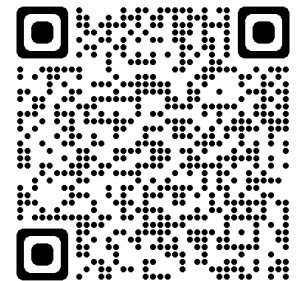


goRENIシステムを使った INHAND用語の検索法

https://www.goreni.org/gr3_index.php



goRENIシステムを使ったINHAND用語の検索法

- goRENIへのアクセス法
- げっ歯類のINHAND用語の検索
- INHAND用語をEXCELファイルでダウンロード
- 非げっ歯類のINHAND用語の検索
- INHAND用語の追加・変更登録リクエスト
- 初版から追加・変更された所見一覧

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02-Feb-2021

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Organ Systemsで目的の臓器を探す場合



20-Oct-2022

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• **Rodent** ▾

[select diagnoses](#)

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Select diagnoses via Organ Systems

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Organ System Selection: General Pathology

- Cardiovascular System
- Digestive System
- Endocrine System
- Female Reproductive System
- General Pathology**
- Hematolymphoid System
- Hepatobiliary System
- Integument
- Male Reproductive System
- Mammary Gland and other
- Nervous System
- Respiratory System
- Skeletal Tissues
- Soft Tissue
- Special Senses
- Urinary System

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Cardiovascular System

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General hematolymphoid

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- [Infiltrate \(indicate modifier\)](#)
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- [Inflammation, granulomatous](#)
- [Inflammation, mononuclear cell, lymphocyte, monocyte, eosinophil, mixed cell, lymphoplasmacytic, or pyogranulomatous](#)
- [Inflammation, neutrophil](#)
- [Metaplasia, osseous](#)
- [Mineralization](#)
- [Necrosis](#)
- [Pigment, macrophage](#)
- [Tingible body macrophage, increased](#)
- [Vacuolation, macrophage](#)

Neoplasms see:

- [Hematolymphoid neoplasms](#)


See also:

- [Generally used pathology terms](#)

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Organ Systemでは臓器に関係ないgeneral termsも検索できます。

Organs で目的の臓器を探す場合



Registry Nomenclature Information System

20-Oct-2022

Diagnostic Criteria

[select species](#)

- **Rodent** ▾

[select diagnoses](#)

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Organ Selection: A B C D E F G H I J K L M N O P R S T U V Z

A

- Adipose tissue
- Adrenal gland
- Ampullary gland
- Anterior chamber
- Aorta
- Aqueous humor

B

- Blood vessels
- Bone marrow
- Bone, NOS
- Brain
- Bronchi
- Bulbourethral gland

C

- Cecum
- Cerebellum
- Cerebral meninx
- Cerebrum
- Choroid
- Ciliary body
- Clitoral gland
- Coagulating gland
- Colon
- Conjunctiva
- Cornea
- Cutaneous adnexa

D

- Amyloid
- Angiectasis
- Atrophy, cortex
- Cyst, cortex
- Degeneration, cystic
- Ectopic tissue, adrenocortical
- Extramedullary hematopoiesis
- Fibrosis
- Hemorrhage
- Hypertrophy, cortex, diffuse
- Hypertrophy, cortex, focal
- Infiltrate, inflammatory cell
- Inflammation
- Metaplasia, osseous
- Mineralization
- Necrosis
- Persistent X-zone
- Pigment
- Thrombus
- Vacuolation, cortex, decreased, diffuse
- Vacuolation, cortex, decreased, focal
- Vacuolation, cortex, increased, diffuse
- Vacuolation, cortex, increased, focal

See also:

- Generally used pathology terms

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動物マークをクリックすると他の動物種での文献を見ることができます。

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Vacuolation, cortex, increased, diffuse – Adrenal gland

VACUOLATION, CORTEX, INCREASED, DIFFUSE (N) Adrenal gland

Species
Mouse, Rat

Other terms
Fatty change; Lipidosis; Lipoid hyperplasia.

Pathogenesis/cell of origin
Degeneration or lipid retention of the cortical cells.

