

OCCASIONAL PAPER NO. 148

**Records of the  
Zoological Survey of India**

**CATALOUGE OF THE PROTOZOANS  
OCCURRING IN REPTILES FROM INDIA**

**F. B. MANDAL, N. C. NANDI  
AND  
A. K. MANDAL**

**ZOOLOGICAL SURVEY OF INDIA**

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**F. B. MANDAL, N. C. NANDI AND A. K. MANDAL**

*Zoological Survey of India, Calcutta*



सत्यमेव जयते

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## INTRODUCTION

The pioneering studies on the protozoans occurring in reptiles from India include the works of Simond (1901a, b, c, d, e). At present a number of such protozoan species are known (References cited at the end) through the study of various workers like de Mello and his co-workers (1916-1937), Ray and his associates (1935-1969), Chakravarty and his co-workers (1940-1947), Janakidevi (1961-1962), Misra and his co-workers (1974-1981), Madre and his co-workers (1975-1978), Narasimhamurthi and others (1975-1982), Sinha (1977-1987) and Saratchandra (1979-1981). This paper lists these named and unnamed protozoan species in two parts comprising of a systematic list of protozoans harbouring reptilian hosts and *vice versa*.

### SYSTEMATIC LIST OF PROTOZOANS HITHERTO KNOWN FROM REPTILES OCCURRING IN INDIA.

Subkingdom	:	PROTOZOA
Phylum	:	SARCOMASTIGOPHORA
Subphylum	:	MASTIGOPHORA
Class	:	ZOOMASTIGOPHOREA
Order	:	KINETOPLASTIDA
Suborder	:	TRYPANOSOMATINA
Family	:	TRYPANOSOMATIDAE
Genus	:	<b>Trypanosoma</b> Gruby

Protozoan species	Host species (Reptiles)
<i>T. balithaensis</i> Ray, 1987	<i>Lissemys punctata punctata</i>
<i>T. enhydris</i> Sinha and Mandal, 1976	<i>Enhydris enhydris</i> <i>Natrix stolata</i>
<i>T. gangetica</i> Sinha, 1978	<i>Trionyx gangeticus</i>
<i>T. hemidactyli</i> Mackia, Das Gupta and Swaminath, 1923	<i>Hemidactylus gleadovii</i>
<i>T. pertenuis</i> de Mello and Lobo, 1938	<i>Hemidactylus brooki</i>
<i>T. sp.</i>	<i>Stone lizzard</i>

Genus : **Leishmania** Ross

<i>L. hemidactyli</i> Mackia, Das Gupta and Swaminath, 1923	<i>Hemidactylus gleadovii</i>
<i>L. sp.</i>	<i>Calotes versicolor</i>

## Protozoan species

## Host species (Reptiles)

Order : RETORTAMONADIDA

Family : CHILOMASTIGIDAE

Genus : **Chilomastix** Alexeieff

- |   |  |
|---|--|
| <i>C hemidactyli</i> Bhaskar Rao, Bhaskar<br>Rao and Devi, 1976 | <i>Hemidactylus</i> sp.<br><i>Hemidactylus giganteus</i>     |
| <i>C kudoii</i> Saratchandra and<br>and Narasimhamurti, 1980    | <i>Hemidactylus prashadi</i><br><i>Hemidactylus prashadi</i> |
| <i>C wenyoni</i> Janakidevi, 1962                               | <i>Calotes nimoricola</i>                                    |
| <i>C.</i> sp.   | <i>Calotes versicolor</i>                                    |
| <i>C.</i> sp.   | <i>Varanus indica</i>  |

Genus : **Retortamonas** Grassi

- |   |  |
|---|--|
| <i>R cheloni</i> Janakidevi, 1962                 | <i>Geochelone elegans</i><br>(= <i>Testudo elegans</i> ) |
| <i>R viperae</i> Krishnamurthy and<br>Madre, 1976 | <i>Vipera russellii</i>                                  |

Order : PROTEROMONADIDA

Family : PROTEROMONADIDAE

Genus : **Proteromonas** Kunstler

- |   |  |
|---|--|
| <i>P chameleoni</i> Krishnamurthy, 1968   | <i>Calotes versicolor</i><br><i>Chameleon zeylanicus</i> |
| <i>P ganapatii</i> Saratchandra, 1981   | <i>Hemidactylus giganteus</i>                            |
| <i>P grassei</i> Saratchandra and<br>Narasimhamurti, 1980                                 | <i>Hemidactylus prashadi</i>                             |
| <i>P hemidactyli</i> Krishnamurthy, 1968  | <i>Hemidactylus brooki</i>                               |
| <i>P kakatiyae</i> Bhaskar Rao, Devi,<br>Dayakar, Damodhar Reddy<br>and Bhaskar Rao, 1978 | <i>Hemidactylus</i> sp.                                  |
| <i>P krishnamurthyi</i> Saratchandra and<br>Babu, 1982                                    | <i>Calotes versicolor</i>                                |
| <i>P mabuiaae</i> Saratchandra, Vijayanada<br>and Venkateswarlu, 1984                     | <i>Mabuaya beddomii</i>                                  |

Protozoan species	Host species (Reptiles)
<i>P. sanjivei</i> Grewal, 1966	<i>Mabuya dissimilis</i>
<i>P. uromastixi</i> Janakidevi, 1962	<i>Uromastix hardwickii</i>
<i>P. waltirensis</i> Saratchandra and Narasimhamurti, 1980	<i>Hemidactylus prashadi</i>
<i>P. warangalensis</i> Bhaskar Rao, Devi, Dayakar, Damodhar Reddy and Bhaskar Rao, 1978	<i>Mabuya carinata</i>
<i>P. sp.</i>	<i>Chameleon zeylanicus</i>
<i>P. sp.</i>	<i>Eublepharus sp.</i>
<i>P. sp.</i>	<i>Calotes versicolor</i>
<i>P. sp.</i>	<i>Calotes sp.</i>
<i>P. sp.</i>	<i>Hemidactylus brooki</i>
<i>P. sp.</i>	<i>Hemidactylus giganteus</i>

