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)

☐ Beginning Investigator - No previous Federal support as PI or Co-PI, excluding fellowships, dissertations, planning grants, etc.

☐ Prior Federal support only

☐ Current Federal support only

☐ Current & prior Federal support

CATEGORY II: FIELDS OF SCIENCE OTHER THAN BIOLOGY INVOLVED IN THIS RESEARCH (Select 1 to 3)

☐ Astronomy	☐ Engineering	☐ Psychology
☐ Chemistry	☐ Mathematics	☐ Social Sciences
☐ Computer Science	☐ Physics	☐ None of the Above
☐ Earth Science		

CATEGORY III: SUBSTANTIVE AREA (No selection required)

CATEGORY IV: INFRASTRUCTURE   (No selection required)

CATEGORY V: HABITAT   (No selection required)

CATEGORY VI: GEOGRAPHIC AREA OF THE RESEARCH   (No selection required)

CATEGORY VII: CLASSIFICATION OF ORGANISMS   (Select 1 to 4)

☐ VIRUSES	☐ Chytridiomycota	☐ Anthocerotae (Hornworts)
☐ Bacterial	☐ Mitosporic Fungi	☐ Hepaticae (Liverworts)
☐ Plant	☐ Oomycota	☐ Musci (Mosses)
☐ Animal	☐ Yeasts	☐ VASCULAR PLANTS
☐ PROKARYOTES	☐ Zygomycota	☐ FERNS & FERN ALLIES
☐ Archaebacteria	☐ LICHENS	☐ GYMNOSPERMS
☐ Cyanobacteria	☐ SLIME MOLDS	☐ Coniferales (Conifers)
☐ Eubacteria	☐ ALGAE	☐ Cycadales (Cycads)
☐ PROTISTA (PROTOZOA)	☐ Bacillariophyta (Diatoms)	☐ Ginkgoales (Ginkgo)
☐ Amoebae	☐ Charophyta	☐ Gnetales (Gnetophytes)
☐ Apicomplexa	☐ Chlorophyta	☐ ANGIOSPERMS
☐ Ciliophora	☐ Chrysophyta	☐ Monocots
☐ Flagellates	☐ Dinoflagellata	☐ Arecaceae (Palmae)
☐ Foraminifera	☐ Euglenoids	☐ Cyperaceae
☐ Microspora	☐ Phaeophyta	☐ Liliaceae
☐ Radiolaria	☐ Rhodophyta	☐ Orchidaceae
☐ FUNGI	☐ PLANTS	☐ Poaceae (Graminae)
☐ Ascomycota	☐ N0N-VASCULAR PLANTS	☐ Dicots
☐ Basidiomycota	☐ BRYOPHYTA	☐ Apiaceae (Umbelliferae)
		☐ Asteraceae (Compositae)

- ☐ Brassicaceae (Cruciferae)
- ☐ Fabaceae (Leguminosae)
- ☐ Lamiaceae (Labiatae)
- ☐ Rosaceae
- ☐ Solanaceae

☐ ANIMALS
- ☐ INVERTEBRATES
- ☐ MESOZOA/PLACOZOA
- ☐ PORIFERA (Sponges)
- ☐ CNIDARIA
  - ☐ Hydrozoa (Hydra, etc.)
  - ☐ Scyphozoa (Jellyfish)
  - ☐ Anthozoa (Corals, Sea Anemones)
- ☐ CTENOPHORA (Comb Jellies)
- ☐ PLATYHELMINTHES (Flatworms)
  - ☐ Turbellaria (Planarians)
  - ☐ Trematoda (Flukes)
  - ☐ Cestoda (Tapeworms)
  - ☐ Monogenea (Flukes)
- ☐ GNATHOSTOMULIDA
- ☐ NEMERTINEA (Rynchocoela) (Ribbon Worms)
- ☐ ENTOPROCTA (Bryozoa) (Plant-like Animals)
- ☐ ASCHELMINTHES
  - ☐ Gastrotricha
  - ☐ Kinorhyncha
  - ☐ Loricifera
  - ☐ Nematoda (Roundworms)
  - ☐ Nematomorpha (Horsehair Worms)
  - ☐ Rotifera (Rotatoria)
- ☐ ACANTHOCEPHALA (Spiny-headed Worms)
- ☐ PRIAPULOIDEA
- ☐ BRYOZOA (Ectoprocta) (Plant-like Animals)
- ☐ PHORONIDEA (Lophophorates)
- ☐ BRACHIOPODA (Lamp Shells)
- ☐ MOLLUSCA
  - ☐ Monoplacophora
  - ☐ Aplacophora (Solenogasters)
  - ☐ Polyplacophora (Chitons)
  - ☐ Scaphopoda (Tooth Shells)
  - ☐ Gastropoda (Snails, Slugs, Limpets)
  - ☐ Pelecypoda (Bivalvia) (Clams, Mussels, Oysters, Scallops)
  - ☐ Cephalopoda (Squid, Octopus, Nautilus)
- ☐ ANNELIDA (Segmented Worms)
  - ☐ Polychaeta (Parapodial Worms)
  - ☐ Oligochaeta (Earthworms)
  - ☐ Hirudinida (Leeches)
- ☐ POGONOPHORA (Beard Worms)
- ☐ SIPUNCULOIDEA (Peanut Worms)
- ☐ ECHIUROIDEA (Spoon Worms)
- ☐ ARTHROPODA

