Handbook of Hormones 2nd Edition

Comparative Endocrinology for Basic and Clinical Research

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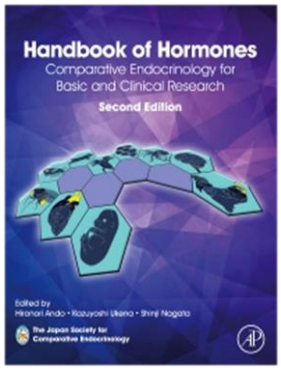

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６年ぶりの改訂第２版が米国 Academic Press から刊行されました！

多様なホルモンがどのように関連しているのかが理解できる、ホルモンと受容体の構造と機能の基本情報が網羅されたホルモンのカタログといえるハンドブック。

主な特徴：

・ホルモンを起源ごとに分類し、相互の関係を理解しやすいように掲載。
・脊椎動物と無脊椎動物の各系統におけるホルモンの構造と機能の基礎情報から臨床応用まで、ホルモンに関する幅広い情報を網羅。
・254 種類のホルモンと 46 のグループ/ファミリーに関するエッセンシャルな情報を掲載。
・新規の神経ペプチド、サイトカイン、成長因子、生体アミン、アミノ酸など、内分泌・パラクリン・神経伝達による細胞間コミュニケーションに重要な 47 種類のホルモンを新たに収録。
・シンテニー、ゲノム配列、包括的な分子系統樹などの比較ゲノム情報に基づいて、ホルモンの進化に関する最新の情報を概括。

概要：

本書は、基礎生物学から臨床応用まで、ホルモンの構造と機能に関する基本的な情報がまとめられている。ホルモンの化学的・分子的特性、受容体、シグナル伝達経路、およびホルモンが制御する生物機能に関する具体的な事実を迅速に知ることができる。

日本比較内分泌学会に所属する最先端のホルモン研究者を中心とした著者と編集委員により、ホルモンと受容体の分子進化を基に各ホルモンの構造と機能が簡潔にまとめられており、それらが構成する様々な化学情報伝達系の働きを理解するための有用な情報リソースになっている。

比較内分泌学領域は急速に拡大し続けており、ホルモンに関する新しい情報が毎日のように生み出されている。エンドクリン、パラクリン、オートクリン因子は、免疫、循環系、代謝、癌など、様々な現象で重要な役割を担っていることがわかる。

脊椎動物から無脊椎動物に至るまで、新規の制御因子を同定し、それがどのように生物の生理機能や生存を担っているかを理解することにより、内分泌学だけでなく、ホルモンが関わる様々な分野の研究者や学生、専門的職業従事者に、幅広いホルモン作用の理解の機会を提供する。

Table of Contents

Volume 1

b. Luteinizing hormone
Hironori Ando
c. Thyroid-stimulating hormone
Hironori Ando
24. Growth hormone/prolactin family
Yoko Yamaguchi and Tatsuya Sakamoto
a. Growth hormone
Shunsuke Moriyama
b. Prolactin
Yoko Yamaguchi and Tatsuya Sakamoto
c. Somatolactin
Sho Kakizawa
25. Proopiomelanocortin family
Akiyoshi Takahashi
a. Adrenocorticotropic hormone
Akiyoshi Takahashi
b. Melanocyte-stimulating hormone
Akiyoshi Takahashi
c. Endorphin
Akiyoshi Takahashi

