

(Tatera indica Hardwicke, 1807)

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(Tatera indica Hardwicke, 1807)

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T

(PCA)

(MANOVA)

T. indica

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(Tatera indica Hardwicke, 1807)

Goyal &)

(Gosh, 1993

(Yiğit *et al.*, 2001)

(Harrison & Bates, 1991)

(Nowak & Paradiso, 1983 Goyal & Ghosh, 1993)

Khaje &)

Meshkani, 2010; Ashrafzadeh *et al.*, 2007; Yiğit
et al., 2001; Harrison & Bates, 1991; Etemad,
(1976

Corbet, 1978; Corbet & hill, 1991;)

Harrison & Bates, 1991; Alderton, 1996; Wilson
(& Reeder, 2005

Lay,)

(Misonne, 1959 1967

Khaje & Meshkani, 2010;)

Mirshamsi *et al.*, 2007; Darvish *et al.*, 2006;
Meshkani Khaje (Ashrafzadeh *et al.*, 2007
(2010)

(Molur *et al.*, 2005)

(2008) IUCN

T. indica

(Kryštufek *et al.*, 2008)

(LC)

(2007)

Mirshamsi

Molur *et*)

(*al.*, 2005

(Yiğit *et al.*, 2001)

T. indica (1991) Bates Harrison

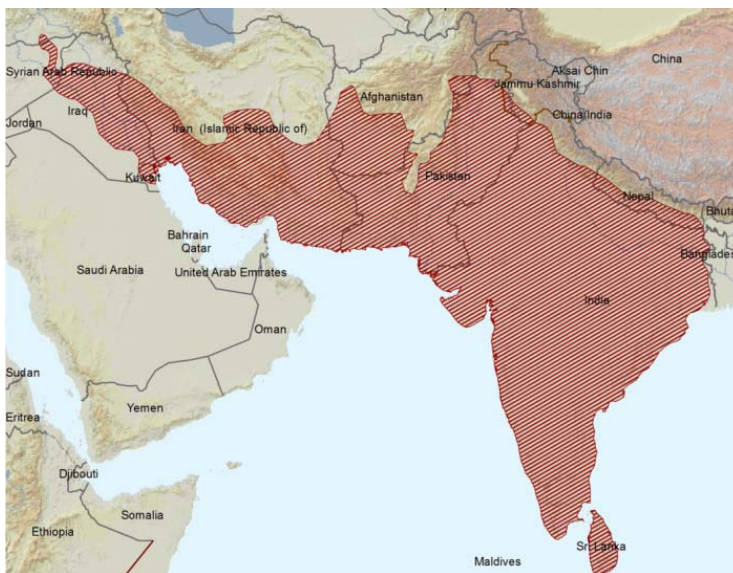
Mumtaz,)

(Rana *et al.*, 1970 1989

¹ Indian Gerbil

² Least Concern

T. indica



(Kryštufek et al., 2008) *T. indica*

(*Amygdalus scoparia*) ()
 (*Juniperus excelsa*) (*Pistacia atlantica*)
 (*Acacia* spp.) (*Prosopis* spp.)
 (*Convolvulus* spp.) (*Euphorbia* spp.) .()

