From	Observation	То
1	Stylet or spear present	2
	Stylet or spear absent	30
	Tylenchid stylet present, esophagus usually with a median bulb	
	containing valvular apparatus, ventral supplements absent, bursa	
2	usually present	3
	Dorylaimid spear present, esophagus usually bottle-shaped, median	
	bulb absent, supplements hardly ever absent, bursa seldom present	
2		86
	Lip region with four setae	Atylenchidae
	Lip region without setae	4
	Bursa absent	5
4	Bursa present	11
	Median bulb conspicuously well developed, already distinct at low	
	magnification, dorsal esophageal gland empties into the lumen of	
	esophagus w within the median bulb, posterior body part strongly	
5	bent to the ventral side	Aphelenchoididae
	Median bulb not conspicuously developed, posterior body part at	
	most slightly bent to the ventral side	6
6	Tail shorter than anal body width	7
	Tail longer than one anal body width	9
7	Body not twisted	Verutus
7	Body twisted	8
8	Amphids conspicuous, halfway lip region	Meloidogynidae
8	Amphids at frontside of the lip region, inconspicuous	Heteroderidae
9	Esophagus differentiated, tail more than five anal body widths	Tylenchidae
9	Esophagus reduced one tail shorter than five anal body widths	10
10	Median bulb recognizable	Trophonema
10	The median bulb entirely degenerated	Paratylenchidae
11	Bursa with ribs	Aphelenchidae
11	Bursa without ribs	12
12	Bursa situated in the proximity of the anus	13
12	Bursa tail enveloping	22
	Body conspicuous slender looks like glass fibre, the body behind anus	
13	conspicuous · narrower, bursa lobulate	Ecphyadophoridae
	Body plumper, ratio a < 100	14
14	Esophagus and stylet degenerated	15
14	Esophagus and stylet not degenerated	16
15	Headframe slightly sclerotized	Rotylenchulus
15	Headframe not visible	Paratylenchidae
	Median bulb conspicuously strongly developed, dorsal esophageal	
	gland empties in esophagus lumen just before valvular apparatus,	
16	bursa rudimentary	Paraphelenchus

16	Median bulb not conspicuously muscular, bursa well developed	17
	The anterior part of esophagus spool - like swollen, median bulb	
17	absent	Neotylenchidae
17	Median · bulb well developed	18
18	Esophageal glands overlap intestine	Pseudhalenchus
18	Esophageal glands not overlapping	19
	The anterior part of the spicula broadened, tail conical, and bursa	
19	nearly reaches the tail tip	Anguinidae
	The anterior part of the spicula is not broadened, the tail thread-like	
19	extended, bursa situated in the proximity of the anus	20
	Stylet knobs absent, phasmid on the tail, amphids slit-like, on the	
20	lateral side of lip region	Psilenchidae
	Stylet knobs present, phasmids at the middle of body, amphids pore-	
20	like, in lateral view nearly invisible	21
	Chilet land applied 400/ of the distance from autorion to modice bulls	
21	Stylet long reaches 40% of the distance from anterior to median bulb	Tylodoridae
	Stylet shorter, at most to 1/3 of the distance from anterior to median	
21	bulb	Tylenchidae
22	Esophageal glands overlapping	23
22	Esophageal glands not overlapping	27
23	Median bulb and valvular apparatus absent	Deladenus
23	Median bulb present	24
24	Headframe well developed	25
24	Headframe slightly developed	26
25	Lip region flattened at front s ide	Pratylenchidae
	Lip region spherical at front side, body after heat fixation usually C -	
25	shaped	Hoplolaimidae
	Lip region dorsally more developed than ventrally, spicula shorter	
26	than 20 um	Hoplotylus
26	Lip region symmetrical, spicula more than 20 um	Telotylenchus
27	Esophagus without median bulb	Paurodontus
27	Median bulb and valvular apparatus present	28
28	Headframe slightly developed	Dolichodoridae
28	Headframe strongly developed	29
29	Lateral field with four lines	Pararotylenchus
29	Lateral field with six lines	Amplimerlinius
30	Esophagus with a conspicuous median bulb	31
30	Esophagus at most with a weak median bulb	33
31	Mouth cavity tubular, without conspicuous teeth	Diplogasteroididae
31	Mouth cavity with one or two large chambers, teeth conspicuous	32
	Dorsal tooth in mouth cavity immovable, both sub ventral metastom-	
32	swellings are identical	Diplogasteridae