Order : DIPLOMONADIDA  
 Family : HEXAMITIDAE  
 Genus : **Hexamita** Dujardin  
 (= *Hexamitus*)

<i>II. calotesi</i> Mitra and Ray, 1967	<i>Calotes versicolor</i>
<i>II. sp.</i>	<i>Calotes versicolor</i>

Order : OXYMONADIDA  
 Family : PYROSONYMPHIDAE  
 Genus : **Monocercomonoides** Travis

<i>M. filamentum</i> Janakidevi, 1962	<i>Geochelone elegans</i>
<i>M. mehdii</i> Krishnamurthy, 1967	<i>Calotes versicolor</i> <i>Calotes sp.</i>
<i>M. singhi</i> Krishnamurthy, 1967	<i>Chameleon zeylanicus</i>
<i>M. sp.</i>	<i>Eublepharus sp.</i>
<i>M. sp.</i>	<i>Calotes versicolor</i>

Order : TRICHOMONADIDA  
 Family : MONOCERCOMONADIDAE  
 Genus : **Monocercomonas** Grassi  
 (= *Eutrichomastix* Kofoid and Swezy)

Protozoan species	Host species (Reptiles)
<i>M. calotesi</i> Janakidevi, 1962	<i>Calotes versicolor</i>
<i>M. desh mukhi</i> Krishnamurthy and and Deshmukh, 1971	<i>Eublepharus sp.</i>
<i>M. elapheae</i> Krishnamurthy, 1968	<i>Elapha (= Coluber) helena</i>
<i>M. eryxi</i> Krishnamurthy, 1968	<i>Eryx Johinii</i>
<i>M. ganapatti</i> Saratchandra and Narasimhamurti, 1982	<i>Hemidactylus prashadi</i>
<i>M. garnhami</i> Krishnamurthy, 1968	<i>Lycodon aulicus</i> <i>Vipera russellii</i>
<i>M. gopali</i> Krishnamurthy, 1967	<i>Dryophis mycterizans</i>
<i>M. (Alimonas) hemidactyli</i> Madre, 1979	<i>Hemidactylus giganteus</i>
<i>M. longiflagellata</i> Krishnamurthy, 1968	<i>Calotes versicolor</i>
<i>M. najae</i> Krishnamurthy, 1968	<i>Naja naja</i>
<i>M. (Alimonas) prashadi</i> Saratchandra, 1981	<i>Hemidactylus prashadi</i>
<i>M. (Monocercomonas) rayi</i> Saratchan- dra and Narasimhamurti, 1982	<i>Hemidactylus prashadi</i>
<i>M. sharani</i> Grewal, 1966 (= <i>Eutrichomastix sharani</i> )	<i>Mabuya dissimilis</i>
<i>M. shortii</i> Krishnamurthy, 1968	<i>Hemidactylus brooki</i>
<i>M. srikakulamensis</i> Saratchandra and Narasimhamurti, 1979	<i>Calotes versicolor</i>
<i>M. waltirensis</i> Narasimhamurti and Saratchandra, 1980	<i>Hemidactylus prashadi</i>
<i>M. varani</i> Krishnamurthy, 1968	<i>Varanus sp.</i>
<i>M. sp.</i>	<i>Hemidactylus brooki</i>
<i>M. sp.</i>	<i>Varanus sp.</i>
<i>M. sp. (= Eutrichomastix sp.)</i>	<i>Calotes versicolor major</i>
<i>M. sp.</i>	<i>chameleon zeylanicus</i>
<i>M. spp. Calotes versicolor</i>	

## Protozoan species

## Host species (Reptiles)

<i>M</i> spp.	<i>Hemidactylus giganteus</i>
<i>M</i> sp.	<i>Varanus indica</i>
<i>M</i> sp.	<i>Naja naja</i>
<i>M</i> sp.	<i>Vipera russelii</i>

Genus : **Hexamastix** AlexciEFF

<i>H. agamae</i> Sparc, 1944	<i>Agama tuberculata</i>
<i>H. dobelli</i> Janakidevi, 1961	<i>Geochelone elegans</i>
<i>H. lacertae</i> Janakidevi 1961	<i>Uromastix hardwickii</i>

Genus **Hypotrichomonas** Lee

<i>H. hemidactyli</i> Bhaskar Rao, Bhaskar Rao and Devi, 1976	<i>Hemidactylus</i> sp.
<i>H. osmaniae</i> Krishnamurthy, 1967	<i>Varanus</i> sp.
<i>H. venkataramiahii</i> Dayakar, Devi, Bhaskar Rao and Bhaskar Rao, 1977	<i>Varanus indica</i>

Family : TRICHOMONADIDAE

Genus : **Tritrichomonas** Kofoid

<i>T. lissemyi</i> Janakidevi, 1961	<i>Lissemys punctata granosa</i>
-------------------------------------	----------------------------------

Genus **Trimitus** AlexciEFF

<i>T. trionyxi</i> Knowles and and Dasgupta, 1930	<i>Trionyx gangeticus</i>
--	---------------------------

Genus : **Trichomitus** Swezy

<i>T. batrachorum</i> (Perty, 1852)	<i>Eryx Johnii</i>
	<i>Hemidactylus brooki</i>
	<i>Hemidactylus giganteus</i>
	<i>Varanus</i> sp.
<i>T</i> sp.	<i>Varanus indica</i>