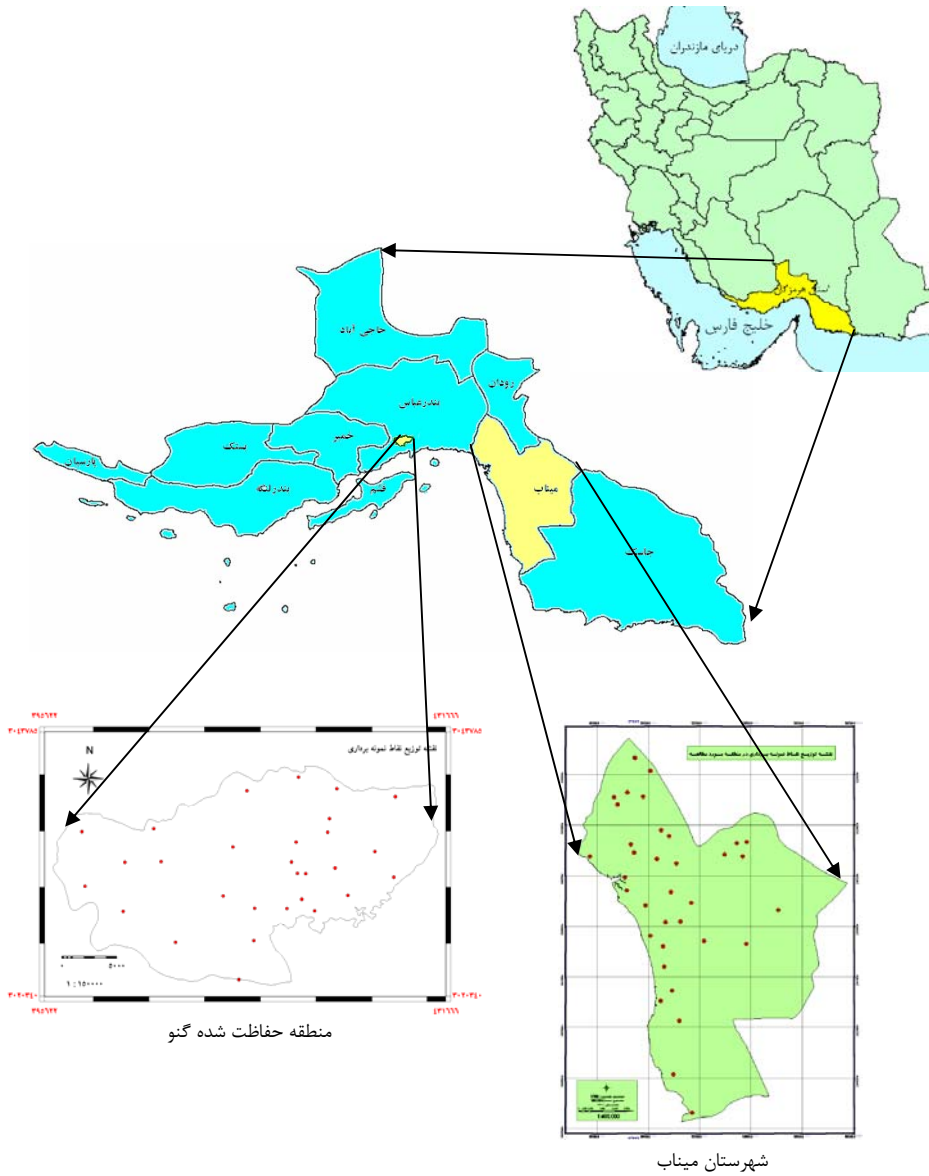
(Nadjafi Tireh –Shabankareh et al., 2007)

◦ / " ◦ / "
 ◦ / " ◦ / "

Haloxylon sp. *Hammada* sp. *Salsola* sp.
Convolvulus *Cymbopogon* sp. *Zygophyllum* sp.

Ashrafzadeh et al., 2010; Ashrafzadeh et al.,)
 .(2007; Zehzad & Madjnoonian, 1997
)

(*Haloxylon ommoderdron*) (sp. *Haloxylon* sp. sp.
(*Salsola* sp.) (*Zygophyllum eurypterum*) (*Euphorbia larica*)
Ziziphus spina -) (*Calotropis procera*)
Acacia) (*Prosopis* spp.) (*christi*)



() (W_{gr})
 (OL) :
 (ZW) (CL)
 (CW) (LW) × ×)
 (LD) (LN)) ()
 (LPF) (× × × ×)
 (WTB) (LTB)
 (UCH)
 (LCH)
 (WR) (HS)
 (LM)