Diagnostic Features

- Small, foamy and optically clear vesicles (microvesicular) or large vacuoles (macrovesicular) in cytoplasm of cortical cells.
- The cells may be enlarged and/or the number of cortical cells may be increased.
- Diffuse cytoplasmic vacuolation of cortical cells is associated with involvement of one or more zones of the cortex, usually including the zona fasciculata
- Cellular enlargement caused primarily by the accumulation of lipid is diagnosed as vacuolation and not hypertrophy
- Usually bilateral.

Differential Diagnoses

HYPERTROPHY, CORTEX, DIFFUSE:

- Enlarged cortical cells with eosinophilic or finely granular cytoplasm; vacuolation is not a dominant feature.

HYPERPLASIA, CORTEX, DIFFUSE:

- Increased number of cortical cells, and vacuolation is usually not a dominant feature.

Comment
Diffuse microvesicular vacuolation is a normal pattern in the adrenal cortex. In some strains there is a slight difference between genders. The vacuoles that occur in adrenal cortical cells with increased vacuolation can represent lipid vacuoles, swollen mitochondria, or phospholipidosis. Electron microscopy can be helpful to differentiation the nature of the vacuoles. A variety of xenobiotics can increase lipid deposition and macrovacuolar vacuolation in the adrenal cortex usually by inhibition of steroid synthesis. This may not only produce an accumulation of lipid and retention of a xenobiotic, but also adaptive hypertrophy, hyperplasia and even neoplasia. There may be a concurrent increase in vacuolation of the interstitial steroid-producing cells of the ovary.

Changes

Click on an image for larger size

Fig. 1
[Publ. Fig. 112]

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Vacuolation, cortex, increased, diffuse – Adrenal gland

VACUOLATION, CORTEX, INCREASED, DIFFUSE (N) Adrenal gland

INHAND Publication

- Brändli-Balocco A, Balme E, Bruder M, Chandra S, Hellmann J, Hoenerhoff MJ, Kambara T, Landes C, Lenz B, Mense M, Rittinghausen S, Satoh H, Schorsch F, Seeliger F, Tanaka T, Tschitani M, Wojcinski Z, Rosol TJ (2018) Nonproliferative and proliferative lesions of the rat and mouse endocrine system *J Toxicol Pathol* 31: 1S–95S doi:10.1293/tox.31.1S

Publication for the Minipig

- Vacuolation, cortex, increased, diffuse – Adrenal gland **Minipig**
- Skydsgaard M, Dincer Z, Haschek WM, Helke K, Jacob B, Jacobsen B, Jeppesen G, Kato A, Kawaguchi H, McKeag S, Nelson K, Rittinghausen S, Schaudien D, Vemireddi V, Wojcinski ZW (2021) International harmonization of nomenclature and diagnostic criteria (INHAND): Nonproliferative and proliferative lesions of the minipig. *Toxicol Pathol* 49: 110–228 doi:10.1177/0192623320975373

Publication for the Primate

- Vacuolation, cortex, increased, diffuse – Adrenal gland **Primate**
- Colman K, Andrews RN, Atkins H, Boulineau T, Bradley A, Braendli-Balocco A, Capobianco R, Caudell D, Cline M, Doi T, Ernst R, van Esch E, Everitt J, Fant P, Gruebbl MM, Mecklenburg L, Miller AD, Nikula KJ, Satake S, Schwartz J, Sharma A, Shimoi A, Sobry C, Taylor I, Vemireddi V, Vidal J, Wood J, Vahle JL (2021) International harmonization of nomenclature and diagnostic criteria (INHAND): Non-proliferative and proliferative lesions of the non-human primate (*M. fascicularis*). *J Toxicol Pathol* 34: 1S–218S doi:10.1293/tox.34.1S

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British Society of Toxicological Pathology

INHAND用語をEXCELファイルでダウンロードする場合

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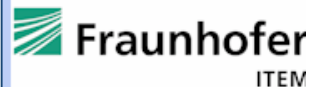
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- **Rodent** ▼

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Tools

Downloads

If you are interested to implement the standardized **goRENI** nomenclature into your own pathology data acquisition system, you can download the data as Excel files from this page. Please specify below, which data you need.  click the '**Download**' button. The file(s) will be sent via e-mail to you:

Satou@nrc.riken.go.jp

Published terms:

The Excel file '[INHAND_published.csv](#)' contains for all published Rodent diagnoses: organ and lesion names, modifiers, synonyms, and the respective identification numbers.

