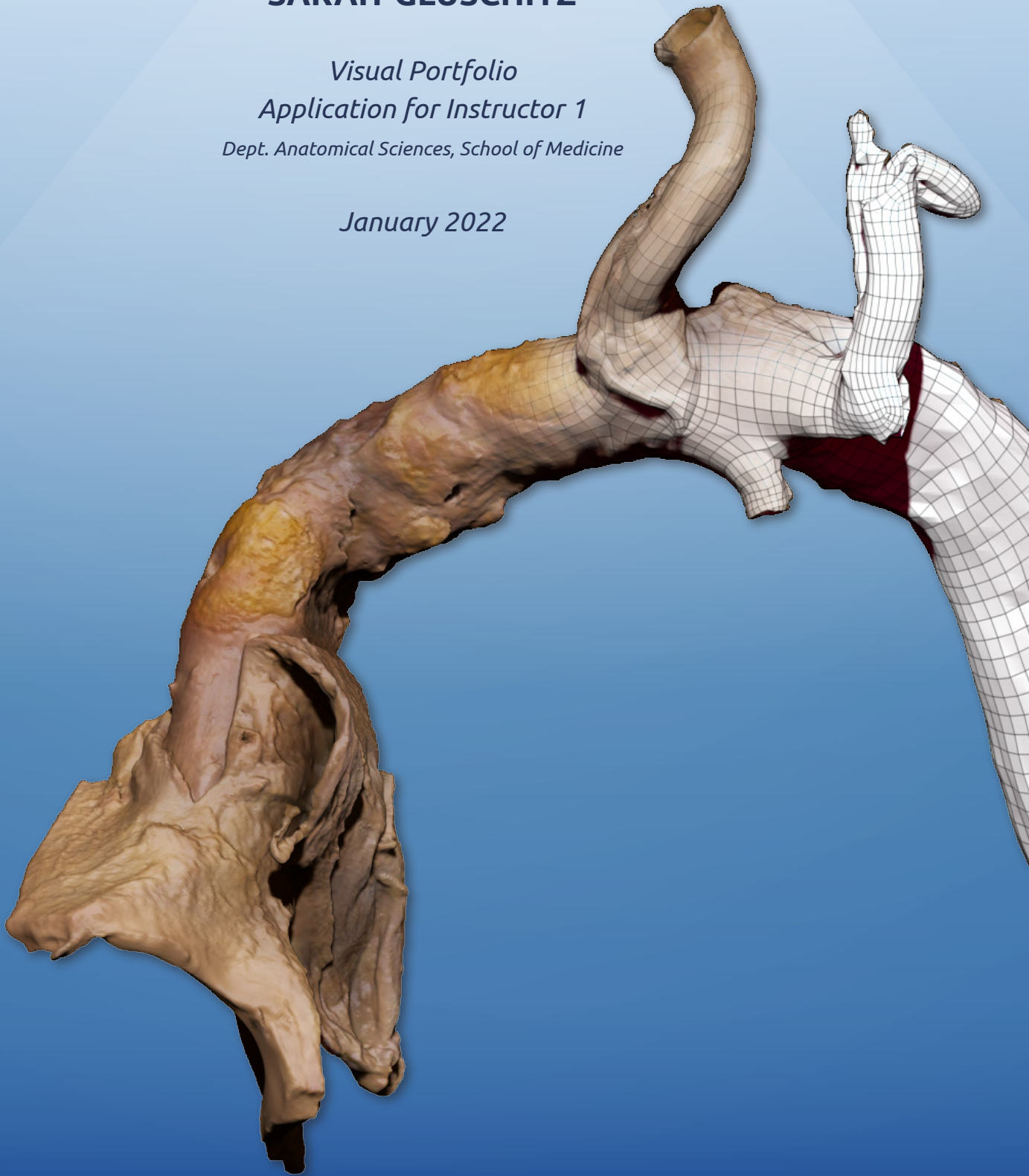
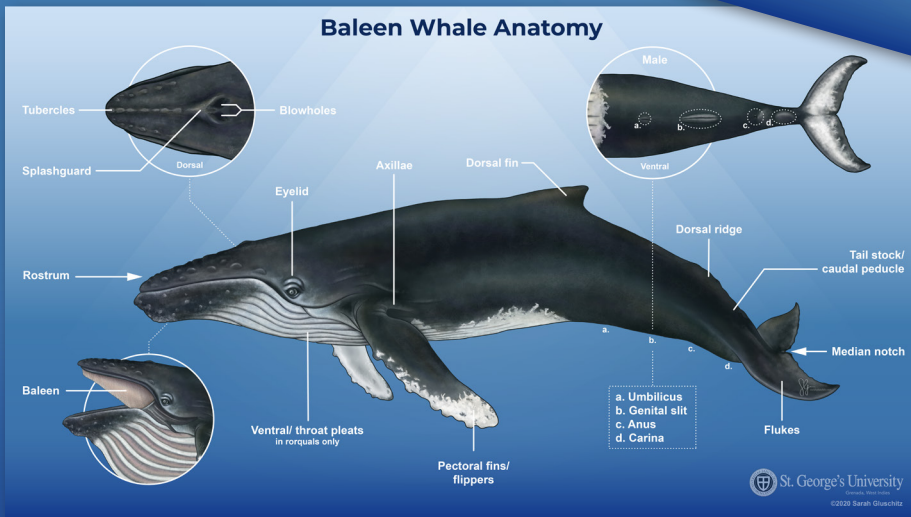