Genus **Trichomonas** Donne

<i>T</i> sp.	<i>Ablabes calamaria</i>
<i>T</i> sp.	<i>Naja naja</i>



Protozoan species	Host species (Reptiles)
<i>H. gangetica</i> Misra, 1976	<i>Trionyx gangeticus</i>
<i>H. hankini</i> Simond, 1901	<i>Crocodylus porosus</i>
	<i>Gavialis gangeticus</i>
<i>H. laverani</i> Simond, 1901	<i>Lissemys punctata granosa</i>
<i>H. malabarica</i> de Mello, 1932	<i>Lissemys punctata granosa</i>
<i>H. mesnili</i> Simond, 1901	<i>Kachuga tectum</i>
<i>H. mirabilis</i> Castellani and and Willey, 1904	<i>Natrix piscator</i>
	<i>Ptyas mucosus</i>
	(= <i>Coluber blumenbachii</i> )
<i>H. najae</i> Laveran, 1902	<i>Naja naja</i>
<i>H. nicorisae</i> Castellani and Willey, 1904	<i>Lissemys punctata granosa</i>
<i>H. pythonis</i> (Billet, 1895)	<i>python molurus</i>
<i>H. rodriguesi</i> de Mello, de sa, de Sousa, Dias and Noronha, 1917	<i>Hemidactylus brooki</i>
<i>H. testudinis</i> Laveran and Nattan- Larrier, 1913	<i>Geochelone emys</i>
	(= <i>Testudo emys</i> )
<i>H. thomsoni</i> Minchin, 1907	<i>Agama tuberculata</i>
<i>H. triedri</i> Robertson, 1908	<i>Hemidactylus</i> sp.
<i>H. vittatae</i> Robertson, 1908	<i>Lissemys punctata granosa</i>
<i>H. waltairensis</i> Saratchandra, 1981	<i>Calotes versicolor</i>
<i>H. xavieri</i> de Mello, 1932	<i>Lissemys punctata granosa</i>
<i>H. sp.</i>	<i>Bungarus caeruleus</i>
<i>H. sp.</i>	<i>Calotes versicolor</i>
<i>H. sp.</i>	<i>Mabuya carinata</i>
<i>H. sp.</i>	Stone lizard
<i>H. sp.</i>	<i>Varanus monitor</i>
<i>H. sp.</i>	<i>Chrysopela ornata</i>
<i>H. sp.</i>	<i>Ptyas</i> (= <i>Coluber</i> ) <i>karolini</i>
<i>H. sp.</i>	<i>Vipera russellii</i>
<i>H. sp.</i>	<i>Coluber</i> sp.

Protozoan species	Host species (Reptiles)
<i>II. sp.</i>	<i>Naja hanah (= Naja bungarus)</i>
<i>II. sp.</i>	<i>Dryophis mycterizans</i>
<i>II. sp.</i>	<i>Eryx johnii</i>
<i>II. sp.</i>	<i>Hemidactylus flaviviridis</i>
<i>II. sp.</i>	<i>Natrix stolata</i>
<i>II. sp.</i>	<i>Ptyas mucosus</i>
<i>II. sp.</i>	<i>Enhydris enhydris</i>
<i>II. sp.</i>	<i>Varanus bengalensis</i>
<i>II. sp.</i>	<i>Eryx conicus</i>
<i>II. sp.</i>	<i>Ahaetulla ahaetulla</i>

Genus : **Hepatozoon** Miller

*II. mucosus* Sinha, 1986 *Ptyas mucosus*

Genus : **Karyolysus** Labbe

*K jorgei* de Mello and de Meyrelles, 1937 *Calotes versicolor*  
*Calotes versicolor major*

Genus : **Caryospora** Leger

*C bengalensis* Mandal, 1976 *Enhydris enhydris*  
*C cobrae* Nandi, 1985 *Naja naja*  
*C geckonis* Chakravarty and Kar, 1947 *Gekko gecko*

Suborder : **EIMERIINA**

Family : **EIMERIINAE**

Genus : **Isospora** Schneider

*I. calotesi* Bhatia, 1938 *Calotes versicolor*  
*I. dirumpens* Hoare, 1933 *Natrix platyceps*  
*Natrix piscator*  
*I. knowlesi* Ray and Dasgupta, 1937 *Hemidactylus flaviviridis*  
*I. minuta* Mitra and Dasgupta, 1937 *Naja naja*  
*I. rayi* Mandal, 1966 *Ptyctolaemus sp.*  
*I. sp.* *Hemidactylus flaviviridis*

Protozoan species	Host species (Reptiles)
Genus : <b>Eimeria</b> Schneider	
<i>E. boae</i> Prashad, 1963	<i>Eryx conicus</i> (= <i>Boa caniner</i> )
<i>E. bongonensis</i> Sinha and Sinha, 1978	<i>Gekko gekko</i>
<i>E. dhamini</i> Mandal and Mukherjee, 1977	<i>Ptyas mucosus</i>
<i>E. fibrilosa</i> Mandal, 1976	<i>Enhydria enhydria</i>
<i>E. flaviviridis</i> Setna and Bana, 1935	<i>Hemidactylus flaviviridis</i>
<i>E. gupti</i> Bhatia, 1938	<i>Natrix Piscator</i>
<i>E. hemidactyli</i> Knowles and Dasgupta, 1935	<i>Hemidactylus flaviviridis</i>
<i>E. innominata</i> Kar, 1944	<i>Lissemys punctata</i>
<i>E. inornata</i> Kar, 1944	<i>Lissemys punctata</i>
<i>E. irregularis</i> Kar, 1944	<i>Lissemys punctata</i>
<i>E. kermorganti</i> (Simond, 1901)	<i>Gavialis gangeticus</i>
<i>E. knowlesi</i> Bhatia, 1938	<i>Hemidactylus flaviviridi</i> <i>Hemidactylus prashadi</i>
<i>E. koormae</i> Dasgupta, 1938	<i>Lissemys punctata</i>
<i>E. legari</i> (Simond, 1901)	<i>Lissemys punctata granosa</i>
<i>E. minetti</i> Ray, Raghavachari and Spare, 1942 (= <i>E. rabiti</i> )	<i>Mabuya sp.</i>
<i>E. najae</i> Ray and Dasgupta, 1936	<i>Naja naja</i>
<i>E. piscatori</i> Ray and Dasgupta, 1936	<i>Natrix piscator</i>
<i>E. ptyas</i> Prashad, 1963	<i>Ptyas mucosus</i>
<i>E. pythonis</i> Ray and Dasgupta, 1937	<i>Python molurus</i>
<i>E. rabiti</i> Mandal and Nair, 1973	<i>Gymnodactylus rabitus</i>
<i>E. stolata</i> Ray and Dasgupta, 1938	<i>Natrix stolata</i>
<i>E. triangularis</i> Chakravarty and Kar, 1943	<i>Trionyx gangeticus</i>
<i>E. trionyxae</i> Chakravarty and Kar, 1943	<i>Trionyx gangeticus</i>
<i>E. varani</i> Bhatia and Chauha, 1972	<i>Varanus monitor</i>
<i>E. sp.</i>	<i>Hemidactylus flaviviridis</i>





