

THE JOURNAL OF STEROID BIOCHEMISTRY

Contents

Second International Symposium of the Journal of Steroid Biochemistry

Recent Advances in Steroid Biochemistry

Opening remarks by J. R. PASQUALINI

Recent Developments in Methodology

Irving R. and Mainwaring W. I. P.: Partial purification of steroid-receptor complexes by DNA-cellulose chromatography and isoelectric focusing

Discussion by: Irving, Jensen, Schrader, Villee and Vorob'ev

Härkönen M., Adlercreutz H. and Groman E. V.: Enzymatic techniques in steroid assay

Discussion by: Adlercreutz, Breuer, Exley, Härkönen, Korenman and Müller

Siekmann L.: Mass fragmentography of steroid hormones

Discussion by: Adlercreutz, Dehennin, Pasqualini, Siekmann and Ungar

Axelsson M. and Sjövall J.: Separation and computerized gas chromatography-mass spectrometry of unconjugated neutral steroids in plasma

Discussion by: Siekmann and Sjövall

Bauminger S., Kohen F. and Lindner H. R.: Steroids as haptens: optimal design of antigens for the formation of antibodies to steroid hormones

Discussion by: Kellie and Lindner

Cameron E. H. D., Scarisbrick J. J., Morris S. E., Hillier S. G. and Read G.: Some aspects of the use of ¹²⁵I-labelled ligands for steroid radioimmunoassay

Discussion: Adlercreutz, Cameron and Kuss

Carstensen H., Amér I., Södergård R. and Hietala S.-O.: Testosterone binding capacity in relation to the production and metabolism of testosterone in dogs, experiences of a new method

Discussion by: Carstensen, Hansson, Schrader and Tait J. F.

Dehennin L., Reiffsteck A. and Scholler R.: Simultaneous estimation of testosterone, progesterone and androstenedione by gas chromatography-mass spectrometry with a single ion detection. Correlation with radioimmunoassay

Discussion by: Dehennin and Siekmann

General Discussion by: Adlercreutz, Bertrand, Cameron, Carstensen, Crabbé, De Hertogh, Exley, Fotherby, Korenman, Lindner, Siekmann and Sjövall

Steroidogenesis. Trophic Hormones (part 1)

Tait S. A. S., Tait J. F., Gould R. P., Brown B. L. and Albano J. D. M.: The preparation and use of purified and unpurified dispersed adrenal cells and a study of the relationship of their cAMP and steroid output

Discussion by: Korenman, Müller and Tait S. A. S.

Birmingham M. K., Kraulis I., Traikov H., Bartova A., Li M. P., Chan T. H., Oliver J. T. and Possanza G.: Biological consequences of 18-hydroxylation

Discussion by: Birmingham, Crabbé, Munck, Tiptaft, Ungar and Vinson

Müller J. and Baumann K.: Multifactorial regulation of the final steps of aldosterone biosynthesis in the rat

Discussion by: Adlercreutz, Birmingham, Kolpakov, Müller, Tait J. F., Tait S. and Vinson

Vinson G. P. and Whitehouse B. J.: Some comparative studies in adrenocortical steroidogenesis: an interpretation of the functional homologues of the mammalian and non-mammalian adrenal cortex

Discussion by: Carstensen, Dominguez, Müller, Rousseau, Sjövall, Ungar and Vinson

Neher R. and Milani A.: New aspects of steroidogenesis in adrenals

Discussion by: Dominguez, Härkönen, Kellie, McKerns, Müller and Neher

Kan K. W. and Ungar F.: Stimulation factors for cholesterol-side chain cleavage in the corpus luteum and adrenal gland

Discussion by: McKerns, Neher, Schrader, Ungar and Villee

Lehoux J.-G., and Forest J. C.: *In vitro* study on corticosterone cytochrome P-450 binding in relation to the regulation of corticosterone metabolism

Discussion by: Kuss, Lehoux, McKerns, Müller and Neher

General Discussion by: Cooke, Lindner, Munck, Saez, Schrader, Sjövall, Støa, Ungar and Vihko

Steroidogenesis. Trophic Hormones (part 2)

