JAPAN BIOINDUSTRY LETTERS

Vol.24 No.4
March 2008

JBA

Fiscal 2008 Government Budget Related to Biotechnology

1. The Ministry of Agriculture, Forestry and Fisheries

(Unit: million yen)

Breakdowns of budgets	Budget for FY 2007	Rough budget decided for FY 2008	Y/Y basis (%)
Science- and technology-related expenses	129,027	131,585	102.0
Promotion of science and technology	118,704	118,704	100.0
1. Technology development aimed at new developments in the agriculture, forestry, and fisheries industries			
(1) New Agricultural Development Genome Project	0	4,004	New project
(2) Development of new production systems assisted that contribute to the training of leaders	604	482	Continued
(3) Reorganization and enhancement of competitive research funds that make use of researcher and manufacturing ingenuity			
○Promotion of fundamental research to stimulate innovation	0	6,805	Modified/New
○Practical technology development for promoting new agriculture/forestry/fisheries policies	0	5,200	Modified/New
(4) Promotion of practical applications for R&D results	0	100	New project
2. Development of technology that supports food safety and reliability			
(1) Development of risk management technology (for bird flu, BSE, etc.)	0	700	New project
(2) Ensuring food safety from the production stage through the distribution and processing stages	0	549	New project
3. Development of technology for addressing global environment issues			
(1) Promotion of global warming countermeasures	276	455	Enhanced
(2) Acceleration of practical uses of biomass-derived fuels and materials made in Japan	1,500	1,450	Continued
(3) Preservation of biological diversity	0	228	New project
4. Other			
○Subsidies for independent administrative institutions (excluding competitive research budgets)	82,715	82,581	99.8

TOPICS

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2. The Ministry of the Environment

(Unit: million yen)

Item	Budget for FY2007	Budget for FY2008	Remarks
1. Expenses associated with tests and research relating to environmental conservation	444	(812)	Figures in parentheses include expenses not associated with bioindustry.
2. Expenses associated with infrastructure development relating to environmental policies	1,762	1,609	[FY2008] 14 subitems "Project for environmental specimen encapsulation," "Development of a diversified assessment system of human health with the help of biotechnology," etc.
3. Expenses associated with a biotechnology study	55	50	
Project concerning measures to deal with genetically modified organisms	55	50	Expenses relating to surveys necessary for the prevention of effects on biodiversity arising from the use of genetically modified products
4. Revenue associated with competitive research	(8,404)	(8,878)	Figures in parentheses include expenses not associated with bioindustry, which are excluded from the total.
1) Expenses associated with the general promotion of global environmental studies	(2,960)	(3,197)	
2) Expenses associated with the promotion of environmental technology development, etc.	(881)	(836)	
3) Grant associated with scientific research such as waste treatment, etc.	(1,261)	(1,135)	
4) Project concerning the development of technology to counter global warming	(3,302)	(3,710)	
5. National Institute for Environmental Studies	Included in the grant	Included in the grant	This item covers the amount granted to the National Institute for Environmental Studies for operating expenses, which includes expenses not related to biotechnology.

3. The Ministry of Economy, Trade and Industry

(Unit: million yen)

Measures	Budget for FY2007	Government Draft Budget for FY2008
Health assurance programs		
Technology development to facilitate bridging between fundamental research and clinical research	1,900	2,600
Basic biotechnology supporting acceleration of genomics-based drug development (two themes)	3,380	2,804
Development of fundamental protein structure analysis technologies for the purpose of accelerating drug discovery	980	882
Development of newly functional antibody creation technology	1,190	1,000
Development of sugar chain function application technology	1,190	1,000
Functional RNA project	850	820
Development of technology-combined biodiagnostic technology for realizing personalized medicine	400	340
Research and development project on intelligent operating device	700	600
Research and development on molecular imaging equipment	1,200	960
Research and development on next-generation DDS-type treatment systems for malignant tumors	1,060	460
Research and development on the evaluation of regenerative medicine	830	747
Project on guidelines for the development of medical equipments	71	60
Project on promoting the development of practical applications of care goods	120	108
Collection, analysis and supply of information on care goods	28	25
Integrated database project (new)	0	70
Research on bioethical and other issues relating to the commercialization of biotechnology	35	35
Safety measures in bioindustry	57	57
Subtotal	13,991	12,568
Programs aimed at the creation of environmentally sound industrial systems that utilize biological functions		
Development of basic technology for advanced manufacturing using plants	1,658	1,596
・Development of streamlined technology to produce industrial materials using solar energy through plant	618	556
・Development of basic technology to produce high value added substances using plants	1,040	1,040
Development of basic technology for environmentally sound manufacturing using microorganisms	1,381	1,105
・Development of basic technology for environmentally sound manufacturing using microorganisms	1,181	945
・Development of highly efficient environmental bioprocessing technology based on designing microorganisms	200	160
Development of high efficiency bioenergy conversion technology	880	2,800
Project on promotion of access to genetic resources in the context of the Convention on Biological Diversity	53	56
Enforcement measures for the law on CBD through regulation of the utilization of genetically modified organisms	10	10
Subtotal	3,982	5,567

