

TA98 Entity Page

Summary

The Entity Page is the presentation of a maximum of information which is specifically linked to an anatomical entity, as defined in the TA and identified by the TA reference ID or the TA code. On the contrary of other pages, which are section oriented or larger assemblies, this page is concerned by a single entity.

The information of interest on the Entity Page is of the following categories, which are presented in successive sections on this page. They are: the identification information, the Latin and English language representations, the notes about the creation and update processes applied to the TA database, the different properties, either single-valued properties and bi-valued linkages, the part-whole TA hierarchy and the FMA taxonomy hierarchy.

This page is clearly about the natural unit of information in the TA, which is a single *anatomical entity*, borrowing this term to the FMA, from which it is the top level entity. TA is in essence concerned by properly distinguishing the units of gross anatomy which are the anatomical entities. Being principally a terminology, TA is concerned by the unambiguous naming of these entities, first in a reference language which is Latin, and

Table of content

Summary	1
Presentation	4
<i>Identification</i>	4
<i>Language section</i>	5
<i>Property section</i>	6
<i>Annotation section</i>	7
<i>Part-whole hierarchy</i>	7
<i>Taxonomy hierarchy</i>	8
Layout presentation	10

second in any language of interest, where medical concepts are of importance and medicine is teach, as well as multiple health care related professions.

But TA is definitely more than a simple terminology, because all disciplines are linked together. There is no final naming enterprise without clear definitions of the entities to be named. At a certain degree of detail, it is necessary to be extremely precise about what we are speaking of. How could we name an object as long as some vagueness and ambiguities are present about its limits, its properties, its functions, etc. It is definitively true that the TA98 was a real improvement when published in 1998. It relies at this moment on an implicit consensus between anatomists of what is what in this domain. And this consensus, based on more than 1000 years of medicine, was a reality.

But further improvements are expected from the scientific community. Computer applications of major importance are pointing to the horizon. New bases for the anatomy of tomorrow are emerging and the TA terminology is without doubt a corner stone.

The explicit rendering of a full length part-whole TA hierarchy is possible today. Alongside with the FMA taxonomy, these two hierarchies are the future skeleton of anatomy. For this fundamental reason, the TA partitive hierarchy is made explicit. On the Entity Page, each TA entity is positioned in the TA hierarchy, as well as in the FMA taxonomy.

Presentation

The Entity Page is divided at maximum into 6 sections according to the kind of information which is there presented. Not all sections are not necessarily present on all pages. The sections are the following:

- * Identification section
- * Language section
- * Property section
- * Annotation section
- * Part-whole hierarchy
- * Taxonomy hierarchy

These sections will be examined now in turn.

Identification

There are two different identifiers in the TA, which played different roles according to time. The initial unique identifier in the TA98 version is the 11-character TA code. The emerging new identifier for RevTermA is a unique sequential number, which is totally blind and computer-generated. When TA is to be referenced by external sources, the recommended format is the prefix A followed by the TA 11-character code or the TA internal identifier. For example *A05.1.01.005 labia oris* is compatible with the TA98 source version. Using the new identifier, it has to be prefixed by THA (Terminology of Human Anatomy) giving

THA:2281 labia oris. Both identifiers are present in this section.

In addition, the entity type is now visible, which is made explicit in the TA98 online version. There are presently four possible values: *material entity*, *immaterial entity*, *composite entity* and *non physical entity*. These values are set according to the corresponding property values discussed in the Property section below.

Language section

This section provides all the Latin and English terms which are present in the database for the current entity.

The following terms are visible when they exist:

- the Latin precursor,
- the Latin source TA98 term, when different from the Latin precursor,
- any number of official Latin synonyms,
- the English equivalent,
- the English source TA98 term, when different from the English equivalent,
- any number of official English synonyms.

The Latin precursor and the English equivalent are mandatory.

The Latin precursor being analyzed on the basis of the Latin dictionary, it serves as an hyperlink to the corresponding Latin Page.

Property section

This section displays the 7 properties which shows a positive value for the current entity. The properties which are candidate for display are the followings: bilaterality, multiplicity, reference, inconstant, gender, immateriality and non-physical object.

