

**Directorate for Biological Sciences
Emerging Frontiers
Theoretical Biology**

Proposal Classification Worksheet

In each category, please choose the most specific descriptors.

CATEGORY I: INVESTIGATOR STATUS (Select ONE)
<input type="checkbox"/> Beginning Investigator - No previous Federal support as PI or Co-PI, excluding fellowships, dissertations, planning grants, etc. <input type="checkbox"/> Prior Federal support only <input type="checkbox"/> Current Federal support only <input type="checkbox"/> Current & prior Federal support

CATEGORY II: FIELDS OF SCIENCE OTHER THAN BIOLOGY INVOLVED IN THIS RESEARCH (Select 1 to 3)		
<input type="checkbox"/> Astronomy <input type="checkbox"/> Chemistry <input type="checkbox"/> Computer Science <input type="checkbox"/> Earth Science	<input type="checkbox"/> Engineering <input type="checkbox"/> Mathematics <input type="checkbox"/> Physics	<input type="checkbox"/> Psychology <input type="checkbox"/> Social Sciences <input type="checkbox"/> None of the Above

CATEGORY III: SUBSTANTIVE AREA (No selection required)

CATEGORY IV: INFRASTRUCTURE (No selection required)
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CATEGORY V: HABITAT (No selection required)
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CATEGORY VI: GEOGRAPHIC AREA OF THE RESEARCH (No selection required)

CATEGORY VII: CLASSIFICATION OF ORGANISMS (Select 1 to 4)		
<input type="checkbox"/> VIRUSES <input type="checkbox"/> Bacterial <input type="checkbox"/> Plant <input type="checkbox"/> Animal <input type="checkbox"/> PROKARYOTES <input type="checkbox"/> Archaeobacteria <input type="checkbox"/> Cyanobacteria <input type="checkbox"/> Eubacteria <input type="checkbox"/> PROTISTA (PROTOZOA) <input type="checkbox"/> Amoebae <input type="checkbox"/> Apicomplexa <input type="checkbox"/> Ciliophora <input type="checkbox"/> Flagellates <input type="checkbox"/> Foraminifera <input type="checkbox"/> Microspora <input type="checkbox"/> Radiolaria <input type="checkbox"/> FUNGI <input type="checkbox"/> Ascomycota <input type="checkbox"/> Basidiomycota	<input type="checkbox"/> Chytridiomycota <input type="checkbox"/> Mitosporic Fungi <input type="checkbox"/> Oomycota <input type="checkbox"/> Yeasts <input type="checkbox"/> Zygomycota <input type="checkbox"/> LICHENS <input type="checkbox"/> SLIME MOLDS <input type="checkbox"/> ALGAE <input type="checkbox"/> Bacillariophyta (Diatoms) <input type="checkbox"/> Charophyta <input type="checkbox"/> Chlorophyta <input type="checkbox"/> Chrysophyta <input type="checkbox"/> Dinoflagellata <input type="checkbox"/> Euglenoids <input type="checkbox"/> Phaeophyta <input type="checkbox"/> Rhodophyta <input type="checkbox"/> PLANTS <input type="checkbox"/> NON-VASCULAR PLANTS <input type="checkbox"/> BRYOPHYTA	<input type="checkbox"/> Anthocerotae (Hornworts) <input type="checkbox"/> Hepaticae (Liverworts) <input type="checkbox"/> Musci (Mosses) <input type="checkbox"/> VASCULAR PLANTS <input type="checkbox"/> FERNS & FERN ALLIES <input type="checkbox"/> GYMNOSPERMS <input type="checkbox"/> Coniferales (Conifers) <input type="checkbox"/> Cycadales (Cycads) <input type="checkbox"/> Ginkgoales (Ginkgo) <input type="checkbox"/> Gnetales (Gnetophytes) <input type="checkbox"/> ANGIOSPERMS <input type="checkbox"/> Monocots <input type="checkbox"/> Areaceae (Palmae) <input type="checkbox"/> Cyperaceae <input type="checkbox"/> Liliaceae <input type="checkbox"/> Orchidaceae <input type="checkbox"/> Poaceae (Graminae) <input type="checkbox"/> Dicots <input type="checkbox"/> Apiaceae (Umbelliferae) <input type="checkbox"/> Asteraceae (Compositae)