Other		
Expenses relating to a depository of microbes for patent application	233	210
"Human Frontier Science Program"	1,344	1,309
Contributions to biotechnology-related projects by the OECD's Committee for Scientific and Technological Policy	13	14
Study of bioremediation technology for oil pollution on the coast of the Malacca Strait	153	142
Study of technology for dealing with bacterial corrosion in oil-related facilities	69	59
Development of technology for large-scale biological fixation of carbon dioxide (new)	0	100
Biomass energy utilization-related demonstration and feasibility studies	1,695	1,487
Standardization and demonstration of regional linkage system of medical information	210	180
New energy resource training: accepting trainees and dispatching experts	149	189
Asia Biomass Energy Cooperation Promotion Office	50	130
Innovation grant program	inclusive in 8,675	inclusive in 3,100
New energy technology field testing	inclusive in 10,824	inclusive in 8,588
Strategic development of technologies for rationalized energy use	inclusive in 8,000	inclusive in 6,900
Subtotal	3,916	3,820
Total	**21,889**	**21,955**

(Note 1) Those marked as "Inclusive" in the budget column are excluded from the total amount.

(Note 2) The totals may not add up due to rounding up.

(Note 3) Subtotal of budgets for FY2008 does not include budgets for the projects completed in FY2007.

4. The Ministry of Health, Labour and Welfare

(Unit: million yen)

	Item	Budget for FY2007	Draft Budget for FY2008	Y/Y rise or fall	Y/Y percentage changes	Remarks
General account	Science and technology promotion expenditure	111,763	113,530	1,767	101.6%	
	Subsidies for science research on welfare and labour	42,789	42,765	△ 24	99.9%	
	1. Ensuring health and safety					
	(1) Expenses associated with research into new and reemerging infectious diseases	2,396	2,436	40	101.7%	Improving measures against new and reemerging infectious diseases
	(2) Expenses associated with research into measures against AIDS	2,073	1,969	△ 104	95.0%	
	(3) Expenses associated with research into emergency measures for hepatitis control	1,426	1,602	176	112.3%	
	(4) Expenses associated with research for the promotion of regional medical infrastructure development (provisional)	915	840	△ 44	95.0%	Ensuring safety in medical treatment
	(5) Expenses associated with research into the promotion of ensuring food safety and security	1,491	1,752	261	117.5%	Ensuring food safety
	2. Promoting health and peace of mind					
	(1) Expenses associated with the tertiary general strategy against cancer	3,946	4,067	121	103.1%	Developing approaches to prevention, diagnosis and treatment of cancer
	(2) Expenses associated with clinical studies on cancer	2,232	2,420	188	108.4%	
	(3) Expenses associated with comprehensive research into lifestyle diseases, e.g., cardiovascular disorders	2,721	2,635	△ 117	95.7%	Promoting measures for lifestyle-related diseases and mental health
	(4) Expenses associated with research into the science of mental health	1,954	1,856	△ 98	95.0%	
	3. Implementing cutting-edge health care					
	(1) Expenses associated with implementation research into regenerative medicine (provisional)	797	529	89	115.0%	Developing basic technology for realizing advanced medicine
	(2) Expenses associated with research promoting drug discovery infrastructure	5,306	5,102	△ 204	96.2%	
	(3) Expenses associated with research and development of medical equipment	2,760	2,760	0	100.0%	
	(4) Expenses associated with comprehensive research into practical application of medical technology	4,130	4,957	827	120.0%	Establishing foundation of clinical studies (trials)
	Research institutes	30,425	28,539	△ 1,888	93.8%	Running cost for national research institutes of and independent administrative institutes
	Subsidies for research expenses into the treatment of intractable diseases	24,962	28,569	3,607	114.4%	
	Expenses associated with research into the treatment of chronic intractable diseases in childhood	10,804	10,876	72	100.7%	
	Other	2,784	2,780	△ 4	99.9%	Subsidies for the Research Institutes of Tuberculosis and the Radiation Effects Research Foundation
	Other	1,451	1,439	△ 12	99.2%	
	Subtotal	113,124	114,969	1,755	101.8%	Promoting assessment
Special account for the national centers for advanced specialized	National centers for advanced specialized medical treatment	9,794	13,118	3,324	133.9%	Expenses associated with Clinical Development Center, Hospital East, National Cancer Center and Research Institute, National Cardiovascular Center, etc.
	Subsidies for cancer research, etc.	4,024	4,024	0	100.0%	
	Expenses associated with treatment research by national centers for advanced specialized medical treatment	254	253	△ 1	99.6%	
	Subtotal	14,072	17,395	3,323	123.5%	
Special account for industrial	Bayh-Dole consignment fee for the research and development of pharmaceutical products (Special account for industrial investment)	1,200	1,200	0	100.0%	Providing Bayh-Dole-type assistance to private companies for the promotion of research into the development of pharmaceutical products and medical equipment, etc.
Special account for labour	(Special account for labour insurance)	3,043	2,860	△ 183	94.0%	Expenses associated with National Institute of Occupational Safety and Health
Total		131,529	136,424	4,895	103.7%	

