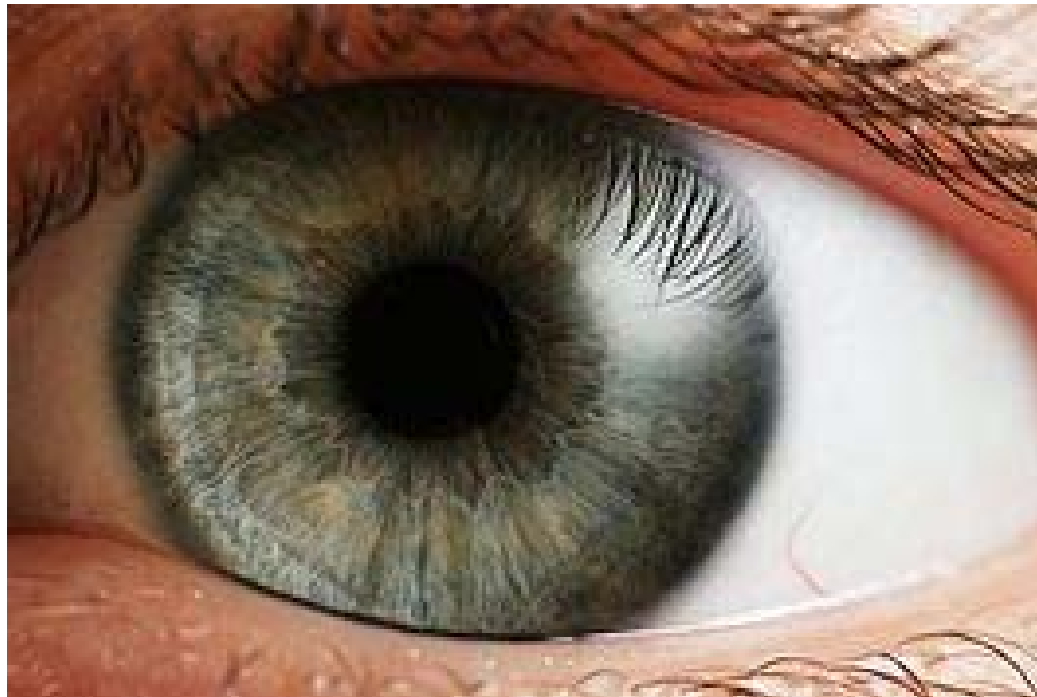


47 Eye Phylogenies

By Paul Nethercott

August 2014

www.CreationismOnline.com



www.wikipedia.com

47 Separate Phylogenies In The Evolution Of Various Eyes

No.	Animal Category	Hyperlink	Phylum	Subphylum	Superclass	Eyes	Common Name
1	Amphibians	http://en.wikipedia.org/wiki/Amphibians	Chordata	Vertebrata	Amphibia	Retinas, Corneas and Lenses	Amphibians
2	Annelids	http://en.wikipedia.org/wiki/Annelids	Annelida	Lophotrochozoa	Annelida	Compound Eyes, Ocelli	Worms
3	Birds	http://en.wikipedia.org/wiki/Birds	Chordata	Vertebrata	Aves	Retinas, Corneas and Lenses	Birds
4	Bivalves	http://en.wikipedia.org/wiki/Bivalvia	Mollusca		Bivalvia	Ocelli, Retinas	Bivalves
5	Bony fishes	http://en.wikipedia.org/wiki/Osteichthyes	Chordata	Vertebrata	Osteichthyes	Retinas, Corneas and Lenses	Bony fishes
6	Box Jelly Fish	http://en.wikipedia.org/wiki/Cubozoa	Cnidaria		Cubozoa	Retinas, Corneas and Lenses	Box Jelly Fish
7	Branchiopoda	http://en.wikipedia.org/wiki/Branchiopoda	Arthropoda	Crustacea	Branchiopoda	Compound Eyes	Fairy Shrimp
8	Cartilaginous Fish	http://en.wikipedia.org/wiki/Cartilaginous_fish	Chordata	Vertebrata	Chondrichthyes	Retinas, Corneas and Lenses	Cartilaginous Fish
9	Centipedes	http://en.wikipedia.org/wiki/Centipedes	Arthropoda	Myriapoda	Chilopoda	Compound Eyes	Centipedes
10	Chaetognatha	http://en.wikipedia.org/wiki/Chaetognatha	Chaetognatha		Sagittoidea	Compound Eyes	Marine Worms
11	Chitons	http://en.wikipedia.org/wiki/Chitons	Mollusca		Polyplacophora	Ocelli	Molluscs
12	Cnidaria	http://en.wikipedia.org/wiki/Medusozoa	Cnidaria	Medusozoa		Ocelli	Jelly Fish
13	Coleoidea	http://en.wikipedia.org/wiki/Coleoidea	Mollusca	Cephalopoda	Coleoidea	Retinas, Corneas and Lenses	Cartilaginous Squid
14	Entognatha	http://en.wikipedia.org/wiki/Entognatha	Arthropoda	Hexapoda	Entognatha	Ocelli	Wingless Insects
15	Entoprocta	http://en.wikipedia.org/wiki/Entoprocta	Entoprocta	Lophotrochozoa		Ocelli	Sessile Aquatic Animals
16	Gastropoda	http://en.wikipedia.org/wiki/Gastropoda	Mollusca		Gastropoda	Ocelli, Lenses	Snails, Slugs
17	Gastrotrich	http://en.wikipedia.org/wiki/Gastrotricha	Gastrotricha	Platyzoa		Ocelli	Marine Worms
18	Horseshoe Crabs	http://en.wikipedia.org/wiki/Xiphosura	Arthropoda	Xiphosura	Xiphosurida	Compound Eyes, Ocelli	Horseshoe Crabs
19	Insects	http://en.wikipedia.org/wiki/Insects	Arthropoda	Hexapoda	Insecta	Compound Eyes, Ocelli	Insects
20	Jawless Fish	http://en.wikipedia.org/wiki/Agnoatha	Chordata	Vertebrata	Agnatha	Retinas, Corneas and Lenses	Jawless Fish
21	Kinorhyncha	http://en.wikipedia.org/wiki/Kinorhyncha	Kinorhyncha	Scalidophora	Kinorhyncha	Ocelli	Marine Worms
22	Malacostraca	http://en.wikipedia.org/wiki/Malacostraca	Arthropoda	Crustacea	Malacostraca	Compound Eyes	Crabs, Lobsters