A short description of each property and its values is given now:

- **Bilaterality:** a bilateral entity represents in reality a left and a right entity,
- **Composite:** any entity occurring a multiple number of times, called a composite entity, generally named by a plural term.
- **Reference:** an entry of the TA which is a pointer to another entity of the TA.
- **Inconstant:** an entity which is not present in all human beings.
- **Gender:** a flag for entities which are specific to a gender, male or female, sharing a unique TA code.
- **Immateriality:** a flag for immaterial entities,
- **Non-physical:** a flag for non physical entities.

See the Property Page document for more information about properties.

Annotation section

This section displays the different notes of the TA, when present.

There are five types of notes: the *TA98 footnotes*, the *TA98 correction notes*, the *TA98 RAT notes*, the *redirection notes* and the *problem notes*. A short description of each type of notes is given now:

- **TA98 footnotes:** these are the end-of-page notes visible in the TA98 source edition.

- **TA98 correction notes:** these are the notes written for each change performed on the TA98 initial version.

- **TA98 RAT notes:** these are the notes written for each change for RAT non-compliance on the TA98 initial version.

- **Redirection notes:** these are the horizontal links presents in the TA.

- **Problem notes:** these are the notes written as a remainder for any problem to be solved in a future revision.

Part-whole hierarchy

This section presents the TA part-whole hierarchy, which is now made explicit in this TA98 online edition. This means that any TA entity has a position (and only one) in

the TA tree under the newly created entity *A01.0.00.000 corpus humanum*. The different aspects of this hierarchy are detailed in a separate document.

Taxonomy hierarchy

This section presents the FMA hierarchy (Foundational Model of Anatomy) as developed by the Structural Informatics Group at University of Washington, Seattle, USA. This hierarchy is a pure taxonomy, uniquely composed of isa links. This means that any child inherits all the properties of its father, under the principle of *genus and differentia*.

The FMA hierarchy being publicly available, it has been copied on our web site and it is reproduced as is. The responsibility of its content is left to their authors and is not endorsed by FIPAT.

This section appears only when a match has been established between the TA entity and a FMA entity, what is true in more than 99 percent of the cases.

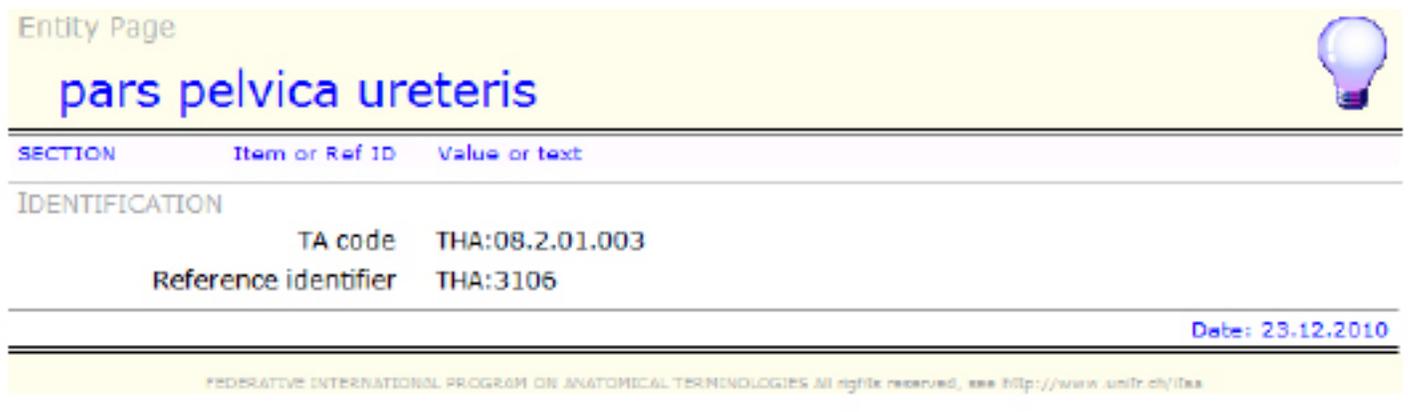
Layout presentation

A detailed description of all elements on the Entity Page (see Figure 1) is provided in this section.

The general layout is governed by the following features:

★ **Layout control:** the final layout is dependant on a CSS style sheet (**TAPage.css** file). The details below correspond to the standard file, which evidently can be modified in other circumstances.

★ **Page width:** this page is compatible with a screen 800 pixels wide.



