

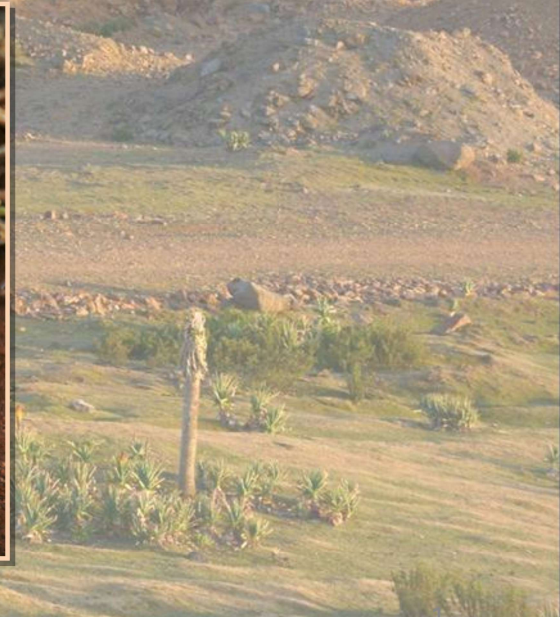


Генетическое разнообразие голового землекопа (*Heterocephalus glaber*)



Землемерова Е.Д., Костин Д.С., Мартынов А.А., Громов А.Р., Лавренченко Л.А.

Лаборатория микроэволюции млекопитающих



Genome sequencing reveals insights into physiology and longevity of the naked mole rat

Eun Bae Kim^{1*}, Xiaodong Fang^{2*}, Alexey A. Fushan^{1*}, Zhiyong Huang^{2*}, Alexei V. Lobanov³, Lijuan Han², Stefano M. Marino³, Xiaoqing Sun², Anton A. Turanov³, Pengcheng Yang², Sun Hee Yim³, Xiang Zhao², Marina V. Kasaikina³, Nina Stoletzki³, Chunfang Peng², Paz Polak³, Zhiqiang Xiong², Adam Kiezun³, Yabing Zhu², Yuanxin Chen², Gregor V. Kravkov^{3,4}, Qiang Zhang²

Adaptations to a Subterranean Environment and Longevity Revealed by the Analysis of Mole Rat Genomes

Xiaodong Fang,^{1,2,10} Inge Seim,^{3,4,10} Zhiyong Huang,¹ Maxim V. Gerashchenko,³ Zhiqiang Xiong,² Yabing Zhu,¹ Alexei V. Lobanov,³ Dingding Fan,¹ Sun Hee Yim,³ Xiaoming Yao,¹ Siming Ma,³ Lan

NEOTENY, PROLONGATION OF YOUTH: FROM NAKED MOLE RATS TO "NAKED APES" (HUMANS)

Vladimir P. Skulachev, Susanne Holtze, Mikhail Y. Vyssokikh, Lora E. B. ...
Maxim V. Skulachev, Alexander V. Markov, Thomas B. Hildebrandt, and

Family Wide Molecular Adaptations to Underground Life in African Mole-Rats Revealed by Phylogenomic Analysis

Kalina T.J. Davies,^{*} Nigel C. Bennett,² Georgia Tsagkogeorga,¹ Stephen J. Rossiter,^{*} and Christopher G. Faulkes^{*}

Opportunities for new insight into aging from the naked mole-rat and other non-traditional models

Non-traditional model organisms can facilitate discovery when their natural properties provide insight into biological mechanisms that are invariant across standard-use lab species. Long-lived naked mole-rats provide insights for healthy aging.

Rochelle Buffenstein and J. Graham Ruby

Resistance to experimental tumorigenesis in cells of a long-lived mammal, the naked mole-rat (*Heterocephalus glaber*)



BIOLOGICAL
REVIEWS

Cambridge
Philosophical Society

Biol. Rev. (2020), pp. 000–000.
doi: 10.1111/brev.12660

Surprisingly long survival of premature conclusions about naked mole-rat biology

Stan Braude^{1†*}, Susanne Holtze^{2†*}, Sabine Begall³, Julia Brenmoehl⁴, Hynek Burda⁵, Philip Dammann^{3,6}, Delphine del Marmol⁷, Ekaterina Gorshkova^{8,9}, Yoshiyuki Henning^{6,10}, Andreas Hoefflich¹¹, Annika Höhn^{12,13}, Tobias Jung¹², Dania Hamo^{14,15}, Arne Sahn¹⁶, Yury Shebzukhov^{8,14}, Radim Šumbera¹⁷, 2

Работа выполнена при финансовой поддержке РНФ (проект № 18-74-00114)

ГЕНЕТИКА, 2020, том 56, № 3, с. 355–360

КРАТКИЕ
СООБЩЕНИЯ

УДК 599.324.11

ПРЕДВАРИТЕЛЬНЫЕ СВЕДЕНИЯ ПО ФИЛОГЕОГРАФИИ ГОЛОГО ЗЕМЛЕКОПА *Heterocephalus glaber* (Rodentia: Heterocephalidae)

