

# The challenges of sharing open educational resources *in the context of anatomy education*

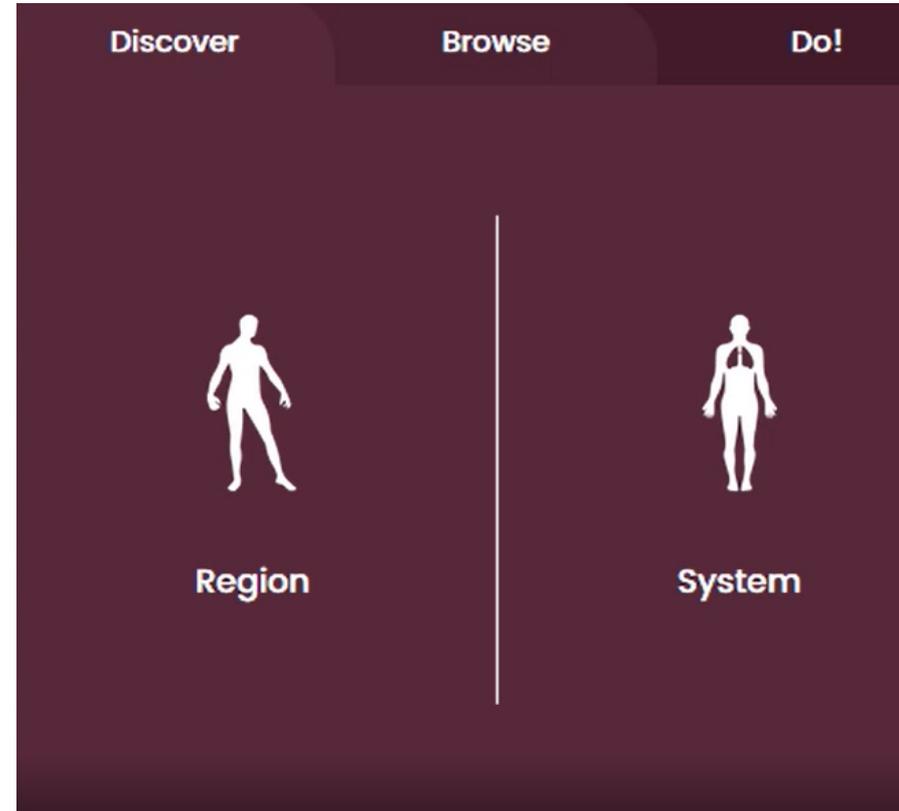
Maastricht University Library

Gaby Lutgens  
Date: 25 June 2021



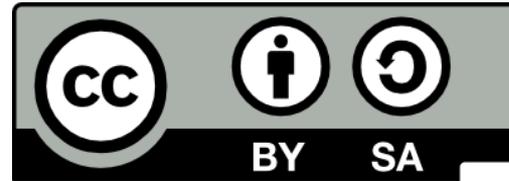
# Context of the TOOL-anatomy project

- Dutch [incentive scheme](#) on open & online education
- Collaboration 7 UMCs
- Supported by Dutch Association of Anatomists



# Goal of the project

- Freely accessible for everyone (without login)
- Platform built as open source (Github)
- Reusable and adaptable material
- Building a collection by co-creation
- Reviewed by anatomists
- Findable via edusources



# Building a collection

*joint effort of anatomists and libraries*

- Searching on the internet
  - Criteria
  - Inquiry if material asked for (too good to be true..)
- Creating new images (e.g. embryology)
- Inviting anatomists to share their images from practice
- Adapting existing images (Sobotta atlas)

# Adding material

- Everyone after login
- Metadata

ANATOMYTOOL

## Edit Image Leiden – Drawing Entry points of inguinal and femoral hernia's, internal view – English labels

View Edit Review

⚠️ If you edit this item, it's review state will go back to 'unreviewed'.

Do not forget to save your work before clicking another tab!

**Title \***

Leiden – Drawing Entry points of inguinal and femoral hernia's, internal view – English labels

**- Data**

**Image type \***

Local Image

**Description**

**B I U S** [Rich text editor toolbar]

Format | Font | Size | Styles | [Rich text editor toolbar]

Entry points of inguinal and femoral hernia's in inguinal area shown on internal view of male inguinal area. The image shows the inguinal area as viewed internally, for instance during laparoscopy. Based on [Male inguinal area internal view - no labels](#), Illustration by Ron Slagter, labeled by Paul Gobée, MD

**Image \***



📎 Entry points of inguinal and femoral hernia's in inguinal area, internal view, compact, English labels.png (917.37 KB) Remove

**Alternate text**

This text will be used by screen readers, search engines, or when the image cannot be loaded.