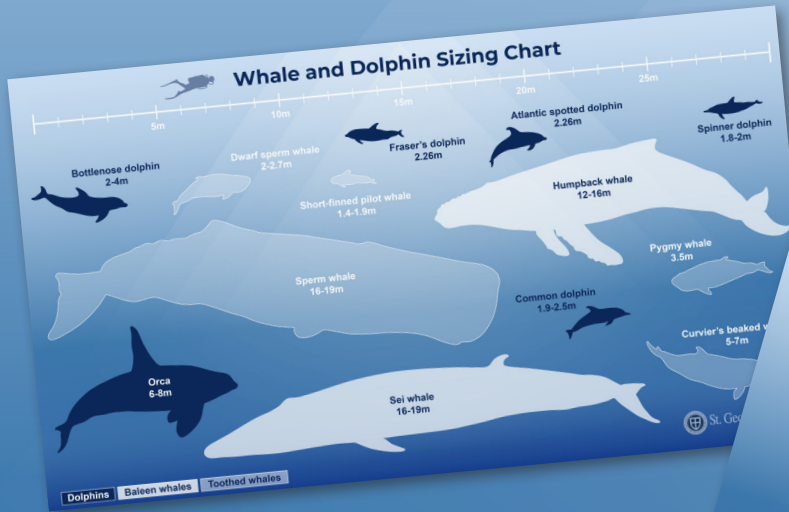
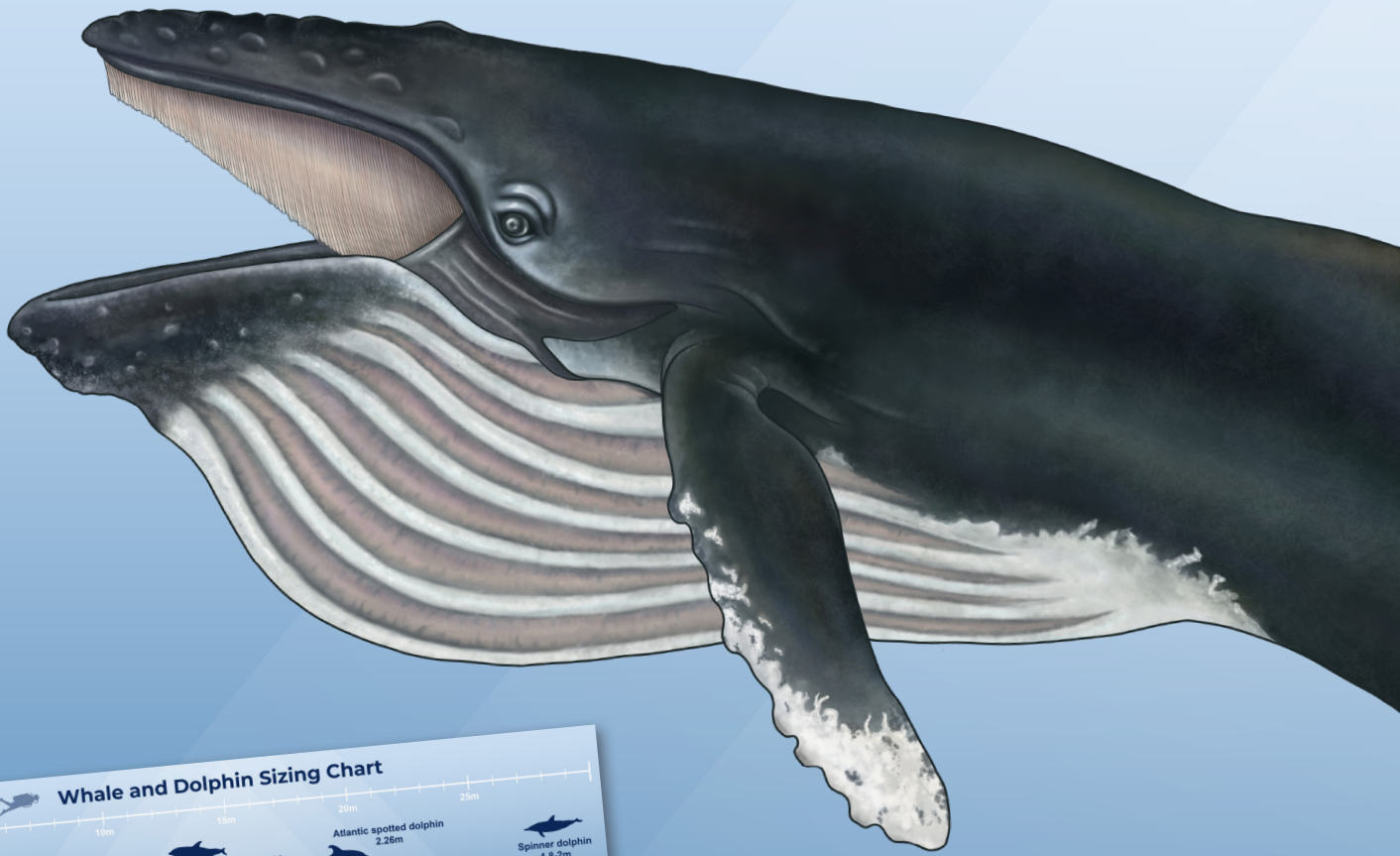