© 2020 г. Е. Д. Землемерова¹ *, Д. С. Костин¹, А. Р. Громов¹,
А. А. Мартынов¹, Д. Ю. Александров¹, Л. А. Лавренченко¹ **

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ORIGINAL ARTICLE

JOURNAL OF
ZOOLOGICAL SYSTEMATICS
AND EVOLUTIONARY RESEARCH

WILEY

Genetic diversity of the naked mole-rat (*Heterocephalus glaber*)

Elena D. Zemlemerova¹  | Danila S. Kostin¹  | Vladimir S. Lebedev² |
Aleksey A. Martynov¹ | Anton R. Gromov¹ | Dmitry Yu. Alexandrov¹ |
Leonid A. Lavrenchenko¹ 

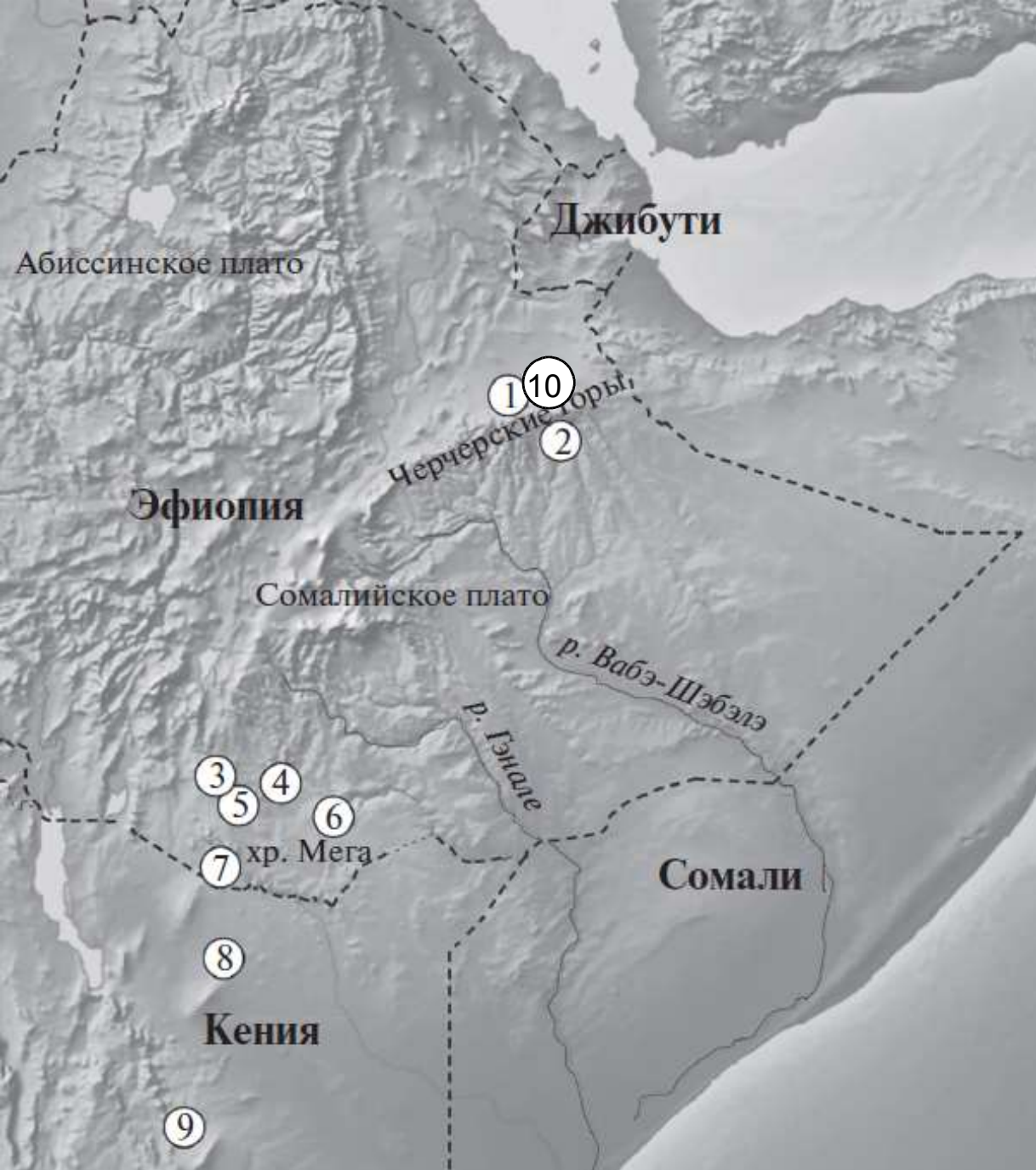
ГЕНЕТИКА, 2020, том 56, № 8, с. 964–968

КРАТКИЕ
СООБЩЕНИЯ

УДК 599.324.11

О МОНОМОРФИЗМЕ КАРИОТИПА ГОЛОГО ЗЕМЛЕКОПА *Heterocephalus glaber* (Rodentia: Heterocephalidae)