I.3. Gastrointestinal hormones
26. Glucagon family
Tetsuya Tachibana
a. Glucagon
Tetsuya Tachibana
b. Gastric inhibitory peptide
Tetsuya Tachibana
c. Glucagon-like peptide-1
Tetsuya Tachibana
d. Glucagon-like peptide-2
Tetsuya Tachibana
27. Secretin/pituitary adenylate cyclase-activating polypeptide family
Tomoya Nakamachi
a. Secretin
Tomoya Nakamachi
b. Growth hormone-releasing hormone
Tetsuya Tachibana
c. Pituitary adenylate cyclase-activating polypeptide
Tomoya Nakamachi
d. Pituitary adenylate cyclase-activating polypeptide-related peptide
Tomoya Nakamachi
e. Vasoactive intestinal peptide
Jun Watanabe
f. Peptide histidine isoleucine/methionine
Jun Watanabe
28. Insulin family
Tadashi Andoh
a. Insulin
Tadashi Andoh
b. Insulin-like growth factor-1
Munetaka Shimizu
c. Insulin-like growth factor-2
Munetaka Shimizu
d. Insulin-like growth factor binding proteins
Munetaka Shimizu
e. Relaxins
Masatoshi Mita
29. Gastrin family
Toshio Sekiguchi
a. Gastrin
Toshio Sekiguchi
b. Cholecystokinin
Toshio Sekiguchi
c. Caerulein
Toshio Sekiguchi
30. Ghrelin-motilin family
Hiroyuki Kaiya
a. Ghrelin
Hiroyuki Kaiya
b. Motilin
Takafumi Sakai
31. Bombesin-like peptide family
Hiroko Ohki-Hamazaki
a. Gastrin-releasing peptide
Hirotaka Sakamoto
b. Neuromedin B
Hiroko Ohki-Hamazaki
32. Guanylin family
Shinya Yuge
a. Guanylin
Shinya Yuge
b. Uroguanylin
Shinya Yuge
33. Galanin peptide family
Nobuhiro Wada
a. Galanin
Satoshi Hirako
b. Galanin-like peptide
Fumiko Takenoya
c. Alarin
Nobuhiro Wada
34. Neuropeptide Y family
Akio Inui and Goro Katsuura
a. Pancreatic polypeptide
Akio Inui and Goro Katsuura
34b. Neuropeptide Y
Akio Inui and Goro Katsuura
c. Peptide YY
Akio Inui and Goro Katsuura
35. Xenin
Moe Onizawa and Ichiro Sakata

I.4. Parathyroid gland, ultimobranchial gland and stannius corpuscle hormones
36. Parathyroid hormone family
Nobuo Suzuki
a. Parathyroid hormone

Nobuo Suzuki
b. Parathyroid hormone-related protein
Nobuo Suzuki
c. Tuberoinfundibular peptide of 39 amino acids
Nobuo Suzuki
37. Calcitonin/calcitonin gene-related peptide family
Nobuo Suzuki
a. Calcitonin
Nobuo Suzuki
b. Calcitonin gene-related peptide
Maho Ogoshi
c. Calcitonin receptor-stimulating peptide
Maho Ogoshi
d. Adrenomedullin
Maho Ogoshi
e. Adrenomedullin 2 and 5
Maho Ogoshi
f. Amylin
Maho Ogoshi
38. Stanniocalcin
Nobuo Suzuki

I.5. Cytokines
39. Immunological modulators
Akinori Takaoka, Seiichi Sato, and Taisho Yamada
a. Interleukins
Seiichi Sato and Akinori Takaoka
b. Tumor necrosis factor
Taisho Yamada and Akinori Takaoka
c. Interferons
Akinori Takaoka
40. Hematopoietic growth factors
Takashi Kato
a. Erythropoietin
Takashi Kato
b. Thrombopoietin
Takashi Kato
c. Granulocyte colony-stimulating factor
Takashi Kato
41. Neurotrophin family
Sho Kakizawa
a. Nerve growth factor
Sho Kakizawa
b. Brain-derived neurotrophic factor
Sho Kakizawa
c. Neurotrophin-3
Sho Kakizawa

I.6. Other peripheral hormones
42. Renin-angiotensin system
Marty Kwok-Shing Wong
a. Renin
Marty Kwok-Shing Wong
b. Angiotensin II
Marty Kwok-Shing Wong
c. Other angiotensins
Marty Kwok-Shing Wong
d. Angiotensin converting enzyme
Marty Kwok-Shing Wong
43. Kallikrein-kinin system
Marty Kwok-Shing Wong
a. Kininogen
Marty Kwok-Shing Wong
b. Kallikrein
Marty Kwok-Shing Wong
c. Bradykinin
Marty Kwok-Shing Wong
44. Apelin
Sho Kakizawa
45. Elabela
Sho Kakizawa
46. Natriuretic peptide family
Takehiro Tsukada
a. Atrial natriuretic peptide
Takehiro Tsukada
b. B-type natriuretic peptide
Takehiro Tsukada
c. C-type natriuretic peptides
Takehiro Tsukada
d. Ventricular natriuretic peptide
Takehiro Tsukada
47. Gonadal hormones
Hironori Ando
a. Inhibin
Hironori Ando
b. Activin
Hironori Ando
c. Follistatin
Hironori Ando
d. Anti-Müllerian hormone
Atsushi P. Kimura
48. Adipocyte hormones
Satoshi Hirako
a. Leptin
Nobuhiro Wada
b. Adiponectin
Satoshi Hirako
c. Acylation stimulating protein
Hironori Ando
d. Resistin
Hironori Ando
49. Endothelins
Hirokazu Ohtaki
50. Irisin
Hirokazu Ohtaki
51. Osteopontin
Keiichiro Kitamura
52. Osteocrin
Takehiro Tsukada
53. Hepcidin antimicrobial peptide

