



***Reports of 96%
genomic similarity
between viruses are
misleading without
proper perspective.***

***Humans are at least
96% related to
chimpanzees but
remain vastly different.***



T.S. MIKKELSEN
2005



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Promises to predict future pandemics misdirect billions of dollars to virus hunting that is biased against bats and may better be invested in other public health priorities.



M.D. TUTTLE

2020

Y.Z. ZHANG, E.C. HOLMES

2020

E.C. HOLMES, A. RAMBAUT, K.G. ANDERSEN

2018



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Bats have an undeniable history of living safely with humans without causing disease outbreaks.



M.D. TUTTLE

2013



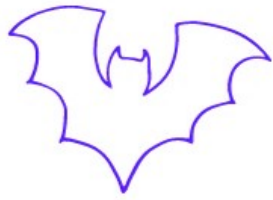
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Fear of bats leads to intolerance and killing.



M. LU ET AL

2021

M.D. TUTTLE

2017



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***Asking people to
conserve bats because
they are beneficial,
while failing to counter
exaggerated fear,
is unlikely to improve
conservation success.***

Would you protect something you hate?



M. LU ET AL
2021



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***There is a long
history of greatly
exaggerated,
often false,
disease claims
against bats.***



M.D. TUTTLE

2017



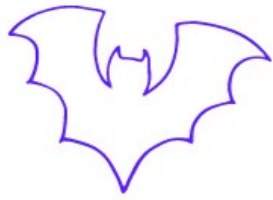
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***There are
no confirmed
cases of
COVID-19
(SARS-CoV-2)
transmission from
bats to humans.***



B. DO VALE
2021



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***COVID-19 (SARS-CoV-2),
Ebola, SARS, and MERS
have not been found in a bat,
nor proven to be transmitted
from a bat to a human,
despite frequent speculation
and intense searching.***



K. KUPFERSCHMIDT

2021

K. XIAO ET AL

2020

E.I. AZHAR ET AL

2014

R.A. KOCK ET AL

2019

P.A. RACEY, B. FENTON, S. MUBAREKA, N.

SIMMONS, M.D. TUTTLE

2018



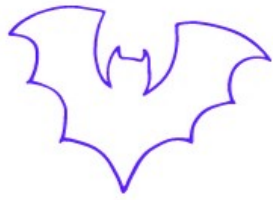
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***Bats harbor
no more
viruses
than other
animals.***



N. MOLLENTZE & D.G. STREICKER

2020



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***Claims of disease
from bats are
often based on
poorly supported
speculation.***



J. WENZEL

2020

S.J. PUECHMAILLE

2020



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