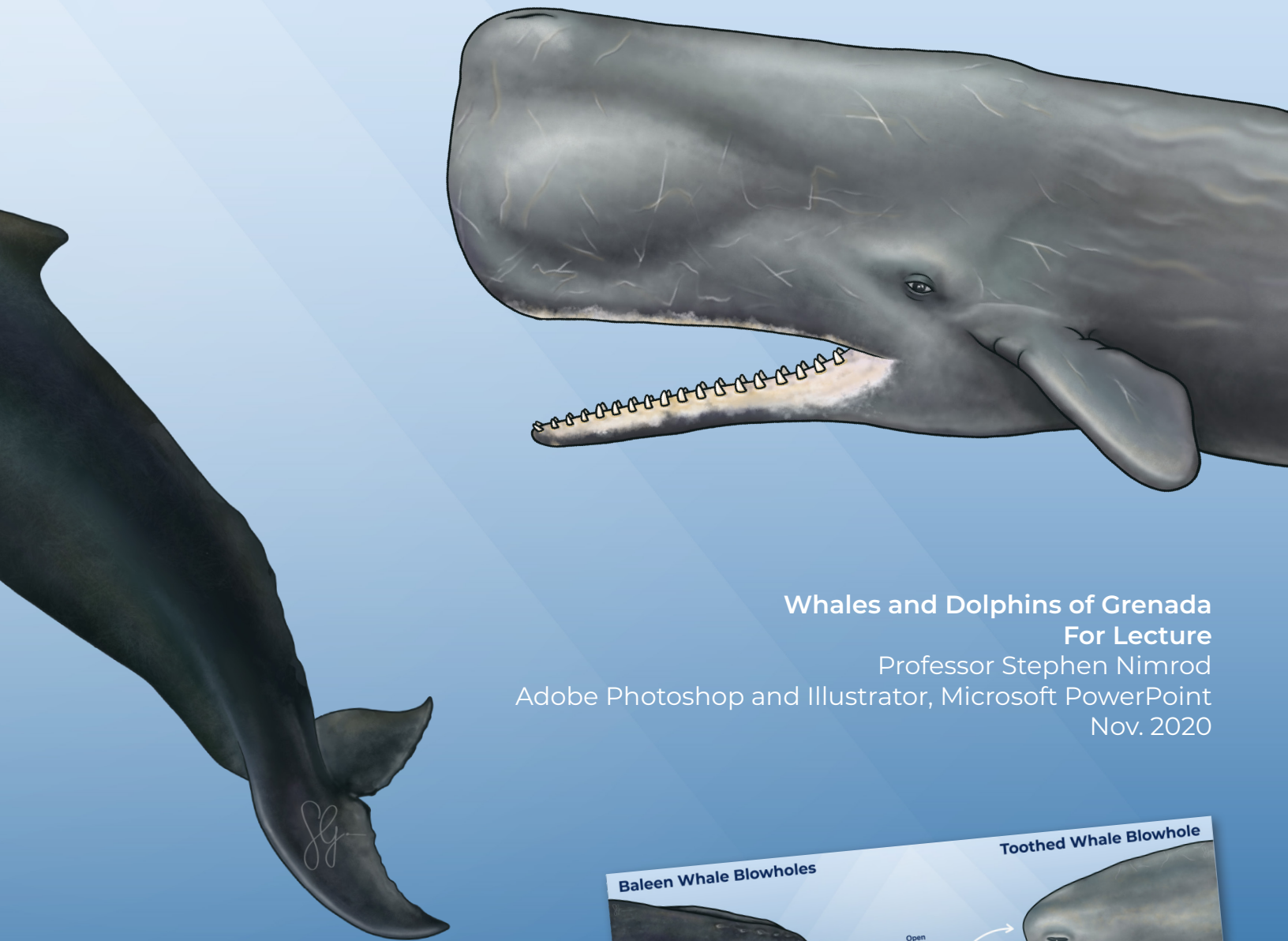
SARAH GLUSCHITZ

*Visual Portfolio
Application for Instructor 1
Dept. Anatomical Sciences, School of Medicine*