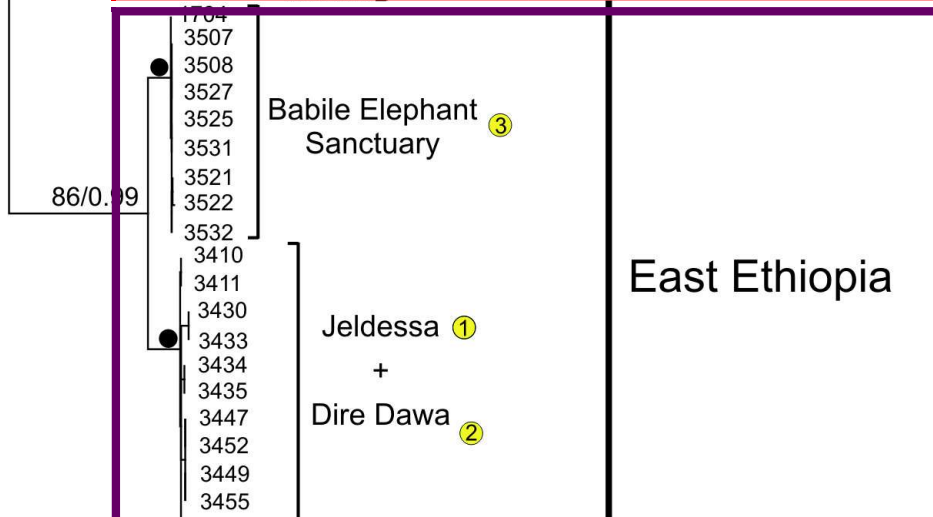
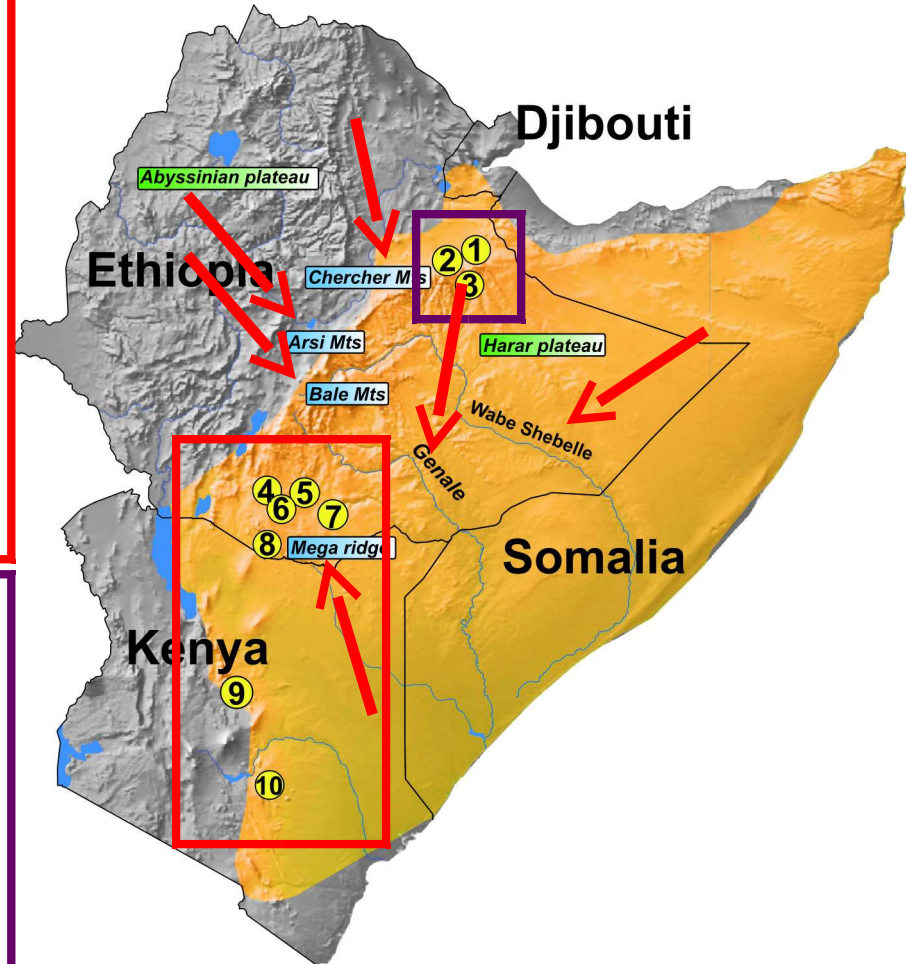
