

Wine & Cheese Poster Session.

Sponsored by: the University of Guelph

Hypothalamic control of feeding behaviour

P1. Functional analysis of small secretory proteins in the chicken hypothalamus. **Kazuyoshi Ukena**, Eiko Iwakoshi-Ukena, Kenshiro Shikano, Yuki Bessho, Tetsuya Tachibana².

P2. Sex differences in basal hypothalamic anorectic and orexigenic gene expression after re-feeding with normal and non-nutritive diets. **Sarah Caughey**, Peter Wilson, Nasir Mukhtar, Rick D'Eath, Ian Dunn, Tim Boswell.

P3. Mechanism of corticotropin-releasing factor's anorexigenic effect in *Coturnix japonica*. **Jinxin Wang**, Elizabeth R. Gilbert, Mark A. Cline.

P4. Hypothalamic effects following fasting and refeeding in *Coturnix japonica*. **Betty R. McConn**, Elizabeth R. Gilbert, Mark A. Cline.

Glucocorticoids - Control and Effects

P5. Within-season variability in the effects of corticosterone and male coloration on body condition and reproduction in the mountain bluebird, *Sialia currucoides*. **Sara Berk**, Creagh Breuner.

P6. Melanocortin Receptors and MRAP expression in the chick adrenal gland: correlating mRNA expression levels and ligand sensitivity of chick melanocortin receptors expressed in CHO cell. **Robert M. Dores**, Alexa Thomas, Fumihiko Maekawa, Takahara Kawashima, Hirotaka Sakamoto, Tatsuya Sukamoto.

P7. Testing the fitness effects of glucocorticoids within a resource framework. **Creagh W Breuner**, Sara A Berk.

P8. Glucocorticoid responses predict reproductive success and return rate in tree swallows. **Maren Vitousek**, Conor Taff, Kelly Hallinger, David Winkle.

P9. Corticotropin releasing hormone containing neurons in the nucleus of the hippocampal commissure are involved in the neuroendocrine regulation of stress in birds. **Gurueswar Nagarajan**, Seong W. Kang, Alexander Jurkevich, Wayne J. Kuenzel.

Neuroplasticity

P10. In vivo magnetic resonance imaging explores the establishment of sex differences in the zebra finch brain during the critical period for vocal learning. **Julie Hamaide**, **Elisabeth Jonckers**, Jolien Diddens, Lisbeth Van Ruijssevelt, Geert De Groof, Annemie Van der Linden.

P11. In-vivo online monitoring of testosterone-induced neuroplasticity in a seasonal songbird. **Jasmien Orije**, Geert De Groof, Sofie Van Massenhoven, Elisabeth Jonckers, Veerle Darras, Annemie Van der Linden.

P12. Effects of testosterone on microglia in the song control system in female canaries. **Farrah N. Madison**, Gregory F. Ball.

Developmental Endocrinology

P13. Epigenetically regulated genes in zebra finch brain development are enriched for hormone receptor specific regulatory control mechanisms. **Carolina Frankl-Vilches**, Jolien Diddens, Sandra Steyaert, Antje Bakker, Nina Sohnius-Wilhelmi, Tim De Meyer, Wim Vanden Berghe, Annemie Van der Linden, Manfred Gahr.

P14. The zebra finch functional methylome and its relevance to telencephalon development. *Sandra Steyaert, Jolien Diddens, Carolina Frankl, Sita Ter Haar, Jeroen Galle, Manfred Gahr, Jacques Balthazart, Annemie Van der Linden, Wim Van Criekinge, Wim Vanden Berghe, Tim De Meyer.*

P15. ETS-1 is a target of MAPK signaling in the embryonic anterior pituitary gland. *Laura E Ellestad, Monika Proszkowiec-Weglarz, Tom E Porter.*

P16. Monocarboxylate transporter 8 deficiency in Purkinje cells disrupts thyroid hormone driven cerebellar development in chicken. *Pieter Vancamp, Joke Delbaere, Veerle M. Darras.*

P17. Maternal thyroid hormones influence nestling development: experimental studies in captive rock pigeons (*Columba livia*) and free-living great tits (*Parus major*). *Bin-Yan Hsu, Suvi Ruuskanen, Veerle M. Darras, Marcel Visser, Ton G.G. Groothuis.*

