



PERGAMON

Journal of Steroid Biochemistry & Molecular Biology 84 (2003) III–VII

The Journal of
Steroid Biochemistry
&
Molecular Biology

www.elsevier.com/locate/jsbmb

List of Contents

JANUARY 2003

Vol. 84, No. 1

- | | | |
|---|-----|---|
| Georg Sager, Anne Ørbo, Ragnhild Jæger and Catharina Engström | 1 | Non-genomic effects of progestins—inhibition of cell growth and increased intracellular levels of cyclic nucleotides |
| Luisa A. Helguero, Caroline Lamb, Alfredo A. Molinolo and Claudia Lanari | 9 | Evidence for two progesterone receptor binding sites in murine mammary carcinomas |
| Kristina Loinder and Mats Söderström | 15 | The nuclear receptor corepressor (N-CoR) modulates basal and activated transcription of genes controlled by retinoic acid |
| Emely Castro-Rivera and Stephen Safe | 23 | 17 β -Estradiol- and 4-hydroxytamoxifen-induced transactivation in breast, endometrial and liver cancer cells is dependent on ER-subtype, cell and promoter context |
| Kayo Sumida, Norihisa Ooe, Koichi Saito and Hideo Kaneko | 33 | Limited species differences in estrogen receptor alpha-mediated reporter gene transactivation by xenoestrogens |
| Dong Kun Lee and Chawnshang Chang | 41 | Molecular communication between androgen receptor and general transcription machinery |
| T.H. Lippert, H. Adlercreutz, M.R. Berger, H. Seeger, W. Elger and A.O. Mueck | 51 | Effect of 2-methoxyestradiol on the growth of methyl-nitroso-urea (MNU)-induced rat mammary carcinoma |
| Maria Lucia Hirata Katayama, Fátima Solange Pasini, Maria Aparecida Azevedo Koike Folgueda, Igor Moyses Longo Snitcovsky and Maria Mitzi Brentani | 57 | Molecular targets of 1,25(OH) ₂ D ₃ in HC11 normal mouse mammary cell line |
| Wai C. Yoong, Susan M. Tuck and Anthony E. Michael | 71 | Binding of ovarian steroids to erythrocytes in patients with sickle cell disease; effects on cell sickling and osmotic fragility |
| Charles R. Wira, John V. Fahey, Vikki M. Abrahams and Richard M. Rossoll | 79 | Influence of stage of the reproductive cycle and estradiol on thymus cell antigen presentation |
| S. Kuntz, A. Chesnel, M. Duterque-Coquillaud, I. Grillier-Vuissoz, M. Callier, C. Dournon, S. Flament and D. Chardard | 89 | Differential expression of P450 aromatase during gonadal sex differentiation and sex reversal of the newt <i>Pleurodeles waltl</i> |
| Kyung-Hye Lee, Namho Lee, Soyeon Lim, Heekyung Jung, Young-Guk Ko, Hyun-Young Park, Yangsoo Jang, Hakbae Lee and Ki-Chul Hwang | 101 | Calreticulin inhibits the MEK1,2-ERK1,2 pathway in α_1 -adrenergic receptor/G _h -stimulated hypertrophy of neonatal rat cardiomyocytes |
| Tomohiro Sasanami, Jianzhi Pan and Makoto Mori | 109 | Expression of perivitelline membrane glycoprotein ZP1 in the liver of Japanese quail (<i>Coturnix japonica</i>) after in vivo treatment with diethylstilbestrol |

FEBRUARY 2003

Proceedings of the 15th International Symposium of the Journal of Steroid Biochemistry & Molecular Biology — Poster Presentations

Vol. 84, Nos. 2–3

- | | | |
|--|-----|--|
| M.N. Jacobs, M. Dickins and D.F.V. Lewis | 117 | Homology modelling of the nuclear receptors: human oestrogen receptor β (hER β), the human pregnane-X-receptor (PXR), the Ah receptor (AhR) and the constitutive androstane receptor (CAR) ligand binding domains from the human oestrogen receptor α (hER α) crystal structure, and the human peroxisome proliferator activated receptor α (PPAR α) ligand binding domain from the human PPAR γ crystal structure |
|--|-----|--|