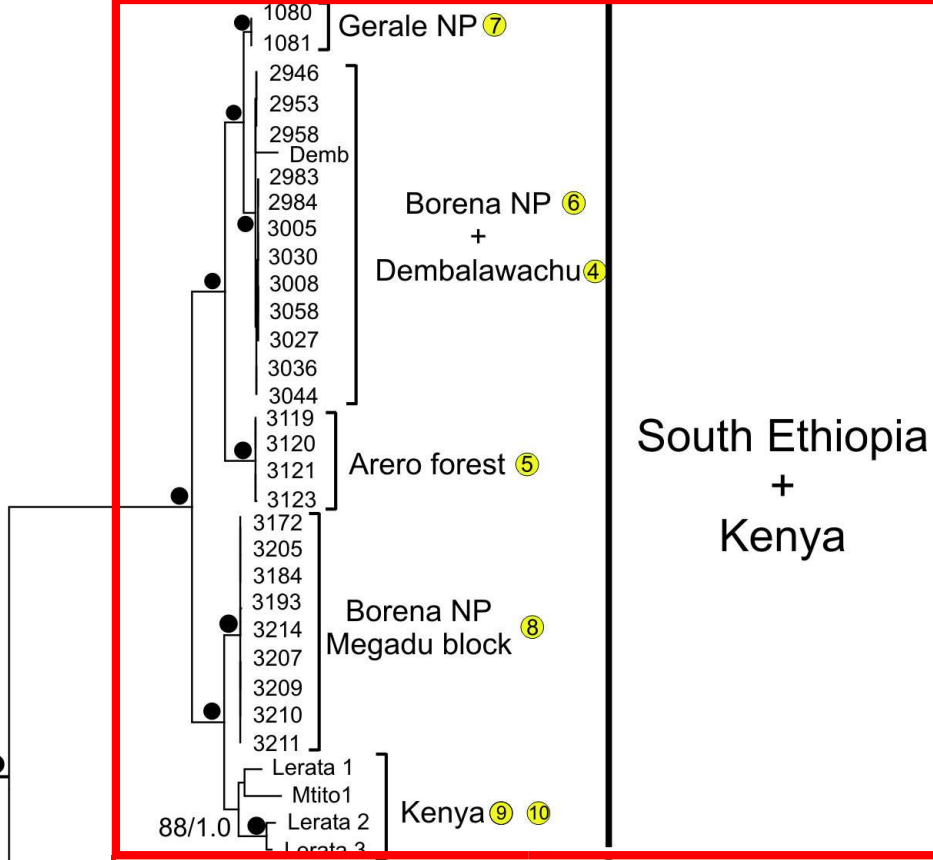
125 образцов из 25 колоний



