gefördert worden?

Förderung	Leistungsbereich	Projekt
1 Bund / Land Berlin	CRG 1	Targeting somatic mutations in human cancer by T cell receptor gene therapy
2 Bund / Land Berlin	CRG 2	Elucidating the proteostasis network to control Alzheimer's disease
3 Bund / Land Berlin	CRG 3	Towards a better understanding and diagnosis of congenital
4 Bund / Land Berlin	CRG 4	From Cancer DiagnOMICS to Precision Medicine: Model Neuroblastoma
5 Bund / Land Berlin	TRG	Fetal programming of cardiometabolic disease
6 Bund / Land Berlin	TRG	PRDM16 – a therapeutic target for heart failure
7 Bund / Land Berlin	TRG	Heterogeneity of immune infiltration in glioblastoma and its implications for molecular diagnostics and personalized treatment decisions
8 Bund / Land Berlin	TRG	Systems medicine in kidney cancer: towards cancer stem cell-directed therapy
9 Bund / Land Berlin	TRG	Inflammation-induced skeletal muscle atrophy in critically ill patients: identification of molecular mechanisms and preventive therapies
10 Bund / Land Berlin	TRG	The role of corollary discharge and the dopamine system in controlling sensory processing: Elucidating a core mechanism in the pathophysiology of psychotic disorders
11 Bund / Land Berlin	TRG	Systems medicine of BRAF-driven malignancies
12 Bund / Land Berlin	CRU	OPTICO-ACS
13 Bund / Land Berlin	CRU	GESPIC-Crohn
14 Bund / Land Berlin	CRU	BeLOVE
15 Bund / Land Berlin	Technologietransfer	diagnost-x: Prototyping eines Diagnostikums für Taenia solium in einer klinischen Pilotstudie
16 Bund / Land Berlin	Technologietransfer	iBikE: Biometrische Unterstützung für SPARK Teams
17 Bund / Land Berlin	Technologietransfer	Prevention of paclitaxel-induced neuropathy and cognitive impairments with chronic lithium (Li+) pretreatment in mice
18 Bund / Land Berlin	Technologietransfer	Validation and certification of a pre-tied ready-prepared surgical knot device
19 Bund / Land Berlin	Technologietransfer	Neuropeptide-based gene therapy for treatment of temporal lobe epilepsy
20 Bund / Land Berlin	Technologietransfer	MINIMA - Image-based Support of Minimal-Invasive Mitral Valve Repair
21 Bund / Land Berlin	Technologietransfer	New treatment strategies for rare autoinflammatory diseases - targeting the inflammasome by small molecules
22 Bund / Land Berlin	Technologietransfer	Topical inflammasome inhibitors – new treatment strategies for inflammatory skin diseases
23 Bund / Land Berlin	Technologietransfer	MC4R Agonist treatment of patients with monogenic obesity forms
24 Bund / Land Berlin	Technologietransfer	Molecular imaging of biofilm infections - Validation of FISH control for automated endocarditis diagnostics
25 Bund / Land Berlin	Technologietransfer	iPSC-based drug discovery for treatment of Leigh syndrome
26 Bund / Land Berlin	Technologietransfer	Type 3 Deiodinase Inhibitor for Cancer Treatment
27 Bund / Land Berlin	Technologietransfer	Development and optimization of novel small molecules to treat Metabolic Syndrome.
28 Bund / Land Berlin	Technologietransfer	TCR gene therapy of CD22-positive B cell malignancies
29 Bund / Land Berlin	Technologietransfer	AntigIn – Peptide-Based Vaccination Targeting Innate Immune Responses against Viral Infection and Cancer
30 Bund / Land Berlin	Technologietransfer	Preclinical, GLP-conform validation of primary human muscle stem cells as an ATMP
31 Bund / Land Berlin	Technologietransfer	Combinatorial treatment of newly developed and repositioned MACC1 and S100A4 inhibitors for metastasis restriction
32 Bund / Land Berlin	Technologietransfer	A new wearable device for prediction and prevention of congestive events in cardiological patients
33 Bund / Land Berlin	Technologietransfer	FACTS study: Feasibility and acceptability of a cervical HPV and dysplasia testing and triaging using self-sampling.
34 Bund / Land Berlin	Technologietransfer	Development, validation and clinical translation of a real-time federated deep learning based platform for predicting postoperative complications during critical care
35 Bund / Land Berlin	Technologietransfer	Use of circulating cell-free DNA methylation as a diagnostic tool
36 Bund / Land Berlin	Technologietransfer	Validierung der Osseointegration eines innovativen Dentalimplantates aus dem Hochleistungswerkstoff Polyetheretherketon
37 Bund / Land Berlin	Technologietransfer	Serum Amyloid A adsorber for dialysis patients
38 Bund / Land Berlin	Technologietransfer	Frühdiagnose in der rheumatoiden Arthritis durch den anti-MCA3 ELISA Test
39 Bund / Land Berlin	Technologietransfer	Cancer metastasis restriction using novel molecularly targeted therapies
40 Bund / Land Berlin	Technologietransfer	Maghämit-Nanopartikel als orales Medikament mit neuartiger Wirksamkeit für die Behandlung der Hyperphosphatämie - Validierung des Wirkmechanismus
41 Bund	Technologietransfer	OrthoSafety - Fast Track Analyses
42 Bund	Technologietransfer	Imaging Big Data für die personalisierte Medizin
43 Bund	Technologietransfer	mTomady - A platform for financial inclusion in healthcare
44 Bund	Technologietransfer	Computer-assisted diagnostics through machine learning-based histological image
45 Bund	Technologietransfer	BodyTime - a new diagnostic assay to assess the internal clock
46 Bund	Technologietransfer	SmartCor - a digital health platform for diagnosis and therapy planning of patients with cardiovascular diseases
47 Bund	Technologietransfer	Deep Learning for Dental Image Diagnostics
48 Bund	Technologietransfer	LingPed - an innovative pressure-monitoring insole capable of identifying pathologies through pedographic analysis
49 Bund / Land Berlin	Nachwuchsförderung_JCSP	Pharmacological reactivation of the p53 pathway by DS3032b in neuroblastoma
50 Bund / Land Berlin	Nachwuchsförderung_JCSP	Fertility after chemo- and radiotherapy in childhood and adolescence, FeCt - Multicenter Offspring Study

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Welche Forschungsprojekte sind seit Gründung des BIH durch das Land Berlin oder den Bund gefördert worden?

51	Bund / Land Berlin	Nachwuchsförderung_JCSP	Establishment of a patient-specific syngeneic immune and lymphoma PDX-model for pathogenesis, therapy-prediction and biomarker-development
52	Bund / Land Berlin	Nachwuchsförderung_JCSP	The Fractalkine Receptor CX3CR1 and its role in the pathogenesis of choroidal neovascularizations and radiation-induced retinopathy
53	Bund / Land Berlin	Nachwuchsförderung_JCSP	Mechanisms of Neuronal Dysfunction and Death in Critical Illness-associated Cognitive Impairment
54	Bund / Land Berlin	Nachwuchsförderung_JCSP	Endothel-spezifische Stat3 Aktivierung durch Transferrinrezeptor-targeted Colivelin zur Regenerationsförderung nach Schlaganfall
55	Bund / Land Berlin	Nachwuchsförderung_JCSP	Involvement of functional antibodies targeting GPCRs in glomerular disease of native and transplant kidneys
56	Bund / Land Berlin	Nachwuchsförderung_JCSP	Connectomic surgery in dystonia
57	Bund / Land Berlin	Nachwuchsförderung_JCSP	Influence of AMD patients' sera on ARPE-19 cells
58	Bund / Land Berlin	Nachwuchsförderung_JCSP	Electrical and mechanical dysfunction in atrial cells during diastolic heart failure
59	Bund / Land Berlin	Nachwuchsförderung_JCSP	Iterative reconstruction in computed tomography – Reducing dose not image quality
60	Bund / Land Berlin	Nachwuchsförderung_JCSP	Establishment of the most representative “liquid biopsy” method to identify the mutational profile of metastasis from colorectal cancer patients and other gastrointestinal malignancies
61	Bund / Land Berlin	Nachwuchsförderung_JCSP	Influence of transcranial direct current stimulation on cortical plasticity and on cholinergic cortical activity in Alzheimer's disease
62	Bund / Land Berlin	Nachwuchsförderung_JCSP	Prediction of primary resistance to sunitinib in renal cell carcinoma specimens by miRNA profiles
63	Bund / Land Berlin	Nachwuchsförderung_JCSP	Identification of biomarkers for acute kidney injury
64	Bund / Land Berlin	Nachwuchsförderung_JCSP	The regulation and function of Store-operated Calcium Entry (SOCE) in T cell mediated anti-tumor immunity
65	Bund / Land Berlin	Nachwuchsförderung_JCSP	Inducible neuroplasticity after stroke using neurotransmitter replacement strategies
66	Bund / Land Berlin	Nachwuchsförderung_JCSP	Caroline meets HANNA – Holistic Analysis of loNgtterm-survivors with ovariaN cAncer
67	Bund / Land Berlin	Nachwuchsförderung_JCSP	The role of neutrophil granulocytes and neutrophil extracellular traps in distinct pathophysiological mechanisms of acute coronary syndrome
68	Bund / Land Berlin	Nachwuchsförderung_JCSP	High resolution MR-elastography of the hippocampus in patients with Alzheimer's disease
69	Bund / Land Berlin	Nachwuchsförderung_JCSP	Complement activation in acute coronary syndrome
70	Bund / Land Berlin	Nachwuchsförderung_JCSP	Characterisation of intestinal barrier dysfunction in pathogenesis of postoperative ileus in mice
71	Bund / Land Berlin	Nachwuchsförderung_JCSP	„See, Reach and Treat” – Developing new imaging instruments for diagnostic and minimal-invasive treatments of malignant liver tumors
72	Bund / Land Berlin	Nachwuchsförderung_JCSP	Investigating the modulation of learning and cognition
73	Bund / Land Berlin	Nachwuchsförderung_JCSP	Cognitive effects of dopamine and deep brain stimulation in the Ncl. subthalamicus in Parkinson's disease
74	Bund / Land Berlin	Nachwuchsförderung_JCSP	Search for markers that can predict efficacy of autologous stem cell therapy in cardiovascular disease
75	Bund / Land Berlin	Nachwuchsförderung_JCSP	Myelin oligodendrocyte glycoprotein antibody-associated encephalomyelitis: Role of the complement system as determinant of antibody pathogenicity and biomarker for clinical phenotype and severity
76	Bund / Land Berlin	Nachwuchsförderung_JCSP	Antigen-specific activation and adipose-immune interactions in obesity-associated insulin resistance
77	Bund / Land Berlin	Nachwuchsförderung_JCSP	Routine laboratory parameters and clinical outcome in patients with ischemic stroke with unknown time of symptom onset: a biomarker study
78	Bund / Land Berlin	Nachwuchsförderung_JCSP	Evaluation and optimisation of endoscopic lung volume reduction therapy in patients with pulmonary emphysema by means of quantitative lung parenchyma analysis
79	Bund / Land Berlin	Nachwuchsförderung_JCSP	Silent brain infarcts – Incidental finding or risk factor?
80	Bund / Land Berlin	Nachwuchsförderung_JCSP	Oxidative stress in muscle diseases
81	Bund / Land Berlin	Nachwuchsförderung_JCSP	Mechanisms of mast cell and T cell interactions during viral infections
82	Bund / Land Berlin	Nachwuchsförderung_JCSP	Biomarkers and perfusion – Training-induced changes after stroke (BAPTISe)
83	Bund / Land Berlin	Nachwuchsförderung_JCSP	Immunologic biomarkers and therapeutic targets in rectal cancer
84	Bund / Land Berlin	Nachwuchsförderung_JCSP	Of heart and mind: A longitudinal neuropsychological evaluation of children with congenital heart disease
85	Bund / Land Berlin	Nachwuchsförderung_JCSP	The impact of passenger leukocyte migration following solid organ transplantation
86	Bund / Land Berlin	Nachwuchsförderung_JCSP	Epithelial polarity and intestinal inflammation
87	Bund / Land Berlin	Nachwuchsförderung_JCSP	Maternity care for migrant women in Berlin – Perceptions of health care professionals and patients
88	Bund / Land Berlin	Nachwuchsförderung_JCSP	Inhalable nanoparticle formulations targeting the heart.
89	Bund / Land Berlin	Nachwuchsförderung_JCSP	Prioritization of Exome Data by Image Analysis
90	Bund / Land Berlin	Nachwuchsförderung_JCSP	Effect of different glioma cell subpopulations on microglia
91	Bund / Land Berlin	Nachwuchsförderung_JCSP	The role of circular RNAs in neuroblastoma
92	Bund / Land Berlin	Nachwuchsförderung_JCSP	Identifying druggable targets to suppress PGBD5-driven survival in high-risk neuroblastomas
93	Bund / Land Berlin	Nachwuchsförderung_JCSP	Early recognition of axial spondyloarthritis in patients with uveitis - establishing and validation of a referral tool
94	Bund / Land Berlin	Nachwuchsförderung_JCSP	Analyse von inflammationsassoziierten Mutationsprofilen in Kopf-Hals Plattenepithelkarzinomen
95	Bund / Land Berlin	Nachwuchsförderung_JCSP	Erwartungen und perzeptuelle Entscheidungen bei PatientInnen mit paranoider Schizophrenie und gesunden Kontrollen
96	Bund / Land Berlin	Nachwuchsförderung_JCSP	Assessment of Abdominal Aortic Aneurysm Rupture Risk with Novel Molecular MRI Probes in an Experimental Mouse Model

Anlage 1 - Anfrage 18_20300

Welche Forschungsprojekte sind seit Gründung des BIH durch das Land Berlin oder den Bund gefördert worden?

97	Bund / Land Berlin	Nachwuchsförderung_JCSP	Distribution and phenotypic characteristics of colonic CD4 T cells in human health and disease
98	Bund / Land Berlin	Nachwuchsförderung_JCSP	Mineralokortikoidrezeptor-Stimulation und kognitive Funktionen
99	Bund / Land Berlin	Nachwuchsförderung_JCSP	Preclinical assessment of mesenchymal stromal cell-derived exosomes for therapy of graft-versus-host disease
100	Bund / Land Berlin	Nachwuchsförderung_JCSP	Genetik angeborener Herzfehler - das hypoplastische Linksherzsyndrom
101	Bund / Land Berlin	Nachwuchsförderung_JCSP	Activin als neuer Serummarker zur Risikostratifizierung der akuten Pankreatitis.
102	Bund / Land Berlin	Nachwuchsförderung_JCSP	Funktionelle und therapeutische Evaluation eines bispezifischen, trifunktionalen Antikörpers
103	Bund / Land Berlin	Nachwuchsförderung_JCSP	Paediatric Telemedicine Diabetes Clinic - A Pioneer Project for Value-based Diabetes Care and Integrated Care Pathways
104	Bund / Land Berlin	Nachwuchsförderung_JCSP	Disturbed interaction of Purkinje cells and oligodendroglia in the postnatal cerebellum caused by Oxygen
105	Bund / Land Berlin	Nachwuchsförderung_JCSP	The impact of traumatic brain injury on fracture healing: the role of the hormones leptin, osteocalcin and insulin
106	Bund / Land Berlin	Nachwuchsförderung_JCSP	Network modulation of motor inhibition in Parkinson's disease
107	Bund / Land Berlin	Nachwuchsförderung_JCSP	Association between cholinergic system genetic variants and postoperative delirium and cognitive dysfunction
108	Bund / Land Berlin	Nachwuchsförderung_JCSP	Illuminating the role of the HBP-ALPK1-TIFA axis - a novel innate immune detector of Gramnegative bacteria
109	Bund / Land Berlin	Nachwuchsförderung_JCSP	Viral bacterial co-infection in pneumonia – how to better understand the deadly liaison
110	Bund / Land Berlin	Nachwuchsförderung_JCSP	Characterization of cerebellar function in musician's dystonia patients and its electrical modulation capability
111	Bund / Land Berlin	Nachwuchsförderung_JCSP	Development of multifunctional polymer-microspheres for the use of catheter-based tumor embolisation.
112	Bund / Land Berlin	Nachwuchsförderung_JCSP	From Clonal Hematopoiesis to Relapsing Leukemia - Tracing the Roots of AML on Single Cell Level
113	Bund / Land Berlin	Nachwuchsförderung_JCSP	The role of Calca-derived peptides in experimental arthritis
114	Bund / Land Berlin	Nachwuchsförderung_JCSP	Targeting Survivin in Neuroblastoma
115	Bund / Land Berlin	Nachwuchsförderung_JCSP	Decreasing the viability of cyst-lining cells via inactivation of XBP1 as a strategy to treat ADPKD
116	Bund / Land Berlin	Nachwuchsförderung_JCSP	Calcitonin gene-related peptide (CGRP) in migraine and endometriosis
117	Bund / Land Berlin	Nachwuchsförderung_JCSP	Analysis of the interdependence between the intestinal microbiota, lymphoma disease and therapeutic immunochemotherapy
118	Bund / Land Berlin	Nachwuchsförderung_JCSP	The role of dopamine in psychosis-related perceptual aberrations
119	Bund / Land Berlin	Nachwuchsförderung_JCSP	Immunological and cardiovascular dysbalance in pregnancies conceived through oocyte donation
120	Bund / Land Berlin	Nachwuchsförderung_JCSP	The Effect of Oxytocin on the Consolidation of Trauma-Associated Memories
121	Bund / Land Berlin	Nachwuchsförderung_JCSP	Targeting the SUMO pathway as a novel tumor therapy - effects on hematopoiesis and the immune system
122	Bund / Land Berlin	Nachwuchsförderung_JCSP	Derivation of normal pancreatic duct cells from human primary tissue and their genetic modification using CRISPR/Cas9
123	Bund / Land Berlin	Nachwuchsförderung_JCSP	Identification of novel molecular genetic causes of proteasome-associated autoinflammatory syndrome
124	Bund / Land Berlin	Nachwuchsförderung_JCSP	3-dimensional analysis of blood and lymphatic vasculature in lymphedema using light-sheet imaging based VIPAR approach
125	Bund / Land Berlin	Nachwuchsförderung_JCSP	Decellularized Human Liver Slices as a Three-Dimensional Platform to Generated In Vitro intrahepatic Cholangiocarcinoma
126	Bund / Land Berlin	Nachwuchsförderung_JCSP	Validation of a non-invasive, automated perfusion MRI method in stroke patients
127	Bund / Land Berlin	Nachwuchsförderung_JCSP	Neural Mechanisms of Recovery after Stroke
128	Bund / Land Berlin	Nachwuchsförderung_JCSP	Evaluation of the validity of new methods for the in vivo assessment of bone quality using intraoperative biopsies.
129	Bund / Land Berlin	Nachwuchsförderung_JCSP	Improved molecular AML diagnostics-prerequisite for individualized patient management
130	Bund / Land Berlin	Nachwuchsförderung_JDCSP	Multicentric evaluation of TMS-based risk stratification in brain tumor surgery
131	Bund / Land Berlin	Nachwuchsförderung_JDCSP	Hybrid modelling - Combining machine learning with physiology-based models in cardiovascular medicine
132	Bund / Land Berlin	Nachwuchsförderung_CSP	The importance of adipocytokines for the disease pattern of non-ischemic cardiomyopathy
133	Bund / Land Berlin	Nachwuchsförderung_CSP	The role of EphrinB2-EphB4 signalling for vascular resistance development in malignant glioma
134	Bund / Land Berlin	Nachwuchsförderung_CSP	Pharmacological and Hormonal Regulation of Intestinal Barrier Function

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Welche Forschungsprojekte sind seit Gründung des BIH durch das Land Berlin oder den Bund gefördert worden?

135	Bund / Land Berlin	Nachwuchsförderung_CSP	Mechanisms of Chemoresistance in Aggressive Lymphomas
136	Bund / Land Berlin	Nachwuchsförderung_CSP	Deep brain stimulation in epilepsy – a translational approach
137	Bund / Land Berlin	Nachwuchsförderung_CSP	Evaluation of surgical technique of posterior lamellar keratoplasty and postoperative complications
138	Bund / Land Berlin	Nachwuchsförderung_CSP	Diffusion Tensor Imaging – new possibilities in Diagnostic Neuroradiology
139	Bund / Land Berlin	Nachwuchsförderung_CSP	Investigation of nociception during anesthesia using fMRI, EEG and noxious reflexes
140	Bund / Land Berlin	Nachwuchsförderung_CSP	Pathophysiology and prevention of chemotherapy-induced neuropathy
141	Bund / Land Berlin	Nachwuchsförderung_CSP	BERLINER Study – The role of circulatory biomarkers alone and in combination with systematic ultrasound to identify the risk of ovarian cancer in pelvic mass patients
142	Bund / Land Berlin	Nachwuchsförderung_CSP	Retinoic Acid Homeostasis in Major Depression
143	Bund / Land Berlin	Nachwuchsförderung_CSP	Androgen-dependent regulation of whole body sodium metabolism, blood pressure and cardiovascular function
144	Bund / Land Berlin	Nachwuchsförderung_CSP	Analysis of epigenetic defects in endocrine diseases
145	Bund / Land Berlin	Nachwuchsförderung_CSP	Prevention of delirium in critically ill patients+
146	Bund / Land Berlin	Nachwuchsförderung_CSP	TLR- and NLR-mediated mucosal endothelial cell activation by probiotics: Role of angiogenesis in inflammatory bowel disease pathogenesis
147	Bund / Land Berlin	Nachwuchsförderung_CSP	Metabolic Plasticity of Smooth Muscle Cells in Human Vascular disease
148	Bund / Land Berlin	Nachwuchsförderung_CSP	Molecular characterization of hematopoietic stem and progenitor cell involvement during lymphomagenesis
149	Bund / Land Berlin	Nachwuchsförderung_CSP	Systemic analysis of genotype-phenotype correlations in GPI-anchor deficiencies
150	Bund / Land Berlin	Nachwuchsförderung_CSP	Delayed haemolysis following artemisinin therapy of malaria
151	Bund / Land Berlin	Nachwuchsförderung_CSP	Biomarkers of endothelial function in stroke – the Prospective Cohort with Incident Stroke Study Berlin (PROSCIS-B)
152	Bund / Land Berlin	Nachwuchsförderung_CSP	Development of high affinity T-cell receptors against Cyclin A1 for the elimination of stem cells in acute myeloid leukemia
153	Bund / Land Berlin	Nachwuchsförderung_CSP	Regulation of intrinsic anti-inflammatory mediators during renal transplant rejection
154	Bund / Land Berlin	Nachwuchsförderung_CSP	Mechanisms of neurovascular remodeling and the role of VEGF following stroke
155	Bund / Land Berlin	Nachwuchsförderung_CSP	Predictors of acute (cardiac) complications after ischemic stroke
156	Bund / Land Berlin	Nachwuchsförderung_CSP	Theranostic of Prostate Cancer: Radionuclide Therapy and Functional Molecular Hybrid Imaging
157	Bund / Land Berlin	Nachwuchsförderung_CSP	Altered polarity of intestinal epithelia and its reversal
158	Bund / Land Berlin	Nachwuchsförderung_CSP	The role of the transcription factor PITX1 in joint development and osteoarthritis
159	Bund / Land Berlin	Nachwuchsförderung_CSP	Interaction between pathological angiogenesis and retinal neurodegeneration
160	Bund / Land Berlin	Nachwuchsförderung_CSP	Cellular urinomics – Flow cytometric detection of urinary cell signatures as noninvasive approach to diagnose and investigate renal diseases
161	Bund / Land Berlin	Nachwuchsförderung_CSP	Molecular characterization of fetal insulin resistance
162	Bund / Land Berlin	Nachwuchsförderung_CSP	Development of novel treatment strategies for head and neck cancer employing patient-derived xenografts
163	Bund / Land Berlin	Nachwuchsförderung_CSP	Pathophysiology of the post-operative delirium: Effects of narcotics and inflammatory mediators on neuronal network activity and neurometabolism
164	Bund / Land Berlin	Nachwuchsförderung_CSP	Cancer stem cells and tumor associated stromal cells in pancreatic cancer
165	Bund / Land Berlin	Nachwuchsförderung_CSP	Development of prognostic and predictive biomarkers for gastric cancer
166	Bund / Land Berlin	Nachwuchsförderung_CSP	Granuloma formation, biomarkers and control of tuberculosis disease in children
167	Bund / Land Berlin	Nachwuchsförderung_CSP	Beyond the margin of local ablation: Perifocal immune response and tumor progression after Image-guided ablative tumor therapies in a VX2 liver tumor model
168	Bund / Land Berlin	Nachwuchsförderung_CSP	Identification of unstable coronary atherosclerotic plaque using noninvasive 3-Tesla magnetic resonance imaging with an albuminbinding contrast agent
169	Bund / Land Berlin	Nachwuchsförderung_CSP	iRhom2 in atherosclerosis
170	Bund / Land Berlin	Nachwuchsförderung_CSP	Development of a microRNA-targeted therapy to regenerate the heart in patients with myocardial infarction: Functional highthroughput screening in human iPSC-derived cardiomyocytes using a microRNA library
171	Bund / Land Berlin	Nachwuchsförderung_CSP	Plasticity of the human gut microbiota during weight loss and its consequences in humanized gnotobiotic mice
172	Bund / Land Berlin	Nachwuchsförderung_CSP	Molecular genetic analysis of CNS lymphoma
173	Bund / Land Berlin	Nachwuchsförderung_CSP	The neurobiology of delusions – Linking perceptual inference and dopamine
174	Bund / Land Berlin	Nachwuchsförderung_CSP	Decellularization and recellularization of parenchymal organs
175	Bund / Land Berlin	Nachwuchsförderung_CSP	Molecular alterations in acute lymphoblastic leukemia as drivers of leukemogenesis and therapeutic targets
176	Bund / Land Berlin	Nachwuchsförderung_CSP	Functional characterization of the protein TGDS and the pathophysiology of CateI-Manzke syndrome
177	Bund / Land Berlin	Nachwuchsförderung_CSP	Investigation of functional consequences of clonal hematopoiesis and pharmacological interventions
178	Bund / Land Berlin	Nachwuchsförderung_CSP	Pathomechanisms and prevention of post-chemotherapy cognitive impairment
179	Bund / Land Berlin	Nachwuchsförderung_CSP	Neurobiology of chronic depression: Alterations in emotion regulation and influence of psychotherapy
180	Bund / Land Berlin	Nachwuchsförderung_CSP	Analysis of persistence and efficacy of chimeric antigen receptor (CAR) T cell therapy in solid tumors

Anlage 1 - Anfrage 18_20300

Welche Forschungsprojekte sind seit Gründung des BIH durch das Land Berlin oder den Bund gefördert worden?

181	Bund / Land Berlin	Nachwuchsförderung_CSP	An immune reconstitution and biomarker platform for hematopoietic stem cell transplantation in children
182	Bund / Land Berlin	Nachwuchsförderung_CSP	Identification and characterization of new microcephaly genes
183	Bund / Land Berlin	Nachwuchsförderung_CSP	Glycosaminoglycans as targets for non-invasive imaging of unstable atherosclerotic plaques
184	Bund / Land Berlin	Nachwuchsförderung_CSP	Laser-assisted dermal drug delivery
185	Bund / Land Berlin	Nachwuchsförderung_CSP	Comparative analysis of tumor heterogeneity in non-small cell lung cancer (NSCLC) by phosphoproteomics and next generation sequencing (NGS)
186	Bund / Land Berlin	Nachwuchsförderung_CSP	Influence of the complement system on the myofibroblast activation during corneal wound healing
187	Bund / Land Berlin	Nachwuchsförderung_CSP	Phenotypes, clonal relatedness, and functions of multiple myeloma bone marrow-infiltrating T lymphocytes
188	Bund / Land Berlin	Nachwuchsförderung_CSP	Influence of endothelial IL6/Stat3 signaling on angiogenesis, ECM remodeling and neuroplasticity after stroke
189	Bund / Land Berlin	Nachwuchsförderung_CSP	Cellular and molecular characterization of fracture healing in traumatic brain injury
190	Bund / Land Berlin	Nachwuchsförderung_CSP	NAD+ orchestrates liver regeneration by oxidative stress resistance and stem cell recruitment
191	Bund / Land Berlin	Nachwuchsförderung_CSP	Adoptive T-cell therapy with enrichment of central memory T-cells in solid organ transplant recipients with CMV infection resistant to antiviral therapy
192	Bund / Land Berlin	Nachwuchsförderung_CSP	Investigation of the role of neonatal oxidative stress in neonatal brain development and genesis of ADHD like symptoms
193	Bund / Land Berlin	Nachwuchsförderung_CSP	Hypothermia and neuroprotection: A role for cold-shock proteins?
194	Bund / Land Berlin	Nachwuchsförderung_CSP	Prevention of neuromuscular organ failure in critically ill patients
195	Bund / Land Berlin	Nachwuchsförderung_CSP	Inhibition of the CXCL2/CXCR2 signaling pathway in GBM as therapeutic option
196	Bund / Land Berlin	Nachwuchsförderung_CSP	The role of CD39+ Foxp3+ regulatory T-cells in cholangiocarcinoma progression
197	Bund / Land Berlin	Nachwuchsförderung_CSP	Imaging genetics and epigenetics in alcohol use disorder
198	Bund / Land Berlin	Nachwuchsförderung_CSP	Targeting intravital protein interactions in neuronal energy metabolism of stroke
199	Bund / Land Berlin	Nachwuchsförderung_CSP	Defatting of steatotic liver grafts by ex vivo machine perfusion with DNP
200	Bund / Land Berlin	Nachwuchsförderung_CSP	Epigenetic changes and repair of the DNA breaks in skeletal muscle in critical illness myopathy
201	Bund / Land Berlin	Nachwuchsförderung_CSP	Mechanisms of gastric stem cell control upon infection and carcinogenesis
202	Bund / Land Berlin	Nachwuchsförderung_CSP	Evaluation and integration of molecular assays to address clinical problems in breast cancer
203	Bund / Land Berlin	Nachwuchsförderung_CSP	The heart as an endocrine organ: Chromogranin B and the inositol-1,4,5-trisphosphate receptor in excitation-secretion coupling in cardiomyocytes
204	Bund / Land Berlin	Nachwuchsförderung_CSP	Einflussfaktoren auf das Ansprechen auf Antidepressiva bei PatientInnen mit türkischem Migrationshintergrund
205	Bund / Land Berlin	Nachwuchsförderung_CSP	Role of ENTPD3 in acute and chronic liver disease
206	Bund / Land Berlin	Nachwuchsförderung_CSP	Transfusionsassoziierte Auswirkungen auf die Entwicklung eines Ventilations-induzierten Lungenschadens
207	Bund / Land Berlin	Nachwuchsförderung_CSP	Probing and manipulating neuronal circuits in obesity
208	Bund / Land Berlin	Nachwuchsförderung_CSP	Big Data Analytics in Healthcare – Medical Data Science to Improve Patient Safety during Intensive Care
209	Bund / Land Berlin	Nachwuchsförderung_CSP	Dissection and functional validation of recurrent driver gene mutations in primary mediastinal B-cell lymphoma
210	Bund / Land Berlin	Nachwuchsförderung_CSP	Prostatakarzinom Large-Scale Radiomics- Analyse der Prostatakarzinom-Bildgebung zur nichtinvasiven Risikostratifizierung
211	Bund / Land Berlin	Nachwuchsförderung_CSP	Molecular mechanisms of tumor-immune cell interaction in glioblastoma
212	Bund / Land Berlin	Nachwuchsförderung_CSP	Assessing cell type-specific gene expression profiles in healthy and diseased kidney tissues using single-cell RNA-seq
213	Bund / Land Berlin	Nachwuchsförderung_CSP	Circulating blood biomarkers for diagnostic, prognostic and therapeutic utilisation in cancer patients
214	Bund / Land Berlin	Nachwuchsförderung_CSP	Femtosecond laser assisted versus manual descemetorhexis
215	Bund / Land Berlin	Nachwuchsförderung_CSP	Alternative Osteosynthesematerialien für die Kieferrekonstruktion
216	Bund / Land Berlin	Nachwuchsförderung_CSP	Role and regulation of Nox4 in retinal cells during diabetes
217	Bund / Land Berlin	Nachwuchsförderung_CSP	Phosphoryliertes alpha-Synuclein der Haut als Biomarker neurodegenerativer Parkinson Syndrome
218	Bund / Land Berlin	Nachwuchsförderung_CSP	Fertility in patients with chronic anaemic diseases, FeCt-Haematology
219	Bund / Land Berlin	Nachwuchsförderung_CSP	Novel Treatment and Diagnostic Approaches utilizing the Role of Dendritic Cells in Immune Responsivness
220	Bund / Land Berlin	Nachwuchsförderung_CSP	Biomarker development for adult hemophagocytic lymphohistiocytosis in intensive care units
221	Bund / Land Berlin	Nachwuchsförderung_CSP	Functional brain changes and pain reduction in IBD patients via tDCS
222	Bund / Land Berlin	Nachwuchsförderung_CSP	Personalised management of acute ischemic stroke patients – prehospital triage strategies and imaging biomarkers.
223	Bund / Land Berlin	Nachwuchsförderung_CSP	Phenomics & Genomics of Clozapine Pharmacotherapy
224	Bund / Land Berlin	Nachwuchsförderung_CSP	Influence of the peripheral CYP 2C19 enzyme activity on depression in two distinct ethnic groups
225	Bund / Land Berlin	Nachwuchsförderung_CSP	Deep brain stimulation as novel treatment for rapid-onset dystonia parkinsonism
226	Bund / Land Berlin	Nachwuchsförderung_CSP	Putative role for bacterial metabolites in protection from hypertensive organ damage

Anlage 1 - Anfrage 18_20300

Welche Forschungsprojekte sind seit Gründung des BIH durch das Land Berlin oder den Bund gefördert worden?

227	Bund / Land Berlin	Nachwuchsförderung_CSP	Mobilization of donor immunological memory and its fate after allogeneic hematopoietic stem cell transplantation
228	Bund / Land Berlin	Nachwuchsförderung_CSP	Molecular PET-MR- Imaging for detection and characterization of vulnerable atherosclerotic plaques in coronary arteries
229	Bund / Land Berlin	Nachwuchsförderung_CSP	Functional characterization, pharmacological modulation and clinical correlation of rare CFTR mutations in human epithelia
230	Bund / Land Berlin	Nachwuchsförderung_CSP	Mechanical Atrial Dysfunction in Heart Failure
231	Bund / Land Berlin	Nachwuchsförderung_CSP	Homeostatic control after stroke – effects of challenge tests on metabolic and cerebral biomarkers
232	Bund / Land Berlin	Nachwuchsförderung_CSP	Establishment of a Clinical Research Unit for LEADER Transition from prenatal diagnosis to healthy and wealthy adulthood
233	Bund / Land Berlin	Nachwuchsförderung_CSP	Immunological and morphological signatures in non-infectious chorioretinitis
234	Bund / Land Berlin	Nachwuchsförderung_CSP	B-mode ultrasound as a novel noninvasive imaging biomarker for the functional assessment of the afferent visual pathway
235	Bund / Land Berlin	Nachwuchsförderung_CSP	Role of MIF in human acute peritonitis
236	Bund / Land Berlin	Nachwuchsförderung_CSP	Molecular characterization of spinal paraganglioma
237	Bund / Land Berlin	Nachwuchsförderung_CSP	Significance of the transcription factor TAZ in lymphocytes for Treg- TH17 balance and Ang II-induced end-organ damage
238	Bund / Land Berlin	Nachwuchsförderung_CSP	The role of mesenteric fat in intestinal inflammation
239	Bund / Land Berlin	Nachwuchsförderung_CSP	The role of neural network rewiring and ageing during motor recovery after stroke
240	Bund / Land Berlin	Nachwuchsförderung_CSP	Characterization of the tumor and its surrounding microenvironment during treatment to improve future cancer therapies
241	Bund / Land Berlin	Nachwuchsförderung_CSP	Cytokine-armed oncolytic vaccinia virus for pancreatic cancer therapy
242	Bund / Land Berlin	Nachwuchsförderung_CSP	Predicting cognitive deficits and response to non-invasive brain stimulation in patients with schizophrenia
243	Bund / Land Berlin	Nachwuchsförderung_CSP	Predictors of cognitive decline after deep brain stimulation in Parkinson's disease
244	Bund / Land Berlin	Nachwuchsförderung_CSP	Role of mast cells in herpes simplex virus infection
245	Bund / Land Berlin	Nachwuchsförderung_CSP	Comprehensive analysis of the relation between Epstein-Barr virus infection and intrathecal Ig production in MS
246	Bund / Land Berlin	Nachwuchsförderung_CSP	Mechanisms of sudden cardiac death, arrhythmias and cardiac contractile dysfunction in HFpEF
247	Bund / Land Berlin	Nachwuchsförderung_CSP	Development of a translational precision oncology program for head and neck cancers
248	Bund / Land Berlin	Nachwuchsförderung_CSP	The Impact of Donor Derived Microparticles Following Solid Organ Transplantation
249	Bund / Land Berlin	Nachwuchsförderung_CSP	Prevalence of Small Fibre Neuropathy in Systemic Sclerosis
250	Bund / Land Berlin	Nachwuchsförderung_CSP	The influence of virtual and structural lesions of frontal cortex on perceptual decisions
251	Bund / Land Berlin	Nachwuchsförderung_CSP	MR-based evaluation of aortic aneurysm rupture risk with albumin-binding and novel ADAMTS-4-specific molecular probes
252	Bund / Land Berlin	Nachwuchsförderung_CSP	Inhalable nanoparticle formulations targeting the heart.
253	Bund / Land Berlin	Nachwuchsförderung_CSP	Evaluating circular RNAs in neuroblastoma as potential therapeutic targets
254	Bund / Land Berlin	Nachwuchsförderung_CSP	Forward genetic screening for analysis and therapeutic targeting of BCL6-associated lymphoma
255	Bund / Land Berlin	Nachwuchsförderung_CSP	Estrogen- and Progesterone-induced improvement of fear extinction in healthy women
256	Bund / Land Berlin	Nachwuchsförderung_CSP	Targeting Inflamed Endothelium with Smart Exosomes for Cardioprotection
257	Bund / Land Berlin	Nachwuchsförderung_CSP	The functional characterization of anti-mGluR5 antibodies in Ophelia syndrome and its link to Hodgkin lymphoma
258	Bund / Land Berlin	Nachwuchsförderung_CSP	Investigation of hematoma growth in intracerebral hemorrhage in a translational approach
259	Bund / Land Berlin	Nachwuchsförderung_CSP	Epigenetic regulation of plasma cell differentiation in Systemic Lupus Erythematosus
260	Bund / Land Berlin	Nachwuchsförderung_CSP	Role of spleen tyrosine kinase (Syk) in pulmonary arterial hypertension (PAH)
261	Bund / Land Berlin	Nachwuchsförderung_Pilot grants	FlurinoCyte – Urine Flow Cytometry as non-invasive biomarker for renal diseases
262	Bund / Land Berlin	Nachwuchsförderung_Pilot grants	A Mobile Health Wallet for Madagascar
263	Bund / Land Berlin	Nachwuchsförderung_Pilot grants	Validation and certification of a pre-tied ready-prepared surgical knot device
264	Bund / Land Berlin	Nachwuchsförderung_BIH Promotionsstipendien	Aktivierung und Modulation endogener zentralnervöser Reparatur-mechanismen bei chronischer Inflammation des zentralen Nervensystems
265	Bund / Land Berlin	Nachwuchsförderung_BIH Promotionsstipendien	Funktionsanalyse von Immunzellen mittels Fluoreszenzlebensdauer-Cytometry
266	Bund / Land Berlin	Nachwuchsförderung_BIH Promotionsstipendien	Die Bedeutung des Plasmamembrantransporters mINDY in der Leberregeneration
267	Bund / Land Berlin	Nachwuchsförderung_BIH Promotionsstipendien	Identifizierung Pathogenese-relevanter Kandidatengene in lymphatischen Neoplasien durch CRISPR/Cas9-basiertes knockout-Screening
268	Bund / Land Berlin	Nachwuchsförderung_BIH Promotionsstipendien	Interaction of microglia with tumor stem cells
269	Bund / Land Berlin	Nachwuchsförderung_BIH Promotionsstipendien	Therapeutic potential of the ISG15-system in inflammatory cardiomyopathy
270	Bund / Land Berlin	Nachwuchsförderung_BIH Promotionsstipendien	Entwicklung neuer ZNS-Läsionsmodelle im in vivo Modell
271	Bund / Land Berlin	Nachwuchsförderung_BIH Promotionsstipendien	EphrinB2-EphB4 pathway as a therapeutic target in spinal metastasis formation
272	Bund / Land Berlin	Nachwuchsförderung_BIH Promotionsstipendien	Funktionelle Charakterisierung der Antikörper vermittelter Protease-aktivierten Rezeptor-1 (PAR-1) Aktivierung
273	Bund / Land Berlin	Nachwuchsförderung_BIH Promotionsstipendien	Zellzykluskontrolle β -herpesviraler Kinasen
274	Bund / Land Berlin	Nachwuchsförderung_BIH Promotionsstipendien	Untersuchung von Resolutionsdefiziten nach Rückenmarks-verletzung in Abhängigkeit von der anatomischen Verletzungslokalisation sowie der spinalen Verletzungshöhe: tierexperimentelle Untersuchungen am Versuchstier Ratte
275	Bund / Land Berlin	Nachwuchsförderung_BIH Promotionsstipendien	Molekulare Identifizierung der klonalen Hämatopese und deren Dynamik in Patienten mit myelotoxischer Chemotherapie
276	Bund / Land Berlin	Nachwuchsförderung_BIH Promotionsstipendien	Evaluierung des Wilms' Tumor Proteins WT1 als potenzielles Ziel zur Behandlung des Neuroblastoms

Anlage 1 - Anfrage 18_20300

Welche Forschungsprojekte sind seit Gründung des BIH durch das Land Berlin oder den Bund gefördert worden?

277	Bund / Land Berlin	Nachwuchsförderung_BIH Promotionsstipendien	Die Rolle der Stammzellfraktion und des Notchsignalwegs im Intrahepatischen und Extrahepatischen Cholangiokarzinoms
278	Bund / Land Berlin	Nachwuchsförderung_BIH Promotionsstipendien	Identifikation der Zielstrukturen von Anti-Tumor TZellen bei paraneoplastischer Kleinhirndegeneration
279	Bund / Land Berlin	Nachwuchsförderung_BIH Promotionsstipendien	Genetische Faktoren zur Regulation der Knochemasse
280	Bund / Land Berlin	Nachwuchsförderung_BIH Promotionsstipendien	Zfp580 als Substrat endogener Neuroprotektion: Untersuchungen von Expression und post- translationaler Modifikationen in Mausmodellen
281	Bund / Land Berlin	Nachwuchsförderung_BIH Promotionsstipendien	Analyse der Überlebensnische von Plasmazellen im Gehirn mit molekularer Multiplex-System Histologie
282	Bund / Land Berlin	Nachwuchsförderung_BIH Promotionsstipendien	Untersuchung und Vergleich struktureller funktioneller Veränderungen des afferenten visuellen Systems bei Erkrankungen des Neuromyelitis optica Spektrums
283	Bund / Land Berlin	Nachwuchsförderung_BIH Promotionsstipendien	Charakterisierung der Immunantwort gegen Maser-Impfvirus
284	Bund / Land Berlin	Nachwuchsförderung_BIH Promotionsstipendien	Rolle von gp130 in Muskelatrophie und im Impfvirus Muskelproteom durch Inflammation
285	Bund / Land Berlin	Nachwuchsförderung_BIH Promotionsstipendien	Immunogenicity of allogeneic cardiac-derived adherent proliferating (CardAP)-cells from the atrial auricule
286	Bund / Land Berlin	Nachwuchsförderung_BIH Promotionsstipendien	Analysis of the 17β-Estradiol effect on collagen I and III expression in human cardiac fibroblasts
287	Bund / Land Berlin	Nachwuchsförderung_BIH Promotionsstipendien	Renal and Extrarenal Effects of Vasopressin in the Regulation of the Water and Electrolyte Homeostasis
288	Bund / Land Berlin	Nachwuchsförderung_BIH Promotionsstipendien	Identification of predictors for a response to anti-TNFα-treatment in IBD patients
289	Bund / Land Berlin	Nachwuchsförderung_BIH Promotionsstipendien	Evaluation of Role of VEGF in Oxaliplatin-Induced Sinusoidal Obstruction Syndrome - In-Vivo and In-Vitro Studies
290	Bund / Land Berlin	Nachwuchsförderung_BIH Promotionsstipendien	Phenotypical and functional Assay of Human Terminally Differentiated Effector T Cells (Temra) in Human
291	Bund / Land Berlin	Nachwuchsförderung_BIH Promotionsstipendien	Epigenetic control of endothelial phenotype and atherosclerosis in response to atherogenic blood flow
292	Bund / Land Berlin	Nachwuchsförderung_BIH Promotionsstipendien	The effects of WT1 on gene expression and alternative pre-mRNA splicing in embryonic kidneys and renal cancer
293	Bund / Land Berlin	Nachwuchsförderung_BIH Promotionsstipendien	Prioritization of Exome Data by Image Analysis
294	Bund / Land Berlin	Nachwuchsförderung_BIH Promotionsstipendien	Evaluating the Influence of PD1-Inhibition on the CAR-T-Cell Therapy Efficiency in Neuroblastoma.
295	Bund / Land Berlin	Nachwuchsförderung_BIH Promotionsstipendien	Characterization of Incidence, Imaging Pattern and Pathobiology of Radiation Necrosis in High-Grade Gliomas
296	Bund / Land Berlin	Nachwuchsförderung_BIH-TRENAL Promotionsstipendien	mTOR complexes in renal tubular epithelial cell homeostasis
297	Bund / Land Berlin	Nachwuchsförderung_BIH-TRENAL Promotionsstipendien	Proof of specific T-cells in blood and urine samples of patients with active ANCA-associated vasculitis
298	Bund / Land Berlin	Nachwuchsförderung_BIH-TRENAL Promotionsstipendien	Untersuchung von DAAM1 in normalem Nebennierenkortex und Nebennierenrindentumoren
299	Bund / Land Berlin	Nachwuchsförderung_BIH-TRENAL Promotionsstipendien	Oxalat als Trigger der IL-16 Freisetzung aus Entzündungszellen
300	Bund / Land Berlin	Nachwuchsförderung_BIH Promotionsstipendien	Fibroblasten-medierte Vorhofdysfunktion bei diastolischer Herzinsuffizienz und hypertensiver Herzkrankheit.
301	Bund / Land Berlin	Nachwuchsförderung_BIH Promotionsstipendien	Konstruktion eines endokrinen Neo-Pankreas
302	Bund / Land Berlin	Nachwuchsförderung_BIH Promotionsstipendien	Verbesserte Fraktuheilung nach Schädelhirntrauma - die Rolle der verletzungsabhängigen Immunantwort
303	Bund / Land Berlin	Nachwuchsförderung_BIH Promotionsstipendien	Die Rolle extrazellulärer RNA und DNA bei Inflammation nach experimenteller Subarachnoidalblutung.
304	Bund / Land Berlin	Nachwuchsförderung_BIH Promotionsstipendien	Klinische Charakteristika und molekulare Ursachen von segmentalen progeroiden Erkrankungen.
305	Bund / Land Berlin	Nachwuchsförderung_BIH Promotionsstipendien	Proteolyse in Immunzellen bei entzündlichen Herzmuskelerkrankungen
306	Bund / Land Berlin	Nachwuchsförderung_BIH Promotionsstipendien	Strukturelle und funktionelle Veränderungen der Retina als Diagnose und Verlaufsparemeter chronischer Neuroinflammation
307	Bund / Land Berlin	Nachwuchsförderung_BIH Promotionsstipendien	Tiefgehende Phänotypisierung cytometrischer Daten
308	Bund / Land Berlin	Nachwuchsförderung_BIH Promotionsstipendien	Auswirkungen von Calcium-Kanal-Blockern auf durch oxidativen Stress induzierte, mitochondriale Veränderungen
309	Bund / Land Berlin	Nachwuchsförderung_BIH Promotionsstipendien	CRISPR/Cas9-vermittelte Genveränderung von T Zellen– Ein Ansatz zur Verbesserung von T-Zelltherapien
310	Bund / Land Berlin	Nachwuchsförderung_BIH Promotionsstipendien	Lokalisation des Schilddrüsenhormontransporters MCT8 im humanen Gehirn und Therapieentwicklung für MCT8-Defizienz
311	Bund / Land Berlin	Nachwuchsförderung_BIH-TRENAL Promotionsstipendien	Oxalat als Auslöser für eine IL-16 Ausschüttung
312	Bund / Land Berlin	Nachwuchsförderung_BIH Promotionsstipendien	Untersuchungen zu bekannten Krankheitsgenen und neuen Kandidatengen bei monogenetischen Formen der art. Hypertonie
313	Bund / Land Berlin	Nachwuchsförderung_BIH Promotionsstipendien	Charakterisierung der Stammelldynamik im Mausestrich im Kontext der Helicobacter pylori-Infektion und des p53 Knockouts
314	Bund / Land Berlin	Nachwuchsförderung_BIH Promotionsstipendien	Klassifizierung sinusalen Tumore anhand ihres DNA-Methylierungsprofils
315	Bund / Land Berlin	Nachwuchsförderung_BIH Promotionsstipendien	Evaluation einer Kombination aus bispezifischem trifunktionalem Antikörper und Checkpoint-Inhibition im Neuroblastom
316	Bund / Land Berlin	Nachwuchsförderung_BIH Promotionsstipendien	3D-Chromatinstruktur der akuten myeloischen Leukämie mit komplexen genetischen (genomischen) Aberrationen
317	Bund / Land Berlin	Nachwuchsförderung_BIH Promotionsstipendien	Präklin. Evaluation von Panobinostat in Kombination mit zielgerichteten Therapeutika und konv. Chemoth. im Neuroblastom
318	Bund / Land Berlin	Nachwuchsförderung_BIH Promotionsstipendien	Synergismus bei Genom- und Metabolismus stabilisierender Antitumortherapie in der Brustkrebszelllinie MCF-7
319	Bund / Land Berlin	Nachwuchsförderung_BIH Promotionsstipendien	Die Charakterisierung von Ionenkanälen und Rezeptoren in Mikroglia im Verlauf der Alzheimer-Demenz

Anlage 1 - Anfrage 18_20300

Welche Forschungsprojekte sind seit Gründung des BIH durch das Land Berlin oder den Bund gefördert worden?

320	Bund / Land Berlin	Nachwuchsförderung_BIH Promotionsstipendien	Die Rolle von Immunglobulinen der Klasse A und E bei chronischer spontaner Urtikaria.
321	Bund / Land Berlin	Nachwuchsförderung_BIH Promotionsstipendien	Phänotypische Charakterisierung onkogen-inaktiver Krebszellen
322	Bund / Land Berlin	Nachwuchsförderung_BIH Promotionsstipendien	Aufzeigen der Mechanismen hinter Chemoresistenzen in Rhabdomyosarkomen
323	Bund / Land Berlin	Nachwuchsförderung_BIH Promotionsstipendien	Untersuchung des Einflusses von KDM1A auf Neuroblastom-spezifische CAR-T-Zelltherapie
324	Bund / Land Berlin	Nachwuchsförderung_BIH-TRENAL Promotionsstipendien	Modulation der Cyclosporin-A vermittelten Nephrotoxizität durch PHD-Inhibitoren
325	Bund / Land Berlin	Nachwuchsförderung_BIH-TRENAL Promotionsstipendien	Oxalat als Auslöser einer Veränderung der Monozyten-Subtypen und IL-16 Ausschüttung
326	Bund / Land Berlin	Nachwuchsförderung_Translational Postdoc	Identification of therapeutically relevant key factors in vascular calcification
327	Bund / Land Berlin	Nachwuchsförderung_Translational Postdoc	ARHGAP36-mediated inhibition of Protein Kinase A in skeletal muscle development, regeneration and disease
328	Bund / Land Berlin	Nachwuchsförderung_Translational PhD	Identifying the mechanisms of antidepressant drug action in mice lacking brain serotonin
329	Bund / Land Berlin	Nachwuchsförderung_Translational PhD	Targeting alternative translational initiation of oncogenes in cancer cells
330	Bund / Land Berlin	Nachwuchsförderung_Translational PhD	Investigation of the energy expenditure of human iPSC-derived basal ganglia neurons from patients with Leigh Syndrome
331	Bund / Land Berlin	Nachwuchsförderung_Translational PhD	The role of human microglia for glioma progression
332	Bund / Land Berlin	Nachwuchsförderung_Translational PhD	Impact of energy metabolism on bone regeneration
333	Bund / Land Berlin	Nachwuchsförderung_Translational PhD	Functional characterization of osteoactivin/Gpnb in myocardial infarction
334	Bund / Land Berlin	Nachwuchsförderung_Translational PhD	Modulation of neonatal olfactory cortex spontaneous synchronized activity in the GLUK2 KO model of mental retardation
335	Bund / Land Berlin	Nachwuchsförderung_Translational PhD	Regulation of pro- and anti-inflammatory mechanisms mediated by fatty acid metabolites in metabolic liver damage – a role for omega-3 fatty acids in prevention?
336	Bund / Land Berlin	Nachwuchsförderung_Translational PhD	RNA-edited glycine receptor as marker and therapeutic target in intractable epilepsy
337	Bund / Land Berlin	Nachwuchsförderung_Translational PhD	Decoding the metabolic program of deregulated MYCN expression in neuroblastoma
338	Bund / Land Berlin	Nachwuchsförderung_Translational PhD	Novel gene therapeutic approaches to osteopetrosis
339	Bund / Land Berlin	Nachwuchsförderung_Translational PhD	Dissection of GvHD and tumor rejection by selective inhibition of NFAT-activation and gut-migration of adoptively transferred T cells
340	Bund / Land Berlin	Nachwuchsförderung_Translational PhD	Investigating mechanisms of microglia-mediated neuronal damage processes in Multiple Sclerosis pathophysiology
341	Bund / Land Berlin	Nachwuchsförderung_Translational PhD	Study of novel molecular defects in human pancreas dysfunction
342	Bund / Land Berlin	Nachwuchsförderung_Translational PhD	Modulation of muscle afferent mechanotransduction to treat painful muscle pathologies
343	Bund / Land Berlin	Nachwuchsförderung_Translational PhD	Placental and cardiovascular maladaptation during preeclampsia as a risk factor for future cardiovascular disease
344	Bund / Land Berlin	Nachwuchsförderung_Translational PhD	Identification of interacting molecular Partners and their Role in human Physiology and Pathophysiology of Epithelial Transport
345	Bund / Land Berlin	Nachwuchsförderung_Translational PhD	Epigenetic disturbances contribute to the etiology of Preeclampsia
346	Bund / Land Berlin	Nachwuchsförderung_Translational PhD	Dissecting the cellular and molecular mechanisms of leukemia cell migration and localization to and within the testis in childhood ALL
347	Bund / Land Berlin	QUEST	Replikationsstudien
348	Bund / Land Berlin	QUEST	eLN
349	Bund / Land Berlin	QUEST	MERIT
350	Bund / Land Berlin	QUEST	Dimensions
351	Bund / Land Berlin	Programme/Plattformen	Establish a BIH Repository of hiPSC Reference Cell Lines
352	Bund / Land Berlin	Programme/Plattformen	Single cell RNA sequencing (scRNAseq) pipeline for in depth characterization of organoids
353	Bund / Land Berlin	Programme/Plattformen	Workshop “How to address authoritative agencies in the field of ATMPs and orphan drug designation”
354	Bund / Land Berlin	Programme/Plattformen	Engineering genetic biosensors to improve quality control and monitoring of iPSC derived organoids in cancer, neuroscience, and cardiovascular research.
355	Bund / Land Berlin	Programme/Plattformen	Ex vivo modeling of human glioblastoma using multicellular organoids
356	Bund / Land Berlin	Programme/Plattformen	Bone/bone-marrow on a chip
357	Bund / Land Berlin	Programme/Plattformen	Pathogenic effects of mHTT
358	Bund / Land Berlin	Programme/Plattformen	Assessing therapeutic options for high-risk neuroblastomas in patient- derived models
359	Bund / Land Berlin	Programme/Plattformen	National and international requirements to introduce ATMPs into clinical use
360	Bund / Land Berlin	Programme/Plattformen	Humanized immunocompromised animal models
361	Bund / Land Berlin	Programme/Plattformen	Efficient diagnosis of MUC1 mutations in autosomal dominant tubulointerstitial kidney disease by single molecule real time sequencing
362	Bund / Land Berlin	Programme/Plattformen	Analysis of post-translational modification (PTM)-driven pathways in neuroblastoma to define signatures for risk classification and therapy selection
363	Bund / Land Berlin	Programme/Plattformen	Parallel single-cell circular DNA and linear RNA sequencing in neuroblastoma tumor cells
364	Bund / Land Berlin	Programme/Plattformen	SWGS4SCQC – Shallow whole genome sequencing for stem cell quality control
365	Bund / Land Berlin	Programme/Plattformen	Redefine subcategories of inflammatory bowel disease
366	Bund / Land Berlin	Programme/Plattformen	Dilated cardiomyopathy
367	Bund / Land Berlin	Programme/Plattformen	Proof-of-principle to implement clinical mass spectrometry for precision medicine
368	Bund / Land Berlin	Programme/Plattformen	Effects of CFTR Modulator Therapy on the Proteome, Metabolome and Microbiome in Patients with Cystic Fibrosis
369	Bund / Land Berlin	Programme/Plattformen	Single Cell RNA Sequencing
370	Bund / Land Berlin	Programme/Plattformen	In-depth tissue phenotyping by imaging mass cytometry
371	Bund / Land Berlin	Programme/Plattformen	Deep Neuroretina (OCTA/AI)
372	Bund / Land Berlin	Programme/Plattformen	Integrated morpho-molecular precision oncology

Anlage 1 - Anfrage 18_20300

Welche Forschungsprojekte sind seit Gründung des BIH durch das Land Berlin oder den Bund gefördert worden?

373	Bund / Land Berlin	Programme/Plattformen	Test lab for HL7 FHIR and CDA data from wearables and smartphone apps
374	Bund / Land Berlin	Programme/Plattformen	Implementation of a central ID and consent management
375	Bund / Land Berlin	Programme/Plattformen	Empowering the Charité Health Data Platform for broad applications in digital medicine across clinical sectors
376	Bund / Land Berlin	Programme/Plattformen	Verbesserung von HIV-1-Cure Strategien unter Hilfe von single cell-seq
377	Bund / Land Berlin	Programme/Plattformen	Bornavirus infection in limbic encephalitis
378	Bund / Land Berlin	Programme/Plattformen	GMP-grade retrovirus NY-ESO 1 for anti cancer gene therapy
379	Bund / Land Berlin	Programme/Plattformen	Erweitertes Mapping regulatorischer Sequenzen in humanen Immun- und Knochenzellen
380	Bund / Land Berlin	Programme/Plattformen	KryoMatrix
381	Bund / Land Berlin	Programme/Plattformen	Hybrid-Detektoren für Konfokales&2P-Mikroskop
382	Bund / Land Berlin	Programme/Plattformen	Diagnostic test system for the detection of CRISPR-associated nuclease
383	Bund / Land Berlin	Programme/Plattformen	Vorbereitung autoCard-Studie nach Behördenanforderungen
384	Bund / Land Berlin	Programme/Plattformen	KI-basierte Stimm diagnostik
385	Bund / Land Berlin	Programme/Plattformen	Standardisierte Medikamentenverordnung in den elektronischen Krankenakten auf Intensivstationen
386	Bund / Land Berlin	Programme/Plattformen	EINFÜHRUNG EINER STANDARDISIERTEN KODIERUNG FÜR LABORDATEN
387	Bund / Land Berlin	Programme/Plattformen	Sepsis-Alert
388	Bund / Land Berlin	Programme/Plattformen	Explainable AI-Modell zur Diagnostik von Prostatakarzinomen im MRT
389	Bund / Land Berlin	Programme/Plattformen	Digital Diabetes Clinic (DDC) – Ein Pionierprojekt für Patient-Centered Design und Value Based Healthcare
390	Bund / Land Berlin	Programme/Plattformen	Deep functional proteogenomic systems analysis of non-small-cell lung cancer
391	Bund / Land Berlin	Programme/Plattformen	Strukturierte elektronische Erfassung und Optimierung der Medikation
392	Bund / Land Berlin	Programme/Plattformen	Safe-Data-Projekt SUMATRA
393	Bund / Land Berlin	Programme/Plattformen	HPC4Clinic
394	Bund / Land Berlin	Programme/Plattformen	Stammzellbasierte Generierung von individualisierten in vitro Modellen für hereditäre Nierenerkrankungen
395	Bund / Land Berlin	Programme/Plattformen	Using RNA-profiling to investigate brain-heart interaction
396	Bund / Land Berlin	Programme/Plattformen	Metabolic alterations associated with osteosarcoma progression and metastasis
397	Bund / Land Berlin	Programme/Plattformen	Early Detection of Lung Disease in Children with Cystic Fibrosis (Detect CF)
398	Bund / Land Berlin	Programme/Plattformen	Effect of a probiotic on blood pressure in low-to-moderate risk grade 1 hypertension - a randomized trial (HYPRO)
399	Bund / Land Berlin	Programme/Plattformen	CLP-mediated remyelination in multiple sclerosis
400	Bund / Land Berlin	Programme/Plattformen	International Conference on Health Data Science
401	Bund / Land Berlin	Programme/Plattformen	A user guide for statistical power and sample size calculations
402	Bund / Land Berlin	Programme/Plattformen	Statistische Fehldenkenweisen in der medizinischen Forschung
403	Bund / Land Berlin	Programme/Plattformen	Early childhood risk factors for blood pressure increase and potential mechanisms
404	Bund / Land Berlin	Programme/Plattformen	PROKOG - Genetic screening of MRI probands with high PSA to estimate the necessity of diagnostic prostate biopsy.
405	Bund / Land Berlin	Programme/Plattformen	Digitale Phänotypisierung
406	Bund / Land Berlin	Programme/Plattformen	Übersetzung der Human Phenotype Ontology
407	Bund / Land Berlin	Programme/Plattformen	BELOVE Plasmaproteomics durch Massenspektrometrie
408	Bund / Land Berlin	Programme/Plattformen	LESS
409	Bund / Land Berlin	Programme/Plattformen	Multi-omics single cell profiling of colorectal cancer
410	Bund / Land Berlin	Programme/Plattformen	Strukturelle Effekte von CSP Programmen

Anlage 2 - Anfrage 18_20300

Welche Fachpublikationen zu bzw. aus den von Bund und Land Berlin geförderten Projekten des BIH hat es bisher gegeben? Wo sind diese wann publiziert worden?

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Anlage 2 - Anfrage 18_20300

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Anlage 2 - Anfrage 18_20300

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