**Title**

The title is used as a tool tip when the user hovers the mouse over the image.

[Show row weights](#)

**Creator(s)/credit \***

creator type: Author-creator-credit

**Prefix Title(s)**

Prof. dr. --

**Forename**

Ron

Initials or Forename(s)

**Surname \***

Slagter

**Suffix Title(s)**

NZMBI

Academic title(s) that are suffixed to the name. E.g. PhD, MD.

**Function**

medical illustrator

Job title, functional position or function within the organization. E.g. anatomist, ass. professor, illustrator, student.

**Institution**

Netherlands, Leiden – Leiden University Medical Center, Leiden University

**URL of website of creator**

<https://nl.linkedin.com/in/ron-slagter-2905a95>

If available, give URL of a website that refers to the creator. In the recommended (Creative Commons) attribution message, the creator's name will

Remove

# Review process

ANATOMYTOOL

Leiden – Drawing Spleen with splenorenal and gastrosplenic ligaments – Latin and English labels



View

Edit

Invite for review

Review

All items on AnatomyTOOL must be reviewed to ensure quality. [Read more](#)  
To this aim, please invite a colleague to review this item.

To do so:

1. Enter the e-mail address of the colleague
2. Adapt the invitation text to your liking.
3. Click 'Send invitation to review'

The mail will be sent to your colleague, with a link to the item you created and a review form.  
You will get a message when the colleague has reviewed the item, with the result of the review. If the item is accepted, the item will be tagged 'reviewed' and the review will be publicly displayed together with the name and affiliation of the reviewer. If the reviewer rejects the item only you will get the review. You then can adapt the item and invite the reviewer or someone else to (re-)review it.

E-mail address of reviewer \*

Description

**B I U S** :≡ ≡ ☰ ☲ ☱ ☳

Dear colleague,

I created an item (text, image, video, question, etc.) on the AnatomyTOOL educational platform. To ensure quality all materials on the platform need to be peer reviewed.

Would you be so kind to review this item?

Go to the item and the review form: [node:review\_form]

- Libraries  
*(domain specialists)*
- Anatomy students  
*(with criteria)*
- Anatomists  
*(on invitation)*

# Review status visible

ANATOMYTOOL

Images



Warning: Only reviewed material is shown. Click [here](#) to see also non-reviewed content



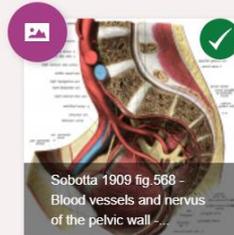
Type and select an:

Include parts of this structure

Region

System

Topics



# Result: the AnatomyTOOL platform

The screenshot shows the AnatomyTOOL platform interface. The browser address bar displays 'anatomytool.org'. The navigation menu on the left includes: Collections, Embryology, Microscopy, Dissections, Radiology, Clinical, Documents, Images, Videos, 3D models, games, Lessons, quizzes, and Anatomy. The main content area displays a list of dissection videos, categorized by quarter and year.

anatomytool.org

Settings Google Ziggo Mail WhatsApp Gaby Posts < Maastricht U... Online Library - Uni... Open Education an... UM Library Intranet | Update

Reading list

Q4 2020

- **28 dissection video's** of neck, brachial plexus, thorax, abdomen, and pelvis minor by UGent
- **3 dissection video's** of abdomen and pelvis by LUMC

Q3 2020

- **Dissection video of thorax** and a version with embedded questions (in 'Quizzes') by LUMC
- 3 new quizzes for biomedical students on histology by UM
- 5 new quizzes for medical students on autonomic nervous system, thorax and heart by LUMC
- 3 new quizzes for scrub nurses on heart and lungs by LUMC
- 10 new drawings by Ron Slagter
- New collection page on **Histology**
- Related items shown more clearly
- Teachers can now view users of their institution to look up their quiz results (tab 'Do')

Q2 2020

- 7 new quizzes on anatomy of pain and involved nervous structures
- 16 new quizzes on stomach, intestines, liver and biliary tract, kidneys, cross-sectional anatomy by LUMC
- **Series of high quality cross-section photo's** by LUMC

## Thorax



### [Heart - collection page](#)

A page referring to 3D models, videos, drawings and quizzes for students about the heart. Subjects: Surface view and chambers of the heart, valves, coronaries, conduction system, congenital heart diseases. Specially recommended: video of a beating heart and of beating valves, a manual explaining the view of the coronaries on angiographies.