- 1 - Дыре-Дауа
- 2 - Слоновый заказник Бабиле
- 3 - Дембалавачу
- 4 - Ареро
- 5 - НП Борена
- 6 - НП Герале
- 7 - НП Борена, блок Мегаду
- 8 - Лерата
- 9 - Мтито Андеи
- 10 - Джельдесса



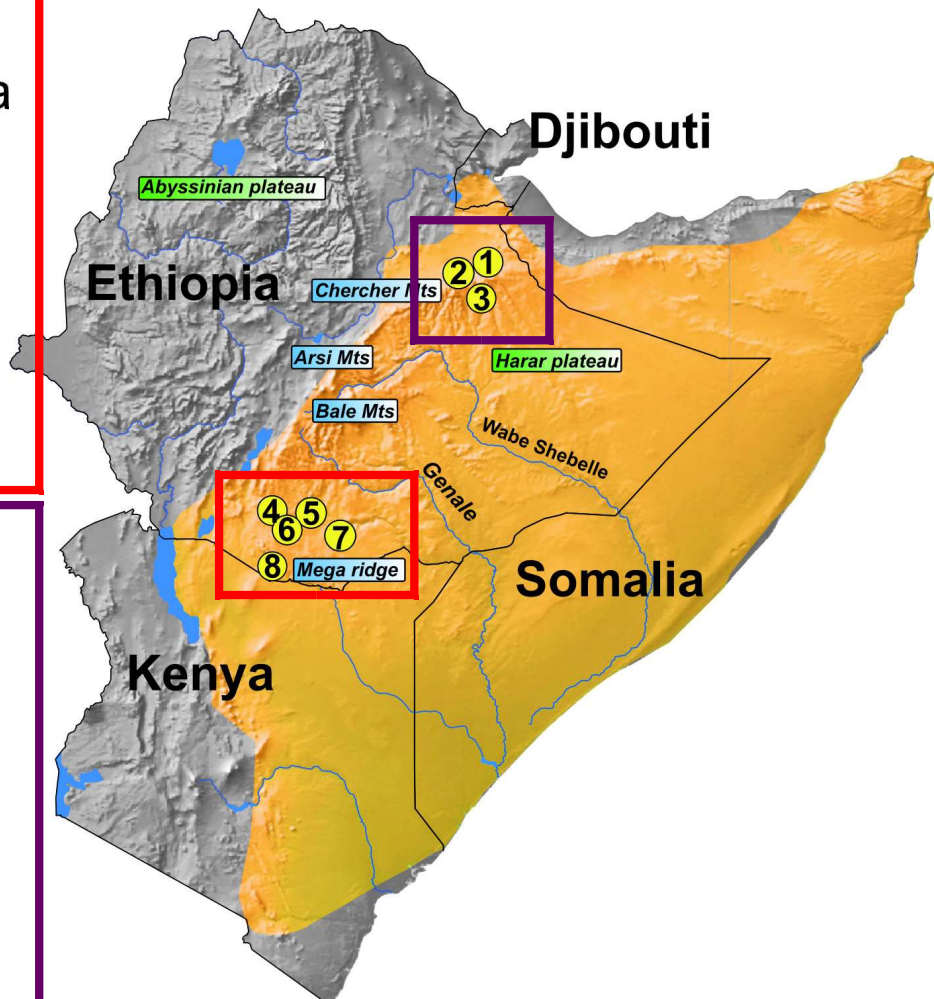
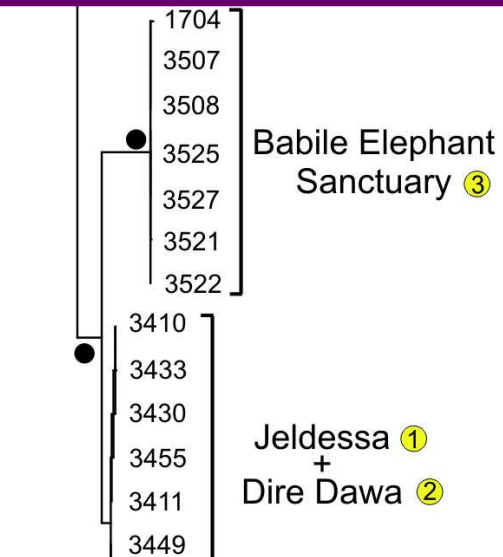
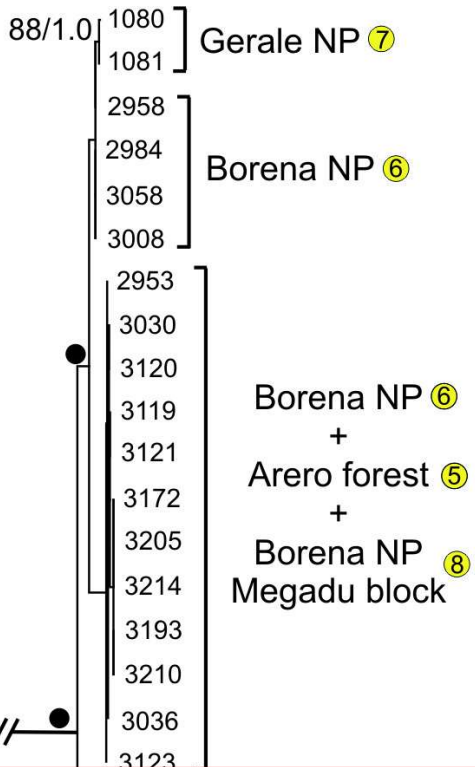
Cytb+D-loop 2139 п.н.