23	Mammals	http://en.wikipedia.org/wiki/Mammals	Chordata	Vertebrata	Mammalia	Retinas, Corneas and Lenses	Mammals
24	Copepods	http://en.wikipedia.org/wiki/Copepod	Arthropoda	Crustacea	Maxillopoda	Compound Eyes	Crustaceans
25	Millipedes	http://en.wikipedia.org/wiki/Millipede	Arthropoda	Myriapoda	Diplopoda	Ocelli	Millipedes
26	Mites And Ticks	http://en.wikipedia.org/wiki/Acarina	Arthropoda	Arthropoda	Acarina	Ocelli	Mites And Ticks
27	Molluscs	http://en.wikipedia.org/wiki/Molluscs	Mollusca	Lophotrochozoa	Molluscs	Ocelli	Molluscs
28	Nautiloid	http://en.wikipedia.org/wiki/Nautiloidea	Mollusca	Cephalopoda	Nautiloidea	Retinas, Corneas and Lenses	Nautiloid
29	Nemertea	http://en.wikipedia.org/wiki/Nemertea	Nemertea	Lophotrochozoa		Ocelli	Marine Worms
30	Octopus And Squid	http://en.wikipedia.org/wiki/Neocoleoidea	Mollusca	Cephalopoda	Neocoleoidea	Retinas, Corneas and Lenses	Octopus And Squid
31	Oligochaeta	http://en.wikipedia.org/wiki/Oligochaeta	Annelida		Oligochaeta	Ocelli	Worms
32	Onychophora	http://en.wikipedia.org/wiki/Onychophora	Onychophora	Ecdysozoa		Ocelli	Velvet Worms
33	Ostracoda	http://en.wikipedia.org/wiki/Ostracoda	Arthropoda	Crustacea	Ostracoda	Compound Eyes	Seed Shrimp
34	Platyhelminthes	http://en.wikipedia.org/wiki/Platyhelminthes	Platyhelminthes	Platyzoa		Ocelli	Flat Worms
35	Polychaeta	http://en.wikipedia.org/wiki/Polychaeta	Annelida		Polychaeta	Ocelli	Annelid Worms
36	Reptiles	http://en.wikipedia.org/wiki/Reptiles	Chordata	Vertebrata	Reptilia	Retinas, Corneas and Lenses	Reptiles
37	Rotifers	http://en.wikipedia.org/wiki/Rotifers	Rotifera			Ocelli	Rotifers
38	Scorpions	http://en.wikipedia.org/wiki/Scorpiones	Arthropoda	Chelicerata	Scorpiones	Ocelli	Scorpions
39	Sea Cucumbers	http://en.wikipedia.org/wiki/Sea_cucumbers	Echinoderms	Echinozoa	Holothuroidea	Ocelli	Sea Cucumbers
40	Sea Spiders	http://en.wikipedia.org/wiki/Sea_spider	Arthropoda	Chelicerata	Pantopoda	Ocelli	Spider Crabs
41	Sea Urchins	http://en.wikipedia.org/wiki/Sea_urchins	Echinoderms	Echinozoa	Echinoidea	Compound Eyes	Sea Urchins
42	Sipuncula	http://en.wikipedia.org/wiki/Sipuncula	Sipuncula	Lophotrochozoa		Ocelli	Marine Worms
43	Spiders	http://en.wikipedia.org/wiki/Spider	Arthropoda	Arachnida	Araneae	Ocelli	Spiders
44	Star Fish	http://en.wikipedia.org/wiki/Star_fish	Echinoderms	Asterozoa	Asteroidea	Ocelli	Star Fish
45	Tardigrada	http://en.wikipedia.org/wiki/Tardigrada	Tardigrada	Ecdysozoa		Compound Eyes	Water Bears
46	Trilobites (extinct)	http://en.wikipedia.org/wiki/Trilobita	Arthropoda	Trilobitomorpha	Trilobita	Compound Eyes	Marine Arthropods
47	Tunicates	http://en.wikipedia.org/wiki/Tunicates	Chordata	Tunicata		Ocelli	Sea Squirts