January 2022





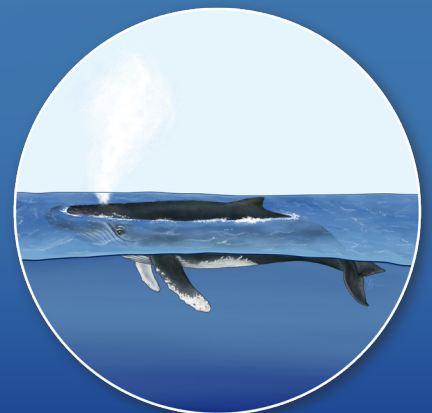
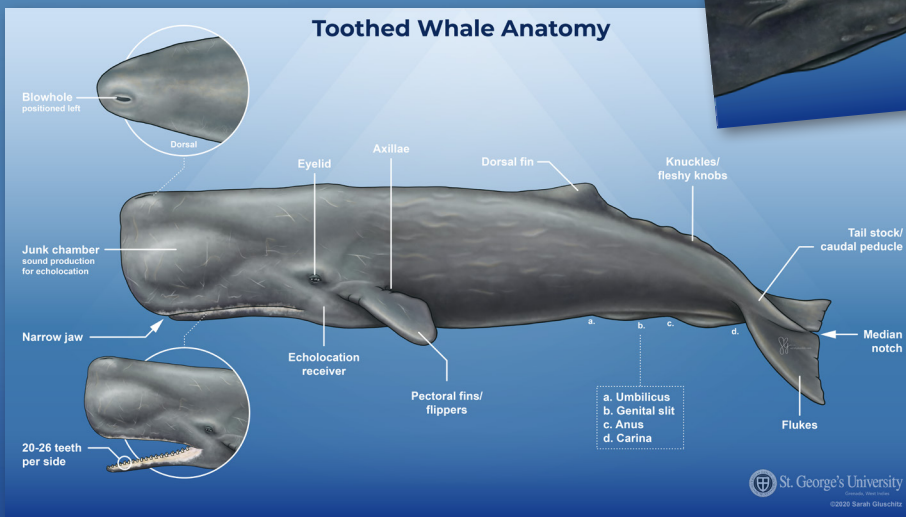
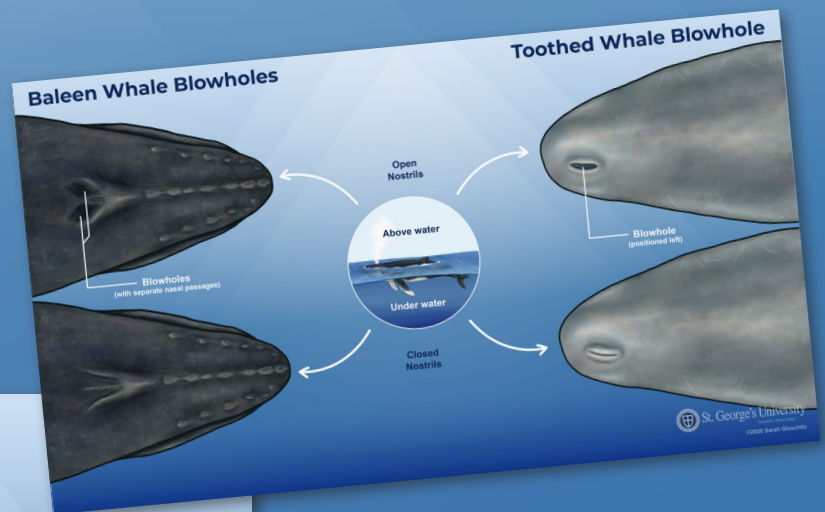


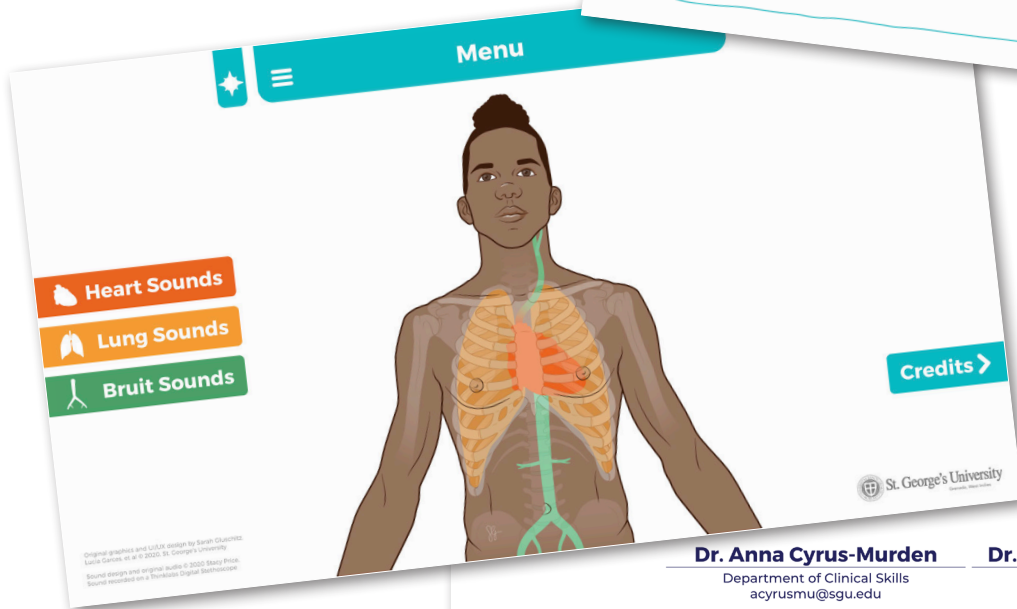
Whales and Dolphins of Grenada For Lecture