	The dorsal tooth is movable and can protrude, right metastom	
	swelling also has a prominent tooth, left bump is smooth or carries a	Neodiplogasterida
32	crenate plate	е
	Body caterpillar-like, with alternating broad and narrow annules,	
33	amphids vesicle-shaped	Desmoscolecidae
33	Body not caterpillar-like	34
	Body asymmetrical, right body half has a fine net structure and a	
34	series of fins or shields	Bunonematidae
34	Body symmetrical	35
35	Bursa present	36
35	Bursa absent	42
36	Bursa without ribs	37
36	Bursa with ribs	38
37	Spicula with elbow-shaped outgrowth, bursa lobulate	Fungiotonchium
37	Spicula without outgrowths	40
38	Spicula present, mouth cavity tubular	39
38	Spicula absent, mouth cavity with a massive dorsal tooth	Myolaimus
	Cultura adian lina haak ahanad	
39	Sub median lips hook-shaped	Diploscap teridae
39	Sub median lips are not so hook-shaped	Rhabditidae
	Curiovilla College and	Hemicycliophorida
40	Spicula C-shaped	e
40	Spicula weakly bent	41
41	Body longer than 0.7 mm	Loofia
41	Body shorter than 0.7 mm	Criconematidae
	Lin ragion with grown	
42	Lip region with crown	Teratocephalidae
42	Lip region without crown	43
	Frankagus daganaratad and without structure	
43	Esophagus degenerated and without structure	Sphaeronematidae
43	Esophagus well developed	44
44	Mouth cavity tubular, with stylet knobs, tail thread-like extended	Tylopharyngidae
44	Mouth cavity without stylet knobs tail not thread-like extended	45
	Amphids absent, mouth cavity long and not differentiated large	
	nematodes, longer than 3 mm, tail bluntly rounded, esophagus	
45	conspicuously short , ratio b > 10	Isolaimidae
	Amphids present, ratio b < 10, tail not bluntly rounded, body less than	
45	3 mm	46
46	Cuticle punctated, amphids usually spiral-shaped	47
46	Cuticle not punctated, amphids not spiral-shaped	53
47	Supplements are trapezium-shaped, esophagus anterior constricted	Ethmolaimidae
47	Supplements, when present, are not trapezium-shaped	48

48	Amphid slit-like	49
	Amphid spiral-shaped	51
	Cuticle not punctated	Osstellidae
	Cuticle punctated	50
	Dorsal and sub ventral teeth are equally significant; the part of the	
50	esophagus which surrounds the mouth cavity is symmetrical	Chromadoridae
	A small dorsal tooth is an extension of esophageal tissue, sub-ventral	
	teeth hardly develop ed, dorsal part of the esophagus is anteriorly	Hypodontholaimid
50	broader than ventral part	lae
	Tail blunt, conical and broadly rounded	Choanolaimidae
	Tail more than 1.5 anal body width	52
	Supplements absent	Achromadoridae
	Supplements present	Cya tholaimidae
53	Supplements present	54
	Supplements absent	68
54	Tube-shaped supplements	56
54	Supplements not tube-shaped	55
55	Urn-shaped supplements	Tobrilidae
55	Supplements not urn-shaped	58
56	Anterior par t of valvular apparatus internal with small teeth	Lep tolaimidae
56	Valvular apparatus, when present, without teeth	57
	Bulb with valvular apparatus, the esophagus has no extension behind	
57	the terminal bulb	Plectidae
	Bulb, when present, without valvular apparatus, the esophagus has	
57	behind terminal bulb a tongue-like extension	Lep tolaimidae
58	Mouth cavity wide, barrel-shaped	59
58	Mouth cavity tubular, a minute or almost absent	62
59	Mouth cavity with large movable teeth	Onchulidae
59	Mouth cavity without movable teeth	60
	Mouth cavity small, with basal inconspicuous tooth, tail thread-like	
60	extended	Prismatolaimidae
	Mouth cavity large with sclerotized walls and one or some large teeth,	
60	tail never thread-like extended	61
	The base of the mouth cavity is funnel-shaped, dorsal tooth not	
	identical to sub ventral teeth, and no blisters at the bottom of the	
61	esophagus	Mononchidae
	The base of the mouth cavity is flattened, dorsal tooth identical to sub	
	ventral teeth, and three vesicles at the base of the esophagus	
61	Terms and the control of the coopingus	Anatonchidae
	Mouth cavity tubular and longer than half of the proper esophagus	
62		Aulolaimidae
	Mouth cavity, when tubular, shorter	63
63	Cuticle annulated	64