47 Separate Phylogenies, Sorted By Eye Types

No.	Animal Category	Hyperlink	Phylum	Subphylum	Superclass	Eyes	Common Name
7	Branchiopoda	http://en.wikipedia.org/wiki/Branchiopoda	Arthropoda	Crustacea	Branchiopoda	Compound Eyes	Fairy Shrimp
9	Centipedes	http://en.wikipedia.org/wiki/Centipedes	Arthropoda	Myriapoda	Chilopoda	Compound Eyes	Centipedes
10	Chaetognatha	http://en.wikipedia.org/wiki/Chaetognatha	Chaetognatha		Sagittoidea	Compound Eyes	Marine Worms
22	Malacostraca	http://en.wikipedia.org/wiki/Malacostraca	Arthropoda	Crustacea	Malacostraca	Compound Eyes	Crabs, Lobsters
24	Copepods	http://en.wikipedia.org/wiki/Copepod	Arthropoda	Crustacea	Maxillopoda	Compound Eyes	Crustaceans
33	Ostracoda	http://en.wikipedia.org/wiki/Ostracoda	Arthropoda	Crustacea	Ostracoda	Compound Eyes	Seed Shrimp
41	Sea Urchins	http://en.wikipedia.org/wiki/Sea_urchins	Echinoderms	Echinozoa	Echinoidea	Compound Eyes	Sea Urchins
45	Tardigrada	http://en.wikipedia.org/wiki/Tardigrada	Tardigrada	Ecdysozoa		Compound Eyes	Water Bears
46	Trilobites (extinct)	http://en.wikipedia.org/wiki/Trilobita	Arthropoda	Trilobitomorpha	Trilobita	Compound Eyes	Marine Arthropods
18	Horseshoe Crabs	http://en.wikipedia.org/wiki/Xiphosura	Arthropoda	Xiphosura	Xiphosurida	Compound Eyes, Ocelli	Horseshoe Crabs
19	Insects	http://en.wikipedia.org/wiki/Insects	Arthropoda	Hexapoda	Insecta	Compound Eyes, Ocelli	Insects
2	Annelids	http://en.wikipedia.org/wiki/Annelids	Annelida	Lophotrochozoa	Annelida	Compound Eyes, Ocelli	Worms
11	Chitons	http://en.wikipedia.org/wiki/Chitons	Mollusca		Polyplacophora	Ocelli	Molluscs
14	Entognatha	http://en.wikipedia.org/wiki/Entognatha	Arthropoda	Hexapoda	Entognatha	Ocelli	Wingless Insects
15	Entoprocta	http://en.wikipedia.org/wiki/Entoprocta	Entoprocta	Lophotrochozoa		Ocelli	Sessile Aquatic Animals
17	Gastrotrich	http://en.wikipedia.org/wiki/Gastrotricha	Gastrotricha	Platyzoa		Ocelli	Marine Worms
21	Kinorhyncha	http://en.wikipedia.org/wiki/Kinorhyncha	Kinorhyncha	Scalidophora		Ocelli	Marine Worms
25	Millipedes	http://en.wikipedia.org/wiki/Millipede	Arthropoda	Myriapoda	Diplopoda	Ocelli	Millipedes
26	Mites And Ticks	http://en.wikipedia.org/wiki/Acarina	Arthropoda	Arthropoda	Acarina	Ocelli	Mites And Ticks
27	Molluscs	http://en.wikipedia.org/wiki/Molluscs	Mollusca			Ocelli	Molluscs
29	Nemertea	http://en.wikipedia.org/wiki/Nemertea	Nemertea	Lophotrochozoa		Ocelli	Marine Worms
31	Oligochaeta	http://en.wikipedia.org/wiki/Oligochaeta	Annelida		Oligochaeta	Ocelli	Worms
32	Onychophora	http://en.wikipedia.org/wiki/Onychophora	Onychophora	Ecdysozoa		Ocelli	Velvet Worms