Professor Stephen Nimrod

Adobe Photoshop and Illustrator, Microsoft PowerPoint

Nov. 2020





Dr. Anna Cyrus-Murden

Department of Clinical Skills
acyrusmu@sgu.edu

Dr. Charlotte Taylor-Drigo

Department of Clinical Skills
ctaylor@sgu

Audio and .wav files provided by:

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Special thanks to:

Sound designer Stacy Price for her consultation and audio craft.
For more info, contact: stacypricemus@gmail.com

The Department of Anatomical Sciences, Creative Director
Wes Price and the SGU medical illustrators

Contact us: medart@sgu.edu

Online auscultation references include:

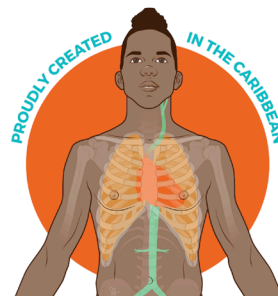
<https://www.practicalclinicalskills.com>
<https://www.healio.com/cardiology/learn-the-heart/cardiology-review>
<https://www.med.ucla.edu/wilkes/intro.html>
<http://www.3m.com/healthcare/fitmann/LIA-Basics.htm>
<https://www.easysauscultation.com>

Books and other references:

Harrison's Principles of Internal Medicine, 19th Edition
Kochar's Clinical Medicine for Students, 6th Edition
www.medscape.com
<https://www.uptodate.com>
<https://online.epocrates.com/>