<input type="checkbox"/> Brassicaceae (Cruciferae)	<input type="checkbox"/> Cheliceriformes	<input type="checkbox"/> Asterozoa (Starfish, Sea Stars)
<input type="checkbox"/> Fabaceae (Leguminosae)	<input type="checkbox"/> Merostomata (Horseshoe Crabs)	<input type="checkbox"/> Ophiurozoa (Brittle Stars, Serpent Stars)
<input type="checkbox"/> Lamiaceae (Labiatae)	<input type="checkbox"/> Pycnogonida (Sea Spiders)	<input type="checkbox"/> Echinozoa (Sea Urchins, Sand Dollars)
<input type="checkbox"/> Rosaceae	<input type="checkbox"/> Scorpionida (Scorpions)	<input type="checkbox"/> Holothurozoa (Sea Cucumbers)
<input type="checkbox"/> Solanaceae	<input type="checkbox"/> Araneae (True Spiders)	<input type="checkbox"/> HEMICHORDATA (Acorn Worms, Pterobranchs)
<input type="checkbox"/> ANIMALS	<input type="checkbox"/> Pseudoscorpionida (Pseudoscorpions)	<input type="checkbox"/> UROCHORDATA (Tunicata) (Tunicates, Sea Squirts, Salps, Ascideans)
<input type="checkbox"/> INVERTEBRATES	<input type="checkbox"/> Acarina (Free-living Mites)	<input type="checkbox"/> CEPHALOCHORDATA (Amphioxus/Lancelet)
<input type="checkbox"/> MESOZOA/PLACOZOA	<input type="checkbox"/> Parasitiformes (Parasitic Ticks & Mites)	<input type="checkbox"/> VERTEBRATES
<input type="checkbox"/> PORIFERA (Sponges)	<input type="checkbox"/> Crustacea	<input type="checkbox"/> AGNATHA (Hagfish, Lamprey)
<input type="checkbox"/> CNIDARIA	<input type="checkbox"/> Branchiopoda (Fairy Shrimp, Water Flea)	<input type="checkbox"/> FISHES
<input type="checkbox"/> Hydrozoa (Hydra, etc.)	<input type="checkbox"/> Ostracoda (Sea Lice)	<input type="checkbox"/> Chondrichthyes (Cartilaginous Fishes) (Sharks, Rays, Ratfish)
<input type="checkbox"/> Scyphozoa (Jellyfish)	<input type="checkbox"/> Copepoda	<input type="checkbox"/> Osteichthyes (Bony Fishes)
<input type="checkbox"/> Anthozoa (Corals, Sea Anemones)	<input type="checkbox"/> Cirripedia (Barnacles)	<input type="checkbox"/> Sarcopterygia (Lobe-finned Fishes) (Coelacanth, Lungfish)
<input type="checkbox"/> CTENOPHORA (Comb Jellies)	<input type="checkbox"/> Amphipoda (Skeleton Shrimp, Whale Lice, Freshwater Shrimp)	<input type="checkbox"/> Actinopterygia (Ray-finned Fishes)
<input type="checkbox"/> PLATYHELMINTHES (Flatworms)	<input type="checkbox"/> Isopoda (Wood Lice, Pillbugs)	<input type="checkbox"/> AMPHIBIA
<input type="checkbox"/> Turbellaria (Planarians)	<input type="checkbox"/> Decapoda (Lobster, Crayfish, Crabs, Shrimp)	<input type="checkbox"/> Anura (Frogs, Toads)
<input type="checkbox"/> Trematoda (Flukes)	<input type="checkbox"/> Hexapoda (Insecta) (Insects)	<input type="checkbox"/> Urodela (Salamanders, Newts)
<input type="checkbox"/> Cestoda (Tapeworms)	<input type="checkbox"/> Apterygota (Springtails, Silverfish, etc.)	<input type="checkbox"/> Gymnophiona (Apoda) (Caecilians)
<input type="checkbox"/> Monogenea (Flukes)	<input type="checkbox"/> Odonata (Dragonflies, Damselflies)	<input type="checkbox"/> REPTILIA
<input type="checkbox"/> GNATHOSTOMULIDA	<input type="checkbox"/> Ephemeroptera (Mayflies)	<input type="checkbox"/> Chelonia (Turtles, Tortoises)
<input type="checkbox"/> NEMERTINEA (Rynchozoela) (Ribbon Worms)	<input type="checkbox"/> Orthoptera (Grasshoppers, Crickets)	<input type="checkbox"/> Serpentes (Snakes)
<input type="checkbox"/> ENTOPROCTA (Bryozoa) (Plant-like Animals)	<input type="checkbox"/> Dictyoptera (Cockroaches, Mantids, Phasmids)	<input type="checkbox"/> Sauria (Lizards)
<input type="checkbox"/> ASCHELMINTHES	<input type="checkbox"/> Isoptera (Termites)	<input type="checkbox"/> Crocodylia (Crocodilians)
<input type="checkbox"/> Gastrotricha	<input type="checkbox"/> Plecoptera (Stoneflies)	<input type="checkbox"/> Rhynchocephalia (Tuatara)