34	Platyhelminthes	http://en.wikipedia.org/wiki/Platyhelminthes	Platyhelminthes	Platyzoa		Ocelli	Flat Worms
35	Polychaeta	http://en.wikipedia.org/wiki/Polychaeta	Annelida		Polychaeta	Ocelli	Annelid Worms
37	Rotifers	http://en.wikipedia.org/wiki/Rotifers	Rotifera			Ocelli	Rotifers
38	Scorpions	http://en.wikipedia.org/wiki/Scorpiones	Arthropoda	Chelicerata	Scorpiones	Ocelli	Scorpions
39	Sea Cucumbers	http://en.wikipedia.org/wiki/Sea_cucumbers	Echinoderms	Echinozoa	Holothuroidea	Ocelli	Sea Cucumbers
40	Sea Spiders	http://en.wikipedia.org/wiki/Sea_spider	Arthropoda	Chelicerata	Pantopoda	Ocelli	Spider Crabs
42	Sipuncula	http://en.wikipedia.org/wiki/Sipuncula	Sipuncula	Lophotrochozoa		Ocelli	Marine Worms
43	Spiders	http://en.wikipedia.org/wiki/Spider	Arthropoda	Arachnida	Araneae	Ocelli	Spiders
44	Star Fish	http://en.wikipedia.org/wiki/Star_fish	Echinoderms	Asterozoa	Asteroidea	Ocelli	Star Fish
47	Tunicates	http://en.wikipedia.org/wiki/Tunicates	Chordata	Tunicata		Ocelli	Sea Squirts
12	Cnidaria	http://en.wikipedia.org/wiki/Medusozoa	Cnidaria	Medusozoa		Ocelli	Jelly Fish
16	Gastropoda	http://en.wikipedia.org/wiki/Gastropoda	Mollusca		Gastropoda	Ocelli, Lenses	Snails, Slugs
4	Bivalves	http://en.wikipedia.org/wiki/Bivalvia	Mollusca		Bivalvia	Ocelli, Retinas	Bivalves
1	Amphibians	http://en.wikipedia.org/wiki/Amphibians	Chordata	Vertebrata	Amphibia	Corneal Lense	Amphibians
3	Birds	http://en.wikipedia.org/wiki/Birds	Chordata	Vertebrata	Aves	Corneal Lense	Birds
5	Bony fishes	http://en.wikipedia.org/wiki/Osteichthyes	Chordata	Vertebrata	Osteichthyes	Corneal Lense	Bony fishes
6	Box Jelly Fish	http://en.wikipedia.org/wiki/Cubozoa	Cnidaria		Cubozoa	Corneal Lense	Box Jelly Fish
8	Cartilaginous Fish	http://en.wikipedia.org/wiki/Cartilaginous_fish	Chordata	Vertebrata	Chondrichthyes	Corneal Lense	Cartilaginous Fish
13	Coleoidea	http://en.wikipedia.org/wiki/Coleoidea	Mollusca	Cephalopoda	Coleoidea	Corneal Lense	Cartilaginous Squid
20	Jawless Fish	http://en.wikipedia.org/wiki/Agnatha	Chordata	Vertebrata	Agnatha	Corneal Lense	Jawless Fish
23	Mammals	http://en.wikipedia.org/wiki/Mammals	Chordata	Vertebrata	Mammalia	Corneal Lense	Mammals
28	Nautiloid	http://en.wikipedia.org/wiki/Nautiloidea	Mollusca	Cephalopoda	Nautiloidea	Corneal Lense	Nautiloid
30	Octopus And Squid	http://en.wikipedia.org/wiki/Neocoleoidea	Mollusca	Cephalopoda	Neocoleoidea	Corneal Lense	Octopus And Squid
36	Reptiles	http://en.wikipedia.org/wiki/Reptiles	Chordata	Vertebrata	Reptilia	Corneal Lense	Reptiles