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Mirshamsi et al., 2007 Khaje & Meshkani, 2010)
 Moradi & Kivanc, 2003 Ashrafzadeh et al., 2007
 () (YiĜit et al., 2001

Lee, 1997; Cunningham & Moors,)
 (1987

Excel SPSS 11.5

Harrison
 (1976) Etemad (1978) Corbet (1991) Bates

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Moradi & Kivanc, 2003 Mirshamsi et al., 2007)
 (Momenzadeh et al., 2001

(HBL) :
 (HFL) (EL) (TL)

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⁴ Kolmogorov- Smironov
⁵ Independent Sample T-Test

¹ Sherman Trap
² Locally Made Trap
³ Havahart Trap

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Acacia-)

Hammada-)

(Ziziphus-Prosopis

(Salsola-Gymnocarpus

Khaje & Meshkani, 2010; Ashrafzadeh et al.,)

(2007

T. indica

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(MANOVA)

(PCA)

T

(TL)

(HBL)

(EL)

T. indica

(p<0.01 p<0.05)

(HFL)

(W_{gr})

(p>0.05)

(:)

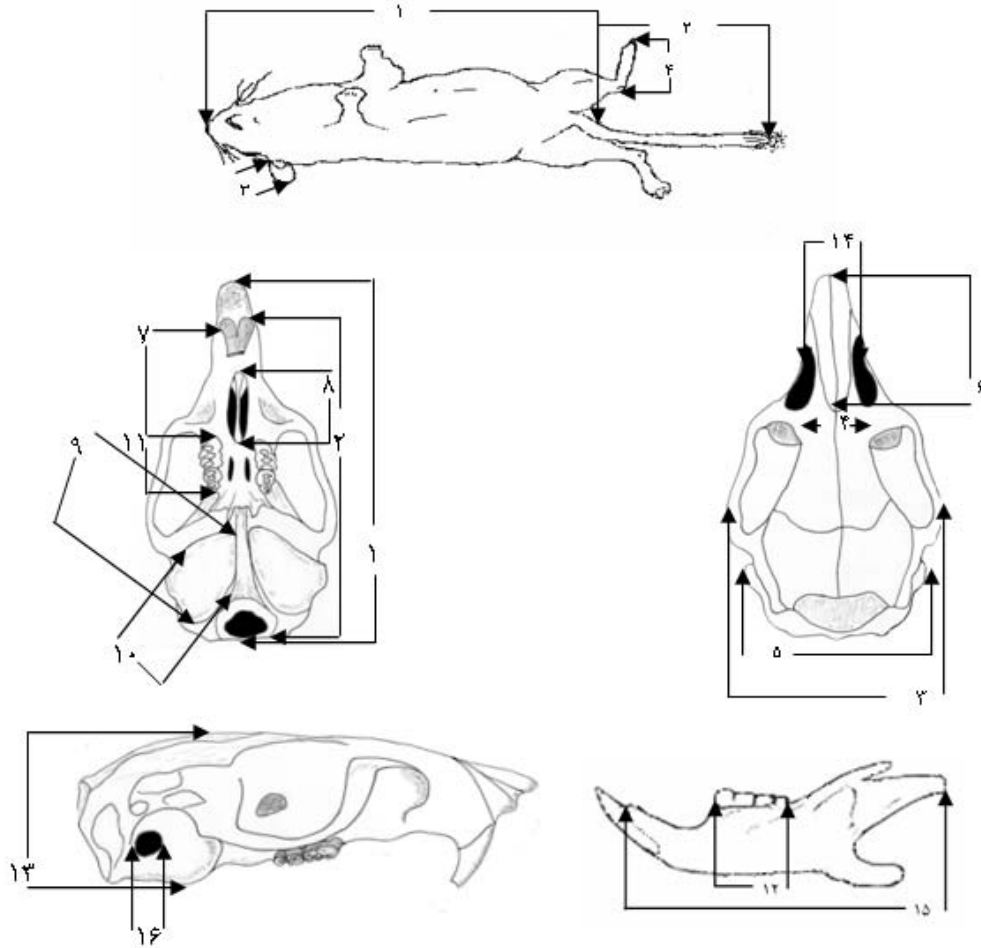
CL OL

WR WTB LTB LPF LD CW LW ZW

(p<0.001 p<0.01 p<0.05)