Old versions:

- goRENI, version 2.2:**
Status after publication of respiratory system and liver (December 2010).
- goRENI, version 2.4:**
Status after publication of urinary and nervous systems (June 2012).
- goRENI, version 2.6:**
Status after publication of mammary gland and male reproductive system (August 2012).
- goRENI, version 2.8:**
Status after publication of soft tissue and integument (October 2013).
- goRENI, version 2.9:**
Status after publication of female reproductive system (December 2014).
- goRENI, version 2.10:**
Status after publication of digestive system (February 2016).
- goRENI, version 3.12:**
Status after publication of cardiovascular system and skeletal tissues (August 2016).
- goRENI, version 3.14:**
Status after publication of endocrine system and special senses (August 2018).
- goRENI, version 3.15:**
Status after publication of hematolymphoid system and harmonization of terms (December 2019).

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Nomenclature file from goRENI, version 3.19 as of 20-Oct-2022

	A	B	C	D	E	F	G	H	I	J	K
1	Nomenclature file from goRENI, version 3.19 as of 20-Oct-2022										
2	Organ Wo	Organ	Lesion	Modifier(s)	Synonym(s)	Biol. Beha	Status	DiagNo	OrganNo	LesionNo	
3	Respirator	Bronchi	Adenocarcinoma			M	Published	5157	1012	9001	
4	Respirator	Bronchi	Bronchiectasis			N	Modified a	5047	1012	6121	
5	Respirator	Bronchi	Carcinoma, squamous cell			M	Published	5158	1012	9020	
6	Respirator	Bronchi	Degeneration			N	Published	5040	1012	6105	
7	Respirator	Bronchi	Ectasia, submucosal gland			N	Modified a	5043	1012	6122	
8	Respirator	Bronchi	Erosion/ulcer			N	Modified a	5042	1012	6317	
9	Respirator	Bronchi	Hyperplasia, atypical			H	Modified a	5155	1012	7069	
10	Respirator	Bronchi	Hyperplasia, mucous cell			H	Published	5151	1012	7041	
11	Respirator	Bronchi	Hyperplasia, neuroendocrine ce			H	Published	5132	1012	7031	
12	Respirator	Bronchi	Hyperplasia, respiratory epithel			H	Modified a	5154	1012	7073	
13	Respirator	Bronchi	Hyperplasia, squamous cell			H	Published	5133	1012	7022	
14	Respirator	Bronchi	Infiltrate	Type of inflammatory		N	Added aft	5020	1012	6272	
15	Respirator	Bronchi	Inflammat	Acute; Granulomatou		N	Modified a	5045	1012	6257	
16	Respirator	Bronchi	Metaplasia, squamous cell			H	Published	5152	1012	7027	
17	Respirator	Bronchi	Necrosis			N	Published	5041	1012	6116	
18	Respirator	Bronchi	Papilloma			B	Published	5156	1012	8038	

INHAND_published (Nomenclature)

臓器ごとの所見一覧をみることで、Published, Modified after publication, Added after publicationといった初版からの所見の推移を確認できます。

非げっ歯類のINHAND用語の検索



The star

- ・非げっ歯類の所見集の閲覧方法です。
- ・左側のコラムで動物種を選択してください。

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Diagnostic Criteria

select species

select diagnoses

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April 2018)! In addition to its complete re-engineering adapted to accommodate a large variety of screen size. For example, the Search now highlights all hits in the

to navigate through **goRENI**. If you need assistance, part. Non-rodent species have been added starting in / of interest to enable proper navigation within that species you may read the **Instructions** first. Please see also the **NI** according to your personal preferences.