Volume 2

Yoshiaki Tanaka
85. Ovary maturating parsin
Yoshiaki Tanaka

II.2.2. Regulation of myo/cardio-activities

86. LF peptides
Toshio Takahashi
a. Head activator
Toshio Takahashi
b. Hym-323773
Toshio Takahashi
c. Ciona LF peptide
Honoo Satake
87. Invertebrate kinins
Shinji Nagata
88. FMRFamides
Shinji Nagata
89. Myoinhibiting peptide
Keisuke Fukumura
90. Myosuppressin
Yijun Zhou and Shinji Nagata
91. Proctolin
Yijun Zhou and Shinji Nagata
92. Orcokinins
Yoshiaki Tanaka
93. Crustacean cardioactive peptide
Yijun Zhou and Shinji Nagata
94. Cardioacceleratory peptide 2b/CAPA
Shinji Nagata
95. Achatina cardio-excitatory peptide-1
Fumihiro Morishita
96. Fulicins
Fumihiro Morishita
97. Buccalins
Fumihiro Morishita
98. Eisenia inhibitory pentapeptides
Fumihiro Morishita and Hiroyuki Minakata
99. GGNG peptides
Fumihiro Morishita and Hiroyuki Minakata

II.2.3. Regulation of behaviors

100. Eclosion hormone
Ivana Daubnerova and Dusan Zitnan
101. Ecdysis triggering hormone
Ivana Daubnerova and Dusan Zitnan
102. Sex peptide
Shinji Nagata
103. APWGamide
Shinji Nagata
104. SIFamide
Shinji Nagata
105. Egg-laying hormone
Fumihiro Morishita and Hiroyuki Minakata

II.2.4. Other hormones and neuropeptides

106. Growth blocking peptide
Yoichi Hayakawa
107. CCHamide
Shinji Nagata
108. Corazonin
Ivana Daubnerova and Dusan Zitnan
109. Pigment dispersing hormone
Shinji Nagata
110. GLWamide
Toshio Takahashi
111. Hym-176
Toshio Takahashi
112. Hym-301
Toshio Takahashi
113. Leech osmoregulatory factor
Fumihiro Morishita and Hiroyuki Minakata
114. Ciona YFV/L peptide
Honoo Satake
115. CNMamide
Shinji Nagata
116. Natalisin
Shinji Nagata
117. Elevenin
Shinji Nagata
118. Glycoprotein hormone subunit A2/B5
Shinji Nagata
119. Trissin
Shinji Nagata
120. EFLamide
Shinji Nagata

III. Lipophilic hormones in vertebrates

121. Thyroid hormones
Kiyoshi Yamauchi
a. 3,3',5-Triiodothyronine
Kiyoshi Yamauchi
b. Thyroxine
Kiyoshi Yamauchi
c. Thyronamines
Kiyoshi Yamauchi
122. Gonadal steroids
Yukiko Ogino, Tomomi Sato, and Taisen Iguchi
a. Progesterone
Tomomi Sato, Shinichi Miyagawa, and Taisen Iguchi
b. 17,20β-Dihydroxy-4-pregnen-3-one
Yukiko Ogino, Shinichi Miyagawa, and Taisen Iguchi
c. 17,20β,21-Trihydroxy-4-pregnen-3-one
Yukiko Ogino, Shinichi Miyagawa, and Taisen Iguchi
d. Dehydroepiandrosterone
Yukiko Ogino, Taisen Iguchi, and Shinichi Miyagawa
e. Testosterone/dihydrotestosterone
Yukiko Ogino, Shinichi Miyagawa, and Taisen Iguchi
f. 11-Ketotestosterone
Yukiko Ogino, Shinichi Miyagawa, and Taisen Iguchi
g. Estradiol-17β
Tomomi Sato, Shinichi Miyagawa, and Taisen Iguchi
h. Estrone
Tomomi Sato, Shinichi Miyagawa, and Taisen Iguchi