Protozoan species	Host species (Reptiles)
Phylum : CILIOPHORA	
Class : KINETOFRAGMINIFOREA	
Subclass : VESTBULLIFERIA	
Order : TRICHOSTOMATIDA	
Suborder : TRICHOSTOMATINA	
Family : BALANTIDAE	
Genus : <i>Balantidium</i> Claparede and Lachmann	

*B. dogieli* Das and Mukherjee, 1974      *Lissemys punctata punctata*

Class : POLYHYMENOPHOREA
Subclass : SPIROTRICHIA
Order : HETEROTRICHIA
Suborder : CLEVELLANDELLINA
Family : NYCTOTHERIDAE
Genus : <i>Nyctotherus</i> Leidy

*N. hardwickii* Janakidevi, 1961      *Uromastix hardwickii*

#### LIST OF REPTILIAN HOSTS ALONG WITH THEIR PARASITIC PROTOZOANS.

<i>Host and parasite</i>	<i>Locality</i>	<i>Reference</i>
--------------------------	-----------------	------------------

Class : REPTILIA
Order : CHELONIA
Family : EMYDIDAE

*Kachuga tectum* (Gray)

*Ilaemogregarina mesnili*      Jamuna River, U.P.      Simond, 1901a

Family : TESTUDINIDAE
-----------------------

*Geochelone elegans* (Schöepfl)

(= *Testudo elegans* Schöepfl)

*Ilexamastix dobelli*      Hyderabad, Andhra Pradesh      Janakidevi, 1961a

*Retortamonas cheloni*      Hyderabad, Andhra Pradesh      Janakidevi, 1962a

*Monocercomonoides filamentum*      Hyderabad, Andhra Pradesh      Janakidevi, 1962d

<i>Host and parasite</i>	<i>Locality</i>	<i>Reference</i>
<i>Geochelone emys</i> Schleg. and Mull. <i>Haemogregarina testudinis</i>	Not mentioned	Laveran and Nattan-Larrier, 1913
Family : TRIONYCHIDAE		
<i>Chitra indica</i> (Gray) <i>Haemoproteus metchnikovi</i> (= <i>Simondia metchnikovi</i> )	Agra, U.P.	Simond, 1901a
<i>Anaplasma</i> sp.	Goa	de Mello <i>et al.</i> , 1917
<i>Lissemys punctata</i> (Bonnaterre) <i>Eimeria innominata</i>	Calcutta, W.B.	Kar, 1944; Mandal, 1976
<i>E. inornata</i>	Calcutta, W.B.	Kar, 1944
<i>E. irregularis</i>	Calcutta, W.B.	Kar, 1944
<i>E. koormae</i>	Basirhat, 24-Parganas, nas, W.B.	Mandal, 1976
<i>Haemogregarina laverani</i>	Bangaon, 24-Parganas, W.B.	Sinha, 1984, 1987
<i>Zschokkella lissemysi</i> <i>Z. auerbachii</i> (= <i>Z. prashadi</i> )	Calcutta market, W.B. Falta, 24-Parganas, W.B.	Chakravarty, 1940 Ray, 1933
<i>Lissemys punctata granosa</i> (Schoepff) <i>Bertarellia carinii</i>	Goa	de Meyrelles, 1938
<i>B. sp.</i>	Goa	de Meyrelles, 1938
<i>Eimeria legeri</i>	Not mentioned	Simond, 1901b
<i>Haemogregarina ganapatii</i> <i>H. laverani</i>	Not mentioned Agra, U.P.	Saratchandra, 1981a Simond, 1901c; de Mello, 1932a
<i>H. malabarica</i>	Goa	de Mello, 1932b
<i>H. nicoriae</i>	Madras, Tamil Nadu	Patton, 1908
<i>H. vittatae</i>	Goa	de Mello, 1932a
<i>H. xavieri</i>	Goa	de Mello, 1932c
<i>Myxidium</i> sp.	Allahabad, U.P	Ray, 1933
<i>Tritrichomonas lissemysi</i>	Hyderabad, A.P.	Janakidevi, 1961b

<i>Host and parasite</i>	<i>Locality</i>	<i>Reference</i>
<i>Zschokkella prashadi</i>	Allahabad, U.P.	Ray, 1933
<i>Lissemys punctata punctata</i> Lacepede		
<i>Balantidium dogieli</i>	Calcutta market, W.B.	Das and Mukherjee, 1974
<i>Haemogregarina choudhury</i>	Balitha, Bankura, W.B.	Ray and Bhattacharjee, 1984
<i>Trypanosoma balithaensis</i>	Balitha, Bankura, W.B.	Ray, 1987
<i>Trionyx gangeticus</i> Cuiver		
<i>Haemogregarina gangatica</i> (= <i>H. simondi</i> )	Calcutta market, W.B.	Misra, 1976; 1981 Misra <i>et al.</i> , 1974
<i>Haemoproteus trionyxii</i>	Calcutta market, W.B.	Misra and Chaudhury, 1977
<i>Eimeria triangularis</i>	Calcutta, W.B.	Chakravarty and Kar, 1943; Mandal, 1976
<i>E. trionyxae</i>	Calcutta, W.B.	Chakravarty and Kar, 1943 ; Mandal, 1976
<i>Entamoeba</i> sp. (= <i>Endamoeba</i> )	Not mentioned	Knowles and Dasgupta, 1930
<i>Myxidium mackiei</i>	Bombay, Maharashtra	Bosanquet, 1910
<i>Trimitus trionyxci</i>	Not mentioned	Knowles and Das- gupta, 1930
<i>Trypanosoma gangetica</i>	Bongaon market,	Sinha, 1978
Order	: SQUAMATA	
Suborder	: LACERTILIA	
Family	: GECKONIDAE	
<i>Gymnodactylus rabitus</i> (Blyth)		
<i>Eimeria rabiti</i>	A & N Islands	Mandal & Nair, 1973
<i>Hemidactylus brooki</i> Gray		
<i>Anaplasma</i> sp.	Goa	de Mello <i>et al.</i> , 1917
<i>Haemoproteus kopki</i> (= <i>Haemocystidium simondi</i> )	Hyderabad, A.P. Madras, Tmil Nadu	de Mello, 1916, 1934a Shortt, 1962
<i>Haemogregarina redriguesi</i>	Goa	de Mello, 1934b; de Mello, <i>et al.</i> 1917