Jiro Fujimoto, Wen-Shu Sun, Ryou Misao, Hideki Sakaguchi, Ikumi Aoki, Hiroshi Toyoki and Teruhiko Tamaya	133	Expression of estrogen receptor β exon-deleted variant mRNAs in ovary and uterine endometrium
Elisabeth Jisa and Alois Jungbauer	141	Kinetic analysis of estrogen receptor homo- and heterodimerization in vitro
Jennifer A. Wietzke and JoEllen Welsh	149	Phytoestrogen regulation of a Vitamin D ₃ receptor promoter and 1,25-dihydroxyvitamin D ₃ actions in human breast cancer cells
M.W. Pfaffl, I.G. Lange and H.H.D. Meyer	159	The gastrointestinal tract as target of steroid hormone action: Quantification of steroid receptor mRNA expression (AR, ER α , ER β and PR) in 10 bovine gastrointestinal tract compartments by kinetic RT-PCR
Jürgen Zschocke, Dieter Manthey, Nadhim Bayatti and Christian Behl	167	Functional interaction of estrogen receptor α and caveolin isoforms in neuronal SK-N-MC cells
Despina Siriani, Dimitra J. Mitsiou and Michael N. Alexis	171	Overexpressed glucocorticoid receptor negatively regulates gene expression under conditions that favour accumulation of non-hormone-binding forms of the receptor
Louise Flanagan, Kathryn Packman, Brian Juba, Sharon O'Neill, Martin Tenniswood and JoEllen Welsh	181	Efficacy of Vitamin D compounds to modulate estrogen receptor negative breast cancer growth and invasion
Jorge R. Pasqualini, Patrick Caubel, Andrew J. Friedman, Jean-Claude Philippe and Gérard Samuel Chetrite	193	Norelgestromin as selective estrogen enzyme modulator in human breast cancer cell lines. Effect on sulfatase activity in comparison to medroxyprogesterone acetate
Carmen J. Narvaez, Belinda M. Byrne, Saara Romu, Meggan Valrance and JoEllen Welsh	199	Induction of apoptosis by 1,25-dihydroxyvitamin D ₃ in MCF-7 Vitamin D ₃ -resistant variant can be sensitized by TPA
L. Peña, G. Silván, M.D. Pérez-Alenza, A. Nieto and J.C. Illera	211	Steroid hormone profile of canine inflammatory mammary carcinoma: a preliminary study
Ikumi Aoki, Jiro Fujimoto and Teruhiko Tamaya	217	Effects of various steroids on platelet-derived endothelial cell growth factor (PD-ECGF) and its mRNA expression in uterine endometrial cancer cells
Begoña Maestro, Norma Dávila, M. Carmen Carranza and Consuelo Calle	223	Identification of a Vitamin D response element in the human insulin receptor gene promoter
A. Hartel, A. Didier, M.W. Pfaffl and Heinrich H.D. Meyer	231	Characterisation of gene expression patterns in 22RV1 cells for determination of environmental androgenic/antiandrogenic compounds
Brigitte Bocchi, Jerome Fagart, Françoise Cluzeaud, Michel Fay, Marie-Edith Rafestin-Oblin and Nicolette Farman	239	Glucocorticoid metabolism by 11- β hydroxysteroid dehydrogenase type 2 modulates human mineralocorticoid receptor transactivation activity
Rubén Pérez-Machín, Luis Henríquez-Hernández, Octavio Pérez-Luzardo, Eva Betancor-Hernández, Ezequiel Tabares-Domínguez, Carlos Mateos-Díaz, Javier Novoa-Mogollón, B.N. Díaz-Chico and Leandro Fernández	245	Solubilization and photoaffinity labeling identification of glucocorticoid binding peptides in endoplasmic reticulum from rat liver
H. Seeger, D. Diesing, B. Gückel, D. Wallwiener, A.O. Mueck and J. Huober	255	Effect of tamoxifen and 2-methoxyestradiol alone and in combination on human breast cancer cell proliferation
V. Beck, E. Unterrieder, L. Krenn, W. Kubelka and A. Jungbauer	259	Comparison of hormonal activity (estrogen, androgen and progestin) of standardized plant extracts for large scale use in hormone replacement therapy
R.N. Suzuki, S.P. Newman, A. Purohit, M.P. Leese, B.V.L. Potter and M.J. Reed	269	Growth inhibition of multi-drug-resistant breast cancer cells by 2-methoxyestradiol-bis-sulphamate and 2-ethyloestradiol-bis-sulphamate
S.E. Ulbrich, A. Kettler and R. Einspanier	279	Expression and localization of estrogen receptor α , estrogen receptor β and progesterone receptor in the bovine oviduct in vivo and in vitro