Center for
BioMedical
Visualization



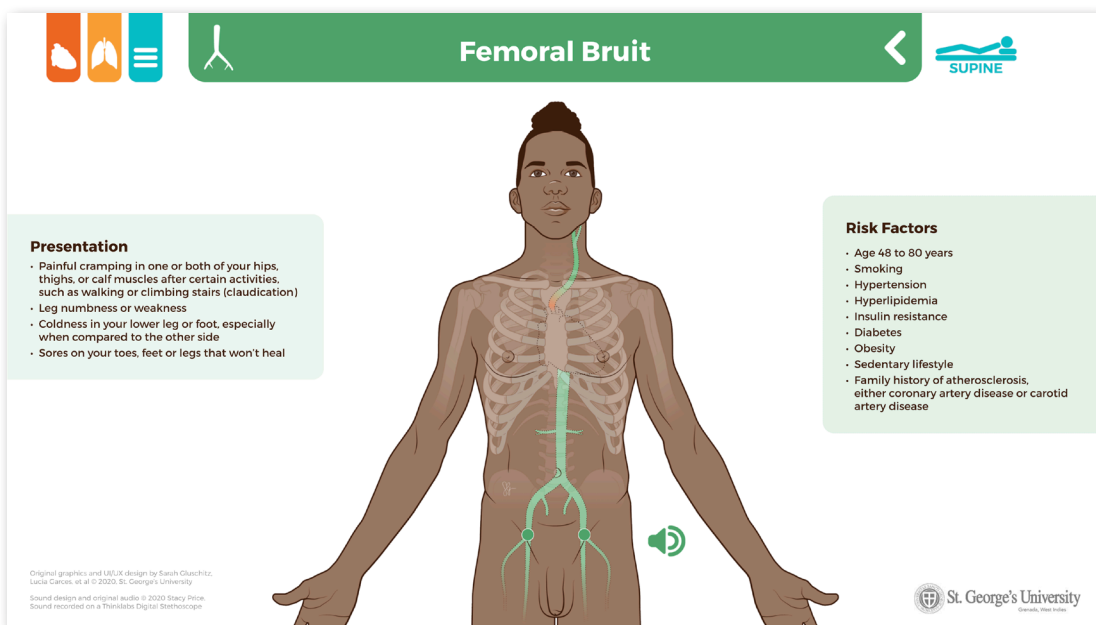
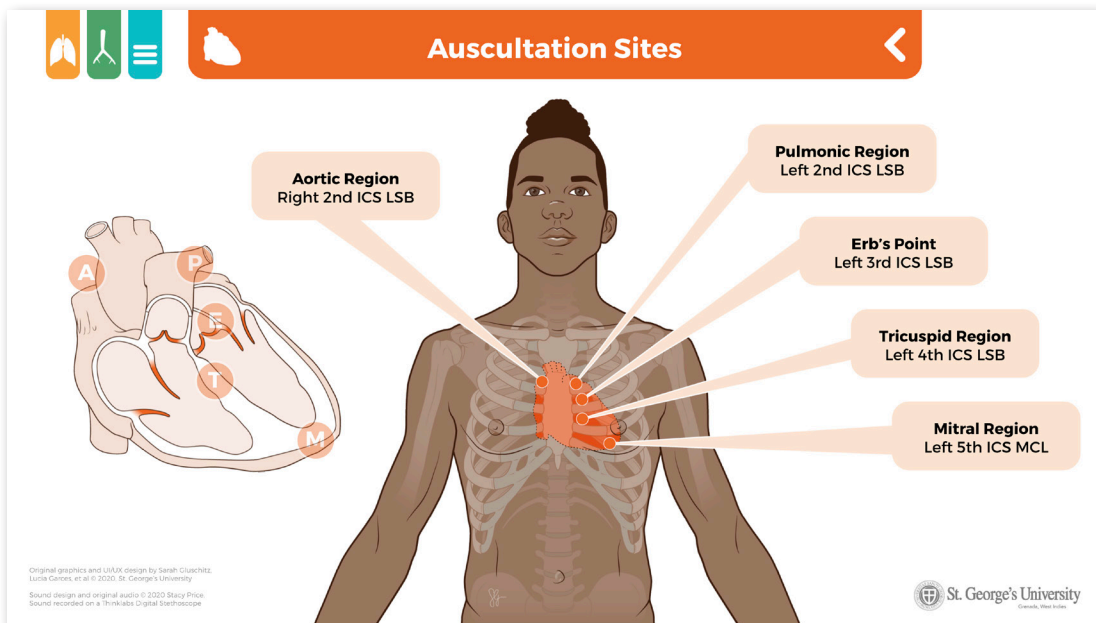
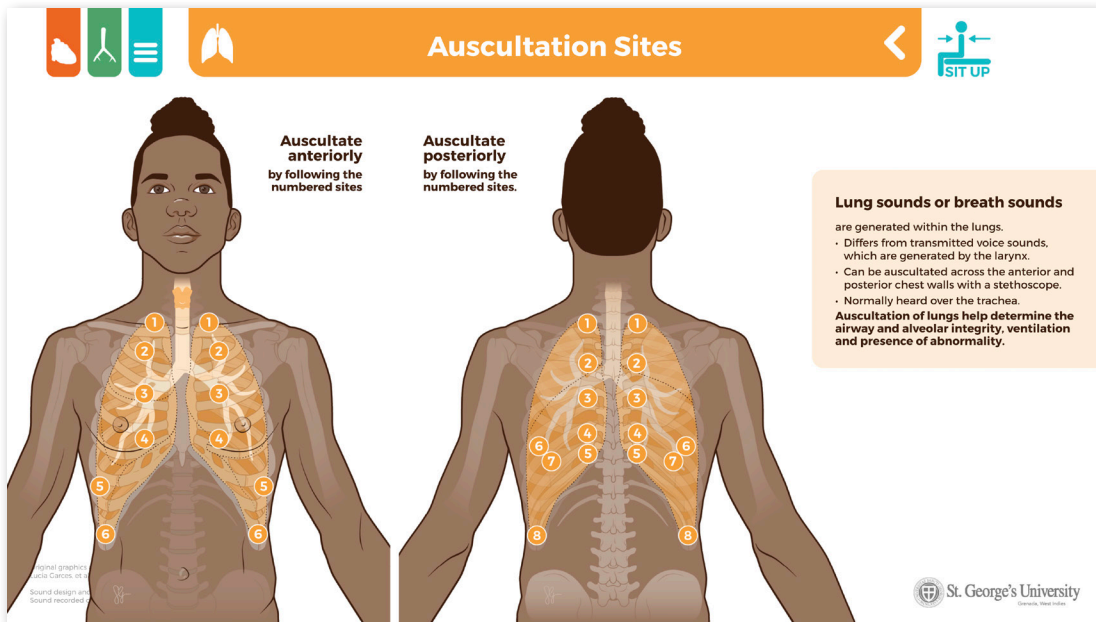
Original graphics and UI/UX design by Sarah Cluschwitz, Lucia Garces Torres, and Sue Simon © 2020
Sound design and original audio by Stacy Price © 2020