<i>Host and parasite</i>	<i>Locality</i>	<i>Reference</i>
<i>Hemidactylus coctaei</i>		
<i>Eimeria</i> sp.	Calcutta, W.B.	Ray and Dasgupta, 1935
<i>Monocercomonas shortii</i>	Aurangabad, Maharashtra	Krishnamurthy, 1968a
<i>M.</i> sp.	Maharashtra	Krishnamurthy and Madre, 1975
<i>Proteromonas hemidactyli</i>	Hyderabad, A.P.	Krishnamurthy and 1968c, d
<i>P</i> sp.	Maharashtra	Krishnamurthy and Madre, 1975
<i>Trichomitus bacrachorum</i>	Maharashtra	Krishnamurthy and Madre, 1975
<i>Trypanosoma pertenuae</i>	Goa	de Mello and Lobo, 1938
<i>Hemidactylus flaviviridis</i> (Rupcell)		
<i>Eimeria flaviviridis</i>	Calcutta, W.B.	Knowles and Dasgupta, 1935a
<i>E. hemidactyli</i>	Bombay, Maharashtra Calcutta, W.B.	Setna, 1944; Setna and Bana, 1935a; Knowles and Dasgupta, 1935a; Mandal, 1976.
<i>E. knowlesi</i>	Calcutta, W.B.	Knowles and Dasgupta, 1935a; Bhatia, 1936
<i>E.</i> sp.	Not mentioned	Knowles and Dasgupta, 1935b
<i>Entamoeba flaviviridis</i>	Not mentioned	Knowles and Dasgupta, 1935b
<i>Isospora knowlesi</i>	Calcutta, W.B.	Knowles and Dasgupta, 1935a; Ray and Dasgupta, 1937a.
<i>I.</i> sp.	Not mentioned	Knowles and Dagupta, 1935
<i>Haemogregarina</i> sp.	Garumara, Jalpaiguri, W.B.	Tiwari and Ray, 1981

<i>Host and parasite</i>	<i>Locality</i>	<i>Reference</i>
<i>Hemidactylus giganteus</i> Stoliczka		
<i>Chiloastix hemidactyli</i>	Aurangabad, Maharashtra	Madre, 1979a
<i>C. sp.</i>	Maharashtra	Krishnamurthy and Madre, 1975
<i>Monocercomonas (Alimonas)</i> <i>hemidactyli</i>	Marathwada, Maharashtra	Madre, 1979b
<i>M. spp.</i>	Maharashtra	Krishnamurthy and Madre, 1975
<i>Proteromonas ganapatii</i>	Waltair, Hyderabad, A.P.	Saratchandra, 1981d
<i>P sp.</i>	Maharashtra	Krishnamurthy and Madre, 1975
<i>Trichomitus bacrachorum</i>	Marathwada, Maharashtra	Madre, 1978; Krishna- murthy and Madre, 1975
<i>Hemidactylus gleadovii</i>		
<i>Leishmania hemidactyli</i>	Not mentioned	Mackie, Gupta and Swaminath, 1923
<i>Trypanosoma hemidactyli</i>	Not mentioned	Mackie, Gupta and Swaminath, 1923
<i>Hemidactylus leschenaulti</i> Dum and Bibr.		
<i>Ilaemoproteus simondi</i>	Marmadu, Goa	de Mello, 1934a
<i>Hemidactylus prashadi</i> Smith		
<i>Chilomastix kudoii</i>	Waltair, A.P.	Saratchandra and Narasimhamurti, 1980a
<i>Eimeria knowlesi</i>	Vishakhapatnam, A.P.	Saratchandra and Narasimhamurti, 1981
<i>Monocercomonas (Alimonas)</i> <i>ganapatii</i>	Waltair, A.P.	Saratchandra and Nara- simhamurti, 1982a
<i>M. (Alimonas) prashadi</i>	Waltair, A.P.	Saratchandra, 1981b
<i>M. (Monocercomonas) rayi</i>	Waltair, A.P.	Saratchandra and Narasimhamurti, 1982b
<i>M. waltairensis</i>	Waltair, A.P.	Narasimhamurti and Saratchandra, 1980a

<i>Host and parasite</i>	<i>Locality</i>	<i>Reference</i>
<i>Plasmodium</i> sp.	Andhra Pradesh	Narasimhamurti and Saratchandra, 1980b
<i>Proteromonas grassei</i>	Waltair, A.P.	Saratchandra and Narasimhamurti, 1980c
<i>P. Waltirensis</i> Waltair, A.P.	Saratchandra and	Narasimhamurti, 1980b
<i>Hemidactylus</i> sp.		
<i>Chilomastix hemidactyli</i>	Warangal, A.P.	Bhaskar Rao et al., 1976
<i>Haemogregarina triedri</i>	Deogarh, Sambolpur, Orissa.	Mandal et al., 1984, Nandi and Mandal, 1987
<i>Haemoproteus</i> sp.	Not mentioned	Donovan (first recorded in Wenyon, 1926)
<i>Hypotrichomonas hemidactyli</i>	Warangal, A.P.	Bhaskar Rao et al., 1976
<i>Proteromonas kakatiyae</i>	Warangal, A.P.	Bhaskar Rao et al., 1987
<i>Trichomitus batrachorum</i>	Marathwada, Maharashtra	Madre, 1978
<i>Gekko gekko</i> (Linn.)		
<i>Caryospora geckonis</i>	Calcutta, W.B.	Chakravarty and Kar, 1947
<i>Eimeria bongaonensis</i>	Bangaon, 24-Pgs. W.B.	Sinha and Sinha, 1978
Family : CHAMELEONIDAE		
<i>Chameleon zeylanicus</i> Laurenti		
<i>Monocecomonas</i> sp.	Maharashtra	Krishnamurthy and Madre, 1975
<i>Monoceromonoides singhi</i>	Hyderabad, A.P.	Krishnamurthy, 1967a
<i>Proteromonas chameleoni</i>	Hyderabad, A.P.	Krishnamurthy, 1963; 1967c, 1968a
<i>Proteromonas</i> sp.	Hyderabad, A.P. Maharashtra	Krishnamurthy, 1967a; Krishnamurthy and Madre, 1975