47 Separate Phylogenies, Sorted By Phylum

No.	Animal Category	Hyperlink	Phylum	Subphylum	Superclass	Eyes	Common Name
12	Cnidaria	http://en.wikipedia.org/wiki/Medusozoa	Cnidaria	Medusozoa		Ocelli	Jelly Fish
6	Box Jelly Fish	http://en.wikipedia.org/wiki/Cubozoa	Cnidaria		Cubozoa	Corneal Lens	Box Jelly Fish
2	Annelids	http://en.wikipedia.org/wiki/Annelids	Annelida	Lophotrochozoa	Annelida	Compound Eyes, Ocelli	Worms
31	Oligochaeta	http://en.wikipedia.org/wiki/Oligochaeta	Annelida		Oligochaeta	Ocelli	Worms
35	Polychaeta	http://en.wikipedia.org/wiki/Polychaeta	Annelida		Polychaeta	Ocelli	Annelid Worms
7	Branchiopoda	http://en.wikipedia.org/wiki/Branchiopoda	Arthropoda	Crustacea	Branchiopoda	Compound Eyes	Fairy Shrimp
9	Centipedes	http://en.wikipedia.org/wiki/Centipedes	Arthropoda	Myriapoda	Chilopoda	Compound Eyes	Centipedes
22	Malacostraca	http://en.wikipedia.org/wiki/Malacostraca	Arthropoda	Crustacea	Malacostraca	Compound Eyes	Crabs, Lobsters
24	Copepods	http://en.wikipedia.org/wiki/Copepod	Arthropoda	Crustacea	Maxillopoda	Compound Eyes	Crustaceans
33	Ostracoda	http://en.wikipedia.org/wiki/Ostracoda	Arthropoda	Crustacea	Ostracoda	Compound Eyes	Seed Shrimp
46	Trilobites (extinct)	http://en.wikipedia.org/wiki/Trilobita	Arthropoda	Trilobitomorpha	Trilobita	Compound Eyes	Marine Arthropods
18	Horseshoe Crabs	http://en.wikipedia.org/wiki/Xiphosura	Arthropoda	Xiphosura	Xiphosurida	Compound Eyes, Ocelli	Horseshoe Crabs
19	Insects	http://en.wikipedia.org/wiki/Insects	Arthropoda	Hexapoda	Insecta	Compound Eyes, Ocelli	Insects
14	Entognatha	http://en.wikipedia.org/wiki/Entognatha	Arthropoda	Hexapoda	Entognatha	Ocelli	Wingless Insects
25	Millipedes	http://en.wikipedia.org/wiki/Millipede	Arthropoda	Myriapoda	Diplopoda	Ocelli	Millipedes
26	Mites And Ticks	http://en.wikipedia.org/wiki/Acarina	Arthropoda	Arthropoda	Acarina	Ocelli	Mites And Ticks
38	Scorpions	http://en.wikipedia.org/wiki/Scorpiones	Arthropoda	Chelicerata	Scorpiones	Ocelli	Scorpions
40	Sea Spiders	http://en.wikipedia.org/wiki/Sea_spider	Arthropoda	Chelicerata	Pantopoda	Ocelli	Spider Crabs
43	Spiders	http://en.wikipedia.org/wiki/Spider	Arthropoda	Arachnida	Araneae	Ocelli	Spiders
10	Chaetognatha	http://en.wikipedia.org/wiki/Chaetognatha	Chaetognatha		Sagittoidea	Compound Eyes	Marine Worms
47	Tunicates	http://en.wikipedia.org/wiki/Tunicates	Chordata	Tunicata		Ocelli	Sea Squirts
1	Amphibians	http://en.wikipedia.org/wiki/Amphibians	Chordata	Vertebrata	Amphibia	Corneal Lens	Amphibians
3	Birds	http://en.wikipedia.org/wiki/Birds	Chordata	Vertebrata	Aves	Corneal Lens	Birds