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非げっ歯類のINHAND用語の検索

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A

- ◆ [Adipose tissue](#)
- ◆◆ [Adrenal gland](#)
- ◆◆ [Anterior chamber](#)
- ◆◆ [Aqueous humor](#)

B

- ◆ [Blood vessels](#)
- ◆ [Bone](#)
- ◆ [Bone marrow](#)
- ◆ [Brain](#)
- ◆ [Bronchi](#)

C

- ◆ [Cerebral meninx](#)
- ◆◆ [Choroid](#)
- ◆◆ [Ciliary body](#)
- ◆◆ [Conjunctiva](#)
- ◆◆ [Cornea](#)
- ◆ [Cutaneous adnexa](#)

D

- ◆ [Dermis and subcutis](#)

E

- ◆◆ [Efferent ducts](#)
- ◆ [Epidermis](#)

Bone marrow

- ◆ [Cellularity, increased, adipocyte](#)
- ◆ [Cellularity, increased, bone marrow](#)
- ◆ [Cellularity, increased, macrophage](#)
- ◆ [Cellularity, increased, mast cell](#)
- ◆ [Angiectasis](#)
- ◆ [Cellularity, decreased, adipocyte](#)
- ◆ [Cellularity, decreased, bone marrow](#)
- ◆ [Dyshematopoiesis](#)
- ◆ [Emperipolesis](#)
- ◆ [Erythrophagocytosis](#)
- ◆ [Fibrosis](#)
- ◆ [Hypersegmentation, granulocyte](#)
- ◆ [Serous atrophy of fat](#)
- ◆ [Vacuolation, macrophage](#)

General terms see:

- [General hematolymphoid](#)

See also:

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げっ歯類の用語を基本として表示されていますが、追加された用語等は下線で示されています。

非げっ歯類のINHAND用語の検索

General Terminology

General terms that can be used across organs and tissues of the hematology system are presented in the following table.

Table 6.1: Microscopic Findings in the Hematology System: General Terms, Dog

General hematology	Common	Uncommon	Not observed, but potentially relevant	Not applicable
Congenital				
APLASIA/HYPOPLASIA			X	
Nonneoplastic				
ABSCESS		X		
AMYLOID			X	
APOPTOSIS, INCREASED, LYMPHOCYTE[#]		X		
ERYTHROPHAGOCYTOSIS[*]	X			
EXTRAMEDULLARY HEMATOPOIESIS (EMH)[#]		X		
GRANULOMA		X		
INFILTRATE, [INSERT APPROPRIATE CELL TYPE][^]		X		
INFLAMMATION (INDICATE MODIFIER)[^]		X		
INFLAMMATION, GRANULOMATOUS		X		
INFLAMMATION, MONONUCLEAR CELL, LYMPHOCYTE, MONOCYTE, EOSINOPHIL, MIXED CELL, LYMPHOPLASMACYTIC, OR PYOGRANULOMATOUS		X		
INFLAMMATION, NEUTROPHIL				
METAPLASIA, OSSEOUS			X	

さらに用語は、よく観察される所見(Common)、あまり観察されない所見(Uncommon)、適用なし(Not applicable) 特有所見などに一覧表として説明されています。

Please note: Click on lesion term will stay within species. Click on table mark will display Rodent description.

Dog-specific diagnostic criteria or comments

- [ERYTHROPHAGOCYTOSIS](#)
- [PIGMENT, MACROPHAGE](#)
- [VACUOLATION, MACROPHAGE](#)

INHAND用語の追加・変更登録リクエスト



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• Reference material

Request for a new INHAND term or modification to existing terms

Pathologists who discover a lesion in a toxicity study that is not covered by the INHAND nomenclature (www.goreni.org) are encouraged to request a new INHAND term. In addition, changes, additions, and updates to current terms may be desirable and may be requested as well.

For a most efficient process it is mandatory that the submitting pathologist provides a precise description of the lesion in question. This description should meet the INHAND format and should consider the general INHAND principles (Mann PC et al. 2012). A bullet point style is recommended. A respective template is provided below which should be completed thoroughly. The request will be reviewed by the INHAND Global Editorial and Steering Committee (GESC) and the respective Organ Working Group (OWG). GESC and OWG will decide on the request in a timely manner. If there is a delay, the submitter will be informed and be kept apprised of progress on the request. The GESC will accept without modification, accept with suggestion of modification, or reject. Once accepted, the new term will be added to the INHAND nomenclature. This new term will also be communicated to SEND by periodic update and in this way will be added to the recommended SEND-nomenclature. It will, therefore, facilitate later submission processes to FDA.