123. Corticosteroids
Yoshinao Katsu and Michael E. Baker
a. Corticosterone
Yoshinao Katsu and Michael E. Baker
b. 18-Hydroxycorticosterone
Yoshinao Katsu and Michael E. Baker
c. 1α-Hydroxycorticosterone
Yoshinao Katsu and Michael E. Baker
d. Cortisol
Yoshinao Katsu and Michael E. Baker
e. Aldosterone
Yoshinao Katsu and Michael E. Baker
124. Neurosteroids
Kazuyoshi Tsutsui and Shogo Haraguchi
a. Pregnenolone sulfate
Kazuyoshi Tsutsui and Shogo Haraguchi
b. 7α-Hydroxypregnenolone
Kazuyoshi Tsutsui and Shogo Haraguchi
c. Allopregnanolone
Kazuyoshi Tsutsui and Shogo Haraguchi
125. Vitamin D derivatives
Yoshihiko Ohyama and Toshimasa Shinki
a. Calcitriol
Yoshihiko Ohyama and Toshimasa Shinki
b. Cholecalciferol
Yoshihiko Ohyama and Toshimasa Shinki

IV. Lipophilic hormones in invertebrates
126. Ecdysteroid
Takumi Kamiyama and Ryusuke Niwa
a. 20-Hydroxyecdysone
Takumi Kamiyama and Ryusuke Niwa
127. Juvenile hormone
Tetsuro Shinoda
128. Methyl farnesoate
Tetsuro Shinoda

V. Endocrine disrupting chemicals
129. Endocrine disruptors
Shinichi Miyagawa, Tomomi Sato, and Taisen Iguchi
a. Nonylphenol
Shinichi Miyagawa, Tomomi Sato, and Taisen Iguchi
b. Octylphenol
Shinichi Miyagawa, Tomomi Sato, and Taisen Iguchi
c. Bisphenol A
Shinichi Miyagawa, Tomomi Sato, and Taisen Iguchi
d. Dichlorodiphenyltrichloroethane
Shinichi Miyagawa, Tomomi Sato, and Taisen Iguchi
e. 17α-Ethinylestradiol
Shinichi Miyagawa, Tomomi Sato, and Taisen Iguchi
f. Equilin
Shinichi Miyagawa, Tomomi Sato, and Taisen Iguchi
g. 2,3,7,8-Tetrachlorodibenzo-p-dioxin polychlorinated biphenyls
Yukiko Ogino, Shinichi Miyagawa, and Taisen Iguchi
h. 1,1-Dichloro-2,2-bis(p-chlorophenyl) ethylene
Tomomi Sato, Shinichi Miyagawa, and Taisen Iguchi
i. Vinclozolin
Tomomi Sato, Shinichi Miyagawa, and Taisen Iguchi
j. Polybrominated diphenyl ether
Tomomi Sato, Shinichi Miyagawa, and Taisen Iguchi
130. Antithyroid hormone active chemicals
Kiyoshi Yamauchi
a. Tetrabromobisphenol A
Kiyoshi Yamauchi
b. Perchlorate
Kiyoshi Yamauchi

VI. Amines and amino acids
131. Amines
Takayoshi Ubuka
a. Dopamine
Takayoshi Ubuka
b. Noradrenaline/adrenaline
Takayoshi Ubuka
c. Octopamine
Takayoshi Ubuka
d. Serotonin
Takayoshi Ubuka
e. Melatonin
Takayoshi Ubuka
f. Histamine
Takayoshi Ubuka
132. Amino acids
Takayoshi Ubuka
a. Glutamic acid
Takayoshi Ubuka
b. γ-Aminobutyric acid
Takayoshi Ubuka
c. Glycine
Takayoshi Ubuka
133. Acetylcholine
Takayoshi Ubuka

VII. Gasotransmitters
134. Gasotransmitter family
John A. Donald
a. Nitric oxide
John A. Donald and Melissa S. Cameron
b. Carbon monoxide
John A. Donald and Melissa S. Cameron
c. Hydrogen sulfide
John A. Donald