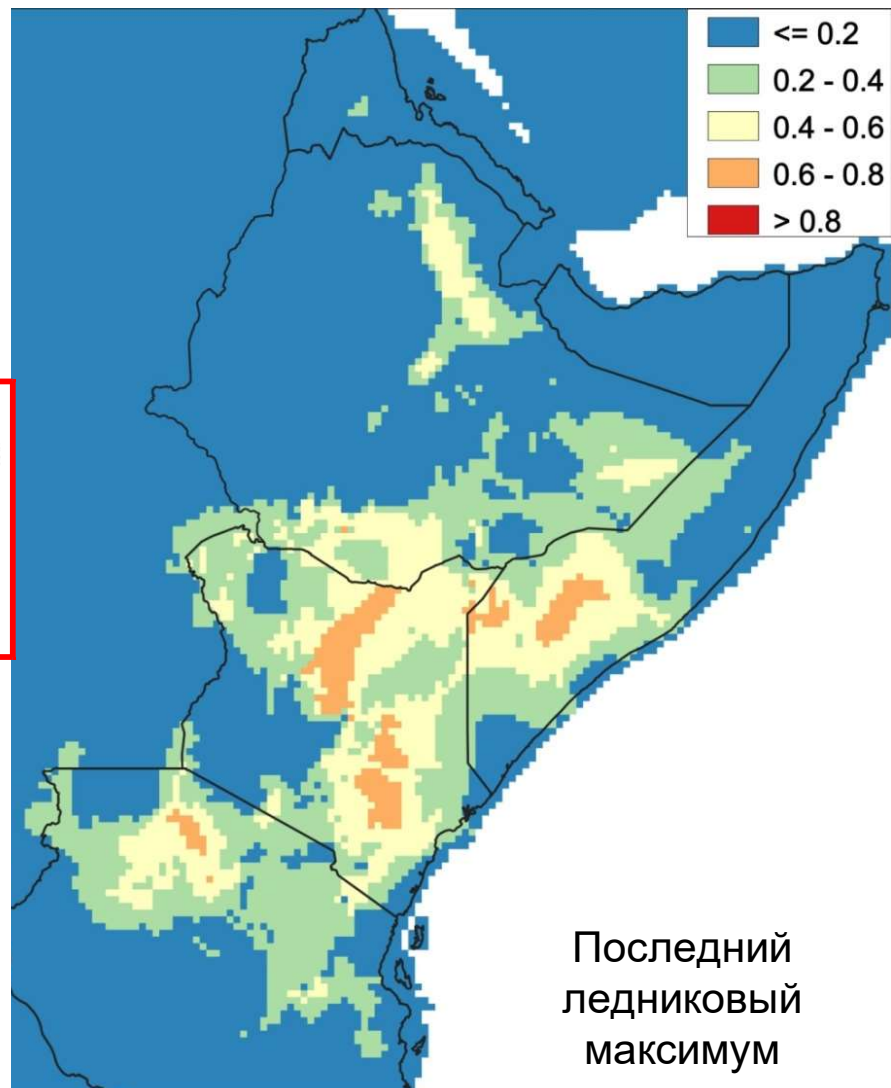
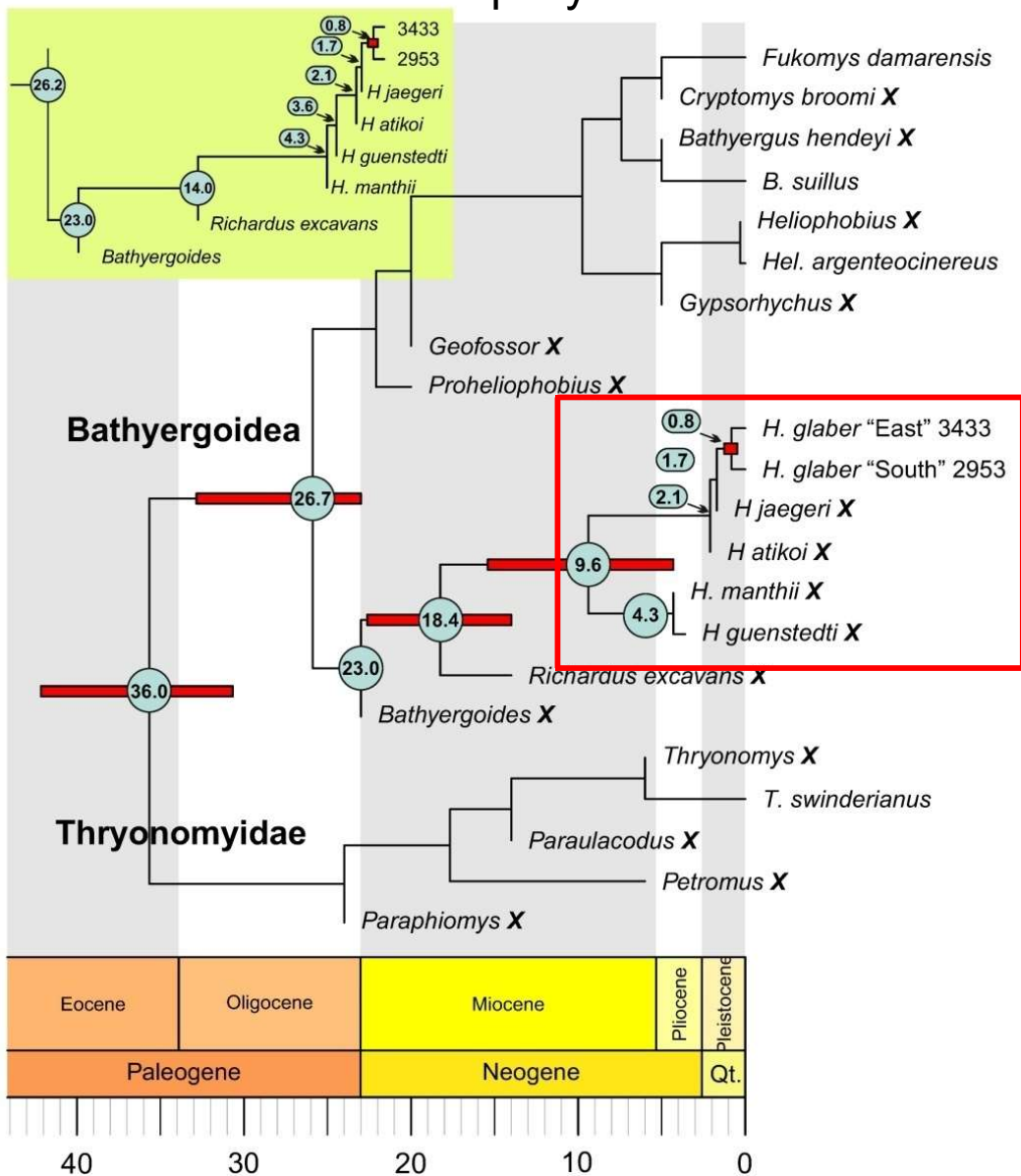
A2ab+BRCA1+GHR+RAG1+vWF+IRBP
6273 п.н.