- M. Schoenfelder, D. Schams and R. Einspanier** 291 Steroidogenesis during in vitro maturation of bovine cumulus oocyte complexes and possible effects of tri-butyltin on granulosa cells
- S. Goodenough, M. Schäfer and C. Behl** 301 Estrogen-induced cell signalling in a cellular model of Alzheimer's disease
- Richard Hampl, Michal Pohanka, Martin Hill and Luboslav Stárka** 307 The content of four immunomodulatory steroids and major androgens in human semen
- Joanna M. Day, Simon P. Newman, Alexander Comminos, Claire Solomon, Atul Purohit, Matthew P. Leese, Barry V.L. Potter and Michael J. Reed** 317 The effects of 2-substituted oestrogen sulphamates on the growth of prostate and ovarian cancer cells
- J. Shields-Botella, P. Bonnet, I. Duc, E. Duranti, S. Meschi, S. Cardinali, P. Prouheze, A.M. Chaigneau, V. Duranti, S. Gribaudo, A. Rivière, L. Mengual, D. Carniato, L. Cecchet, J. Lafay, B. Rondot, J. Sandri, J.C. Pascal and R. Delansorne** 327 In vitro and in vivo models for the evaluation of new inhibitors of human steroid sulfatase, devoid of residual estrogenic activity
- Christopher R. Ireson, David Parish, Atul Purohit, Lawrence W.L. Woo, Barry V.L. Potter, Surinder K. Chander and Michael J. Reed** 337 Development of a sensitive high-performance liquid chromatography method for the detection of 667 COUMATE in vivo
- Delphine S. Fischer, Surinder K. Chander, L.W. Lawrence Woo, Janine C. Fenton, Atul Purohit, Michael J. Reed and Barry V.L. Potter** 343 Novel D-ring modified steroid derivatives as potent, non-estrogenic, steroid sulfatase inhibitors with in vivo activity
- Bindumalini Raobaikady, Atul Purohit, Surinder K. Chander, L.W. Lawrence Woo, Mathew P. Leese, Barry V.L. Potter and Michael J. Reed** 351 Inhibition of MCF-7 breast cancer cell proliferation and in vivo steroid sulphatase activity by 2-methoxyoestradiol-bis-sulphamate
- Olaf Schaefer, Michael Hümpel, Karl-Heinrich Fritzeimer, Rolf Bohlmann and Wolf-Dieter Schleuning** 359 8-Prenyl naringenin is a potent ER α selective phytoestrogen present in hops and beer
- E.R. Kisanga, J. Gjerde, J. Schjøtt, G. Mellgren and E.A. Lien** 361 Tamoxifen administration and metabolism in nude mice and nude rats
- Axel Urhausen, Albers Torsten and Kindermann Wilfried** 369 Reversibility of the effects on blood cells, lipids, liver function and hormones in former anabolic-androgenic steroid abusers
- J.C. Illera, G. Silván, C.J. Munro, P.L. Lorenzo, M.J. Illera, I.K.M. Liu and M. Illera** 377 Amplified androstenedione enzymeimmunoassay for the diagnosis of cryptorchidism in the male horse: comparison with testosterone and estrone sulphate methods
- M. Dehnhard, J.-M. Hatt, K. Eulenberger, A. Ochs and G. Strauss** 383 Headspace solid-phase microextraction (SPME) and gas chromatography-mass spectrometry (GC-MS) for the determination of 5 α -androst-2-en-17-one and -17 β -ol in the female Asian elephant: application for reproductive monitoring and prediction of parturition

MARCH 2003**Vol. 84, No. 4***Review*

- C. Punyadeera, P. Verbost and P. Groothuis** 393 Oestrogen and progestin responses in human endometrium
- Marie-Claire Biol-N'garagba, Elodie Niepceron, Bruno Mathian and Pierre Louisot** 411 Glucocorticoid-induced maturation of glycoprotein galactosylation and fucosylation processes in the rat small intestine
- Hesso Farhan, Kristiina Wähälä and Heide S. Cross** 423 Genistein inhibits Vitamin D hydroxylases *CYP24* and *CYP27B1* expression in prostate cells