Please choose the appropriate category for change requested:

- **New term with new description**
- **Additional organs/topography for published INHAND term**
- **Change of published term**
- **Change of/addition to published description**
- **Additional synonym for published term**
- **Addition of new photograph(s) for published INHAND term**
- **Deletions**

Forms for these types of requests can be found above and on Society web sites.

Completed forms should be emailed to Rupert Kellner, rupert.kellner@item.fraunhofer.de

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ワードの様式がダウンロードできるので、それに必要事項を書き込み、Dr. Rupert KellnerへメールをしてINHAND委員会に提出されます。

現在までに追加・変更登録された用語



20-Oct-2022

Diagnostic Criteria

[select species](#)

• **Dog** ▼

[select diagnoses](#)

- via **Organ Systems**
- via **Organs**
- via the **Index**
- via **Introduction**

goRENI members

- GESC
- Change control
- Calls for comment
- Forum activities
- **Post-publ. changes**

Working Groups

- Guidance Document
- General Document
- INHAND nomenclature
- Non-rodent species
- Reference material
- RITA proliferative

global open RENI

The standard reference for nomenclature and diagnostic criteria in toxicologic pathology.

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Post-publication Changes

See also the **Notes** at the bottom of this page.

Lesion – Organ	Change	Date
Accumulation, macrophage – Skin Rabbit	Added	10-May-2022
Agenesis/hypogenesis – Generally used pathology terms Rabbit	Added	10-May-2022
Bile plug – Liver Rabbit	Added	10-May-2022
Eosinophil granulocytic sarcoma – Bone marrow; Spleen; Lymph node; MALT (mucosa-associated lymphoid tissue) Rabbit	Added	10-May-2022
Gonadoblastoma – Testis Rabbit	Added	10-May-2022
Rhabdomyoma – Soft tissue; Smooth muscle; Skeletal muscle Rabbit	Added	10-May-2022
Rhabdomyosarcoma – Soft tissue; Smooth muscle; Skeletal muscle Rabbit	Added	10-May-2022
Adenoma, subcapsular cell – Adrenal gland Rodent	Modified	18-Jan-2022
Chapter 5: Endocrine System (Overview)	Modified	26-Feb-2021
Tumor, basal cell, benign – Skin; Cutaneous adnexa Rodent	Modified	24-Nov-2020
Tumor, granular cell, benign – Soft tissue Rodent	Added	24-Nov-2020
Adenoma, endometrium – Uterus; Uterine cervix Rodent	Modified	20-Jul-2020
Emphysema, bronchiectasis – Bronchi; Lung; Bronchioles Rodent	Modified	17-Jul-2020
Emphysema, interstitial – Kidney Rodent	Added	17-Jul-2020
Material, extracellular [insert morphology/color] – Lung; Lung: Bronchioles; Lung: Terminal bronchioles; Lung: Alveoli Rodent	Added	17-Jul-2020
Papilloma, urothelial cell – Ureter; Urinary bladder; Urethra Rodent	Modified	17-Jul-2020
Infiltrate – Nasal cavity; Paranasal sinus; Nasopharynx; Larynx; Trachea; Bronchi; Lung: Bronchioles; Lung: Terminal bronchioles; Lung: Alveoli; Pleura Rodent	Added	17-Dec-2019
Inflammation – Larynx; Trachea; Bronchi; Lung: Bronchioles Rodent	Modified	13-Aug-2019
Accumulation, adipocytes, interstitial – Kidney Rodent	Modified	01-Aug-2019
Adenocarcinoma, endometrium – Uterus; Uterine cervix Rodent	Modified	01-Aug-2019
Adenoma, cortex – Adrenal gland Rodent	Modified	01-Aug-2019
Adenoma, hepatocyte – Liver Rodent	Modified	01-Aug-2019
Adnexal dysplasia – Skin; Cutaneous adnexa Rodent	Modified	01-Aug-2019