



**Cover:** A male Svalbard ptarmigan (*Lagopus muta hyperborea*) on the slopes of the Arctowski Mountain on Spitsbergen, Svalbard, in early spring. This bird is endemic to the Svalbard archipelago in the high Arctic where it remains year-round, making it the world's most northerly-distributed land bird. Nord and Folkow show that handling of this well-insulated bird caused stress-induced hyperthermia even in severe cold, as predicted from studies of other large endotherms. Thus, pronounced body cooling during handling in low temperature, as previously reported in small and poorly-insulated birds, probably reflects failure to withstand increased heat-loss rate. Image (C) Andreas Nord, licensed under a Creative Commons Attribution 4.0 International license.

## RESEARCH ARTICLES

Krüppel-like factor 6 mediates pulmonary angiogenesis in rat experimental hepatopulmonary syndrome and is aggravated by bone morphogenetic protein 9

**Yang, Y., Yu, H., Yang, C., Zhang, Y., Ai, X., Wang, X., Lu, K. and Yi, B.**

bio040121

Overexpression of long noncoding RNA GAS5 suppresses tumorigenesis and development of gastric cancer by sponging miR-106a-5p through the Akt/mTOR pathway

**Dong, S., Zhang, X. and Liu, D.**

bio041343

Ambient temperature effects on stress-induced hyperthermia in Svalbard ptarmigan

**Nord, A. and Folkow, L. P.**

bio043497

Ubiquitin-mediated proteasome degradation regulates optic fissure fusion

**Pereira Piedade, W., Veith, S. and Famulski, J. K.**

bio044974

The *Drosophila* protein, Nausicaa, regulates lamellipodial actin dynamics in a Cortactin-dependent manner

**O'Connell, M. E., Sridharan, D., Driscoll, T., Krishnamurthy, I., Perry, W. G. and Applewhite, D. A.**

bio038232

Spring-loaded inverted pendulum goes through two contraction-extension cycles during the single-support phase of walking

**Antoniak, G., Biswas, T., Cortes, N., Sikdar, S., Chun, C. and Bhandawat, V.**

bio043695

Intraspecific variation in metabolic rate and its correlation with local environment in the Chinese scorpion *Mesobuthus martensii*

**Wang, W., Liu, G.-M. and Zhang, D.-X.**

bio041533

Is blood cortisol or vateritic otolith composition associated with natal dispersal or reproductive performance on the spawning grounds of straying and homing hatchery-produced chum salmon (*Oncorhynchus keta*) in Southeast Alaska?

**McConnell, C. J., Atkinson, S., Oxman, D. and Westley, P. A. H.**

bio042853

Effectors of the spindle assembly checkpoint are confined within the nucleus of *Saccharomyces cerevisiae*

**Heasley, L. R., DeLuca, J. G. and Markus, S. M.**

bio037424

Cell recovery by reversal of ferroptosis

**Tang, H. M. and Tang, H. L.**

bio043182

Influence of arm swing on cost of transport during walking

**de Graaf, M. L., Hubert, J., Houdijk, H. and Bruijn, S. M.**

bio039263

Eyes and negative phototaxis in juvenile crown-of-thorns starfish, *Acanthaster* species complex

**Korsvig-Nielsen, C., Hall, M., Motti, C. and Garm, A.**

bio041814

Evidence of dietary protein restriction regulating pupation height, development time and lifespan in *Drosophila melanogaster*

**Krittika, S., Lenka, A. and Yadav, P.**

bio042952

Zebra finch (*Taeniopygia guttata*) shift toward aerodynamically efficient flight kinematics in response to an artificial load

**Lapsansky, A. B., Igo, J. A. and Tobalske, B. W.**

bio042572

Suppressor of Fused regulates the proliferation of postnatal neural stem and precursor cells via a Gli3-dependent mechanism

**Gomez, H. G., Noguchi, H., Castillo, J. G., Aguilar, D.,**

**Pleasure, S. J. and Yabut, O. R.**

bio039248

Fgf3 is crucial for the generation of monoaminergic cerebrospinal fluid contacting cells in zebrafish

**Reuter, I., Jäckels, J., Kneitz, S., Kuper, J., Lesch, K.-P. and Lillesaar, C.**

bio040683

An essential role of the mouse synapse-associated protein Syap1 in circuits for spontaneous motor activity and rotarod balance

**R. von Collenberg, C., Schmitt, D., Rüllicke, T., Sendtner, M., Blum, R. and Buchner, E.**

bio042366

## METHODS AND TECHNIQUES

Establishing simple image-based methods and a cost-effective instrument for toxicity assessment on circadian rhythm dysregulation in fish

**Audira, G., Sampurna, B. P., Juniardi, S., Liang, S.-T., Lai, Y.-H., Han, L. and Hsiao, C.-D.**

bio041871

An instrumented centrifuge for studying mouse locomotion and behaviour under hypergravity

**Smith, B. J. H. and Usherwood, J. R.**

bio043018

## FIRST PERSON

First person – Camilla Elinor Korsvig-Nielsen

bio045120

First person – Myriam de Graaf and Juul Hubert

bio045138

First person – Sudhakar Krittika

bio044966