<i>Host and parasite</i>	<i>Locality</i>	<i>Reference</i>
<i>Proteromonas</i> sp.	Hyderabad, A.P.	Krishnamurthy, 1967b
Family : AGAMIDAE		
<i>Agama tuberculata</i> Gray		
<i>Haemogregarina thomsoni</i>	Kasauli, Punjab	Minchin, 1907; Shortt, 1917; Castellani and Chalmers, 1919
<i>Hexamastix agamae</i>	Not mentioned	Spare, 1944
<i>Calotes nemoricola</i>		
<i>Chilomastix wenyoni</i>	Hyderabad, A.P.	Janakidevi, 1962b
<i>Calotes versicolor</i> (Daudin)		
<i>Haemogregarina waltairensis</i>	Not mentioned	Saratchandra, 1981a
<i>Haemogregarina</i> sp.	Barbera, Puri, Orissa Reang, Darjiling, W.B.	Mandal et al., 1984 Tiwari and Ray, 1981
<i>Hexamitus calotesi</i>	Not mentioned	Mitra and Ray, 1967
<i>Isospora calotesi</i>	Bombay, Mharashtra Calcutta, W.B.	Setna, 1933; Bhatia, 1938; Chakravarty and Kar, 1947
<i>Karyolysus jorgei</i>	Goa	de Mello and de Meyreless, 1937a
<i>Leishmania</i> sp.	Bihar	Bhattacharya and Ghosh, 1983
<i>Monocercomonas calotesi</i>	Waltair, A.P.	Saratchandra, 1979
<i>M. lengiflagellata</i>	Marathwada, Maharashtra	Krishnamurthy, 1968a
<i>M. srikakulamensis</i>	Waltair, A.P.	Saratchandra and Narasimhamurti 1967b
<i>Monocercomonoides mehdii</i>	Aurangabad, Maharashtra	Krishnamurthy, 1967a
<i>Proteromonas chameleoni</i>	Nanded dist., Aurangabad, Maha- rashtra	Krishnamurthy, 1967e
	Marathwada, Maharashtra	Krishnamurthy, 1968a; 1970
<i>P. Krishnamurthyi</i>	Waltair, A.P.	Saratchandra and Babu, 1982

<i>Host and parasite</i>	<i>Locality</i>	<i>Reference</i>
<i>Schellackia calotesi</i> (= <i>Gordonella calotesi</i> )	Calcutta, W.B.	Ray and Sarkar, 1969
<i>Calotes versicolor major</i> Blyth <i>Bertariella calotis</i>	Goa	Mello and de Meyrelles, 1937a
<i>Hexamitus</i> sp.	Maharashtra	Krishnamurthy and Madre, 1975
<i>Karyolysus jorgei</i>	Goa	de Mello and de Meyrelles, 1937a
<i>Monocercomanas</i> sp. (= <i>Eutrichomastix</i> )	Goa, Maharashtra	de Mello, 1923 Krishnamurthy and Madre, 1975
<i>Monocercomonoides</i> sp.	Maharashtra	Krishnamurthy and Madre, 1975
<i>Proteromonas</i> sp.	Maharashtra	Krishnamurthy and Madre, 1975
<i>Calotes</i> sp. <i>Monocercomonoides mehdii</i>	Aurangabad, Maharashtra	Krishnamurthy and Madre, 1975
<i>Proteromonas</i> sp.	Maharashtra	Krishnamurthy and Madre, 1975
<i>Eublepharus</i> sp. <i>Monocercomonas desh mukhi</i>	Aurangabad, Maharashtra	Krishnamurthy and Deshmukh, 1971
<i>Proteromas</i> sp.	Aurangabad, Maharashtra	Krishnamurthy and Deshmukh, 1971
<i>Ptyctolaemus</i> sp. <i>Isospora rayi</i>	Shillong, Meghalaya	Mandal, 1986
<i>Uromastix hardwickii</i> Gray <i>Hexamastix lacertae</i>	Hyderabad, A.P.	Janakidevi, 1961c
<i>Nyctotherus hardwickii</i>	Hyderabad, A.P.	Janakidevi, 1961d
<i>Proteromonas uromastixi</i>	Bombay, Maharashtra	Janakidevi, 1962c
<i>Lizzard</i> <i>Babesia tropicus</i>	Bareilly, U.P.	Lingard and Innings, 1904; Baldrey, 1911
<i>Entamaoeba invadens</i>	Not mentioned	Kaur and Oberoi, 1987b

