

Publikationer

Aerodynamics and motor control of ultrasonic vocalizations for social communication in mice and rats

Håkansson, J., Jiang, W., Xue, Q., Zheng, X., Ding, M., Agarwal, A. A. & Elemans, C. P. H., dec. 2022, I: *BMC Biology*. 20, 1, 15 s., 3.

One-to-one innervation of vocal muscles allows precise control of birdsong

Adam, I., Maxwell, A., Rößler, H., Hansen, E. B., Vellema, M., Brewer, J. & Elemans, C. P. H., 26. jul. 2021, I: *Current Biology*. 31, 14, s. 3115-3124.e5

How Loud Can you go? Physical and Physiological Constraints to Producing High Sound Pressures in Animal Vocalizations

Jakobsen, L., Christensen-Dalsgaard, J., Juhl, P. M. & Elemans, C. P. H., maj 2021, I: *Frontiers in Ecology and Evolution*. 9, 15 s., 657254.

Syringeal vocal folds do not have a voice in zebra finch vocal development

Maxwell, A., Adam, I., Larsen, P. S., Sørensen, P. G. & Elemans, C. P. H., 19. mar. 2021, I: *Scientific Reports*. 11, 18 s., 6469.

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Adam, I. & Elemans, C. P. H., 26. aug. 2020, I: *Journal of Neuroscience*. 40, 35, s. 6722-6731

High-fidelity continuum modeling predicts avian voiced sound production

Jiang, W., Rasmussen, J. H., Xue, Q., Ding, M., Zheng, X. & Elemans, C. P. H., 3. mar. 2020, I: *Proceedings of the National Academy of Sciences of the United States of America*. 117, 9, s. 4718-4723 6 s.

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Quantifying syringeal dynamics in vitro using electroglottography

Rasmussen, J. H., Herbst, C. T. & Elemans, C. P. H., 23. aug. 2018, I: *The Journal of Experimental Biology*. 221, 16, s. 1-12

High-fidelity fluid-structure interaction modeling of bird vocalization in syrinx

Jiang, W., Xue, Q., Zheng, X., Rasmussen, J. H. & Elemans, C. P. H., 2018, *2018 AIAA Aerospace Sciences Meeting*. American Institute of Aeronautics and Astronautics Inc. (AIAA), 2018-0578

The last common ancestor of animals lacked the HIF pathway and respired in low-oxygen environments

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Plasticity in mitochondrial cristae density allows metabolic capacity modulation in human skeletal muscle

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Multifunctional and context-dependent control of vocal acoustics by individual muscles

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The singer and the song: The neuromechanics of avian sound production

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Superfast muscles are devoid of glycogen particles in the intramyofibrillar space

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Superfast muscles are devoid of glycogen particles in the intramyofibrillar space

Nielsen, J., Ørtenblad, N., Frandsen, U., Schrøder, H. D. & Elemans, C., 2012.

Superfast muscles set maximum call rate in echolocating bats

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Smooth operator: Avoidance of subharmonic bifurcations through mechanical mechanisms simplifies song motor control in adult zebra finches

Elemans, C., Laje, R., Mindlin, G. & Goller, F., 2010, I: Journal of Neuroscience. 30, s. 13246 –13253

Amplitude and frequency modulation control of sound production in a mechanical model of the avian syrinx

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Superfast muscles control sound production in songbirds

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Parasitic inhibition of cell suicide facilitates symbiosis

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Syringeal muscles fit the trill in ring doves (*Streptopelia risoria* L.)

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Superfast muscles control dove's trill

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Presseklip

And forbløffer forskere ved at imitere bandeord og lyden af smækkende dør

Coen Elemans

28/09/2021

1 Mediebidrag

Australsk and forbløffer forskere ved at imitere bandeord og lyden af en dør, der smækker

Coen Elemans

28/09/2021

1 Mediebidrag

DR1 TV Avisen 18.30

Coen Elemans

09/10/2019

1 Mediebidrag

Forvildet hval gav unikke forskningsmuligheder

Coen Elemans

21/12/2018

1 Mediebidrag

Fugle og mennesker synger på samme måde

Coen Elemans

30/12/2015

1 element af Mediedækning

Hør selv! And har lært at imitere bandeord og en smækkende dør

Coen Elemans

27/09/2021

1 Mediebidrag

HUGORMEN ER VÅGNET

Coen Elemans

25/04/2021

1 Mediebidrag

Hvalens strubehoved til SDU

Coen Elemans

13/12/2018

1 Mediebidrag

Kan man lave lyd med en død hval? Pukkelhvalen fra Skagen skæres op

Coen Elemans

09/10/2019

1 Mediebidrag

Kontrolleret fuglesang

Coen Elemans

18/08/2021

1 Mediebidrag

mice sing

Coen Elemans

10/10/2016

1 element af Mediedækning

Mus synger deres kærlighedssange i ultralyd

Coen Elemans

04/11/2016

1 element af Mediedækning

Nu bliver sejhvalen skåret op - én ting springer i øjnene

Coen Elemans

11/12/2018

1 Mediebidrag

Ny opdagelse: Fugle og mennesker synger på samme måde

Coen Elemans

29/11/2015

1 element af Mediedækning

Pas godt på hugormen, den er vågnet

Coen Elemans

24/04/2021

1 Mediebidrag

PRM / Sangfugle og computermodeller skal skabe øget forståelse af, hvordan mennesker producerer stemme og udvikler tale

Coen Elemans

18/02/2021

1 Mediebidrag

PRM / Sangfugle udviser ekstrem muskelkontrol, når de skal synge for hinanden (og dig)

Coen Elemans

04/06/2021

1 Mediebidrag

PRM / Sangfugle udviser ekstrem muskelkontrol, når de skal synge for hinanden (og dig)

Coen Elemans

04/06/2021

1 Mediebidrag

Pukkelhvalen fra Skagen skæres op

Coen Elemans

10/10/2019

1 Mediebidrag

Rivaler undlader at dræbe hinanden - de strækker bare hals

Coen Elemans

21/06/2015

1 element af Mediedækning

Sangfugle og computermodeller skal skabe øget forståelse af, hvordan mennesker producerer stemme og udvikler tale

Coen Elemans

18/02/2021

1 Mediebidrag

Sangfugle synger på ekstrem muskelkontrol

Coen Elemans

16/06/2021

1 Mediebidrag

Sangfugle udviser ekstrem muskelkontrol

Coen Elemans

07/06/2021

1 Mediebidrag

Sangfugle udviser ekstrem muskelkontrol, når de skal synge for hinanden (og dig)

Coen Elemans

06/06/2021

1 Mediebidrag

Sangfugle udviser ekstrem muskelkontrol, når de skal synge for hinanden (og dig)

Coen Elemans

04/06/2021

1 Mediebidrag

Sejhvalen skåret op - nu kender vi kønnet

Coen Elemans

11/12/2018

1 Mediebidrag