<input type="checkbox"/> Kinorhyncha	<input type="checkbox"/> Phthiraptera (Mallophaga & Anoplura) (Lice)	<input type="checkbox"/> AVES (Birds)
<input type="checkbox"/> Loricifera	<input type="checkbox"/> Hemiptera (including Heteroptera) (True Bugs)	<input type="checkbox"/> Paleognathae (Ratites)
<input type="checkbox"/> Nematoda (Roundworms)	<input type="checkbox"/> Homoptera (Cicadas, Scale Insects, Leafhoppers)	<input type="checkbox"/> Sphenisciformes (Penguins)
<input type="checkbox"/> Nematomorpha (Horsehair Worms)	<input type="checkbox"/> Thysanoptera (Thrips)	<input type="checkbox"/> Procellariiformes (Albatrosses, Petrels, Fulmars)
<input type="checkbox"/> Rotifera (Rotatoria)	<input type="checkbox"/> Neuroptera (Lacewings, Dobsonflies, Snakeflies)	<input type="checkbox"/> Pelecaniformes (Pelicans, Gannets, Boobies, Tropicbirds)
<input type="checkbox"/> ACANTHOCEPHALA (Spiny-headed Worms)	<input type="checkbox"/> Trichoptera (Caddisflies)	<input type="checkbox"/> Ciconiiformes (Hérons, Bitterns, Egrets, Storks, Ibis, Flamingo)
<input type="checkbox"/> PRIAPULOIDEA	<input type="checkbox"/> Lepidoptera (Moths, Butterflies)	<input type="checkbox"/> Anseriformes (Ducks, Geese, Creamers)
<input type="checkbox"/> BRYOZOA (Ectoprocta) (Plant-like Animals)	<input type="checkbox"/> Diptera (Flies, Mosquitoes)	<input type="checkbox"/> Falconiformes (Vultures, Hawks, Eagles, Condors, Kites, Falcons)
<input type="checkbox"/> PHORONIDEA (Lophophorates)	<input type="checkbox"/> Siphonaptera (Fleas)	<input type="checkbox"/> Galliformes (Megapodes, Turkeys, Quail, Pheasants, Peafowl, etc.)
<input type="checkbox"/> BRACHIOPODA (Lamp Shells)	<input type="checkbox"/> Coleoptera (Beetles)	<input type="checkbox"/> Gruiformes (Cranes, Rails, Gallinules, Coots, Bustards, Crakes)
<input type="checkbox"/> MOLLUSCA	<input type="checkbox"/> Hymenoptera (Ants, Bees, Wasps, Sawflies)	<input type="checkbox"/> Charadriiformes (Terns, Gulls, Stilts, Avocets, Plovers, Puffins, etc.)
<input type="checkbox"/> Monoplacophora	<input type="checkbox"/> Chilopoda (Centipedes)	<input type="checkbox"/> Columbiformes (Pigeons, Doves)
<input type="checkbox"/> Aplacophora (Solenogasters)	<input type="checkbox"/> Diplopoda (Millipedes)	<input type="checkbox"/> Psittaciformes (Parrots, Lories, Cockatoos, Kakapo, Conures, etc.)
<input type="checkbox"/> Polyplacophora (Chitons)	<input type="checkbox"/> Paupoda	<input type="checkbox"/> Cuculiformes (Cuckoos, Turacos, Anis, Coucal, Roadrunner, etc.)
<input type="checkbox"/> Scaphopoda (Tooth Shells)	<input type="checkbox"/> Symphyta (Symphyta)	<input type="checkbox"/> Strigiformes (Owls)
<input type="checkbox"/> Gastropoda (Snails, Slugs, Limpets)	<input type="checkbox"/> PENTASTOMIDA (Linguatulida) (Tongue Worms)	<input type="checkbox"/> Apodiformes (Hummingbirds, Swifts, Thornbills)
<input type="checkbox"/> Pelecypoda (Bivalvia) (Clams, Mussels, Oysters, Scallops)	<input type="checkbox"/> TARDIGRADA (Tardigrades, Water Bears)	<input type="checkbox"/> Coraciformes (Kingfishers, Todies, Bee-Eaters, Rollers, Hornbills, etc.)
<input type="checkbox"/> Cephalopoda (Squid, Octopus, Nautilus)	<input type="checkbox"/> ONYCHOPHORA (Peripatus)	<input type="checkbox"/> Piciformes (Woodpeckers, Toucans, Jacamars, Barbets, Honeyguides)
<input type="checkbox"/> ANNELIDA (Segmented Worms)	<input type="checkbox"/> CHAETOGNATHA (Arrow Worms)	
<input type="checkbox"/> Polychaeta (Parapodial Worms)	<input type="checkbox"/> ECHINODERMATA	
<input type="checkbox"/> Oligochaeta (Earthworms)	<input type="checkbox"/> Crinozoa (Sea Lilies, Feather Stars)	
<input type="checkbox"/> Hirudinida (Leeches)		
<input type="checkbox"/> POGONOPHORA (Beard Worms)		
<input type="checkbox"/> SIPUNCULOIDEA (Peanut Worms)		
<input type="checkbox"/> ECHIUROIDEA (Spoon Worms)		
<input type="checkbox"/> ARTHROPODA		