Facultative Movement and Migration

P18. Effects of photoperiod and food availability on vernal migration in a facultative migrant, the pine siskin (*Spinus pinus*). *Ashley R. Robart, Heather E. Watts.*

P19. Comparing the effects of a social cue on reproductive preparation in migrant and resident female birds (*Zonotrichia leucophrys*). *Helen E. Chmura, John C. Wingfield, Thomas P. Hahn.*

P20. The metabolic adaptation to seasons in night-migratory blackheaded buntings: A transcriptome study. *Devraj Singh, Hiep Lee, Satchidananda Panda, Vinod Kumar.*

Endocrinology of Behaviour

P21. A seasonal comparison of the mesotocin system in a brood parasite, the brown headed cowbird (*Molothrus ater*), with its nonparasitic relative the red-winged blackbird (*Agelaius phoeniceus*). *Patricia Clark, Valerie R. Bishop, Mélanie Guigueno, David F. Sherry, Scott A. MacDougall-Shackleton, Simone L. Meddle.*

P22. Maternal care in the domestic chicken is associated with increased mesotocin in the hypothalamus. *Yana Aleksandrova, Ian C. Dunn, Simone L. Meddle.*

P23. Analysis of aggressive behavior in two Japanese quail strains and their gene expressions possibly related to aggression in the hypothalamus. *Fumihiko Maekawa, Koki Nagino, Jiaxin Yang, Takayoshi Ubuka, Kazuyoshi Tsutsui, Takaharu Kawashima.*

P24. Effects of Gonadal Steroids on the Mesotocin and Vasotocin Systems in the Brain of the Domestic Hen. *Yana Aleksandrova, Cheryl I. Rae, Ian C. Dunn, Simone L. Meddle.*

Endocrinology and the Immune System

P25. Activation of epithelial proliferation induced by *Eimeria acervulina* infection in the duodenum may be associated with cholesterol metabolism. *Ni Yingdong, Sun Lili, Zhao Ruqian, Roland Grossmann.*

P26. Elevated egg testosterone stimulates immune reactivity in a precocial bird. *Michal Zeman, Zuzana Kankova, Daniela Blahutova, Monika Okuliarova.*

Comparative and Functional Genomics

P27. Characterization of the Apelin/Elabela Receptors (APLNR) in Chickens, Turtles and Zebrafish.*Jiannan Zhang, Yawei Zhou, Guoqiang Zhu, Yajun Wang, Juan Li.*

P28. Identification of chicken tumor necrosis factor (TNF) and nephrin (NPHS1) using RNA-seq data.*Sara Yosefi, Susanne Bornelöv, Leif Andersson, Miriam Friedman-Einat, Eyal Seroussi.*

Endocrine Disruptors

P29. Nitrophenols affect steroid hormone secretion by chicken ovarian follicles.*Andrzej Sechman, Małgorzata Grzesiak, Anna Karpeta, Dorota Katarzyńska, Anna Hrabia.*

P30. Dioxins and polychlorinated biphenyls – negative modulators of chicken ovarian steroidogenesis.*Andrzej Sechman, Piotr A. Antos, Anna Hrabia.*

P31. Metalloproteinases and their tissue inhibitors in the chicken reproductive system.*Anna Hrabia, Agnieszka Leśniak-Walentyn, Anna Kierońska, Andrzej Sechman.*

Endocrinology of Reproduction

P32. The role of the androgen receptor in chicken sexual development.*Kamila Dropkova, Carolina Frankl, Benjamin Schusser, Manfred Gahr.*

P33. Comparison of testosterone levels in captive and wild northern brown kiwi (*Apteryx mantelli*) during the breeding and incubation periods.*Thomas Jensen, Sarah E. Jamieson, Isabel Castro, Brett Gartrell, John Cockrem, Barbara Durrant.*

P34. Gonadal regression elicited in Pekin duck drakes and hens associated with supplemental light from kerosene lanterns during the winter months.*Lindsey Porter, Susan M. Fraley, Gregory S. Fraley.*

P35. Growth hormone and IGF-I autocrine/paracrine actions upon proliferation in ovarian granulosa cells in the hen.*Marisela S. Ahumada-Solórzano, Carlos G. Martínez-Moreno, Martha Carranza, José Ávila-Mendoza, Maricela Luna, Carlos Arámburo.*