LM HS LCH UCH LN

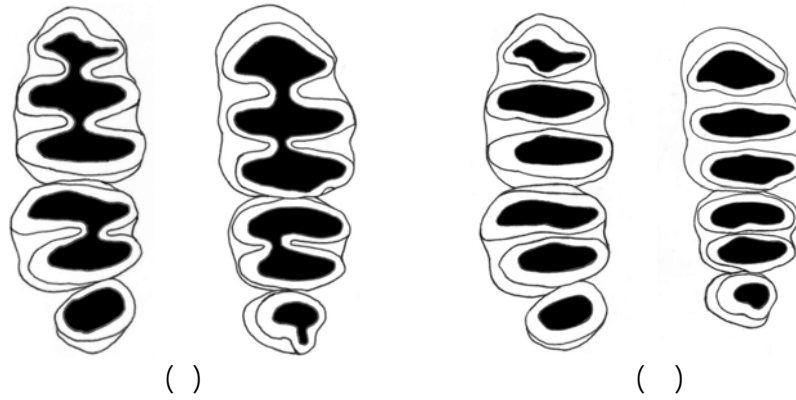
(p>0.05)



(*T. indica*)



() *T. indica*



T. indica

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T. indica

MANOVA

(. $p < 0.001$)

LM CL

()

(HFL/HBL)

(. $p < 0.01$)

EL/HBL W/HBL TL/HBL

()

($p > 0.05$)

HFL/HBL W/HBL TL/HBL

EL/HBL

CW/HBL LW/HBL ZW/HBL CL/HBL

WTB/HBL LTB/HBL LD/HBL LN/HBL

WR/HB HS/HBL LCH/HBL UCH/HBL

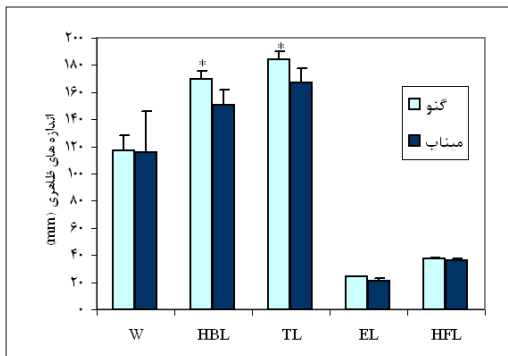
LM/HBL

(. $p < 0.001$ $p < 0.01$ $p < 0.05$)

LPF/HBL OL/HBL

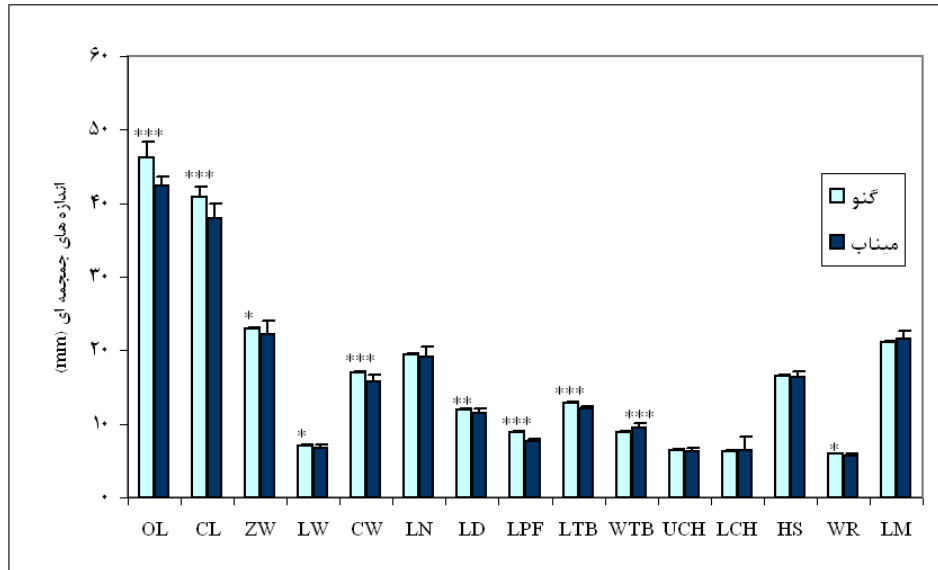
($p > 0.05$)

