

Attached Table 1 **List of Research Areas in which “Publicly Offered Research” is Solicited in Grant-in-Aid for Transformative Research Areas (A) (32 Research Areas)**

Note: See “Attached Table 2: Research Outline of Research Areas Showed on Attached Table 1” for the outline of Publicly Offered Research projects in each Research Area

No.	Number of Research Area	Title	Term of Project	Research Period	Number of projects scheduled to be selected	Upper Limit of Annual Budget (in million yen)
1	24A101	The past, present, and future of “misbehaving climate” and humans	FY2024–2028	2	2 4 1 2 2 4	2 2.5 3 4 7.5 8
2	24A102	Materia–Mind: Constructing a New Human Historical Science of the Co–creation of Material and Mind	FY2024–2028	2	4 8 2 3	1.5 2 3 4.3
3	24A201	Ion Jamology: Materials design transformation by understanding non–equilibrium and collective ion flow	FY2024–2028	2	6 11	1.8 4
4	24A202	Integrated Science of Synthesis by Chemical Structure Reprogramming	FY2024–2028	2	28	2.5
5	24A203	Habitable Japan: Sustainability of atmospheric and oceanic environment as a survival basis of island country Japan	FY2024–2028	2	12 4	2.5 6
6	24A204	Chimera Quasiparticles for Novel Condensed–Matter Science	FY2024–2028	2	11 11	2 3
7	24A205	Investigation on the Origin and Evolution of Matter in the Universe by Extremely Rare Events: Frontire of Creating a New Insight on the Matte in the Universe	FY2024–2028	2	16 8 3	1.5 3.5 5
8	24A206	Plasma–driven Seed Memory Operation: Frontiers in Molecular Dynamics in Seeds driven by Plasma	FY2024–2028	2	25	3.5
9	24A207	Generative design to unlock the potential of protein function	FY2024–2028	2	22	3
10	24A301	Manipulating Genomes of Intracellular Symbiotic Organelles: Advancements in Technology, Applications for Fundamental Sciences, and Beyond.	FY2024–2028	2	15	3.5
11	24A302	Biological cluster: dynamic assembly and functional properties of supramolecular complexes in cells	FY2024–2028	2	7 10	3 5
12	24A303	Co–evolutionary emergence of extended phenotypes	FY2024–2028	2	12	4.5
13	24A304	chronoproteinology: Protein Machinery that drives “time” on various time scales	FY2024–2028	2	20	3.2
14	24A305	Emergence of brain functions from the dynamic connectome	FY2024–2028	2	17 6	3 5
15	24A306	Deciphering the epicode of chromatin, which controls cell fate decisions in organisms	FY2024–2028	2	15	3.8
16	24A401	Multicellular neurobiocomputing: Understanding and advancing towards biological supremacy	FY2024–2028	2	5 14	2.5 5
17	24A402	Global Antarctic Science: connecting the chain of changing huge ice sheet and global environments	FY2024–2028	2	14 3	2 5
18	26A101	The Creation of Humanities of Infectious Diseases and Recommendations for the Next Pandemic	FY2026–2030	2	16	2
19	26A102	Copresence study: Building a framework to understand and practice new ways of 'being together'.	FY2026–2030	2	10 10 8	1 3 5
20	26A201	Photokineticism: Multiscale Kinetics of Excited States and Innovative Optical Functions	FY2026–2030	2	15	4

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21	26A202	Dynamical materials science: beyond quantum and classical frameworks	FY2026–2030	2	10 10	2 4
22	26A203	Superatomic Materials: Creation of Innovative Materials Composed of Artificial Atoms as Building Blocks	FY2026–2030	2	12 5	3 5
23	26A204	What is the physical mechanism of the origin of the Universe? – challenges over transcending scales through the integration of theory, observations, and experiments	FY2026–2030	2	10 8	1 5
24	26A205	New Horizons in Negative Muon Science: A Transdisciplinary Integration of Knowledge Bridging Matter, the Universe, and Humanity	FY2026–2030	2	8 6	2 5
25	26A301	Sex–chromosome cycle: Principle of sex maintenance driven by sex–chromosome turnover	FY2026–2030	2	5 10	2.2 4.3
26	26A302	Element based Biology: Transition and flexibility of elemental utilization by life	FY2026–2030	2	23 4	2 3.5
27	26A303	Scientific Dream Interpretation	FY2026–2030	2	15 7	3 5
28	26A304	Organelle–Driven Sensors and Actuators Governing Plant Movement	FY2026–2030	2	15	4
29	26A305	Multidimensional glocal photobiology: Shedding light on unexplored frontiers of life phenomena	FY2026–2030	2	24	2.5
30	26A401	Integrated science of brain function recovery information linking molecules to society	FY2026–2030	2	20	3
31	26A402	Molecular Explorers: Adaptive Robots for Real–World Molecular Systems	FY2026–2030	2	25	4
32	26A403	Deuterium Science 2.0	FY2026–2030	2	9 8	3 6