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63	Cuticle smooth		66
64	Nematodes are conspicuously slender, a ratio> 40	Bastianiidae	
64	Body not as slender		65
	Amphids are inconspicuous, cup-shaped, when not active, mouth		
	cavity closed, but a tooth is visible, body spiral-shaped after heat-		
65	fixation	Tripylidae	
65	Amphids are circular and conspicuous, and mouth cavity without teeth	Diplopel tidae	
66	Mouth cavity with some movable teeth	Ironidae	
66	Mouth cavity without movable teeth		67
67	Tail shorter than two anal body widths	Bathyodontus	
67	Tail long, body slender, a head region very skinny: only amphids are visible	Alaimidae	
68	Terminal bulb clearly with a valvular apparatus		69
68	Terminal bulb, when present, without valvular · apparatus		79
	Wing-like outgrowths in the neck region	Plectidae	
	No wing-like outgrowths in the neck region		70
70	The valvular apparatus is divided into two parts by a cross-groove	Desmodoridae	
70	Valvular apparatus without cross-groove		71
71	Tail with caudal glands and spinneret		72
71	Spinneret and caudal glands absent		73
	Setae absent, amphids inconspicuous, mouth cavity without cross-		
72	edges	Rhabdolaimidae	e
	Setae on head and body, amphids circular, mouth cavity with three		
72	cross-edges	Linhomoeidae	
	Lips with fringed or forked ornaments	Cephalobidae	
	Lips without ornaments	·	74
74	Esophagus corpus cylindric	Panagrolaimida	e
74	Esophagus corpus swollen		75
	The esophagus corpus gradually broadened	Alloionematida	e
	Corpus cylindric or spool-shaped		76
	One spicula is shorter than the other	Plectonchus	
	Spicula equal in length		77
77	Metastom with small teeth	Panagrolaimida	e
	Metastom without teeth	<u> </u>	78
	Gubernaculum triangular with caudal outgrowth	Panagrobelus	
	Gubernaculum slender, without caudal outgrowth	Cephalobidae	
	Head offset		80
			81
		Osstellidae	
79	Head not offset Mouth cavity minute, inconspicuous, amphids cross-oval	Osstellidae	