Entity Page

pars pelvica ureteris 

SECTION	Item or Ref ID	Value or text
IDENTIFICATION		
	TA code	THA:08.2.01.003
	Reference identifier	THA:3106

Date: 23.12.2010

FEDERATIVE INTERNATIONAL PROGRAM ON ANATOMICAL TERMINOLOGIES All rights reserved, see <http://www.unifr.ch/ifa>

Figure 1: Header, first section and footer of the Entity Page.

This figure shows a truncated Entity Page, where the principal sections have been removed, but the global structure of the layout is visible.

* **Page font:** the font is sans serif, with possibly different variants dependant on the web navigator and the local configuration.

* **Blocks:** except the header and the signature, this page is included between two double line black rules. In addition, sections are separated by single line black rules.

* **Presentation language:** concerning the titles, subtitles, headers and bubbles, this page can be generated in English or French.

* **Page length:** this page usually fit on a single screen. When necessary the page is extended and a scroll bar control is made available on the right of the page.

* **Printed page:** A printed version of the page is also available, of which the final layout is controlled by a CSS style sheet (**TAPageP.css** file).

The header presents the following elements:

* **Page type:** Light bold text describing the type of page, left justified. It specifies the presentation language

* **Page title:** The text of the title is left justified. It is composed of the Latin precursor of the current entity in dark blue on a light background in a large font. When the title length is more than 50 characters long, a smaller font is used in place of the large font. The Language equivalent

is presented in bubble according to the specified presentation language.

* **Help icon:** on the right of page title but at the same level is located the help icon about the Entity Page. When clicked, the present document is open in place of the Entity Page. The back button of the web navigator can be used in order to return to the Entity Page itself. To open the help document in a separate window, click with the Control key down.

* **Column headers:** each column has its own header, which is possibly accompanied by a bubble information appearing when the mouse cursor is on the field.

The Entity Page is composed of 6 sections displaying information into 3 columns, which are now described:

* **Section title:** first column, for the title of the section in upper case letters in a light gray color, left justified.

* **Information type or reference identifier:** second column, for the type of information to be displayed in the third column, in black, right justified.

* **Value or text:** third column, for value or text of the specified information, in black, left justified on a light colored background depending of the used language: yellow for Latin, pink for English, light green for French.

The sections of the table are presented now:

* **Identification section:** this mandatory section identifies the entity presented on this page. There are two items: the *TA code* in the form of an external reference; the *TA reference identifier* in the form of an external reference. Both fields are unique. In addition, the type of entity is specified as *material*, *immaterial*, *composite* or *non-physical*.

* **Language section:** The left column gives the type of term in black, with an explicative bubble open when the mouse cursor is on this field. The right column gives the language term on a light colored background: yellow for Latin, pink for English, green for French, etc.

* **Property section:** The left column is used for property type in black preceded by the property icon. The right column displays an explanation about this property, in black. Only the property with a true value are displayed.

* **Annotation section:** The left column gives the type of note, in black, with some information in a bubble open when the mouse cursor is on this field. The right column is the text of the note, in English.

* **Part-whole hierarchy:** The hierarchy is made of two parts: the ancestors including the actual entity and the descendants. The ancestors are displayed before the actual entity. In the left column appears the TA unique identifier, and the TA code in bubble. In the right column appear the Latin precursors with increasing indentation

when the number of levels increases starting from the actual entity level. The actual language terms are visible in bubble. The descendants are displayed after the actual entity, if they exist. In the left column appears the TA unique identifier, and the TA code in bubble. In the right column appear the Latin precursors with an increasing indentation when the number of levels decreases starting from the actual entity level. The actual language terms are visible in bubble. The right column being in Latin, it has the light yellow background of this language. All positions in the hierarchy are in fact hyperlinks to their corresponding Entity Pages.

* **Taxonomic hierarchy:** In the left column are the FMA external identifiers, in black, right justified. In the right column are the FMA terms, which may be slightly different of the TA terms. They are English terms with an increasing indentation when the number of levels in the FMA hierarchy increases starting from the actual entity level in the FMA. The right column being in English, it has the light pink background of this language.

Finally, the footer of the page is as follow:

* **Date of generation:** The date when the page was last generated is displayed at the right bottom. Each generation is dependent on the actual version of the database at this date.

* **Signature:** the standard IFAA/FIPAT signature.