<i>Host and parasite</i>	<i>Locality</i>	<i>Reference</i>
Stone Lizard		
<i>Haemogregarina</i> sp.	Barbera, Puri, Orissa	Mandal <i>et al.</i> , 1984
<i>Trypanosoma</i> sp.	Barbera, Puri, Orissa	Mandal <i>et al.</i> , 1984
Family : SCINCIDAE		
<i>Mabuya beddomia</i> Jerdon		
<i>Proteromonas mabuiae</i>	Waltair, A.P.	Saratchandra <i>et al.</i> , 1984
<i>Mabuya carinata</i> (Schneider)		
<i>Haemogregarina</i> sp.	Raiganj, West Dinajpur W.B.	Tiwari and Ray, 1981
<i>Proteromonas warangalensis</i>	Warangal, A.P.	Bhaskar Rao, <i>et al.</i> , 1978
<i>Trupanosoma</i> sp.	Bangaon, 24-Pgs., W.B.	Sinha, 1980
<i>Mabuya dissimilis</i> (Hallowell)		
<i>Monocercomonas sharani</i> (= <i>Eutrichomastix sharani</i> )	Chandigarh, Punjab	Grewal, 1966
<i>Proteromonas sanjivei</i>	Punjab	Grewal, 1966
<i>Mabuya</i> sp.		
<i>Octosporella mabuiae</i>	Calcutta, W.B.	Ray and Raghava- chari, 1942
<i>Eimeria minetti</i> (= <i>Eimeria rabiti</i> )	Mukteswar, U.P.	Ray, Raghavachari and Spare 1942
Family : VARANIDAE		
<i>Varanus hengalensis</i> (Daudin)		
<i>Haemogregarina</i> sp.	Not mentioned	Simond, 1901c
<i>Varanus griseus</i> Daudin		
<i>Opalina pali</i>	Chandigarh, Punjab	Grewal, 1961
<i>Varanus indica</i>		
<i>Chilomastix</i> sp.	Maharashtra	Krishnamurthy and Madre, 1975
<i>Hypotrichomonas</i> <i>venkataramiahii</i>	Warangal, A.P.	Dayakar <i>et al.</i> , 1977
<i>Monocercomonas</i> sp.	Maharashtra	Krishnamurthy and Madre, 1975

<i>Host and parasite</i>	<i>Locality</i>	<i>Reference</i>
<i>Trichomitus</i> sp.	Maharashtra	Krishnamurthy and Madre, 1975
<i>Varanus monitor</i> Linnaeus		
<i>Dobellina rayi</i>		Misra, 1941
<i>Eimeria varani</i>		Kaur and Oberoi, 1987a Bhatia and Chauhan, 1972
<i>Haemogregarina</i> sp.	Not mentioned	Simond, 1901c; Plimmer, 1912a
<i>Varanus</i> sp.		
<i>Monocercomonas varani</i>	Hydrabad, A.P.	Krishnamurthy, 1968b
<i>M.</i> sp.	Hydrabad, A.P.	Krishnamurthy, 1968a
<i>Hypotrichomonas osmaniae</i>	Hydrabad, A.P.	Krishnamurthy, 1967c
<i>Trichomitus batachorum</i>	Hydrabad, A.P.	Krishnamurthy, 1967d
	Suborder : OPHIDIA	
	Family : BOIDAE	
<i>Eryx conicus</i> Schneider (= <i>Boa caniner</i> )		
<i>Eimeria boae</i>	Not mentioned	Prashad, 1963
<i>Haemogregarina cantliei</i>	Madras, Tamil Nadu	Laveran, 1905; Sambon, 1907; Patton, 1908
<i>Eryx Johnii</i> (Russell)		
<i>Haemogregarina</i> sp.	Madras, Tamil Nadu	Patton, 1908
<i>Monocergomonas eryxi</i>	Hydrabad, Andhra Pradesh	Krishnamurthy, 1968b
<i>Trichomitus batrachorum</i>	Hydrabad, A.P.	Krishnamurthy, 1967d
<i>Python molurus</i> Linn.		
<i>Haemogregarina pythonis</i>	Madras, Tamil Nadu	Patton, 1908; Sambon and Seligmann, 1907 Plimmer, 1912b
<i>Eimeria pythonis</i>	Not mentioned	Prashad, 1963

<i>Host and parasite</i>	<i>Locality</i>	<i>Reference</i>
<i>Python</i> sp.		
<i>Pythonella bengalensis</i>	Calcutta, W.B.	Ray and Dasgupta, 1937b
Family : COLUBRIDAE		
<i>Ahaetulla ahaetulla</i> Linn. (= <i>Dendrophis pictus</i> (Gemlin))		
<i>Haemogregarina</i> sp.	Madras, Tamil Nadu	Patton, 1908
<i>Ablabes</i> (= <i>Liopeltis</i> ) <i>Calamaria</i> Boulenger		
<i>Trichomonas</i> sp.	Calcutta, W.B.	Dasgupta, 1927
<i>Atretium schistosum</i> Daudin	Waltair, A.P.	Narasimhamurti and Ahamed, 1975
	Gudivada, A.P.	Banerjee and Sharan, 1981; Narasimhamurti et al., 1982
<i>Chrysopela ornata</i> (shaw)		
<i>Haemogregarina</i> sp.	Madras, Tamil Nadu	Patton, 1909
<i>Dryophis mycterizans</i> (Daudin) (= <i>Passerita mycterizans</i> )		
<i>Haemogregarina</i> sp.	Madras, Tamil Nadu	Patton, 1908
<i>Monocercomonas gopali</i>	Not mentioned	Krishnamurthy, 1967b
<i>Plasmodium passeritae</i>	Goa	de Mello & de Fonseca, 1938
<i>Elaphe</i> (= <i>coluber</i> ) <i>helena</i> Daudin		
<i>Monocercomonas elaphae</i>	Aurangabad, Maharashtra	Krishnamurthy, 1968
<i>Enhydriis enhydriis</i> Schneider		
<i>Caryospora bengalensis</i>	Chakdah, Nadia, W.B.	Mandal, 1967
<i>Eimeria fibrilosa</i>	Chakdah, Nadia, W.B.	Mandal, 1967
<i>Haemogregarina</i> sp.	Chakdah, Nadia, W.B.	Sinha and Dasgupta, 1977
<i>Trypanosoma enhydriis</i>	Chakdah, Nadia, W.B.	Sinha and Mandal, 1967; Mandal, 1978
<i>Lycodon aulicus</i> (Linn.)	Koch Bihar, W.B.	Tiwari and Ray, 1981