- Satyaswaroop P. G. and Gurbide E.: Superfusion of rat testes with mixtures of labelled testosterone and androstenedione
Discussion by: Cooke, Gurbide and Lindner
- Vihko R. and Ruokonen A.: Regulation of steroidogenesis in testis
Discussion by: Cooke, Dominguez, Neher, Pasqualini, Sjövall and Vihko
- Ritzen E. M. and Hagenäs L.: Androgen binding proteins in different testis compartments
Discussion by: De Moor, Jensen, Korenman, Munck, Ritzen, Sandberg and Vinson
- Gustafsson J-Å., Gustafsson S. A., Ingelman-Sundberg M., Pousette Å., Stenberg Å. and Wrangé Ö.: Sexual differentiation of hepatic steroid metabolism in the rat
Discussion by: De Moor and Gustafsson
- Jacobs H. S.: Relation of structure and biological action of gonadotrophins
Discussion by: Jacobs, Lindner and McKerns
- Dominguez O. V., Loza C. A., Morán L. Z. and Valencia A. S.: ACTH and sulfatase activity
Discussion by: Dominguez, Neher and Vihko
- Vollrath W., Rao G. S., Rao M. L. and Breuer H.: New results on oestrogen glucuronyltransferase
General discussion by: Cameron, Cooke, Gallegos, Grenier, Gurbide, Martini, Saez, Schrader and Ungar

Steroid Hormones and Target Organ Response

- Villee C. A.: Effects of estrogens on uterine poly (A)-Rich RNA
Discussion by: Crabbé, Hansson, Lindner, Rousseau and Villee
- Andress D., Borgna J-L., Cazaubon C., and Mousseron-Canet M.: *In vitro* stimulation of nucleolar and nucleoplasmic RNA polymerases in calf uterus
Discussion by: Jensen and Mousseron-Canet
- Korenman S. G., Bhalla R. C., Wortsman J., Stevens R., Wells L. and Carpenter L.: Hormonal regulation of uterine contractility: The role of the adenylate cyclase system
Discussion by: Cooke, Crabbé, Korenman and Lindner
- Samperez S., Thieulant M-L., Mercier L. and Jouan P.: A specific testosterone receptor in the cytosol of rat anterior hypophysis
Discussion by: Bertrand, Hansson, Martini and Samperez
- Kolpakov M. G., Shulga V. A., Mertvetsov N. P., Selyatitskaya V. G. and Salganik R. I.: Interaction of aldosterone and corticosterone with cell nuclei of target organs under different functional states
Discussion by: Crabbé, Jensen, Kolpakov, Müller, Neher and Pasqualini
- Saez J. M., Morera A. M., Dazord A. and Bataille P.: Interactions of ACTH with its adrenal receptors: Specific binding of ACTH₁₋₂₄, its o-nitrophenyl sulfenyl derivative and ACTH₁₁₋₂₄
Discussion by: Crabbé, Grant, Jensen, Saez and Ungar
- Rousseau G. G., Higgins S. J., Baxter J. D. and Tomkins G. M.: Nuclear acceptor sites for glucocorticoid receptors
Discussion by: Gurbide, Munck, Rousseau, Schrader and Vorob'ev

Mechanism of Action of Steroid Hormones

- Massa R. and Martini L.: Testosterone metabolism: A necessary step for activity?
Discussion by: Bertrand, Breuer, Gurbide, Korenman, Kuss, Lindner, Martini, Massa, Müller, Munck and Pasqualini
- Grant J. K. and Giorgi E. P.: Investigations of androgen-prostatic tissue relationships in superfusion experiments using steroid concentrations approaching those found *in vivo*
Discussion by: Carstensen, Grant and Rao
- Mulder E., van Beurden-Lamers W. M. O., Brinkmann A. O., Mechielsen M. J. and van der Molen H. J.: High affinity binding of oestradiol by rat testis interstitial tissue and by several other tissues of the male rat
Discussion by: Jensen, Lindner, Mulder and Ungar
- Breuer H. and Koster G.: Interaction between oestrogens and neurotransmitters at the hypophysial-hypothalamic level
Discussion by: Adlercreutz, Bruer, Carstensen and Martini
- Sandberg A. A. and Rosenthal H. E.: Estrogen receptors in the pancreas
Discussion by: Korenman, Kuss, Martini, Rao, Sandberg and Schrader
- Pasqualini J. R., Sumida C., and Gelly C.: Steroid hormone receptors in foetal kidney
Discussion by: Crabbé, Kolpakov, Pasqualini and Villee
- Jensen E. V., Liao S., Mohla S., Gorell T. A. and De Sombre E. R.: Hormone-induced transformation of receptor proteins
Discussion by: Crabbé, De Hertogh, Jensen, Kellie, Kolpakov, McKerns, Ritzen and Vorob'ev
- Schrader W. T., Buller R. E., Kuhn R. W., O'Malley B. W.: Molecular Mechanisms of Steroid hormone action
Discussion by: Exley, Hansson, Jensen, Korenman, McKerns, Munck, Rousseau, Schrader, Villee and Vorob'ev
- Crabbé J.: Influence of ouabain on sodium transport by aldosterone-stimulated amphibian epithelia
Discussion by: Crabbé and Sjövall.
- General Discussion by: Jensen, Kuss, Lindner, McKerns, Mousseron-Canet, Munck, Rousseau, Schrader and Vorob'ev