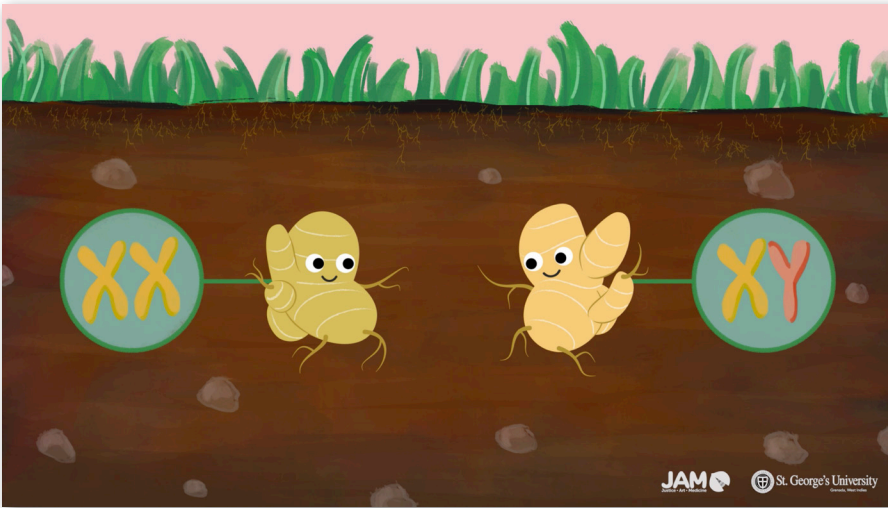


St. George's
University
Grenada, West Indies

Auscultation Resource Center For Lecture

Drs. Cyrus-Murden and Taylor-Drigo in Collab. with L. Garces, S. Simon and C. Price
Layout, Design and Illustrations, Adobe Illustrator and InDesign
Aug. - Sep. 2020 bit.ly/Auscultation





◀ Background painting and Animation



◀ Background painting and Animation



◀ Background painting and Animation

and more...

Gender Roots

Animation - LGBTQIA+ Awareness Campaign

Character Illustrations by L. Garces, F. Khan, Adobe Illustrator

Background Illustrations by N. Lekach, S. Glusnitz, