

医学科技前沿信息发现与分析

信息咨询部
杜建

2017年11月30日



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“前沿”

前瞻性

先导性

不确定性

萌芽状态

研究热点

研究前沿

论文和专利

够新吗？

■ 论文

- 发表时滞：从投稿到正式刊出常常会超过3年
- 等待：编辑处理，审稿，主编决定，刊出……

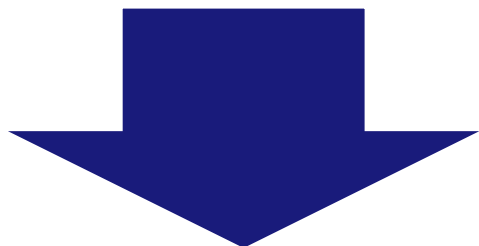
昨天的，今天的，明天的呢？

■ 专利

- 公开时滞：申请日到公开日：18个月
- 授权时滞：专利申请量激增，专利审查积压

科学研究：服务国家

■ 我国科技发展新战略



“在**全面把握世界科技发展态势**的基础上加速赶超引领”

“**紧跟**发达国家”



■ 科技发展态势？

- **创新状态**：回顾
- **创新趋势**：前瞻

发现前沿、分析态势：提纲

- 一、从基金资助信息中发现未来研究动向**
- 二、从智库报告中发现未来研究方向**
- 三、通过数据库特色功能识别研究前沿**
- 四、从文献资料分析角度初步判断领域发展态势**

一、基金资助项目检索

未来3-5年的研究主题 与论文相比更具前沿性

国家	资助机构
美国	国立卫生研究院 (NIH)
	国家科学基金会 (NSF)
加拿大	国家卫生研究院 (CIHR)
英国	医学研究理事会 (MRC)
	生物技术与生物科学研究理事会 (BBSRC)
德国	德国国家科学基金会 (DFG)
法国	国家科研署 (ANR)
日本	科技促进机构 (JSPS)
澳大利亚	国立健康与医学研究理事会 (NHMRC)
以色列	科学基金会 (The Israel Science Foundation)
中国	国家自然科学基金 (NSFC)
	国家重点研发计划重点专项

国家自然科学基金

每页显示数据 10 条

**科学基金共享服务网**

项目检索

批准号:

项目名称: microRNA

项目负责人:

单位名称:

申请代码:

资助类别: 全部

亚类说明: 全部

附注说明: 全部

项目主题词:

批准年度: 2016

请输入验证码 pev3

根据检索条件, 检索到 120条

<http://npd.nsfc.gov.cn/fundingProject>



基于microRNA表达谱研究皮肤慢性伤口的治疗
批准号: 81611130075 项目类别: 国际(地区)合作与交流项目
依托单位: 大连医科大学 项目负责人: 王傲雪
资助经费: 25(万元) 批准年度: 2016年
关键词: 慢性伤口; 治疗; 微小RNA; 皮肤屏障; 伤口愈合



循环microRNA与2型糖尿病关联的前瞻性研究
批准号: 81660566 项目类别: 地区科学基金项目
依托单位: 赣南医学院 项目负责人: 罗晓婷 资助经费: 37(万元)
批准年度: 2016年
关键词: 2型糖尿病; 循环microRNA; 前瞻性研究; 危险因素; 交互作用



新型MicroRNA-21小分子抑制剂的研究
批准号: 81673354 项目类别: 面上项目 依托单位: 西安交通大学
项目负责人: 张三奇 资助经费: 60(万元) 批准年度: 2016年
关键词: 骨架跃迁; microRNA-21 抑制剂; 药物合成; 抗肿瘤药



基于模板识别的microRNA检测平台研究
批准号: 21675030 项目类别: 面上项目 依托单位: 复旦大学
项目负责人: 卢建忠 资助经费: 65(万元) 批准年度: 2016年
关键词: 模板识别; microRNA; 通用报告探针; 错配识别; 生物样品



MiRNA等温扩增检测新技术研究
批准号: 21675094 项目类别: 面上项目 依托单位: 青岛大学
项目负责人: 石超 资助经费: 65(万元) 批准年度: 2016年
关键词: 等温核酸扩增; MicroRNA检测; 纳米生物传感; 分子开关; 均相检测

国家重点研发计划



1. 干细胞与转化医学
2. 数字诊疗装备

1. 生殖健康与出生缺陷
2. 精准医学研究
3. 重大慢病防治研究
4. 生物医用材料研发
5. 生物安全关键技术

1. 食品安全
2. 中医药防治重大疾病



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项目申报



在线服务



成果报告



科研资源



科研资金



公开公示

信息公开

申报指南

计划专项公示

项目过程公示

信用警示信息

年度: 2017

计划: 国家重点研发计划

请输入关键字

查询

申报说明

常见答疑

收藏

2017年 国家重点研发计划 项目过程公示

国家科技管理信息系统公共服务平台

[\[字体放大\]](#) [\[字体还原\]](#) [\[字体缩小\]](#) [\[打印\]](#)

关于国家重点研发计划“精准医学研究”和“生殖健康及重大出生缺陷防控研究”重点专项2017年度项目安排公示的通知

国家重点研发计划“精准医学研究”重点专项拟立项的2017年度项目公示清单

根据《国家科技管理信息系统公共服务平台关于深化中央财部关于改革过渡对“精准医学研（详见附件）。公示时间式提交书面材料单位公章。联系人

序号	项目编号	项目名称	项目牵头承担单位	项目负责人	中央财政经费(万元)	项目实施周期(年)
1	SQ2017YFSF090017	新一代基因组测序技术、临床用测序设备及配套试剂的研发	深圳华大基因研究院	牟峰	1843	3
2	SQ2017YFSF090210	精准特异灵敏实用临床定量蛋白质组支撑技术研究	中国人民解放军军事医学科学院放射与辐射医学研究所	徐平	1499	3
3	SQ2017YFSF090025	临床样本代谢组的超灵敏高覆盖定量分析技术研究	复旦大学	唐惠儒	1600	3
4	SQ2017YFSF090219	应用于临床样本检测的超灵敏、高覆盖代谢组定量分析技术研发	中国科学院大连化学物理研究所	许国旺	800	3
5	SQ2017YFSF090080	华东区域自然人群队列研究	复旦大学	赵根明	1983	4
6	SQ2017YFSF090036	华南区域自然人群慢性病前瞻性队列研究	中山大学	夏敏	1951	4
7	SQ2017YFSF090013	西北地区自然人群队列研究	西安交通大学	颜虹	1734	4
8	SQ2017YFSF090144	西南地区自然人群队列研究	四川大学	李晓松	1557	4
9	SQ2017YFSF090121	东北区域自然人群队列研究	中国医科大学附属盛京医院	赵玉虹	1957	4
10	SQ2017YFSF090117	中国人群多组学参比数据库与分析系统建设	哈尔滨工业大学	王亚东	8985	4
11	SQ2017YFSF090027	中国常见风湿免疫病临床队列及预后研究	中国医学科学院北京协和医院	曾小峰	1285	4
12	SQ2017YFSF090175	神经系统疾病专病队列研究	首都医科大学宣武医院	宣宇威	1417	4
13	SQ2017YFSF090214	中国精神障碍队列研究	北京大学第六医院	黄悦勤	1368	4

美国NIH



Research Portfolio Online Reporting Tools
(RePORT)

Search

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QUICK LINKS

RESEARCH

ORGANIZATIONS

WORKFORCE

FUNDING

REPORTS

LINKS & DATA

[Home](#) > [RePORTER](#) > Query Form

MyRePORTER

[Login](#) | [Register](#) | [RePORTER Manual](#) | System Health: GREEN



NIH RePORTER

Version: 7.23.0

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[RePORTER
Manual](#)

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Added Projects](#)



QUERY

BROWSE NIH

MATCHMAKER

SEARCH PUBLICATIONS BETA

SUBMIT QUERY

CLEAR QUERY

Fiscal Year (FY):
Current FY is 2018

Active Projects

SELECT

RESEARCHER AND ORGANIZATION

Principal Investigator (PI) /
Project Leader:
(Last Name, First Name)

,

Use '%' for wildcard in PI names

[Enter several PI/Project Leader names OR PI Profile IDs](#)

Organization:

LOOKUP

Please enter at least 3 characters to use Lookup.

☒ Contains ☐ Begins with ☐ Exact

Department Type:

SELECT

Organization Type:

SELECT

City:

Use '%' for wildcard

State:

SELECT

Country:

SELECT

Congressional District:

SELECT

DUNS Number:

TEXT SEARCH

Text Search (Logic):

- ☒ [And](#)
☐ [Or](#)
☐ [Advanced](#)

Characters left: 2500

Search in

- ☒ Projects
☐ Publications
☐ News

Limit Project search to

- ☐ Project Title
☐ Project Terms
☐ Project Abstracts

Limit Publication search to

Start Year
End Year

美国NIH

PROJECT DETAILS

Project Number/
Application ID:
Format: 5R01CA012345-04/
8515397

Use '%' for wildcard in project number, e.g. %R21%
[Enter multiple project numbers/application IDs](#)

OR

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
1	R01	CA	811099	01	A1S1

Program Officer (PO): ,
(Last Name, First Name)

Use '%' for wildcard
[Enter several Program Officer \(PO\) names](#)

Project Start Date: >=
Format: mm/dd/yyyy

Project End Date: <=
Format: mm/dd/yyyy

Award Notice Date: >
Format: mm/dd/yyyy

Agency/Institute/Center:
☒ Admin ☐ Funding

NIH Spending Category:

Funding Mechanism:

Award Type:

Activity Code:

Study Section:

Standing CSR study sections only

FOA:
Format: RFA-IC-09-003
or PA-09-003

20 entry maximum; Use % for wildcard
[Funding Opportunities and Notices](#)

ADDITIONAL FILTERS

NIH (non) ARRA Selection:

Award Size: >
Only for NIH, CDC, FDA, and ACF

ClinicalTrials.gov ID:
Format: NCT00000419

5 entry maximum separated by commas.

Newly Added Projects Only: ☐
Projects added since
11/18/2017

Exclude Subprojects: ☐

Multi-PI Only: ☐



QUICK LINKS

RESEARCH

ORGANIZATIONS

WORKFORCE

HOM

FUND

FUNDING

Total Number of Research/Disease Areas: 282

Click [here](#) for instructions on how to use the data table below.

New: Click [here](#) to view or download a summary table in Excel file format of historical annual funding through FY 2012.

SEARCH RESEARCH/ DISEASE AREAS



PR

Research/Disease Areas (Dollars in millions and rounded)	FY 2013 Actual	FY 2014 Actual	FY 2015 Actual	FY 2016 Actual	FY 2017 Estimated (Enacted)
Acquired Cognitive Impairment	±	±	\$798	\$1,132	\$1,180
Acute Respiratory Distress Syndrome	\$95	\$85	\$108	\$103	\$106
Adolescent Sexual Activity	\$70	\$68	\$85	\$91	\$94
Agent Orange & Dioxin	\$10	\$8	\$9	\$9	\$10
Aging	\$2,429	\$2,556	\$2,698	\$3,150	\$3,651
Alcoholism, Alcohol Use and Health 1/	\$437	\$475	\$473	\$486	\$503
Allergic Rhinitis (Hay Fever)	\$9	\$6	\$5	\$7	\$7
ALS	\$39	\$48	\$49	\$52	\$55
Alzheimer's Disease	\$504	\$562	\$589	\$929	\$1,348
Alzheimer's Disease including Alzheimer's Disease Related Dementias (AD/ADRD) 2/	±	±	\$631	\$986	\$1,412
Alzheimer's Disease Related Dementias (ADRD) 2/	±	±	\$120	\$175	\$234

Stem Cell Research

Stem Cell Research - Embryonic -
Human

Stem Cell Research - Embryonic -
Non-Human

Stem Cell Research - Induced
Pluripotent Stem Cell

Stem Cell Research - Induced
Pluripotent Stem Cell - Human

Stem Cell Research - Induced
Pluripotent Stem Cell - Non-Human

Stem Cell Research - Nonembryonic
- Human

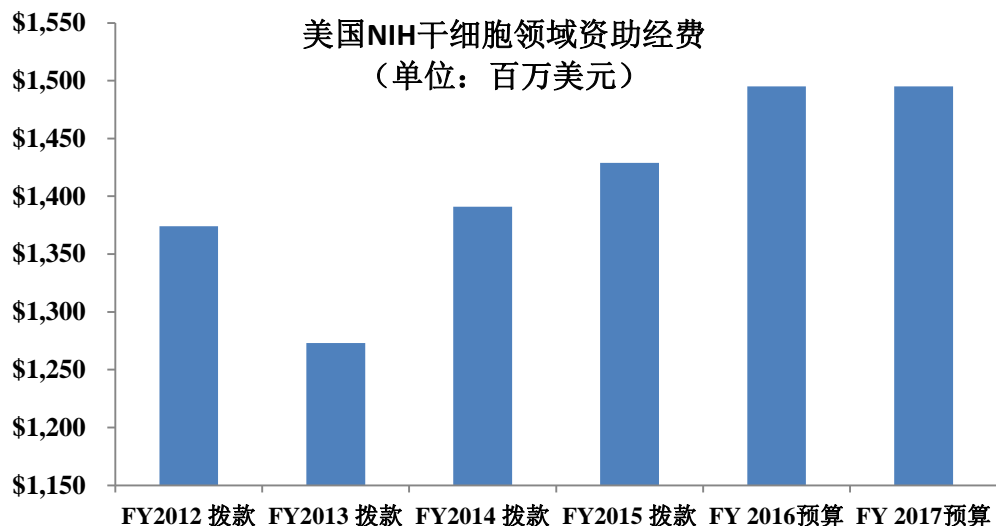
Stem Cell Research - Nonembryonic
- Non-Human

Stem Cell Research - Umbilical Cord
Blood/ Placenta

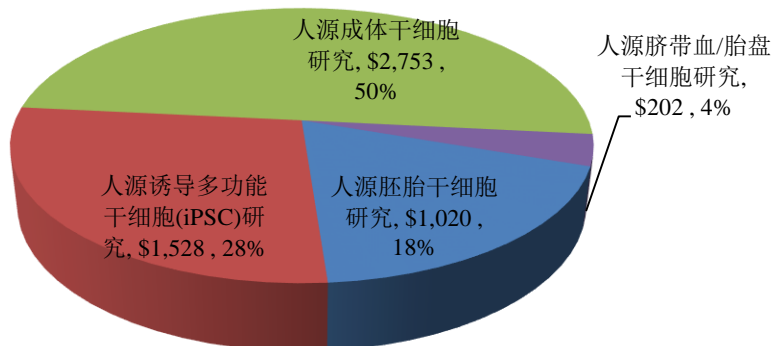
Stem Cell Research - Umbilical Cord
Blood/ Placenta - Human

Stem Cell Research - Umbilical Cord
Blood/ Placenta - Non-Human

测算出年均投入 美国NIH：15亿美元，中国：3.8亿元

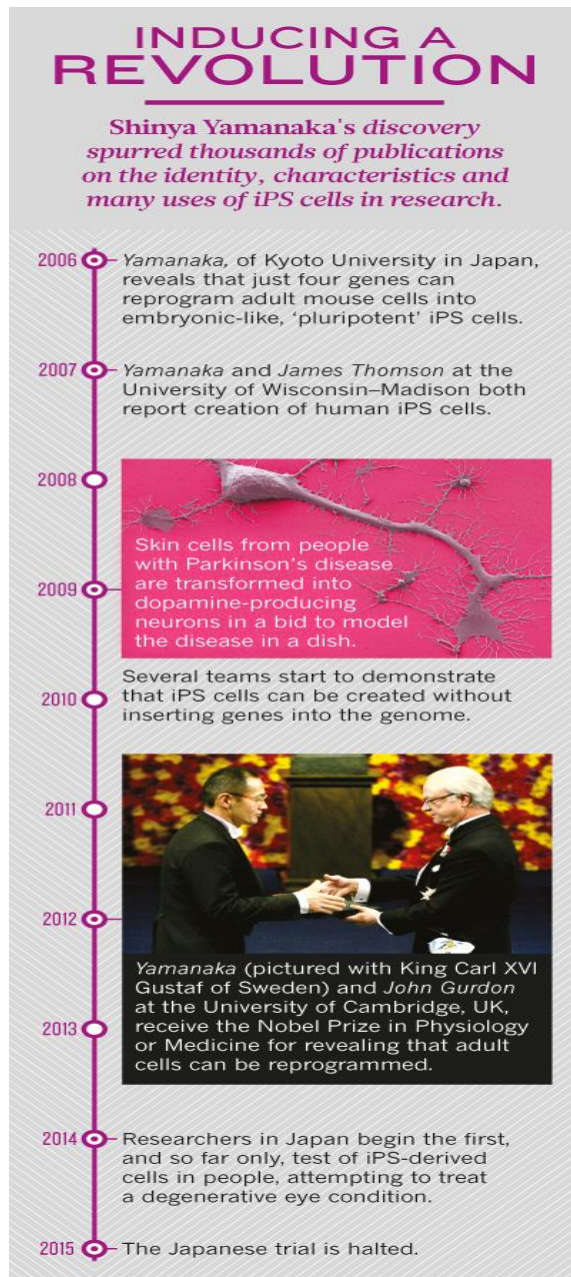


美国NIH资助干细胞转化研究
(单位：百万美元)



How iPS cells changed the world.
Nature, 2016, 534(7607):310-312.

iPSC临床转化still takes a long time





SEARCH

CLEAR

SEND FEEDBACK

SMART SEARCH

Agency ?

Fiscal Year (FY) ?

All x

Researcher & Organization

Principal Investigator (PI) / Project Leader ?

Organization ?

DUNS Number ?

Text Search

Text Search (Logic) ?

- ☐ And
- ☐ Or
- ☒ Advanced

Project Details

Project Number ?

Exclude Subprojects ? ☐

Agriculture (USDA)

Agricultural Research Service (ARS)
Forest Service (FS)
National Institute of Food and Agriculture (NIFA)

Defense (DOD)

Center For Neuroscience and Regenerative Medicine (CNRM)
Combat Casualty Care Research Program (CCCRP)
Congressionally Directed Medical Research Programs (CDMRP)
Defense and Veterans Brain Injury Center (DVBIC)

Department of Education (ED)

Institute of Education Sciences (IES)

Environmental Protection Agency (EPA)

Health and Human Services (HHS)

Administration for Children and Families (ACF)
Agency for Healthcare Research and Quality (AHRQ)
All Centers for Disease Control and Prevention (ALLCDC)
Food and Drug Administration (FDA)

Select All

Close

Use "%" for wildcard, e.g. %R21%
Use a comma "," for multiple entries.

City ?

Use "%" for wildcard

State ?

Country ?

Congressional District ?

Please select a state

“Health Security” OR “Biological Safety”
OR “biosafety” OR “Biological Security” OR
“biosecurity” OR Bioterrorism OR
biodefense

Project Start Date ?

1/1/2016

Project End Date ?

mm/dd/yyyy

何时启动？

SEARCH

CLEAR

Project Search Results (63)

LISTCHARTSTOPICSMAP						Agency	Project Number	Contact PI/ProjectLeader	Organization	FY	FY Total Cost	Similar Projects
Refine By						DEVELOPMENT OF THERAPEUTICS FOR BIODEFENSE AND EMERGING INFECTIOUS DISEASES						
FISCAL YEAR						NIAID	272201600029C-0-0-1	HENKEL, TIMOTHY	VENATORX PHARMACEUTICALS INC	2016	\$7,098,583	
DEPARTMENT						STRUCTURAL AND FUNCTIONAL CHARACTERIZATION OF THE EBOLA VIRUS REPLICATION COMPLEX						
AGENCY						NIAID	1P01AI120943-01A1	AMARASINGHE, GAYA K.	WASHINGTON UNIVERSITY	2016	\$2,876,287	
ORGANIZATION						COBRE:EUKARYOTIC PATHOGENS INNOVATION CENTER (EPIC)						
STATE						NIGMS	1P20G		UNIVERSITY	2016	\$2,126,626	
COUNTRY						IMMUNODOMINANT VIRAL MEMORY CD4 EPITOPES OF BIOSECURITY AND GERIATRIC MEDICINE CONCERN						
FUNDING						NIAID	272201400049C-2-0-1	MHYRE, TIM	UNIVERSITY OF WASHINGTON	2016	\$1,653,063	
						SELECTIVE AAK1 AND GAK INHIBITORS FOR COMBATING DENGUE AND OTHER EMERGING VIRAL INFECTIONS						
						CDMRP	PR151090	EINAV, SHIRIT	STANFORD UNIVERSITY	2015	\$1,590,730	
						IDENTIFICATION AND VALIDATION OF B-CELL EPITOPES ON RICIN TOXIN						
						NIAID	272201400021C-5-0-1	COLOMB, JOLIE	WADSWORTH CENTER	2016	\$1,456,129	
						GLOBAL HEALTH SECURITY PARTNER ENGAGEMENT: EXPANDING EFFORTS AND STRATEGIES TO PROTECT AND IMPROVE PUBLIC HEALTH GLOBALLY						
						CGH	1U2GGH001800-01	SCHNEIDER, BRAD S	GLOBAL VIRAL FORECASTING INC	2016	\$1,170,000	
						PHENOMICS FOR GENETIC AND GENOME-ENABLED IMPROVEMENT OF RESILIENCE IN PIGS						
						NIFA	2017-67007-26144	DEKKERS, JACK C et al.	IOWA STATE UNIVERSITY	2016	\$980,000	
						SCHOLARSHIPS TARGETING RECRUITMENT OF INDIVIDUALS FOR DEGREES IN ENVIRONMENTAL SCIENCE (STRIDES)						
						NSF	1564652	SERRANO, DAVID et al.	BROWARD COLLEGE	2016	\$941,265	

埃博拉病毒结构与功能研究

AGENCY

☐ HHS/NIH (36)

☐ USDA/NIFA (11)

☐ HHS/ALLCDC (9)

☐ NSF (4)

☐ DOD/CDMRP (2)

☐ VA (1)

COUNTRY

☐ UNITED STATES (61)

☐ JORDAN (1)

☐ SENEGAL (1)

美国国家科学基金会



National Science Foundation
WHERE DISCOVERIES BEGIN



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Advanced Search

Popular Searches

Download Awards

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Award Search Help

Awards Advanced Search

[Overview of Award Search Features](#)

Awardee Information	
<input type="text" value="Principal Investigator First Name"/>	<input type="text" value="Organization"/>
<input type="text" value="Principal Investigator Last Name"/>	<input type="text" value="State"/> Select one
<input type="checkbox"/> Include Co-Principal Investigator in name search	<input type="text" value="Zip Code"/>
	<input type="text" value="Country"/> Select one

Program Information	
<input type="text" value="NSF Organization"/> Select one	HINT: The "Program" box searches both program element and program reference names and codes.
<input type="text" value="Element Code"/> Any All	<input type="text" value="Program"/>
<input type="text" value="Reference Code"/> Any All	<input type="text" value="Program Officer"/>

Additional Information	
<input type="text" value="Keyword"/> "Health Security" OR "Biological Safel	HINT: Data prior to 1976 may be less complete.
<input checked="" type="checkbox"/> Active Awards	<input type="checkbox"/> Expired Awards

英国国家研究理事会（RCUK）

■ <http://gtr.rcuk.ac.uk/>

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Gateway to Research

Innovate UK

Welcome to the RCUK gateway to publicly funded research

Search for and analyse information on the latest innovative research in the UK

Please enter a search term...

Search

All Data

Help

"Health Security" OR "Biological Safety" OR "biosafety" OR "Biological Sec

Projects (20177)

Publications (33394)

People (24781)

Organisations (10000)

Start Date End Date Funded Value

|< < 1 2 3 4 5 >

Relevance ▼

£120,073

九月 12 - 十一月 13

Engineered security system biology

BBSRC award to Imperial College London and T

£29,674

十一月 13 - 七月 16

Global Health Security

ESRC award to University of Sussex and Stefan

£389,925

九月 09 - 九月 13

Biosecurity Borderlands: mapping the landscape

ESRC award to University of Exeter and Steve Jo

£775,542

九月 16 - 八月 21

ESSfES: Everyday Safety-Security

EPSRC award to Royal Holloway, University of L

£50,404

五月 17 - 一月 18

Astrophysics meets conservation

STFC award to Liverpool John Moores University

Funder

- ☐ AHRC (529)
- ☐ BBSRC (5502)
- ☐ EPSRC (4405)
- ☐ ESRC (1344)
- ☐ INNOVATE UK (2598)
- ☐ MRC (3368)
- ☐ NC3RS (83)
- ☐ NERC (2144)
- ☐ STFC (204)

Start Year

- ☐ 2019 (1)
- ☐ 2018 (14)
- ☐ 2017 (1402)
- ☐ 2016 (2302)
- ☐ 2015 (2382)
- ☐ 2014 (2078)
- ☐ 2013 (2030)
- ☐ 2012 (1682)
- ☐ 2011 (1268)
- ☐ 2010 (1396)
- ☐ 2009 (1313)
- ☐ 2008 (1377)
- ☐ 2007 (1365)
- ☐ 2006 (1162)
- ☐ 2005 (129)
- ☐ 2004 (66)
- ☐ 2003 (22)

Innovate UK

Search

All Data

Ad

Classifications (3719)

25 50 100

Apply Filter

Clear All

Help

Refine by :

etic

Project Status

- ☐ Active (6780)
- ☐ Closed (13397)

Funded Amount

- ☐ Up to £100K (5972)
- ☐ £100K to £1M (12059)
- ☐ £1M to £10M (2082)
- ☐ Above £10M (64)

complex

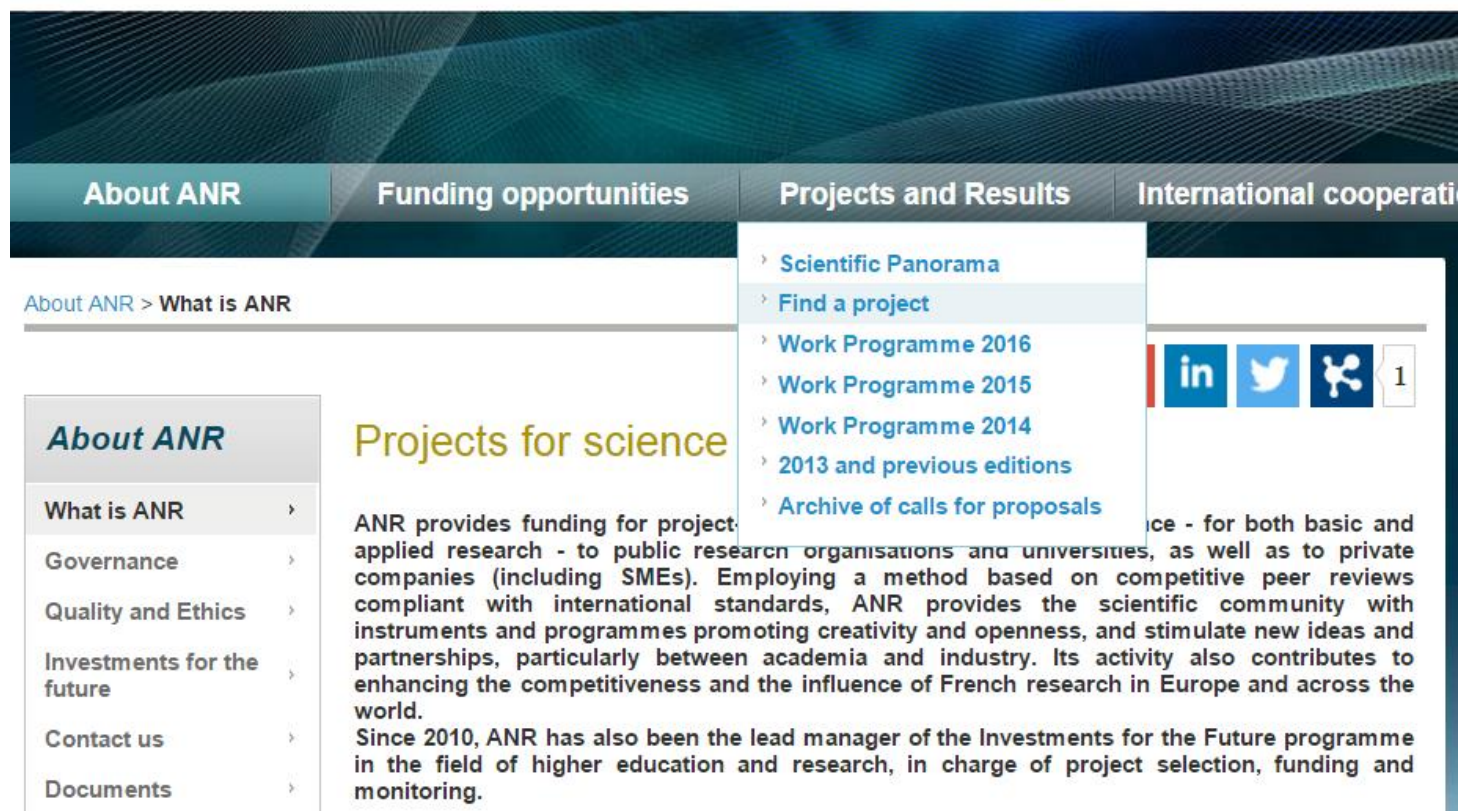
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Region

- ☐ East Midlands (997)
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- ☐ London (3288)
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- ☐ North West (1463)
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法国国家科研署 (ANR)

■ French National Research Agency



<http://www.agence-nationale-recherche.fr/en/about-anr/about-the-french-national-research-agency/>

Projects and Results

Scientific Panorama >

Find a project >

Work Programme 2016

Work Programme 2015

Work Programme 2014

2013 and previous editions >

Archive of calls for proposals >

OR OR OR

Found 21 results in 31 milliseconds. Searched for ""biosafety" OR "biosecurity" OR Bioterrorism OR biodefense".

- > 1) **SENSAIV : Development of a smart BioSENsor for the rapid diagnosis of Avian Influenza Viruses**

Montage de Réseaux Scientifiques Européens ou Internationaux 2015
12.10.2015 (↔ 30.08.2017)

strain identification will be highly useful for disease surveillance as well as for optimizing biosecurity measures on farms. Current methods for detection of AIV include conventional virus culture [...] molecular identifications. Those methods are time consuming, require expensive equipment, high biosafety facilities and take relatively long. In this project proposal, a multidisciplinary and multicultural
- > 2) **UVfactor : Ultra-compact and portable fibre gas laser for bio-defense applications**

Accompagnement Spécifique de Travaux de Recherches et d'Innovation Défense 2011
01.11.2011 (↔ 30.08.2017)

pressing need for compact UV laser sources. These fields relate to the atmospheric pollutant and bio-defense by LIDAR and Raman spectroscopy, the photobiology and the microelectronics industry. Hitherto, [...] REGIONALE ILE-DE-FRANCE SECTEUR SUD, UNIVERSITE DE LIMOGES Fibre optique; laser UV; microplasma; biodefense
- > 3) **TULASEQ : Next generation deep sequencing (NGS) for the development of new genotypic markers in Francisella tularensis: implications for epidemiological surveillance of tularemia in France and in the field of bio-defense.**

Accompagnement spécifique des travaux de recherches et d'innovation défense 2015
01.10.2015 (↔ 30.08.2017)

TULASEQ Francisella tularensis is the causative agent of tularemia, a zoonotic disease of mandatory notification in France both in human health since 2002 within the reactivation of the Biotox plan, a



> Relevance

> Title

> Type

> Date

> Thème

Content Types

> Funded projects (21)

Years

> 2010 (2)

> 2011 (4)

> 2012 (4)

> 2013 (3)

> 2014 (2)

> 2015 (3)

> 2016 (3)



国際生物学賞 International Prize for Biology



The 33rd (2017) International Prize for Biology

The 33rd (2017) International Prize for Biology is awarded Rossi Colwell, Distinguished University Professor at the University of Maryland.

Support
for Research Initiatives

International Collaborations

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Universities

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Grants-in-Aid for Scientific Research <KAKENHI>



KAKENHI

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KAKENHI Database

Contains project-selection

What's New



- 08/24/2017 Research Proposal Document for FY2018 Grants-in-Aid for Scientific Research -KAKENHI-
- 08/10/2017 The recipient of the 33rd (2017) International Prize for Biology was announced.
- 07/07/2017 JSPS Quarterly No.60 was updated
- 06/01/2017 10th HOPE Meeting Outline and Organizing Committee were posted.
- 04/20/2017 Science Dialogue Program was updated to include lectures given in March 2017

[More](#)

Current Calls for Applications



- 08/09/2017 FY2017 Panel Review (Hearing) Guidelines is now available.
- 07/03/2017 Core-to-Core Program FY2018, Call for Proposals was posted.
- 06/01/2017 Domestic Call for Applications for the 10th HOPE Meeting was posted.
- 05/22/2017 FY2017 Call for Proposals for new centers posted.
- 04/18/2017 Application guidelines for Postdoctoral Fellowships for Research in

Database of Grants-in-Aid for Scientific Research(KAKEN) is a public database which includes information on adopted projects, assessment, and research achievements from the Grants-in-Aid for Scientific Research(KAKENHI) Program. This system is hosted by the National Institute of Informatics (NII) in cooperation with MEXT and JSPS.

☐ Full-Text Search

Research Project Title Project/Area Number

Project Type ☐ Research Project ☐ Innovative Areas ☐ Organizer ☐ Wrapup ☐ Planned ☐ Publicly ☐ International

Research Category

Allocation Type ☐ Single-year Grant ☐ Multi-year Fund ☐ Partial Multi-year Fund

Research Field

Research Institution

Project Period (FY) ~ FY of Project

Total Cost (Overall)

Project Status ☐ Adopted ☐ Granted ☐ Ceased ☐ Suspended ☐ Completed ☐ Declined ☐ Discontinued

Keywords

Research Abstract

Researcher

Name

Affiliation

Researcher Number

Role ☐ Principal Investigator ☐ Area Organizer ☐ Co-Investigator (Kenkyō-buntansha) ☐ Co-Investigator (Kenkei-kenkyōsha) ☐ Research Collaborator
☐ Research Fellow ☐ Host Researcher ☐ Foreign Research Fellow ☐ Principal Investigator(Support) ☐ Co-Investigator (Kenkyō-buntansha) (Support)

Refine your search

Research Category

- ☐

Grant-in-Aid for Scientific Research (B)

3
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Grant-in-Aid for Scientific Research (B)

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2
- ☐

Grant-in-Aid for General Scientific Research (B)

1
- ☐

Grant-in-Aid for Scientific Research (A)

1
- ☐

Grant-in-Aid for Scientific Research (C)

1
- ☐

Grant-in-Aid for Scientific Research (C)

1
- ☐

Grant-in-Aid for Young Scientists (B)

1
- ☐

Grant-in-Aid for Scientific Research (A)

1

Allocation Type

- ☐

Single-year Grant

14

Search Results: 14results / Research Project Title: "Health Security" OR "Biological Safety" OR "biosafety" OR "Biological Security" OR "biosecurity" OR Bioterrorism OR biodefense

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Project Start Year(Newest)

- ☐

1.  Immunological and genomic studies on interaction between kuruma shrimp Immune and biodefense and microbial pathogens

Research Project
- Research Category

Grant-in-Aid for Scientific Research (A)
- Research Field

General fisheries
- Research Institution

Tokyo University of Marine Science and Technology
- Principal Investigator

Hirono Ikuo 東京海洋大学, その他局等, 教授
- Project Period (FY)

2011-04-01 - 2015-03-31

Completed
- Keywords

クルマエビ / WSSV / RNA干渉 / マイクロアレイ / 抗原タンパク質 / ホワイトスポット病ウイルス / ホワイトスポット病 / 生体防御 / ノックダウン / ウイルス遺伝子ホモログ
- Outline of Final Research Achievements

We found that c-type lysozyme and penaeidin like peptide are necessary for normal living of shrimp. In contrast, shrimp can survive without i-type lys ...
- ☐

2.  Nuclear, Biological and Chemical Security and International Law: Regulatory Mechanisms for Peaceful Use of Dual-Use Substance

Research Project
- Research Category

Grant-in-Aid for Young Scientists (B)
- Research Field

International law
- Research Institution

Aoyama Gakuin University
- Principal Investigator

ABE Tatsuya 青山学院大学, 国際政治経済学部, 准教授
- Project Period (FY)

2010-04-01 - 2014-03-31

Completed
- Keywords

国際法 / 軍備管理 / 汎用物質 / 不拡散 / 化学兵器 / 化学セキュリティ / 化学兵器禁止機関 / セキュリティ / 平和利用 / 核セキュリティ / 生物セキュリティ
- Research Abstract

Dual-use nature of chemical substance requires a balance between ensuring its peaceful use and preventing its misuse. The balance may vary depending o ...

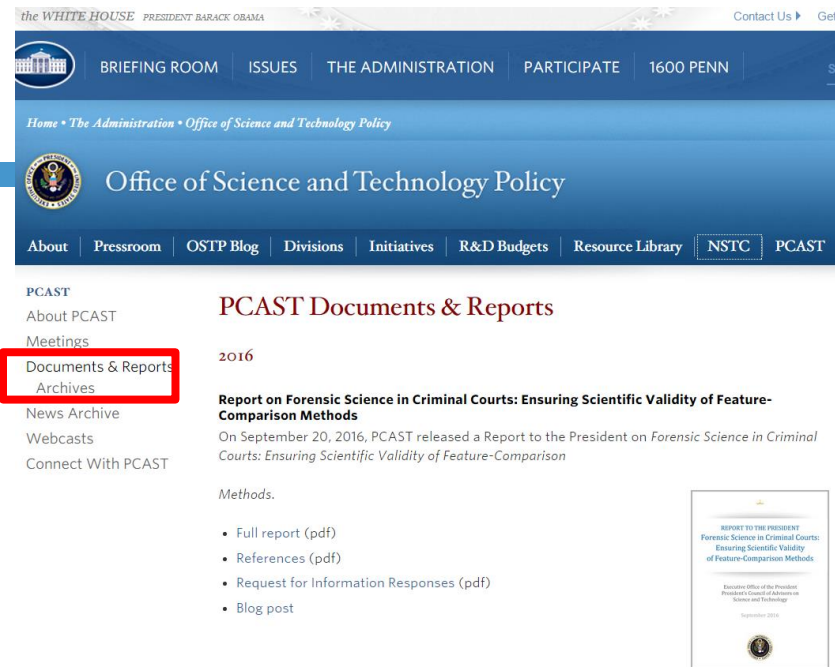
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- 美国总统的科技智囊团
- 定期就重大科技创新问题发布研究报告

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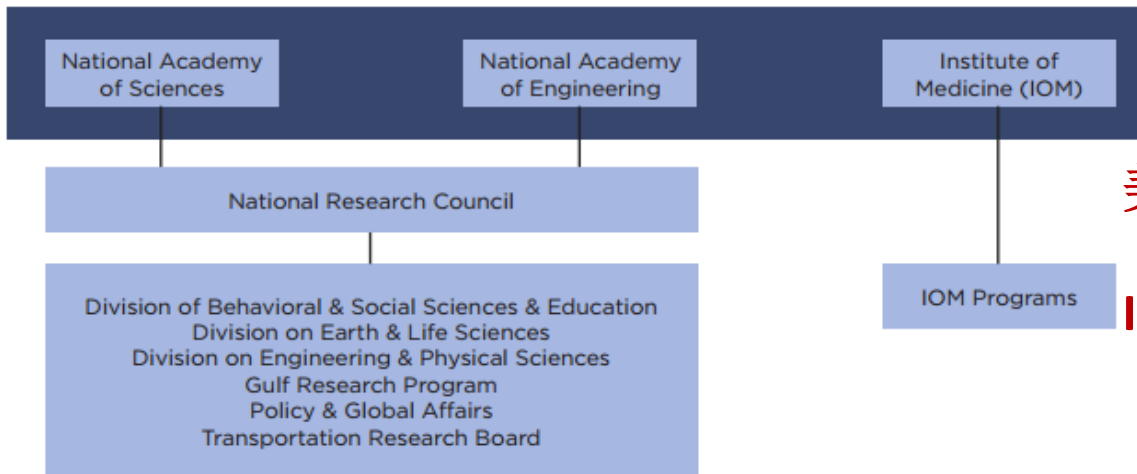


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Report on Independence, Technology, and Connection in Older Age



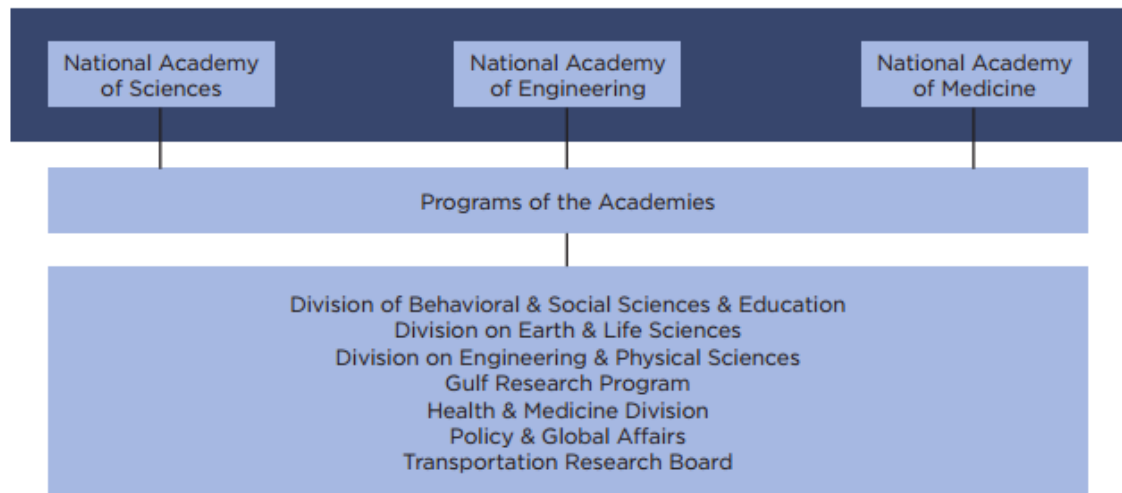
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Former Structure (pre-July 1, 2015)



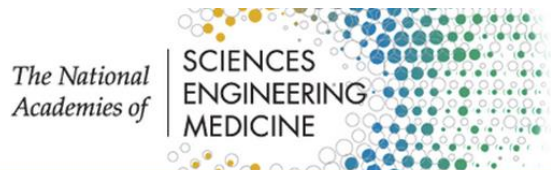
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(Institute of Medicine,
IOM)

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研究所（IOM）更名、
升格为国家医学科学
院（National Academy
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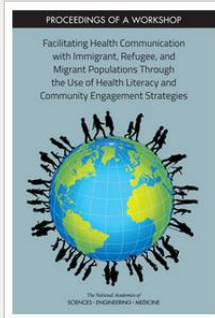
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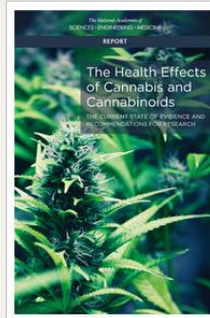
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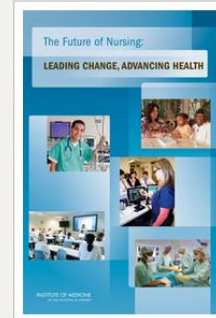
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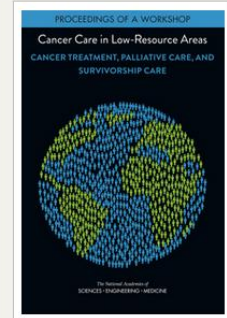
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- Principles for Promoting Access to Fed through International Scientific Cooper
- Toward Epidemic Prediction: Federal El
- Animal Telemetry Network Implement

<https://obamawhitehouse.archives.gov/administration/eop/ostp/nstc/docsreports>

精准医学两个重要的智库报告

美国国家研究委员会（NRC）：
《迈向精准医学》（2011）

美国总统科技顾问委员会（PCAST）：
《个体化医学的优先领域》（2008）

Toward Precision Medicine:
Building a Knowledge Network for Biomedical
Research and a New Taxonomy of Disease



Committee on A Framework for Developing a New Taxonomy of Disease

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Priorities for Personalized Medicine

Report of the
President's Council of Advisors on Science and Technology
September 2008

精准医学概念源于个体化医学

美国国家研究委员会（National Research Council），
《迈向精准医学》，2011

Toward Precision Medicine: Building a Knowledge Network for Biomedical Research and a New Taxonomy of Disease

Personalized Medicine (also see: Precision Medicine): “Personalized medicine” refers to the tailoring of medical treatment to the individual characteristics of each patient. It does not literally mean the creation of drugs or medical devices that are unique to a patient, but rather the ability to classify individuals into subpopulations that differ in their susceptibility to a particular disease or their response to a specific treatment. Preventive or therapeutic interventions can then be concentrated on those who will benefit, sparing expense and side effects for those who will not.” (PCAST 2008) This term is now widely used, including in advertisements for commercial products, and it is sometimes misinterpreted as implying that unique treatments can be designed for each individual. For this reason, the Committee thinks that the term “Precision Medicine” is preferable to “Personalized Medicine” to convey the meaning intended in this report.

“个体化医学”这一概念被商业炒作，故而更名“精准医学”



《个性化医学的优先领域》



Priorities for Personalized Medicine

总统科技顾问委员会, 2008

Report of the
President's Council of Advisors on Science and Technology
September 2008

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PCAST(2008)

■ 个体化医学的优先领域

- 分子诊断
- 基因组测序
- 靶向药物研发与伴随诊断
- 药物基因组学个体化用药

■ 要将基因技术取得的进展转变成实际的临床医疗，需要将基因变异与患病风险以及药物治疗结果（治疗无效、良好疗效或不良反应）联系起来，三个关键领域：

- 全基因组关联研究
- 分子诊断学的发展
- 生物样本库

Individualized Medicine

Clinical, therapeutic and diagnostic approaches to optimal disease management based on individual variations in a patient's genetic and environmental profile.

Year introduced: 2010

2010年，“Individualized Medicine” 被收录到美国国立医学图书馆的医学主题词表（**MeSH**），其含义是指基于患者遗传与环境特征的个体差异，实现最佳的疾病诊断与治疗。

2016年，更名为“Precision Medicine”，仅强调 genetic profile！

Precision Medicine

Clinical, therapeutic and diagnostic approaches to optimal disease management based on individual variations in a patient's genetic profile.

Year introduced: 2010

Entry Terms:


- Medicine, Precision
- Medicines, Precision
- **Individualized Medicine**
- Medicine, Individualized
- Personalized Medicine
- Medicine, Personalized
- **Precision-Medicine**

“Precision Medicine” “一统江湖”

现在来看，其表达的内涵是基本一致的。精准医学的概念并不是新的，而是与之前个体化医学一脉相承。

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Slack

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Power from the Air

2016

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2012

2011

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2008

2007

2006

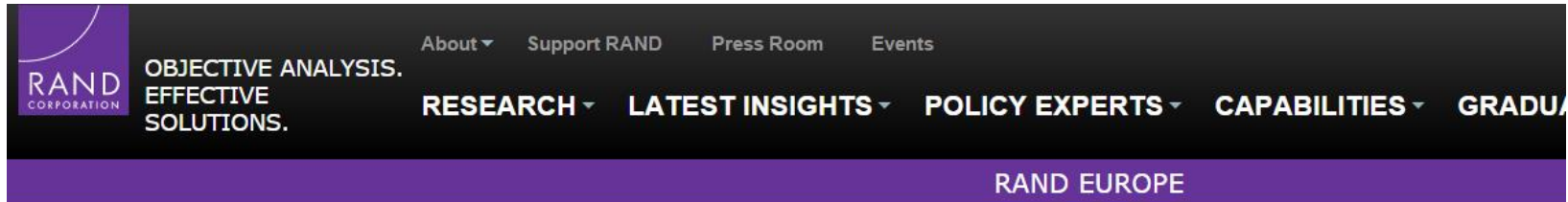
2005

Breakthrough Technologies

Today's emerging technologies have the chance at solving a big problem and opening up new opportunities? Here on this list all had an impressive year or are on the verge of one. These are the technologies you need to know about right now.

<https://www.technologyreview.com/lists/technologies/2016/>

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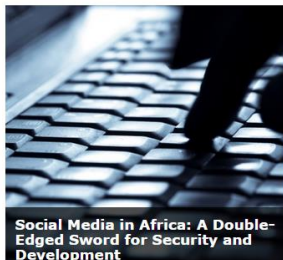
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European societies expect science, technology and innovation to promote economic growth and improve wellbeing. Research alone is insufficient. Its translation into discoveries of new processes, services and products is vital. And evaluation of the impact of scientific and social sciences research can lead to better funding decisions.

The factors that lead to innovation are complex and evolve. We use evidence to untangle complexity, recognize uncertainty. Our research helps policy makers make better decisions. Our research helps policy makers make better decisions.



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Exploring Health Futures

Through a survey of experts from across the health and science fields, researchers captured diverse perspectives on what health challenges in England will be like in 20–30 years' time, to inform future strategy and policy with a rational view of the future.

Some key findings include the fact that ageing populations will live longer but not in better health, health inequalities are rising, and there is an increasing influence of technology on health.



EUROPE

Background

The rapid advancement of health challenges that will shape the landscape of health in the future. Those today. With this research, we look into what the future of health and healthcare in England will be like in 20–30 years' time.

Future of Health

Findings from a survey of stakeholders on the future of health and healthcare in England



Jennie Corbett, Camilla d'Angelo, Lorenzo Gangitano, Jon Freeman

<https://www.rand.org/randeurope/research/projects/exploring-healthfutures.html>

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JOURNAL ARTICLE

Cleaning Up Medical Research

Book review of "Rigor Mortis: How Sloppy Science Creates Worthless Cures, Crushes Hope, and Wastes Billions" by Richard Harris.

Nov 10, 2017



Report

REPORT

The Small Business Research Initiative (SBRI) Healthcare programme: An evaluation of programme activities, outcomes and impacts

This study explores the contribution of the Small Business Research Initiative (SBRI) Healthcare programme to innovation in the NHS (National Health Service). It was commissioned by the UK Department of Health Policy Research Programme.

Oct 30, 2017



Journal Article

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Assessing and Communicating the Value of Biomedical Research: Results From a Pilot Study

The pilot demonstrated not only the usefulness of examining the impact of research from the perspectives of a range of stakeholders but also, notably, the extent and variety of the benefits that accrue from research.

Oct 27, 2017

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Researcher Spotlight

Camilla d'Angelo

Analyst



Camilla d'Angelo is an analyst at RAND Europe working on innovation, health and science policy. She holds a Ph.D. in experimental psychology

from the University of Cambridge and a B.Sc. in pharmacology from University College London.

Carla Cox

Analyst



Carla Cox is an analyst at RAND Europe working in the area of innovation, health and science with a particular focus on health. She completed her

doctoral studies in biochemistry and holds a bachelors degree with industrial placement from the University of Bath.

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The Nobel Prize in Physiology or Medicine 2015

William C. Campbell, Satoshi Ōmura, Youyou Tu

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The Nobel Prize in Physiology or Medicine 2015

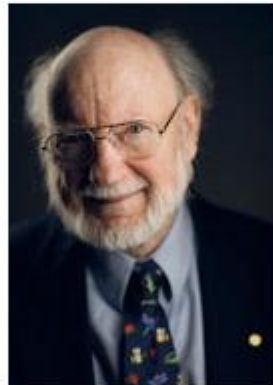


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Youyou Tu
Prize share: 1/2

The Nobel Prize in Physiology or Medicine 2015 was divided, one half jointly to William C. Campbell and Satoshi Ōmura *"for their discoveries concerning a novel therapy against infections caused by roundworm parasites"* and the other half to Youyou Tu *"for her discoveries concerning a novel therapy against Malaria"*.

▼ About the Nobel Prize in
Physiology or Medicine 2015

[Summary](#)

[Prize Announcement](#)

[Press Release](#)

[Advanced Information](#)

[Greetings](#)

[Award Ceremony Video](#)

[Award Ceremony Speech](#)

► [William C. Campbell](#)

► [Satoshi Ōmura](#)

► [Youyou Tu](#)

[All Nobel Prizes in Physiology or
Medicine](#)

[All Nobel Prizes in 2015](#)

[English](#)

[English \(pdf\)](#)

[Swedish](#)

[Swedish
\(pdf\)](#)



Nobelförsamlingen

The Nobel Assembly at Karolinska Institutet

Press Release

2015-10-05

The Nobel Assembly at Karolinska Institutet has today decided to award
the 2015 Nobel Prize in Physiology or Medicine

Key publications:

Burg et al., *Antimicrobial Agents and Chemotherapy* (1979) 15:361-367.

Egerton et al., *Antimicrobial Agents and Chemotherapy* (1979) 15:372-378.

Tu et al., *Yao Xue Xue Bao* (1981) 16, 366-370 (Chinese)

这篇中文论文在世界上的影响如何？

能查到在SCI中的被引情况吗？

Web of Science

检索

选择类

被引参考文献索引

参考文献：第 1 - 2 条，共 2

基本检索

查找引用

第 1 步：

* 注意：输

Tu Y*

Yao X

查看缩写

1981



选择页面

全选*

全部清除

完成检索

选择	被引作者	被引著作 [显示完整标题]	出版年	卷	期	页	标识符	施引 文献 **	查看 记录
<input checked="" type="checkbox"/>	Tu, Y Y + [显示所有作者]	Yao Xue Xue Bao	1981	16	5	366		19	
<input checked="" type="checkbox"/>	Tu, Y Y + [显示所有作者]	YAO XUE XUE BAO	1981	116		366		2	
选择	被引作者	被引著作	出版年	卷	期	页	标识符	施引 文献 **	查看 记录



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检索

我的工具 ▾

检索历史

标记结果列表

检索结果: 18

(来自 Web of Science 核心合集)

您的检索: 被引作者: (Tu Y*) AND 被引著作: (Yao Xue Xue Bao) AND 被引年份: (1981) ...更多内容


 创建跟踪服务

精炼检索结果

在如下结果集内检索...



过滤结果依据:

☐ Highly Cited in Field (1) 

精炼

排序方式: 出版日期 (降序)

◀ 第 1 页, 共 2 页

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出版日期 (降序)

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被引频次 (升序)

使用次数 -- 最近 180 天

使用次数 -- 2013 年至今

☐ 2.

第一作者 (升序)

作者: Villaume, Sydney A.; Fu, Jian; N'Go, Ines; 等

CHEMISTRY-A EUROPEAN JOURNAL 卷: 23 期: 43 页: 10423-10429 出版年: AUG 1 2017

出版商处的全文

查看摘要

☐ 3.

Strategies to enhance biologically active-secondary metabolites in cell cultures of Artemisia - current trends

Artemisia annua and artemisinin for cancer therapy

卷: 46 页: 65-83 出版年: OCT 2017

 创建引文报告 分析检索结果

被引频次: 1

(来自 Web of Science 的核心合集)

使用次数 ▾

被引频次: 2

(来自 Web of Science 的核心合集)

使用次数 ▾

被引频次: 0

(来自 Web of Science 的核心合集)

1. QINGHAOSU (ARTEMISININ) - AN ANTIMALARIAL DRUG FROM CHINA

作者: KLAYMAN, DL

SCIENCE 卷: 228 期: 4703 页: 1049-1055 出版年: 1985

出版商处的全文

被引频次: 1,558

(来自 Web of Science 的核心合集)

使用次数 ▾

2. The discovery of artemisinin (qinghaosu) and gifts from Chinese medicine

作者: Tu, Youyou

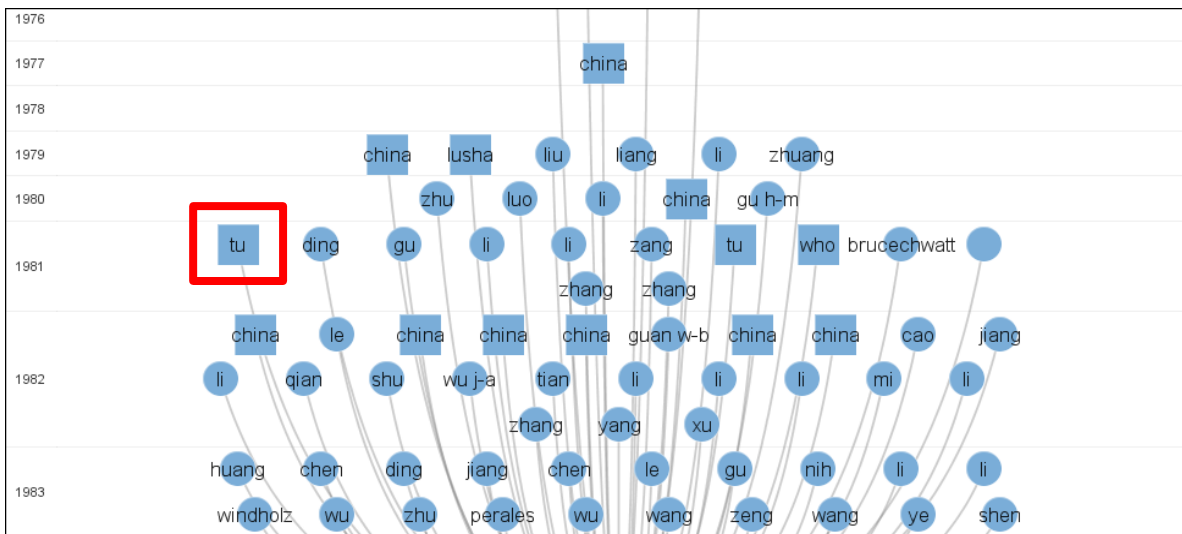
NATURE MEDICINE 卷: 17 期: 10 页: 1217-1220 出版年: OCT 2011

出版商处的全文

被引频次: 241

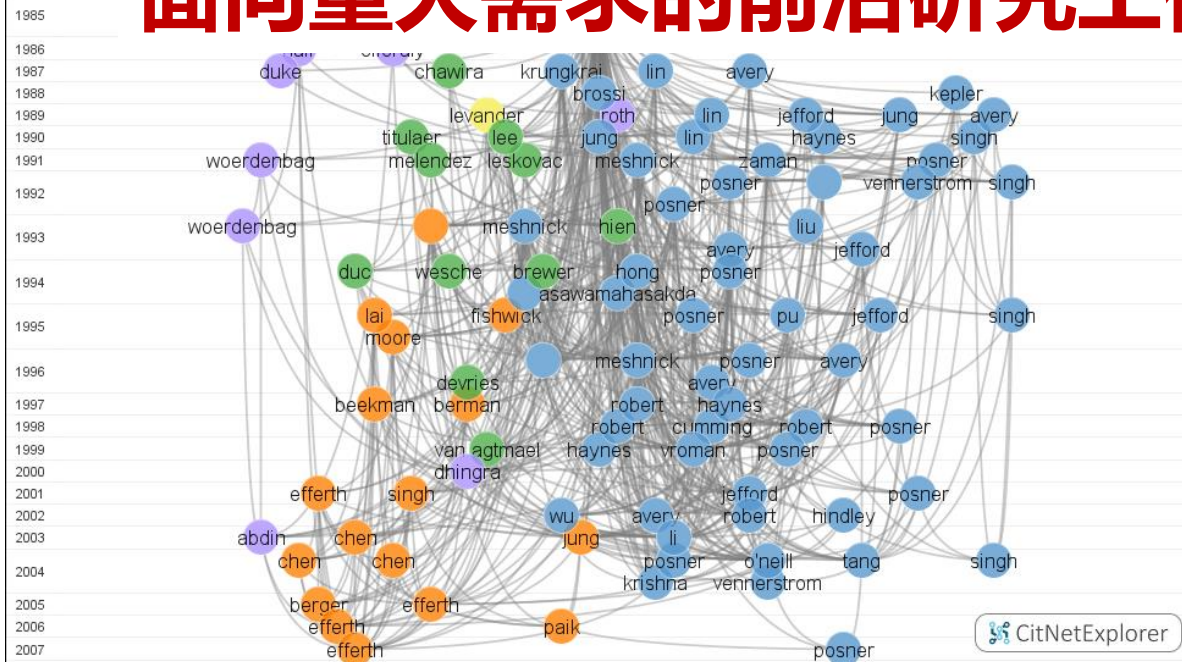
(来自 Web of Science 的核心合集)

使用次数 ▾



92 cited references,
涉及43种期刊、著作或
会议;
含中国学者以中文发表
的所有著作（方框）

**青蒿素的研究从一开始就是
面向重大需求的前沿研究工作！**



ian, 1985 (*Science*)

截至2017年11月20日，
被引用1558次：
70+ Subject Categories,
73
countries/territories,
500+ Journals

三、数据库特色功能发现研究前沿

■ Faculty of 1000

■ Essential Science Indicators



F1000(Faculty of 1000) **全院开通** Guide

Science Citation Index Expanded(Web of Science) **图书馆、东单校园开通** Guide

Faculty of 1000

The screenshot displays the F1000Prime website interface. At the top, a navigation bar includes links for F1000Prime, F1000Research, and F1000Workspace, along with a welcome message for a guest user from Peking Union Medical College. Below this, a red header features the F1000Prime logo, a search bar with a dropdown menu set to 'Article Recommendations', and a search button labeled 'Advanced'. A secondary navigation bar lists various site sections like 'ARTICLE RECOMMENDATIONS', 'RANKINGS', and 'F1000PRIME REPORTS'. On the left, a sidebar promotes the site as 'the most literature' with a 'TRY IT NOW' button. The main content area shows a search bar with the 'Advanced' button circled in red, and a dropdown menu listing options: F1000Prime, Article Recommendations, F1000Prime Reports, F1000 Faculty, and PubMed. To the right, there are links for 'MyF1000', 'SIGN IN', and 'REGISTER', and a 'Sign in' button for already registered users.

F1000Prime F1000Research F1000Workspace Welcome Guest | Peking Union Medical College

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¹ Data from PubMed, 2017.

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Faculty/ies clear Article type clear

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Biochemistry
Bioinformatics, Biomedical Informatics & Computational Biology

Changes Clinical Practice
Clinical Trial: Non-RCT
Clinical Trial: RCT
Confirmation
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Total score (stars)
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☐ With Dissents
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临床实践的工作**

Article type clear

Good for Teaching
Interesting Hypothesis
Negative / Null Results
New Finding
Novel Drug Target
Refutation

ALL SEARCH RESULTS

All F1000Prime	22,791
Article Recommendations	1,463
F1000Prime Reports	725
Faculty	20,603

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to

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All time

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Per page: 20 | 50 | 100 | 1 - 20 of 1,463

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Total Score Highly accessed Changes Clinical Practice

3 Lithium plus valproate combination therapy versus monotherapy for relapse prevention in bipolar I disorder (BALANCE): a randomised open-label trial.

BALANCE investigators and collaborators, Geddes JR, Goodwin GM, Rendell J ... Ostacher MJ, Morriss R, Alder N, Juszczak E. Lancet. 2010 Jan 30; 375(9712):385-95

Based on this large trial, lithium alone or a lithium-valproate combination should be used as first-line maintenance treatment for bipolar affective disorder type I instead of valproate monotherapy.

2 Recommendations | Janusz Rybakowski NEW 17 Nov 2017 | Rudolf Uher with Nader Perroud

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Relevance

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Article date (newest first)

Total Score

Sort by: Article date (newest first) Recommended in the past: All Time

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Total Score



Highly accessed



Changes Clinical Practice



Abiraterone for Prostate Cancer Not Previously Treated with Hormone Therapy.

James ND, de Bono JS, Spears MR, Clarke NW ... Zarkar A, Parmar MKB, Sydes MR, STAMPEDE Investigators. N Engl J Med. 2017 07 27; 377(4):338-351



ADT plus Abiraterone and Prednisolone should be given to men with locally advanced or

RECOMMENDATIONS 1 | ABSTRACT | COMMENTS

collapse all ▲

★★★ Exceptional

22 Jun 2017



FM Christian Bach

F1000 Urology

Freeman Hospital, Newcastle upon Tyne, UK.

ADT应该和另外两种药联合应用，而不是单用ADT

NEW FINDING

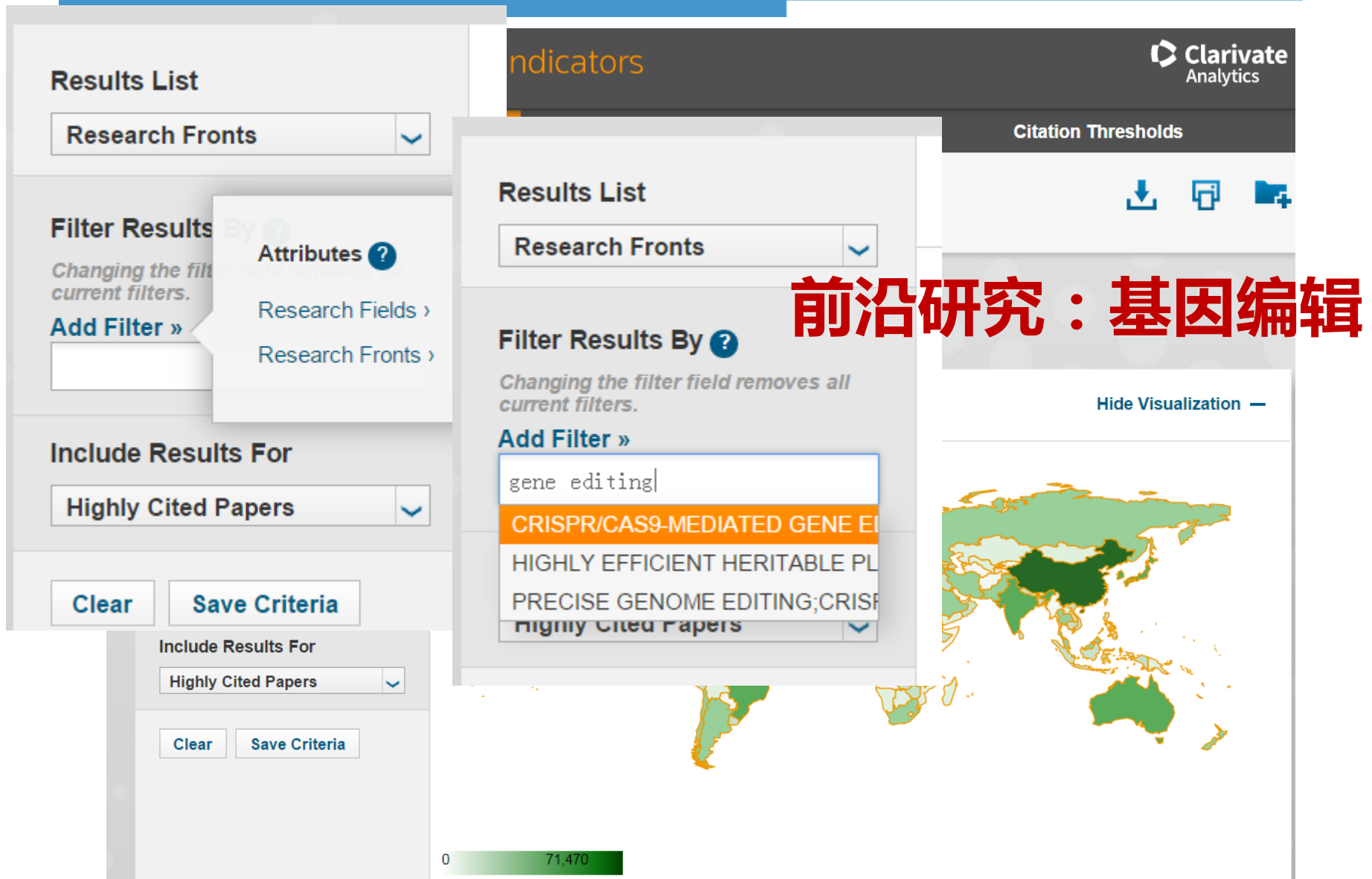
DOI: 10.3410/f.727682848.793533364



CHANGES CLINICAL PRACTICE - ADT plus Abiraterone and Prednisolone should be given to men with locally advanced or metastatic prostate cancer rather than ADT alone.

This groundbreaking work will change the standard of care for patients who receive long-term androgen-deprivation therapy (ADT), as the data clearly prove that the combination with abiraterone is superior to ADT alone.

ESI研究前沿



Report View by Selection

Research Fronts		Highly Cited Papers ▾
1	CRISPR/CAS9-MEDIATED GENE EDITING; HUMAN TRIPRONUCLEAR ZYGOTES; HUMAN ZYGOTES; HUMAN 3PN EMBRYOS; CRISPR/CAS-MEDIATED GENOME EDITING	3

Highly Cited Papers ▾	Cites to Highly Cited Papers	Mean Year
3	234	2016

Papers by Research Field

Citation Trends

Documents

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× CRISPR/CAS9-MEDIATED GENE EDITING; HUMAN TRIPRONUCLEAR ZYGOTES; HUMAN ZYGOTES; HUMAN 3PN EMBRYOS; CRISPR/CAS-MEDIATED GENOME EDITING

Include Results For
Highly Cited Papers ▾

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Sort By Citations ▾
Customize Documents
1 - 3 of 3

1 CRISPR/CAS9-MEDIATED GENE EDITING IN HUMAN TRIPRONUCLEAR ZYGOTES
By: LIANG, PP; XU, YW; ZHANG, XY; et.al
Source: PROTEIN CELL 6 (5): 363-372 MAY 2015
Research Fields: BIOLOGY & BIOCHEMISTRY

Times Cited: 195
Research Front

2 INTRODUCING PRECISE GENETIC MODIFICATIONS INTO HUMAN 3PN EMBRYOS BY CRISPR/CAS-MEDIATED GENOME EDITING
By: KANG, XJ; HE, WY; HUANG, YL; et.al
Source: J ASSIST REPROD GENET 33 (5): 581-588 MAY 2016
Research Fields: CLINICAL MEDICINE

Times Cited: 32
Research Front

3 CRISPR/CAS9-MEDIATED GENE EDITING IN HUMAN ZYGOTES USING CAS9 PROTEIN
By: TANG, LC; ZENG, YT; DU, HZ; et.al
Source: MOL GENET GENOMICS 292 (3): 525-533 JUN 2017
Research Fields: MOLECULAR BIOLOGY & GENETICS

Times Cited: 7
Research Front

识别学科领域研究前沿

Results List		Map View by To	Filter Results By ?	
Research Fronts			Changing the filter field removes all current filters.	
Filter Results	Report View by Selection	Research Fronts	Top Papers	Customize
Changing the current filters				Mean Year ▼
Add Filter »		CHRONIC GRAFT-VERSUS-HOST DISEASE; CLINICAL TRIALS; CLINICAL; HEALTH CONSENSUS DEVELOPMENT PROJECT; TASK FORCE REPORT	2	2017
Include Results		TISSUE-RESIDENT MEMORY T CELLS REQUIRES EXOGENOUS LIPID UPTAKE; EFFECTOR T CELL EXPANSION; ESSENTIAL METABOLITE; SERINE; METABOLISM	2	2017
Top Paper		PERIPHERAL IMMUNE CELLS; IMMUNE PRIVILEGE; CNS; STEADY STATE; ROLE	2	2017
Clear		PNEUMONIA ETIOLOGY RESEARCH; PNEUMOCOCCAL PNEUMONIA; CHILDHOOD PNEUMONIA; PEDIATRIC PNEUMONIA; PNEUMONIA	7	2017
		FATTY ACID RECEPTOR CD36; TARGETING METASTASIS-INITIATING CELLS; HOST REGULATORS; METASTATIC COLONIZATION; VIVO SCREEN	2	2017
		HIV NEUTRALIZING ANTIBODY GENERATION PROBLEM; HIV BNABS; HIV; HIV-1 ENVELOPE GLYCOPROTEIN STRUCTURE; BROADLY NEUTRALIZING ANTIBODIES	4	2017
		AMPLIFYING PHOSPHOINOSITIDE 3-KINASE-MEDIATED SUPPRESSION; EMERGING PATHOGENIC LINKS; HISTONE DEACETYLASE 2; MICRORNA-21 DRIVES SEVERE; STEROID-INSENSITIVE EXPERIMENTAL ASTHMA	2	2017

四、文献资料分析初步研判态势

NCBI Resources How To

PubMed.gov
US National Library of Medicine
National Institutes of Health

PubMed Federal Funding for Health Security in FY2018

Create RSS Create alert Advanced

Format: Abstract

从一篇文章出发。。。

Send to

See 1 citation found by title matching your search:

Health Secur. 2017 Jul/Aug;15(4):351-372. doi: 10.1089/hs.2017.0047. Epub 2017 Jun 27.

Federal Funding for Health Security in FY2018.

年度系列分析报告

Watson C., Watson M., Kirk Sell T.

Abstract *Johns Hopkins Center for Biosecurity*, Baltimore, Maryland.

This article is the latest in an annual series analyzing federal funding for health security programs. It examines proposed funding in the President's Budget Request for FY2018 and provides updated amounts for FY2017 and actual funding for FY2010 through FY2016.

从资料上可看到几个变化？

FY 2001-2014 biodefense funding



FY 2015-2018 health security funding

Biosecur Bioterror



Health Secur

1. Schuler A. Billions for biodefense: federal agency biodefense funding, FY2001-FY2005. *Biosecur Bioterror* 2004;2(2): 86-96.
2. Schuler A. Billions for biodefense: federal agency biodefense budgeting, FY2005-FY2006. *Biosecur Bioterror* 2005;3(2):94-101.
3. Lam C, Franco C, Schuler A. Billions for biodefense: federal agency biodefense funding, FY2006-FY2007. *Biosecur Bioterror* 2006;4(2):113-127.
4. Franco C, Deitch S. Billions for biodefense: federal agency biodefense funding, FY2007-FY2008. *Biosecur Bioterror* 2007; 5(2):117-133.
5. Franco C. Billions for biodefense: federal agency biodefense funding, FY2008-FY2009. *Biosecur Bioterror* 2008;6(2):131-146.
6. Franco C. Billions for biodefense: federal agency biodefense funding, FY2009-FY2010. *Biosecur Bioterror* 2009;7(3):291-309.
7. Franco C, Sell TK. Federal agency biodefense funding, FY2010-FY2011. *Biosecur Bioterror* 2010;8(2):129-149.
8. Franco C, Sell TK. Federal agency biodefense funding, FY2011-FY2012. *Biosecur Bioterror* 2011;9(2):117-137.
9. Franco C, Sell TK. Federal agency biodefense funding, FY2012-FY2013. *Biosecur Bioterror* 2012;10(2):162-181.
10. Sell TK, Watson M. Federal agency biodefense funding FY2013-FY2014. *Biosecur Bioterror* 2013;11(3):196-215.
11. Sell TK, Franco C. Funding for nuclear consequence-related programs, FY2012-FY2013. *Biosecur Bioterror* 2012;10(4):417-419.
12. Boddie CR, Sell TK, Watson MC. Federal funding for health security in FY2015. *Health Secur* 2014;12(4):163-177.
13. Boddie CR, Sell TK, Watson MC. Federal funding for health security in FY2016. *Health Secur* 2015;13(3):186-206.
14. Boddie CR, Watson MC, Sell TK. Federal funding for health security in FY2017. *Health Secur* 2016;14(5):284-304.

全部基于公开数据

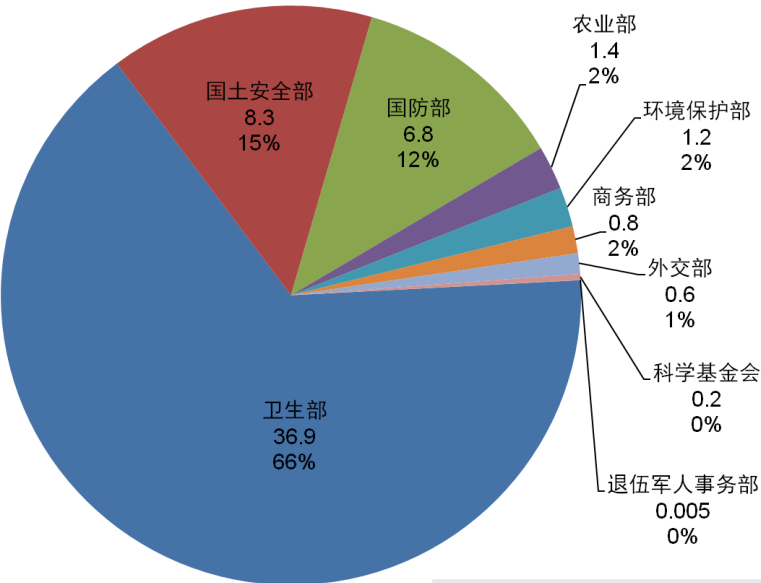
SUPPLEMENTARY DATA

Supplementary Table S1. Federal Civilian Biosecurity Program Funding (in \$millions)

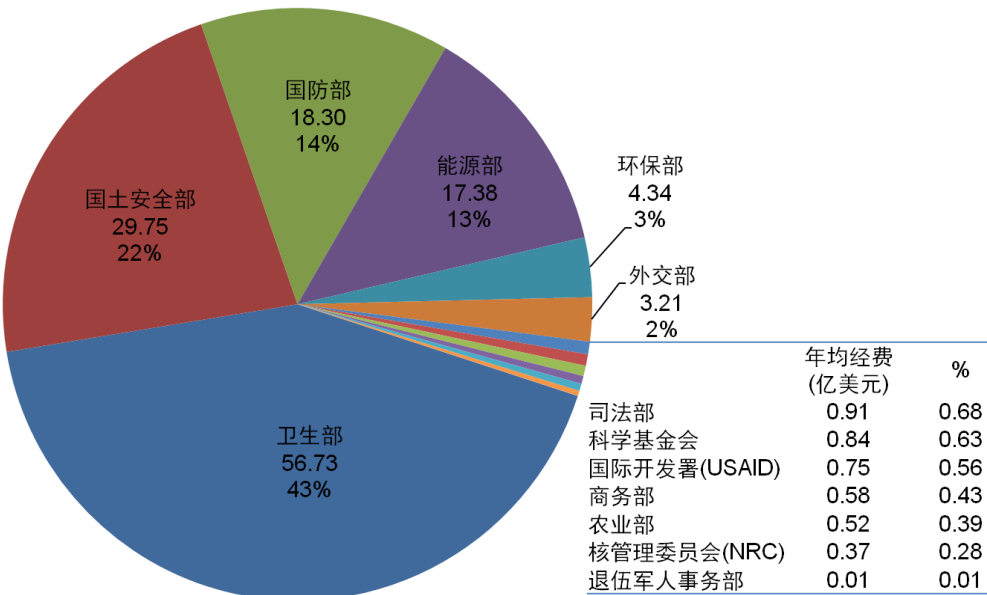
[illegible]

基于经费投入数据，得出美国生物安全政府治理体系

“生物防御” 框架下美国9个部委年度经费投入
单位：亿美元，2001-2014财年



“健康安全” 框架下美国13个部委年度经费投入
单位：亿美元，2010-2018财年



“生物防御” 治理体系（9个）	“健康安全” 治理体系（13个）
卫生部	卫生部
国土安全部	国土安全部
国防部	国防部
农业部	能源部
环境保护部	环保部
商务部	外交部
外交部	司法部
国家科学基金委员会	国际开发署(USAID)
退伍军人事务部	科学基金会
	商务部
	农业部
	核管理委员会(NRC)
	退伍军人事务部

美国国家健康安全的五大领域

■ 生物防御

- 生物剂恐怖袭击和生物材料意外泄露威胁的预防与应对

■ 辐射安全与核安全

- 放射性物质和核恐怖袭击，以及大规模的放射性泄露事故的预防与应对

■ 化学安全

- 对人为制造或意外事故导致的大规模有害化学物质人群暴露的预防、应对和应急处置

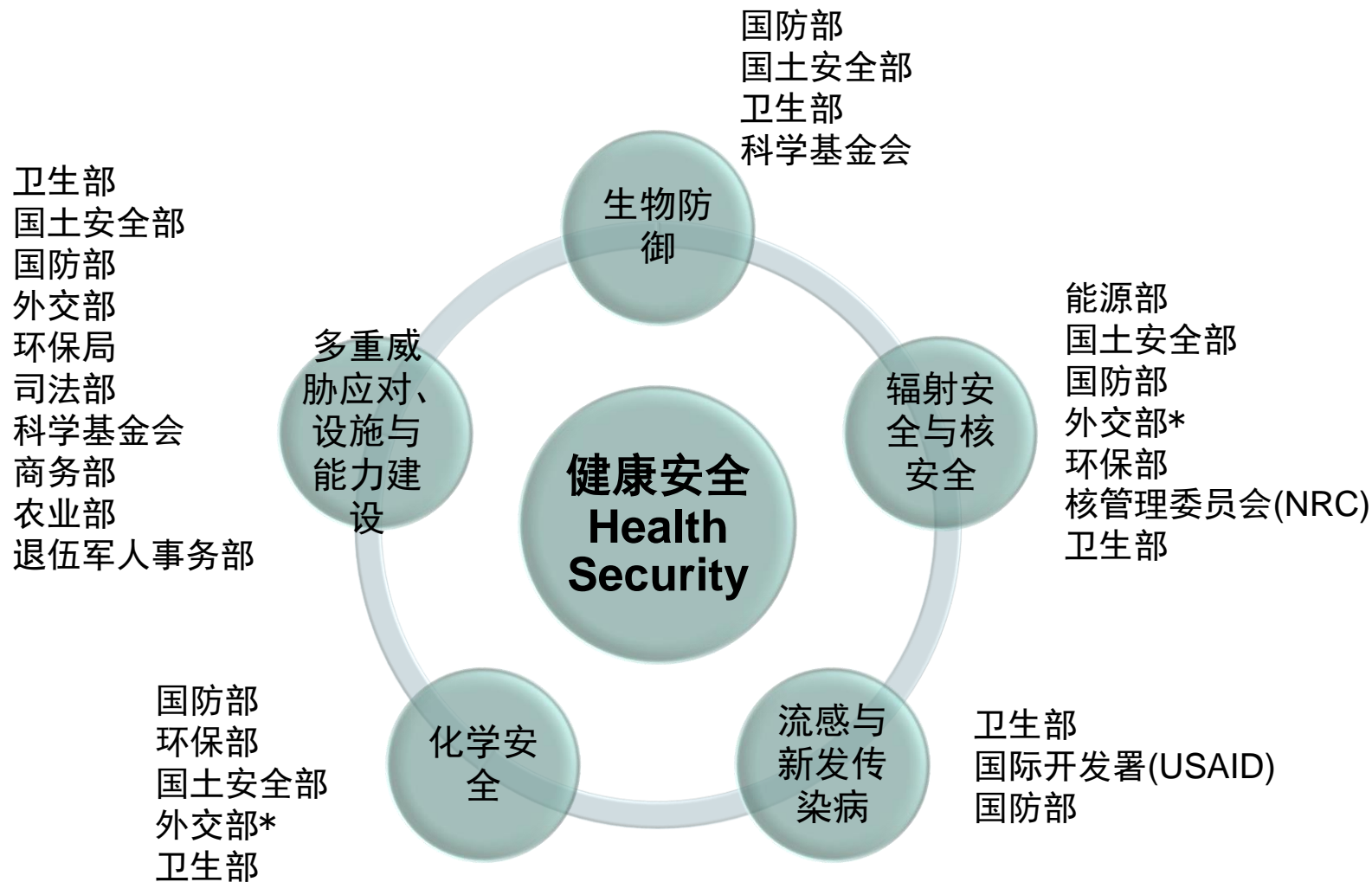
■ 流感与新发传染病

- 对大规模、自然发生的、可能造成社会混乱的传染病的预防 and 应对

■ 多重威胁应对、基础设施与能力建设

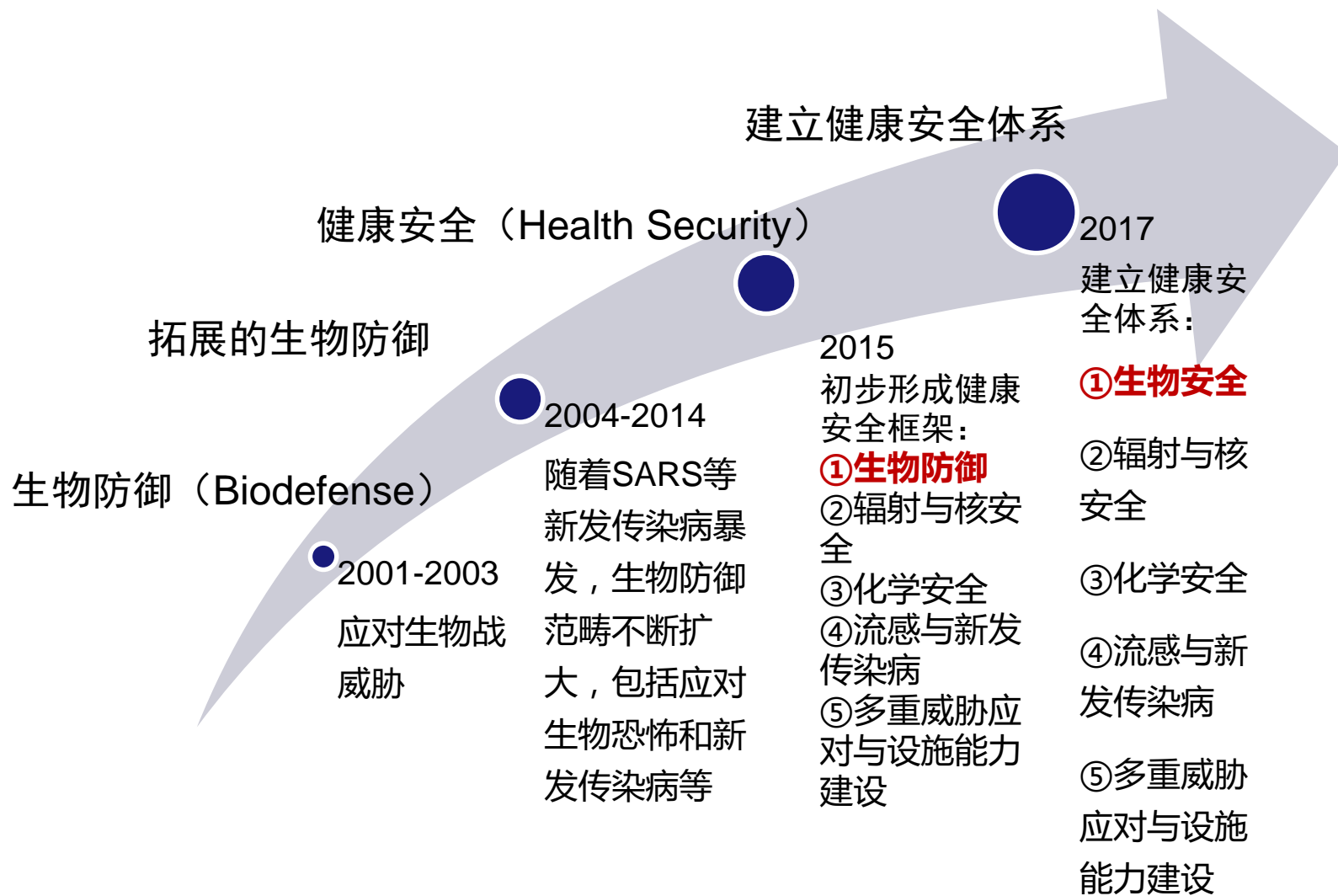
- 不专门属于以上4类生物安全领域的任务则归入多重（多类型）威胁应对，以及覆盖上述4类安全领域综合性、普适性的基础设施和能力建设

美国的国家健康安全体系



*美国国务院相当于外交部

美国生物安全发展态势



战略重点转移的证据

■ 证据：美国生物安全战略调整

➤ 国家规划：卫生部牵头

- 2009年《国家健康安全战略》
- 2012年《国家健康安全战略实施计划》

➤ 智库响应

- 匹兹堡大学生物安全研究中心更名为健康安全研究中心(2013)
- 约翰霍普金斯大学(2017)
- 专业期刊：Biosecurity and Bioterrorism更名为Health Security (2014)

过去是生物防御；
未来是健康安全

The Center at 15: Our History in Biosecurity,
Our Future in Health Security



Tom Inglesby, Anita Cicero, Center staff and friends look back over the Center's history in biosecurity and ahead to our future in health security in this video marking the Center's 15-year anniversary. [Watch now](#)

Until May 2013, we were the Center for Biosecurity of UPMC

UPMC CENTER FOR
HEALTH SECURITY

ABOUT THE CENTER | OUR STAFF

MISSION AREAS

OUR WORK | RESOURCES

Mission Areas

Global Health Security

Infectious Disease & Epidemics

Disaster Preparedness & Response

Biological, Chemical & Nuclear Threats

Science & Policy

重点任务领域：

全球健康安全；
传染病与流感；
灾害应急
生物威胁、化学威胁与核威胁

生物安全投入结构（一）

美国生物防御与健康安全领域的投入占美国联邦研发和研发设施（R&D 和 R&D plant）投入的比例（单位：亿美元）

	2001-2005	2006	2007	2008	2009	2010	2011
生物防御	243.7	58.4	54.9	54.6	81.8	56.5	57.3
健康安全						147.5	132.8
研发和研发设施财政总投入	5701.6	1360.2	1418.9	1443.9	1642.9	1489.6	1443.8
生物防御所占比例(%)	4.3	4.3	3.9	3.8	5.0	3.8	4.0
健康安全所占比例(%)						9.9	9.2

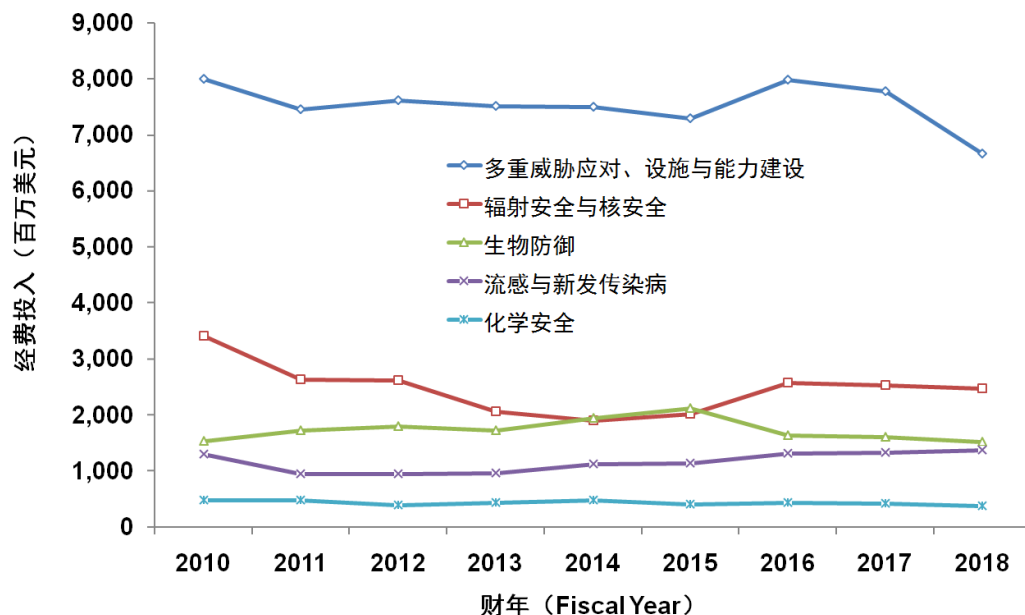
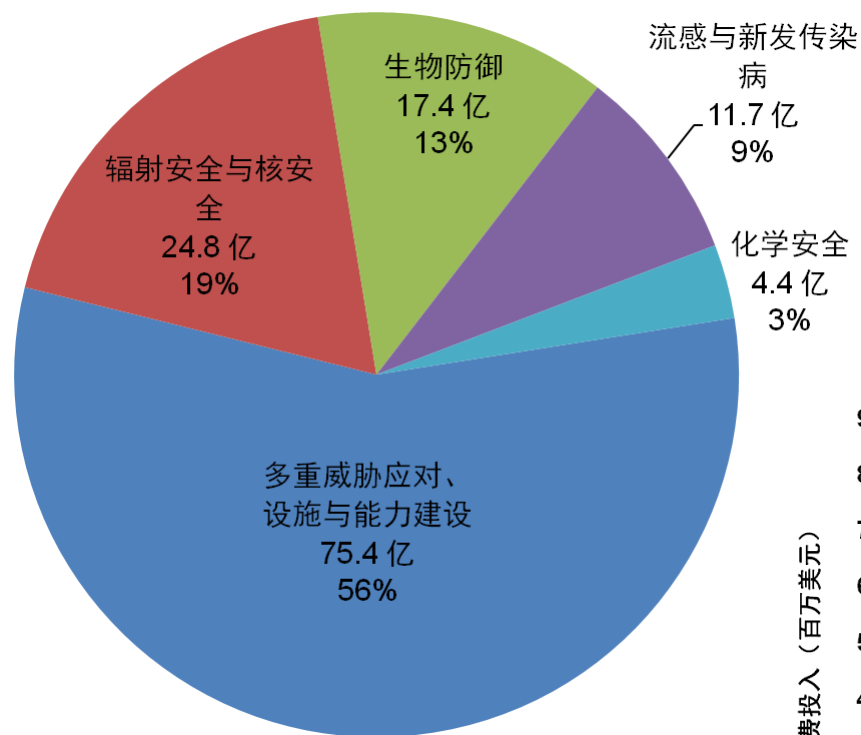
续表

	2012	2013	2014	2015	2016	2017	2018
生物防御	55.6	58.6	66.9				
健康安全	134.1	127.3	129.9	130.1	139.9	137.1	124.5
研发和研发设施财政总投入	1437.4	1324.8	1361.6	1385.4	1490.0	1539.2	
生物防御所占比例(%)	3.9	4.4	4.9				
健康安全所占比例(%)	9.3	9.6	9.5	9.4	9.4	8.9	

注：美国研发和研发设施财政总预算数据来源：National Science Foundation, National Center for Science and Engineering Statistics. 2017. Federal R&D Funding, by Budget Function: Fiscal Years 2015–2017, <https://www.nsf.gov/statistics/2017/nsf17305/#chp2>

生物安全投入结构（二）

2010-2018财年美国健康安全分领域年均经费投入（美元）



对态势的基本判断

- 生物安全的战略重点正在由军事国防领域的“生物防御”拓展至社会民生领域的“健康安全”，涵盖了生物防御、化学安全、放射与核安全、流感与新发传染病、复杂危害及其应急等内容。
- 正在形成以卫生、安全、国防和能源部门为主体，多部门参与的协同治理体系。
- 卫生部门不仅在传染病暴发等公共卫生应对方面起到核心作用，在生物恐怖等生物安全防御方面也发挥着重要作用。
- 美国生物安全领域年度投入约占联邦研发与研发设施总投入的4.5%，按管理部门，卫生与健康部门（含基础研究资助）投入约占50%；按任务领域，基础设施和能力建设投入占50-60%。这些数据可考虑供我国制定生物安全年度预算和具体任务时参考。

发现前沿、分析态势

**今后可重点关注以下点
与论文、专利形成有益补充**

- 一、从基金资助信息中发现未来研究动向**
- 二、从智库报告中发现未来研究方向**
- 三、通过数据库特色功能识别研究前沿**
- 四、从文献资料分析角度初步判断领域发展态势**

谢谢!

Q & A

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