Second International Symposium of the Journal of Steroid Biochemistry

Recent Advances in Steroid Biochemistry

(Paris, March 18–20, 1974)

List of Participants

Aakvaag A.	Oslo	Norway
Acs Z.	Budapest	Hungary
Adeline J.	Paris	France
Adlercreutz H.	Helsinki	Finland
Anantchenko S. N.	Moscow	U.S.S.R.
Andre J.	Montpellier	France
Barkova T. I.	Moscow	U.S.S.R.
Bennett E. P.	Copenhagen	Denmark
Bertrand J.	Lyon	France
Birmingham M. K.	Quebec	Canada
Bieri F.	Basel	Switzerland
Breuer H.	Bonn	German Federal Republic
Brown B.	London	Great Britain
Buus O.	Copenhagen	Denmark
Cameron E. H. D.	Cardiff	Great Britain
Carstensen H.	Umeå	Sweden
Castanier M.	Paris	France
Castellet R. M.	Barcelona	Spain
Celotti F.	Milan	Italy
Christensen T.	Copenhagen	Denmark
Cooke B. A.	Rotterdam	The Netherlands
Crabbé J.	Louvain	Belgium
De Boer W.	Rotterdam	The Netherlands
De Hertogh R.	Louvain	Belgium
De Jong F.	Rotterdam	The Netherlands
De Moor P.	Louvain	Belgium
Dehennin L.	Paris	France
Dominguez O. V.	Mexico	Mexico
Evans E. A.	Amersham	Great Britain
Exley D.	London	Great Britain
Frandsen V. A.	Copenhagen	Denmark
Fotherby K.	London	Great Britain
Gaeb P.	Copenhagen	Denmark
Gallegos V.	Mexico	Mexico
Gelly C.	Paris	France
Grant J. K.	Glasgow	Great Britain
Grenier J.	Paris	France
Gurpide E.	New York	U.S.A.
Gustafsson J. A.	Stockholm	Sweden
Hansson V.	Oslo	Norway
Harkonen M.	Helsinki	Finland
Heyns W.	Louvain	Belgium
Irving R.	London	Great Britain
Jacobs H. S.	London	Great Britain
Janne O. A.	Helsinki	Finland
Jensen E. V.	Chicago	U.S.A.
Joss R.	Basel	Switzerland
Jouan P.	Rennes	France
Kolpakov M. G.	Novosibirsk	U.S.S.R.
Kellie A. E.	London	Great Britain
Korenman S.	Iowa	U.S.A.
Koster	Bonn	German Federal Republic
Kuss E.	Munich	German Federal Republic

Lehoux J.
Lindner H.
Martini L.
Massa R.
McKerns K. W.
Mercier L.
Morera A.
Motta M.
Mousseron-Canet M. M.
Mulder E.
Müller J.
Munck A.
Neher R.
Nielsen J.
Norymberski J. K.
Oertel G. W.
Parvez H.
Pasqualini J. R.
Rao G.
Ritzen E. M.
Reiffsteck A.
Rousseau G.
Ruokonen A.
Saez J.
Samperez S.
Sandberg A. A.
Schrader W.
Scholler R.
Schubert K.
Siekmann L.
Sjövall J.
Sodergård E. R.
Sorokina I. B.
Starka L.
Sumida C.
Svenstrup B.
Støa K. F.
Tait J. F.
Tait S. A. S.
Thieulant M.
Tiptaft E. M.
Ungar F.
Villeg C.
Vinson G.
Vihko R.
Vorob'ev V.

Sherbrooke
Rehovot
Milan
Milan
Florida
Rennes
Lyon
Milan
Montpellier
Rotterdam
Zurich
Hanover
Basel
Copenhagen
Sheffield
Mainz
Paris
Paris
Bonn
Stockholm
Paris
Louvain
Helsinki
Lyon
Rennes
Buffalo
Houston
Paris
Jena
Bonn
Stockholm
Umeå
Moscow
Praha
Paris
Copenhagen
Bergen
London
London
Rennes
London
Minnesota
Boston
London
Helsinki
Leningrad

Canada
Israel
Italy
Italy
U.S.A.
France
France
Italy
France
The Netherlands
Switzerland
U.S.A.
Switzerland
Denmark
Great Britain
German Federal Republic
France
France
German Federal Republic
Sweden
France
Belgium
Finland
France
France
U.S.A.
U.S.A.
France
German Democratic Republic
German Federal Republic
Sweden
Sweden
U.S.S.R.
Czechoslovakia
France
Denmark
Norway
Great Britain
Great Britain
France
Great Britain
U.S.A.
U.S.A.
Great Britain
Finland
U.S.S.R.