<i>Host and parasite</i>	<i>Locality</i>	<i>Reference</i>
<i>Monocercomonas garnhami</i>	Aurangabad, Maharashtra	Krishnamurthy, 1968b
<i>Natrix piscator</i> (Schneider) (= <i>Tropidonotus piscator</i> ) (= <i>Xenochrophis piscator</i> )		
<i>Eimeria gupti</i> (= <i>Eimeria cylindrica</i> )	Calcutta, W.B.	Ray and Dasgupta, 1936a; Bhatia, 1938
<i>E. piscatori</i>	Calcutta, W.B.	Ray and Dasgupta, 1936a
<i>Haemogregarina mirabilis</i>	Koch Bihar, W.B. Chilka Lake, Orissa Madras, Tamil Nadu	Tiwari and Ray, 1981 Mandal <i>et al.</i> , 1984 Plimmer, 1913; Scott, 1926
	Bombay, Maharashtra	Ball, 1958
<i>Isospora dirumpens</i>	Mukteswar, U.P.	Ray and Singh, 1949
<i>Natrix platyceps</i> (Blyth) <i>Isospora dirumpens</i>	Mukteswar, U.P.	Ray and Singh, 1949
<i>Natrix stolata</i> linn. (= <i>Tropidonotus stolata</i> )		
<i>Eimeria stolatae</i>	Calcutta, W.B.	Ray and Dasgupta, 1938
<i>Haemogregarina</i> sp.	Madras, Tamil Nadu	Patton, 1908
	Koch Bihar, W.B.	Tiwari and Ray, 1981
<i>Trypanosoma enhydris</i>	Chakdah, Nadia, W.B.	Mandal, 1976, 1978
<i>Ptyas Karolini</i> (Brandt) (= <i>Coluber Karolini</i> Brandt)		
<i>Haemogregarina</i> sp.	Bombay vicinity, Maharashtra	Ball, 1957
<i>Ptyas mucosus</i> Linn. (= <i>Coluber blumenbachii</i> (Schlegel)) (= <i>Zaocys mucosus</i> (Linn.))		
<i>Anaplasma</i> sp.	Goa	de Mello <i>et al.</i> , 1917
<i>Eimeria dhamini</i>	Not mentioned	Mandal and Mukherjee 1977
<i>E. pytas</i>	Zoological Gargen, U.P.	Prasad, 1963

<i>Host and parasite</i>	<i>Locality</i>	<i>Reference</i>
<i>Ilaemogregarina mirabilis</i>	Waltair, A.P.	Saratchandra, 1979b; 1981c
<i>Ilaemogregarina</i> sp.	Madras, Tamil Nadu	Patton, 1909
<i>Hepatozoon mucosus</i>	Bangaon, 24-Pgs., W.B.	Sinha, 1986; Sinha and Dasgupta, 1978
<i>Ptyas</i> sp. (= <i>Coluber</i> sp.)		
<i>Ilaemogregarina</i> sp.	Not mentioned	Simond, 1901c
	Suborder : OPHIDIA	
	Family : ELAPIDAE	
<i>Bungarus caeruleus</i> Schneider (= <i>B. candidus</i> )		
<i>Ilaemogregarina</i> sp.	Madras, Tamil Nadu	Patton, 1908
<i>Naja hanah</i> (= <i>Naja bungarus</i> (Schleg.))		
<i>Ilaemogregarina</i> sp.	Not mentioned	Plimmer, 1913; Scott, 1926
<i>Naja naja</i> (Linn.) (= <i>N. tripudiens</i> )		
<i>Anaplasma</i> sp.	Goa	de Mello <i>et al.</i> , 1917
<i>Caryospora cobrae</i>	Barddhaman, W.B.	Nandi, 1985
<i>Eimeria najae</i>	Sunderban, W.B.	Ray and Dasgupta, 1936b, Mandal, 1976
<i>Ilaemogregarina najae</i>	Madras, Tamil Nadu	Patton, 1908; Plimmer, 1912; Scott, 1926
<i>Isospora minuta</i>	Calcutta, W.B.	Mitra and Dasgupta, 1937
	Shilong, Meghalaya	Mandal, 1976
<i>Monocercomonas najae</i>	Aurangahad, Maharashtra	Krishnamurthy, 1968b
<i>M.</i> sp.	Maharashtra	Krishnamurthy and Madre, 1975
<i>Trichomonas</i> sp.	Not mentioned	Plimmer, 1912
<i>Naja</i> sp.		
<i>Ilaemogregarina</i> sp.	Not mentioned	Simond, 1901c

<i>Host and parasite</i>	<i>Locality</i>	<i>Reference</i>
Family : VIPERIDAE		
<i>Vipera russelli</i> Shaw		
<i>Haemogregarina</i> sp.	Madras, Tamil Nadu	Patton, 1908; Plimmer, 1912
	Not mentioned	Sen and Ray, 1955
<i>Monocercomonas garnhami</i>	Aurangabad, Maharashtra Maharashtra	Madre and Krishnamurthy, 1976 Krishnamurthy and Madre, 1975
<i>M.</i> sp.	Maharashtra	Krishnamurthy and Madre, 1975
<i>Retortamonas viperae</i>	Aurangabad, Maharashtra	Krishnamurthy and Madre, 1976; Madre and Krishna- murthy, 1976
	Order : CROCODILIA	
	Family : CROCODYLIDAE	
<i>Crocodylus porosus</i> Schneider		
<i>Haemogregarina hankini</i>	Not mentioned	Simand, 1901c
<i>Gavialis gangeticus</i> Gmelin		
<i>Eimeria Kermorganti</i>	River Ganges	Simond, 1901d
<i>Haemogregarina hankini</i>	Jamuna River, U.P.	Simond, 1901b

### SUMMARY

A catalogue of the protozoans recorded from Indian reptiles is provided herein. This catalogue deals with the 52 reptilian species and subspecies in addition to 10 unnamed hosts while a total of 126 protozoan species along with 55 unnamed ones comprising of 19 families are reported from the abovesaid hosts.

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