- ☐ Cheliceriformes
  - ☐ Merostomata (Horseshoe Crabs)
  - ☐ Pycnogonida (Sea Spiders)
  - ☐ Scorpionida (Scorpions)
  - ☐ Araneae (True Spiders)
  - ☐ Pseudoscorpionida (Pseudoscorpions)
  - ☐ Acarina (Free-living Mites)
  - ☐ Parasitiformes (Parasitic Ticks & Mites)
- ☐ Crustacea
  - ☐ Branchiopoda (Fairy Shrimp, Water Flea)
  - ☐ Ostracoda (Sea Lice)
  - ☐ Copepoda
  - ☐ Cirripedia (Barnacles)
  - ☐ Amphipoda (Skeleton Shrimp, Whale Lice, Freshwater Shrimp)
  - ☐ Isopoda (Wood Lice, Pillbugs)
  - ☐ Decapoda (Lobster, Crayfish, Crabs, Shrimp)
- ☐ Hexapoda (Insecta) (Insects)
  - ☐ Apterygota (Springtails, Silverfish, etc.)
  - ☐ Odonata (Dragonflies, Damselflies)
  - ☐ Ephemeroptera (Mayflies)
  - ☐ Orthoptera (Grasshoppers, Crickets)
  - ☐ Dictyoptera (Cockroaches, Mantids, Phasmids)
  - ☐ Isoptera (Termites)
  - ☐ Plecoptera (Stoneflies)
  - ☐ Phthiraptera (Mallophaga & Anoplura) (Lice)
  - ☐ Hemiptera (including Heteroptera) (True Bugs)
  - ☐ Homoptera (Cicadas, Scale Insects, Leafhoppers)
  - ☐ Thysanoptera (Thrips)
  - ☐ Neuroptera (Lacewings, Dobsonflies, Snakeflies)
  - ☐ Trichoptera (Caddisflies)
  - ☐ Lepidoptera (Moths, Butterflies)
  - ☐ Diptera (Flies, Mosquitoes)
  - ☐ Siphonaptera (Fleas)
  - ☐ Coleoptera (Beetles)
  - ☐ Hymenoptera (Ants, Bees, Wasps, Sawflies)
- ☐ Chilopoda (Centipedes)
- ☐ Diplopoda (Millipedes)
- ☐ Pauropoda
- ☐ Symphyta (Symphyla)
- ☐ PENTASTOMIDA (Linguatulida) (Tongue Worms)
- ☐ TARDIGRADA (Tardigrades, Water Bears)
- ☐ ONYCHOPHORA (Peripatus)
- ☐ CHAETOGNATHA (Arrow Worms)
- ☐ ECHINODERMATA
  - ☐ Crinoidea (Sea Lilies, Feather Stars)

- ☐ Asteroidea (Starfish, Sea Stars)
- ☐ Ophiuroidea (Brittle Stars, Serpent Stars)
- ☐ Echinoidea (Sea Urchins, Sand Dollars)
- ☐ Holothuroidea (Sea Cucumbers)
- ☐ HEMICHORDATA (Acorn Worms, Pterobranchs)
- ☐ UROCHORDATA (Tunicata) (Tunicates, Sea Squirts, Salps, Ascideans)
- ☐ CEPHALOCHORDATA (Amphioxus/Lancelet)

- ☐ VERTEBRATES
  - ☐ AGNATHA (Hagfish, Lamprey)
  - ☐ FISHES
    - ☐ Chondrichthyes (Cartilaginous Fishes) (Sharks, Rays, Ratfish)
    - ☐ Osteichthyes (Bony Fishes)
      - ☐ Sarcopterygia (Lobe-finned Fishes) (Coelacanth, Lungfish)
      - ☐ Actinopterygia (Ray-finned Fishes)
  - ☐ AMPHIBIA
    - ☐ Anura (Frogs, Toads)
    - ☐ Urodela (Salamanders, Newts)
    - ☐ Gymnophiona (Apoda) (Caecilians)
  - ☐ REPTILIA
    - ☐ Chelonia (Turtles, Tortoises)
    - ☐ Serpentes (Snakes)
    - ☐ Sauria (Lizards)
    - ☐ Crocodylia (Crocodilians)
    - ☐ Rhyncocephalia (Tuatara)
  - ☐ AVES (Birds)
    - ☐ Paleognathae (Ratites)
    - ☐ Sphenisciformes (Penguins)
    - ☐ Procellariiformes (Albatrosses, Petrels, Fulmars)
    - ☐ Pelecaniformes (Pelicans, Gannets, Boobies, Tropicbirds)
    - ☐ Ciconiiformes (Herons, Bitterns, Egrets, Storks, Ibis, Flamingo)
    - ☐ Anseriformes (Ducks, Geese, Screamers)
    - ☐ Falconiformes (Vultures, Hawks, Eagles, Condors, Kites, Falcons)
    - ☐ Galliformes (Megapodes, Turkeys, Quail, Pheasants, Peafowl, etc.)
    - ☐ Gruiformes (Cranes, Rails, Gallinules, Coots, Bustards, Crakes)
    - ☐ Charadriiformes (Terns, Gulls, Stilts, Avocets, Plovers, Puffins, etc.)
    - ☐ Columbiformes (Pigeons, Doves)
    - ☐ Psittaciformes (Parrots, Lories, Cockatoos, Kakapo, Conures, etc.)
    - ☐ Cuculiformes (Cuckoos, Turacos, Anis, Coucal, Roadrunner, etc.)
    - ☐ Strigiformes (Owls)
    - ☐ Apodiformes (Hummingbirds, Swifts, Thornbills)
    - ☐ Coraciformes (Kingfishers, Todies, Bee-Eaters, Rollers, Hornbills, etc.)
    - ☐ Piciformes (Woodpeckers, Toucans, Jacamars, Barbets, Honeyguides)

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

CATEGORY VIII: MODEL ORGANISM (Select ONE)

☐ NO MODEL ORGANISM	MODEL ORGANISM (Input up to 9 characters) ☐ [_____]	