- Virginia Pearce, Zafar Nawaz, Wu Xiao,
David Wiedenfeld, Nick Boyle and Don Smith 431 4-Ethoxymethylphenol: a novel phytoestrogen that acts as an agonist for human estrogen receptors
- Sanjay Chauhan, Craig H. Leach, Susan Kunz,
John W. Bloom and Roger L. Miesfeld 441 Glucocorticoid regulation of human eosinophil gene expression
- Yuhua Z. Farnell and Nancy H. Ing 453 The effects of estradiol and selective estrogen receptor modulators on gene expression and messenger RNA stability in immortalized sheep endometrial stromal cells and human endometrial adenocarcinoma cells
- YoungJoo Lee, YoungRan Jin, WonChung Lim,
SangMi Ji, Songho Choi, Siyoul Jang and
SeungKi Lee 463 A ginsenoside-Rh1, a component of ginseng saponin, activates estrogen receptor in human breast carcinoma MCF-7 cells
- Janne Jensen, Jason W. Kitlen, Per Briand,
Fernand Labrie and Anne E. Lykkesfeldt 469 Effect of antiestrogens and aromatase inhibitor on basal growth of the human breast cancer cell line MCF-7 in serum-free medium
- Giuliano Neri, Cinzia Tortorella,
Paola G. Andreis, Sergio Bova,
Ludwik K. Malendowicz,
Agnieszka Ziolkowska and
Gastone G. Nussdorfer 479 Norbormide enhances late steps of steroid-hormone synthesis in rat and mouse adrenal cortex
- A.A. Larionov, D.A. Vasyliiev, J.I. Mason,
A.F. Howie, L.M. Berstein and W.R. Miller 485 Aromatase in skeletal muscle

APRIL 2003

Vol. 84, No. 5

- Alexandra Kollara, Eleftherios P. Diamandis
and Theodore J. Brown 493 Secretion of endogenous kallikreins 2 and 3 by androgen receptor-transfected PC-3 prostate cancer cells
- M. Muratori, A. Lippi, R. Mancina, E.M. Iafrate,
R. Cirillo, G. Lopez, M. Bigioni, M. Maggi,
M. Criscuoli and C.A. Maggi 503 Pharmacological profile of MEN 11066, a novel potent and selective aromatase inhibitor
- Yuhua Z. Farnell and Nancy H. Ing 513 Endometrial effects of selective estrogen receptor modulators (SERMs) on estradiol-responsive gene expression are gene and cell-specific
- Yuhua Z. Farnell and Nancy H. Ing 527 Myometrial effects of selective estrogen receptor modulators on estradiol-responsive gene expression are gene and cell-specific
- I. Duc, P. Bonnet, V. Duranti, S. Cardinali,
A. Rivière, A. De Giovanni, J. Shields-Botella,
G. Barcelo, N. Adje, D. Carniato, J. Lafay,
J.C. Pascal and R. Delansorne 537 In vitro and in vivo models for the evaluation of potent inhibitors of male rat 17 α -hydroxylase/C_{17,20}-lyase
- Consuelo Calle, Javier Campión,
Moisés García-Arencibia, Begoña Maestro
and Norma Dávila 543 Transcriptional inhibition of the human insulin receptor gene by aldosterone
- Samer Haidar, Peter B. Ehmer, Stephan Barassin,
Christine Batzl-Hartmann and Rolf W. Hartmann 555 Effects of novel 17 α -hydroxylase/C_{17,20}-lyase (P450 17, CYP 17) inhibitors on androgen biosynthesis in vitro and in vivo
- Fidaa Ibrahim, Frank Giton, Philippe Boudou,
Jean-Marie Villette, René Julien, Hervé Galons
and Jean Fiet 563 Plasma 11 β -hydroxy-4-androstene-3,17-dione: comparison of a time-resolved fluoro-immunoassay using a biotinylated tracer with a radioimmunoassay using a tritiated tracer
- Susan Lo, Axel Alléra, Peter Albers,
Jörg Heimbrecht, Eckard Jantzen,
Dietrich Klingmüller and Stephan Steckelbroeck 569 Dithioerythritol (DTE) prevents inhibitory effects of triphenyltin (TPT) on the key enzymes of the human sex steroid hormone metabolism

**Elke Brouwers, Rafaëlla L'homme,
Nawaf Al-Maharik, Oldrich Lapcák,
Richard Hampl, Kristiina Wähälä,
Heikki Mikola and Herman Adlercreutz**

577 Time-resolved fluoroimmunoassay for equol in plasma and urine

III Contents index for Volume 84 (2003)

VIII Subject index for Volume 84 (2003)

XIII Author index for Volume 84 (2003)