5. The Ministry of Education, Culture, Sports, Science and Technology

(Unit: million yen)

Breakdowns of budgets	Budget for FY2007	Rough draft budget for FY2008
① **Reproduction technology for biological programs**		
・ Program for the strategic promotion of brain science research (2008-2012)		1,700 (New project)
・ Comprehensive research on brain science (RIKEN)	9,200	9,300
・ Research program on target proteins (2007–2011)	5,500	5,200
・ Strategic research on structure and function of genomes (genome network research) (2004–2008)	2,300	1,500
・ Project in the field of life science infrastructure research (RIKEN)		1,000 (New project)
・ Comprehensive research project for immunity and allergy science (RIKEN)	3,500	3,300
② **Clinical Research / Translational Research to Clinical Practice**		
・ Program for support and promotion of translational research (2007–2011)	1,500	1,800
・ Program for the strategic promotion of brain science research (2008-2012) [Re-listed]		1,700 (New project)
・ Project on the realization of a medical care system tailored to individual genetic information (Second term) (2008–2012)		2,800 (New project)
・ Genome science research project (Promotion of research on single nucleotide polymorphisms) (RIKEN)	1,600	1,600
・ Project on the realization of regenerative medicine (2007–2016)	1,000	2,000
・ Comprehensive research project for developmental and regenerative science (RIKEN)	4,800	4,500
・ Molecular imaging research program (2005–2009)	1,400	1,200
・ Promotion of research aimed at the development of innovative cancer treatment (2004–2008)	700	600
③ **Targeted Treatment and Other Innovative Cancer Treatment Technology**		
・ Promotion of research aimed at the development of innovative cancer treatment (2004–2008)	700	600
・ Program for support and promotion of translational research (2007–2011) [Re-listed]	1,500	1,800
・ Promotion of experimental research on heavy particle radiotherapy (National Institute of Radiological Sciences)	5,500	5,800
・ Program for training personnel in ion beam cancer treatment (2007–2011)	40	80
・ Molecular imaging research program (2005–2009) [Re-listed]	1,400	1,200
④ **Technology for Battling Emerging and Reemerging Infectious Diseases**		
・ Program on the formation of a research hub for emerging and reemerging infectious diseases (2005–2009)	2,800	2,500
⑤ **Production/Supply Technology of Safe Foods for Improved International Competitiveness**		
⑥ **Production & Environmental Improvement Technologies Based by the Use of Biological Functions**		
・ Research on plant science (RIKEN)	1,600	1,500
⑦ **Life science infrastructure upgrades to achieve world's highest standard**		
・ National BioResource Project (RIKEN) (2007-2011)	1,800	1,400
・ Bioresource business (RIKEN)	2,400	3,200
・ Comprehensive Database Project (2006-2010)	1,600	1,100
・ Promotion of bioinformatics research (Japan Science & Technology Agency - JST)	1,700	1,700
Total	68,800	70,800

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Printed in Japan