South Ethiopia

East Ethiopia



результаты экологического моделирования

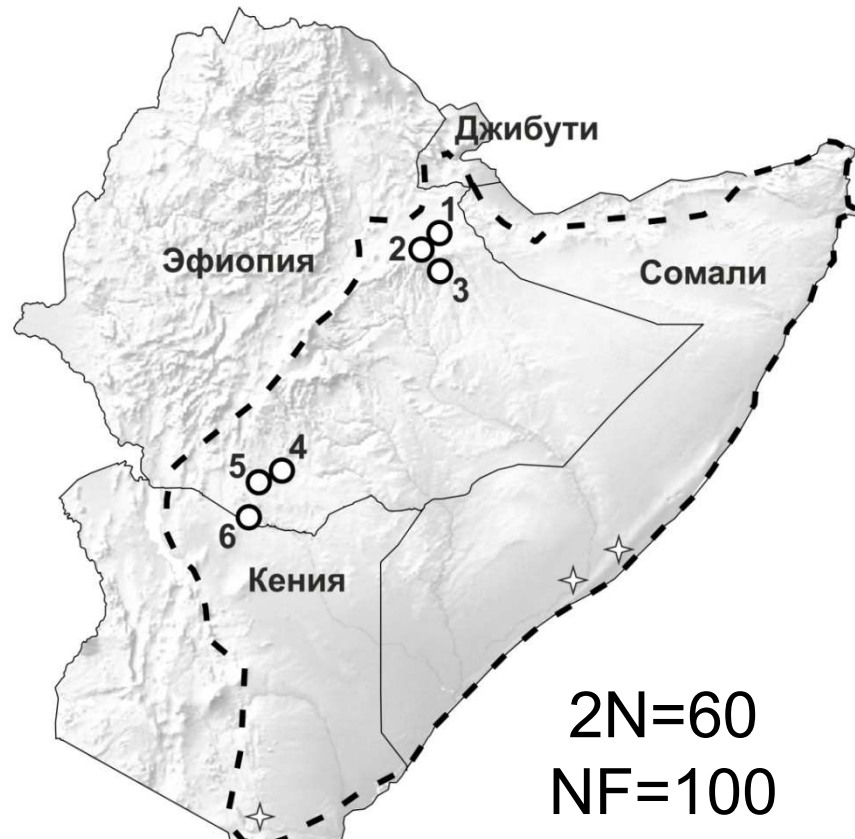


УДК 599.324.11

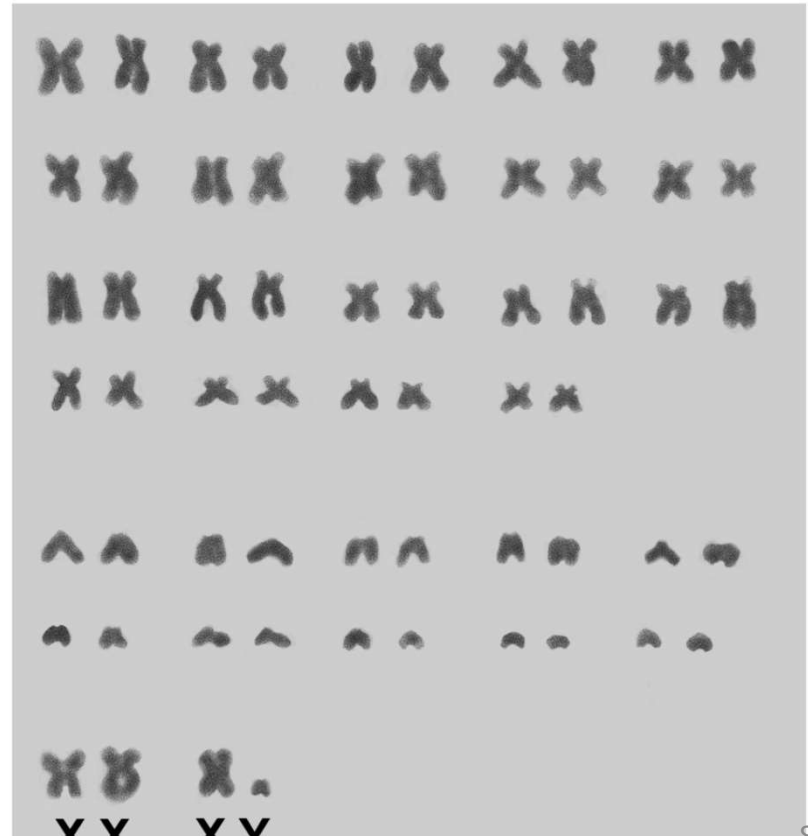
О МОНОМОРФИЗМЕ КАРИОТИПА ГОЛОГО ЗЕМЛЕКОПА
Heterocephalus glaber (Rodentia: Heterocephalidae)

