GENERAL AND COMPARATIVE ENDOCRINOLOGY

AUTHOR INFORMATION PACK

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DESCRIPTION

General and Comparative Endocrinology publishes articles concerned with the many complexities of vertebrate and invertebrate **endocrine systems** at the sub-molecular, molecular, cellular and organismal levels of analysis. Although by no means comprehensive, submission of manuscripts in the following areas of **endocrine science** are encouraged:• endocrine regulation and interactions in physiological processes ("systems" biology - reproduction, body fluid homeostasis, skeletal and calcium homeostasis; gastrointestinal function; integumentary function; neurophysiology; cardiovascular function etc);
• endocrine pharmacology;
• the role of gene expression in endocrine systems;
• behavioral endocrinology;
• developmental endocrinology;
• growth factors;
• endocrine- environmental interactions;
• immuno-endocrine interactions;
• neuroendocrinology, neuropeptides, neurotransmitters;
• hormonal receptors;
• molecular evolution of hormones and gene families.
• Comparative Molecular Analyses
- Genomics
- Proteomics
- Transcriptomics
- Metabolomics

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INTRODUCTION

General and Comparative Endocrinology publishes articles concerned with the many complexities of vertebrate and invertebrate endocrine systems at the sub-molecular, molecular, cellular and organismal levels of analysis. Although by no means comprehensive, submission of manuscripts in the following areas of endocrine science are encouraged:

• endocrine regulation and interactions in physiological processes ("systems" biology - reproduction, body fluid homeostasis, skeletal and calcium homeostasis; gastrointestinal function; integumentary function; neurophysiology; cardiovascular function etc);
• endocrine pharmacology;
• the role of gene expression in endocrine systems;
• behavioral endocrinology;
• developmental endocrinology;
• growth factors;
• endocrine- environmental interactions;
• immuno-endocrine interactions;
• neuroendocrinology, neuropeptides, neurotransmitters;
• hormonal receptors;
• molecular evolution of hormones and gene families.

Comparative Molecular Analyses
- Genomics
- Proteomics
- Transcriptomics
- Metabolomics

Manuscripts that advance understanding within and between these broad disciplines are especially encouraged.

General and Comparative Endocrinology will consider for publication of research articles that address endocrinology in its widest sense, i.e. both among, and within, living organisms - vertebrate, invertebrate and plant - including their evolutionary antecedents. Original and novel information in acute, and in the longer term, evolutionary adaptive homeostasis are of especial interest to the journal.

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Material and methods Guidelines for Immunohistochemistry & RTqPCR assays

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There is considerable debate and an ever growing literature about the "best way" to perform real time quantitative PCR (RTqPCR). One publication which gives extensive and helpful guidelines about RTq PCR is Nolan et al., 2006 Nature protocols 1; 1559 and if you are looking for formal guidelines and recommendations consult Clinical Chemistry (Bustin et al., 2009 55, 611). Some simple guidelines:

1. The Dnase treatment and protocol should be indicated.
2.The primers chosen for reverse transcription should be indicated.
3. The RTqPCR primers and probe sequence (if used), the amplicon size along with the mix and supplier should be indicated.

4. The sequence accession number should be provided.
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