5	Bony fishes	http://en.wikipedia.org/wiki/Osteichthyes	Chordata	Vertebrata	Osteichthyes	Corneal Lens	Bony fishes
8	Cartilaginous Fish	http://en.wikipedia.org/wiki/Cartilaginous_fish	Chordata	Vertebrata	Chondrichthyes	Corneal Lens	Cartilaginous Fish
20	Jawless Fish	http://en.wikipedia.org/wiki/Agnatha	Chordata	Vertebrata	Agnatha	Corneal Lens	Jawless Fish
23	Mammals	http://en.wikipedia.org/wiki/Mammals	Chordata	Vertebrata	Mammalia	Corneal Lens	Mammals
36	Reptiles	http://en.wikipedia.org/wiki/Reptiles	Chordata	Vertebrata	Reptilia	Corneal Lens	Reptiles
41	Sea Urchins	http://en.wikipedia.org/wiki/Sea_urchins	Echinoderms	Echinozoa	Echinoidea	Compound Eyes	Sea Urchins
39	Sea Cucumbers	http://en.wikipedia.org/wiki/Sea_cucumbers	Echinoderms	Echinozoa	Holothuroidea	Ocelli	Sea Cucumbers
44	Star Fish	http://en.wikipedia.org/wiki/Star_fish	Echinoderms	Asterozoa	Asteroidea	Ocelli	Star Fish
15	Entoprocta	http://en.wikipedia.org/wiki/Entoprocta	Entoprocta	Lophotrochozoa		Ocelli	Sessile Aquatic Animals
17	Gastrotrich	http://en.wikipedia.org/wiki/Gastrotricha	Gastrotricha	Platyzoa		Ocelli	Marine Worms
21	Kinorhyncha	http://en.wikipedia.org/wiki/Kinorhyncha	Kinorhyncha	Scalidophora		Ocelli	Marine Worms
11	Chitons	http://en.wikipedia.org/wiki/Chitons	Mollusca		Polyplacophora	Ocelli	Molluscs
27	Molluscs	http://en.wikipedia.org/wiki/Molluscs	Mollusca			Ocelli	Molluscs
16	Gastropoda	http://en.wikipedia.org/wiki/Gastropoda	Mollusca		Gastropoda	Ocelli, Lenses	Snails, Slugs
4	Bivalves	http://en.wikipedia.org/wiki/Bivalvia	Mollusca		Bivalvia	Ocelli, Retinas	Bivalves
13	Coleoidea	http://en.wikipedia.org/wiki/Coleoidea	Mollusca	Cephalopoda	Coleoidea	Corneal Lens	Cartilaginous Squid
28	Nautiloid	http://en.wikipedia.org/wiki/Nautiloidea	Mollusca	Cephalopoda	Nautiloidea	Corneal Lens	Nautiloid
30	Octopus And Squid	http://en.wikipedia.org/wiki/Neocoleoidea	Mollusca	Cephalopoda	Neocoleoidea	Corneal Lens	Octopus And Squid
29	Nemertea	http://en.wikipedia.org/wiki/Nemertea	Nemertea	Lophotrochozoa		Ocelli	Marine Worms
32	Onychophora	http://en.wikipedia.org/wiki/Onychophora	Onychophora	Ecdysozoa		Ocelli	Velvet Worms
34	Platyhelminthes	http://en.wikipedia.org/wiki/Platyhelminthes	Platyhelminthes	Platyzoa		Ocelli	Flat Worms
37	Rotifers	http://en.wikipedia.org/wiki/Rotifers	Rotifera			Ocelli	Rotifers
42	Sipuncula	http://en.wikipedia.org/wiki/Sipuncula	Sipuncula	Lophotrochozoa		Ocelli	Marine Worms
45	Tardigrada	http://en.wikipedia.org/wiki/Tardigrada	Tardigrada	Ecdysozoa		Compound Eyes	Water Bears