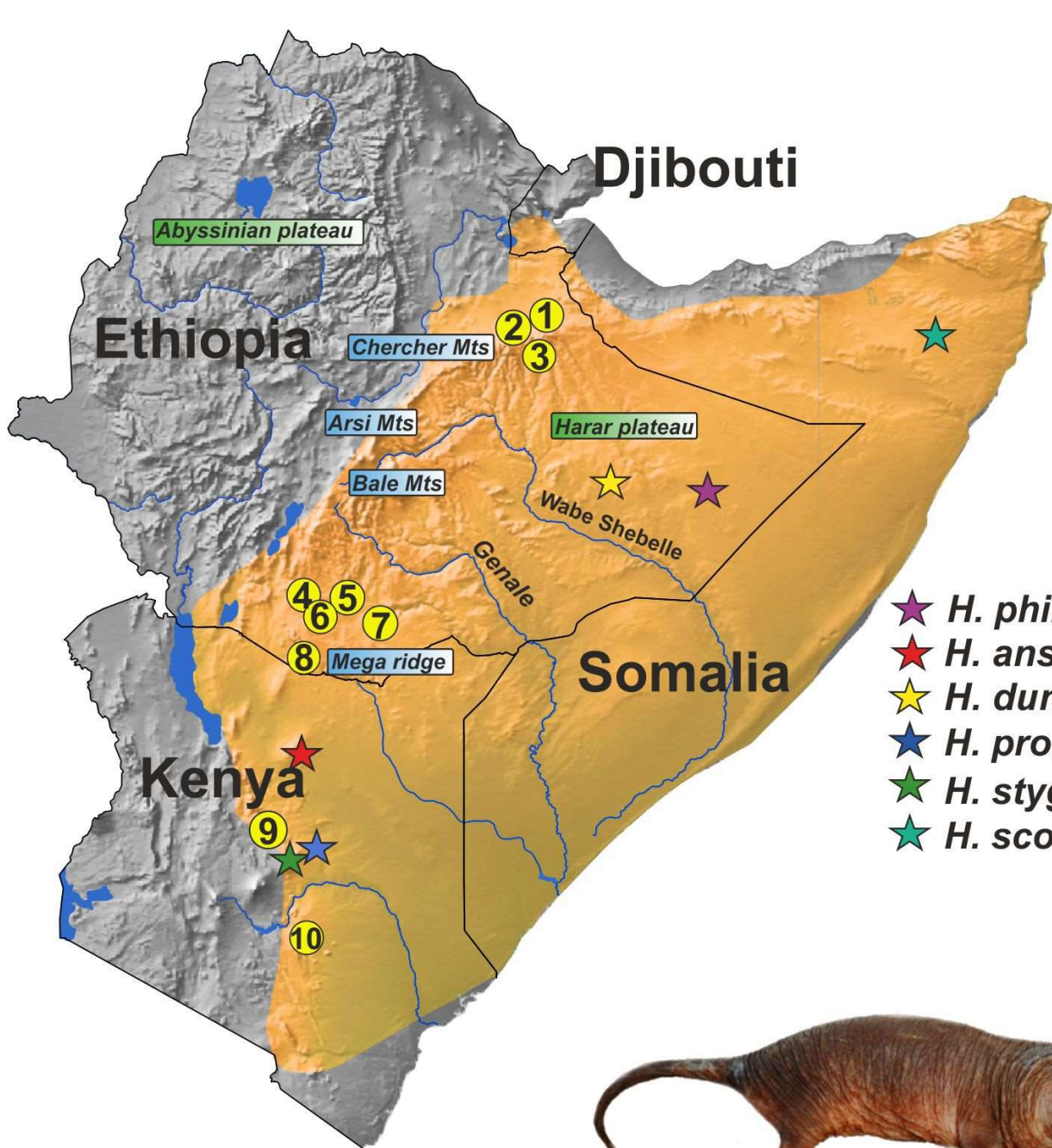
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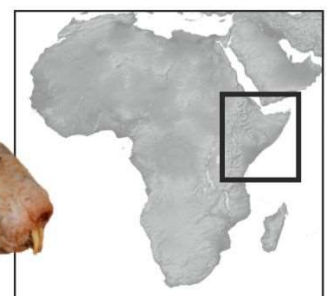
$2N=60$
 $NF=100$





- ① Jeldessa
- ② Dire Dawa
- ③ Babile Elephant Sanctuary
- ④ Dembalawachu
- ⑤ Arero forest
- ⑥ Borena NP
- ⑦ Gerale NP
- ⑧ Borena NP Megadu block
- ⑨ Kenya, Lerata
- ⑩ Kenya, Mtito

- ★ *H. phillipsi* Thomas, 1885
- ★ *H. ansorgei* Thomas, 1903
- ★ *H. dunni* Thomas, 1909
- ★ *H. progreiens* Lönnberg, 1911
- ★ *H. stygius* Allen, 1912
- ★ *H. scorteccii* de Beaux, 1934



Спасибо за внимание