## Abdomen



### [Inguinal region - collection page](#)

A page referring to drawings, dissection photo, tutorial video and an e-learning lesson about the inguinal region. Subjects: Inguinal region - external view, Inguinal region - internal view. Specially recommended: powerpoint slides with the images and photo with labels to directly include in your presentations.

# ANATOMYTOOL

## Embryology



Warning: Only reviewed material is shown. Click [here](#) to see also non-reviewed content

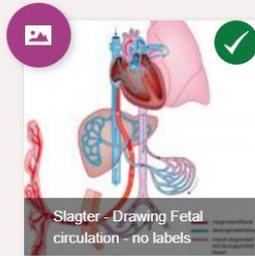
Type and select an:

Include parts of this structure

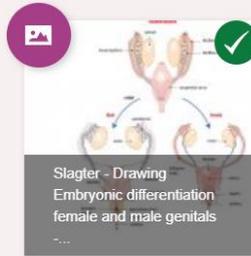
Format

Region

System



Slagter - Drawing Fetal circulation - no labels



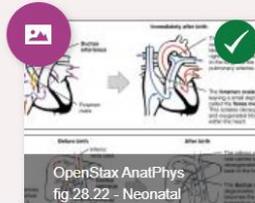
Slagter - Drawing Embryonic differentiation female and male genitals



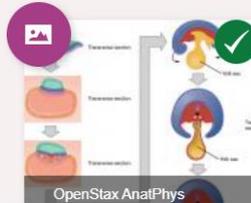
OpenStax AnatPhys fig.28.13 - Neurulation - English labels



OpenStax AnatPhys fig.28.21 - Stages of Childbirth - English labels



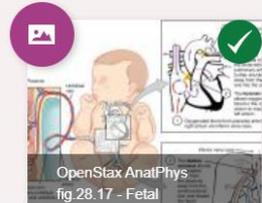
OpenStax AnatPhys fig.28.22 - Neonatal



OpenStax AnatPhys



OpenStax AnatPhys fig.28.16 - Sexual



OpenStax AnatPhys fig.28.17 - Fetal

# ANATOMYTOOL

## Microscopy



Warning: Only reviewed material is shown. Click [here](#) to see also not reviewed content

Type and select an:

Include parts of this structure

Format

Image

Document

Interactive

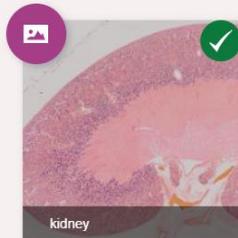
Video



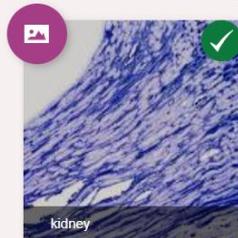
aorta rat 40x



aorta human 20x



kidney



kidney

**aorta rat 40x**

Uploaded by: [aherrier](#), Netherlands, Maastricht - Maastricht University Medical Center+, Maastricht University

Content creator(s)/credit: Andreas Herrler DVM, PhD, anatomist, associate professor, MUMC+

**REVIEWED 10/10** **USE ITEM** **GO TO ITEM**

*elastine stain, aorta, rat, 40x*

# Role of the libraries in the project

- Searching or teaching to search
- Creation of instruments:
  - Criteria for searching & quality (form)
  - Review system (embedded in platform)
- Support in storing & metadating (NL-LOM)
- Making the connection with search portal (OAI-PMH)
- Embedding the platform in educational institutes (next to other databases)
- Inviting teaching staff and students to use the platform

# Developments and food for thought

- Dutch Acceleration Program
  - [TF on digital \(open\) learning material](#)
  - Building an infrastructure ([Sharekit and EduSources search platform](#))
  - Support offer for creators and libraries
- What is needed for sharing and reusing?
  - Skilled library staff (workshop series national library TF)
  - Awareness of copyright issues (CIPs, CopyRIGHT tool)
  - Support for teaching staff (storing and metadating)
  - Acknowledgement and policy for sharing and reusing

## Thanks to TOOL WP-partners:

- Loes Hazes, librarian VU
- Claudia Pees, librarian LUMC
- Paul Gobée, project leader/anatomist LUMC
- Alexander Bijnsveld, anatomist VU

## More info:

<https://anatomytool.org/TOOL2>