80	The mouth cavity is a large, egg-shaped, amphid circular	Sphaerolaimidae
81	Amphids circular	82
	Amphids inconspicuous	84
82	Cuticle smooth	Monhys teridae
82	Cuticle annulation fine	83
83	Body more than 1 mm	Xyalidae
83	Body less than 1 mm	Domorganus
84	Mouth cavity large, with teeth, right spiculum degenerated	Odonthopharynchi dae
84	Mouth cavity minute or absent, both spicula of equal size	85
	Body and head conspicuously slender, (ratio a > 60), amphid slit or	
85	pore-like, at several body widths from anterior	Alaimidae
85	Body not conspicuously slender, amphid not visible in lateral view	Sphaeronema or Paratylenchidae
86	Body with anteriorly a conspicuous sucker-shaped lip disc	Discolaimidae
86	Lip region not sucker-shaped	87
	Anterior to the spear, there is a large mouth cavity bearing four large	
	basal teeth, and on its walls, numerous small teeth and 24 longitudinal	
87	ridges	Actinolaimidae
87	Mouth cavity with teeth absent	88
	Spear and remaining body content hardly visible: covered by a large	
	number of grains, cuticle often hangs loosely around the body, spear	
88	structure complex	Diphterophoridae
88	Body content visible	89
	Tail long , ratio c < 1 5 and ratio c ' > 2	90
89	Tail short , ratio c > 15 and ratio c ' < 2	95
90	The basal region of the esophagus is surrounded by muscle-sheath	Oxydirus
90	The esophagus is not surrounded by a muscle-sheath	91
91	Nine or more supplements	92
91	Eight or fewer supplements	93
92	Tail conical, four anal body widths long	Eudorylaimus
92	Tail thread- like extended	Prodorylaimus
93	Spear extension curved and surrounded by swollen esophageal tissue	Dorylaimoides
93	Spear extension not surrounded by swollen esophageal tissue	94
94	Cuticle in mouth cavity swollen barrel-shaped, ratio c > 9	Chrys onemo ides
94	Cuticle in mouth cavity not swollen barrel-shaped ratio c < 9.	, Prodorylaimium
	Spear and spear extension grows together to a curved " spear " before	· .
	the anus is three supplements. In the esophageal region, there are	
95	some ventral papillae, sometimes bursa present	Trichodoridae
	1 1 /	

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	Spear straight, no ventral papillae in esophageal region	96
	Spear longer than 70 um	Longidoridae
	Spear shorter than 70 um	97
	Body longer than 3 mm	98
97	Body shorter than 3 mm	101
	Spear dorsally grooved and basally outgrown, implanted on ventral	
	mouth cavity wall	Sectonema
98	Spear axial	99
99	Cuticle with longitudinal grooves, 35 - 45 supplements	Dorylaimus
99	Cuticle without longitudinal grooves, less than 20 supplements	100
	Spicula longer than 80 um, spear aperture 30% of spear length, the	
100	base of esophagus constricted and surrounded by a muscle-sheath	Axonchium
	Spicula shorter than 70 um, spear aperture 50%, base of esophagus	
100	not surrounded by a muscle-sheath	Aporcelaimus
101	Spear extension with knob-shaped outgrowths	Leptonchidae
	Spear extension without knobs	102
102	Spear sickle-shaped bent, anterior body part conspicuously narrowed, body width at the base of Esophagus 4 . 5 times head width, guiding tube membranous, folded , 20 supplements visible, one stands apart	Paraxonchium
102	Body not conspicuously narrowed	103
103	Spear extension pear-shaped flanged.	Enchodelus
103	Spear extension not flanged	104
104	Six membranes cover the mouth cavity	Torumanawa
104	Membranes do not cover the mouth cavity	105
105	Spear implanted to the right of sub ventral mouth cavity wall base of esophagus surrounded by a muscle-sheath, supplements weakly developed	Nygolaimidae
105	Spear axial	106
106	Supplements, gubernaculum and lateral guiding pieces absent	Thornia
106	Supplements present	107
107	Spear extension curved, esophageal tissue behind spear swollen	Dorylaimoides
107	Spear extension not curved, esophagus distally not swollen	108
108	Guiding tube membranous, spear aperture not larger than 50%, gubernaculum absent, three separate cuticle layers visible on tail	Aporcelaimidae
108	Guiding tube not membranous, spear aperture not more significant than 50%, no separate cuticle layers visible on tail	109
	Tail conical, rounded or sharp, never broadly rounded	
109		Qudsianematidae

	Mouth cavity covered by six shields, 19 -24 supplements in close	
110	succession, body over 2 mm long	Labronema
110	Mouth cavity without shields	111
	Tail with several cuticle grains, lip region not offset, guiding tube	
111	consists of a muscular collar	Thonus
111	Tail without grains	Thornematidae