<input type="checkbox"/> Passeriformes (Passerines)	<input type="checkbox"/> Monkeys	<input type="checkbox"/> Ungulates
<input type="checkbox"/> MAMMALIA	<input type="checkbox"/> Apes (Gibbons, Orang-utan, Gorilla, Chimpanzee)	<input type="checkbox"/> Perissodactyla (Odd-toed Ungulates) (Horses, Rhinos, Tapirs, etc.)
<input type="checkbox"/> Monotremata (Platypus, Echidna)	<input type="checkbox"/> Humans	<input type="checkbox"/> Artiodactyla (Even-toed Ungulates) (Cattle, Sheep, Deer, Pigs, etc.)
<input type="checkbox"/> Marsupalia (Marsupials)	<input type="checkbox"/> Rodentia	<input type="checkbox"/> Sirenia (Manatees, Dugongs)
<input type="checkbox"/> Eutheria (Placentals)	<input type="checkbox"/> Laboratory Rodents (Rat, Mouse, Guinea Pig, Hamster)	<input type="checkbox"/> Proboscidea (Elephants)
<input type="checkbox"/> Insectivora (Hedgehogs, Moles, Shrews, Tenrec, etc.)	<input type="checkbox"/> Non-Laboratory Rodents	<input type="checkbox"/> Marine Mammals (Seals, Walrus, Whales, Otters, Dolphins, Porpoises)
<input type="checkbox"/> Chiroptera (Bats)	<input type="checkbox"/> Lagomorphs (Rabbits, Hares, Pikas)	<input type="checkbox"/> TRANSGENIC ORGANISMS
<input type="checkbox"/> Edentata (Anteaters, Sloths, Armadillos)	<input type="checkbox"/> Tubulidenata (Aardvarks)	<input type="checkbox"/> FOSSIL OR EXTINCT ORGANISMS
<input type="checkbox"/> Primates	<input type="checkbox"/> Carnivora (Bears, Canids, Felids, Mustelids, Viverrids, Hyena, Procyonids)	<input type="checkbox"/> NO ORGANISMS

CATEGORY VIII: MODEL ORGANISM (Select ONE)

<input type="checkbox"/> NO MODEL ORGANISM	MODEL ORGANISM (Input up to 9 characters) <input type="text"/>	
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