()

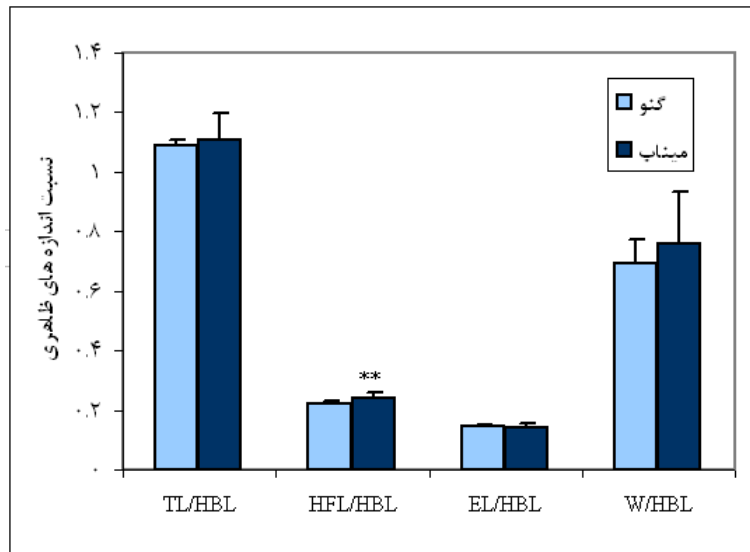


T. indica

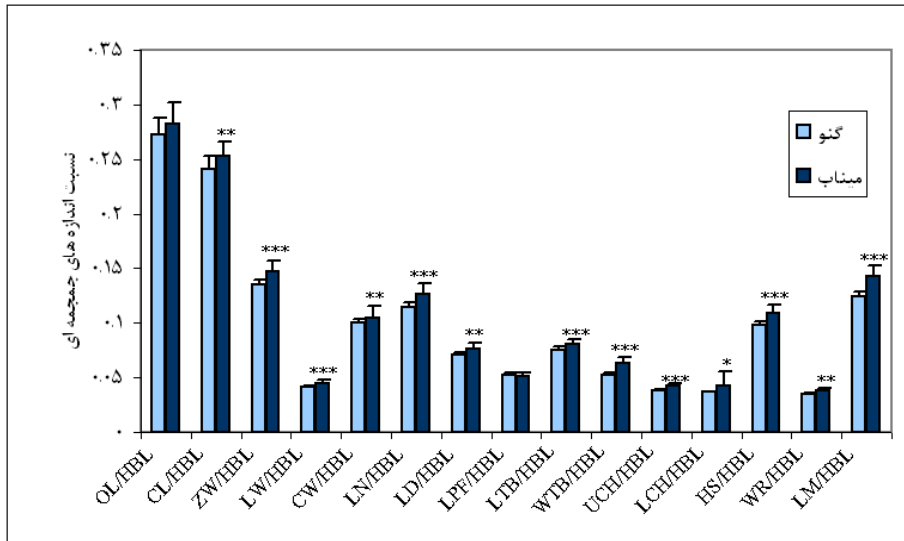
LPF/HBL



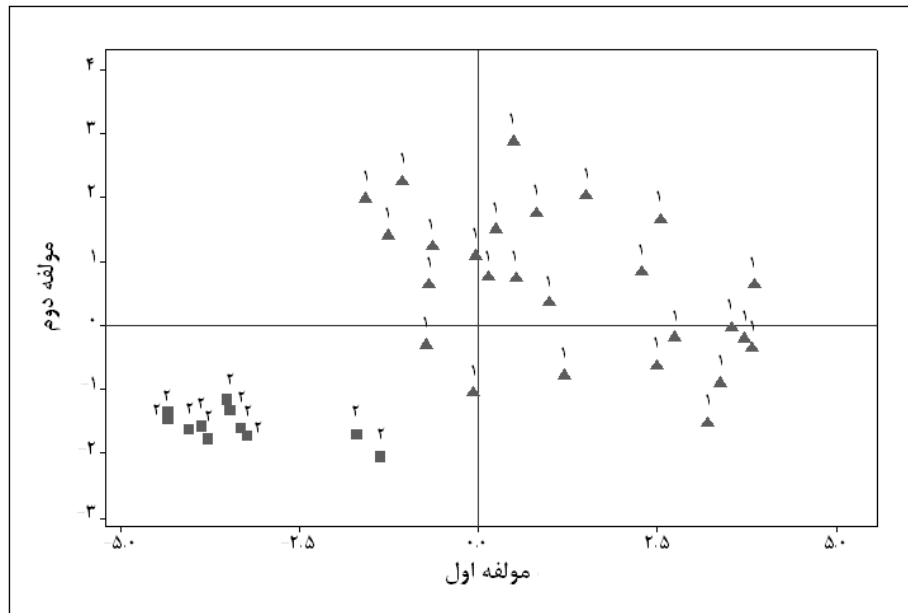
T. indica



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Khaje & Meshkani,)

2010; Harrison & Bates, 1991; Etemad, 1976;

(*T. indica*)

(Misonne, 1959

(1959) Misonne (1967) Lay

(2001)

Yigit

(2005)

Molur

- ()
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(/ :
- (Yigit *et al.*, 2001) Khaje & Meshkani, 2010;)
Ashrafzadeh *et al.*, 2007; Yiğit *et al.*, 2001;
() Harrison & Bates, 1991; Etemad, 1976; Misonne,
(1959
(Mirshamsi *et al.*, 2007) () *T. indica*
Khaje
(Mirshamsi *et al.*, 2007) () (2010) Meshkani
(2010) Meshkani Khaje ()
(2007) Mirshamsi ()
T. indica ()

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Intraspecific Variations Within *Tatera indica* Hardwicke, 1807 (Rodentia: Muridae) Populations in Hormozgan Province, Iran

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Abstract

In this study, 52 specimens of adult Indian Gerbil (*Tatera indica*) were collected by live traps (Sherman traps, Havahart Traps and Locally made traps) from range of different habitats of two localities, Geno Protected Area (or Geno Biosphere Reserve) and Minab County, Hormozgan Province. At first, external, cranial and dental characters were measured and then the ratio of measured characters to head, and body lengths were calculated. All measurements and ratios were represented by the descriptive statistics. The results of Independent Sample T-Test showed that there are no significant differences between sexes. Furthermore, in order to show variation between samples and the significance of external and cranial variables, Independent Sample T-test was performed. Results of T-test showed that morphometric characteristics of the Indian gerbil populations in these regions are slightly different. Moreover, analysis showed that in Geno protected area population, 13 from 20 characters are significantly different than those in Minab population. The results from the PCA and MANOVA served to differentiate populations from mentioned regions based on the morphometric characteristics. In general, findings of the present study confirm the presence of significant morphological differences among populations of two studied regions.

Keywords: *Tatera indica*, Morphometric differences, Minab, Geno protected area, Hormozgan province.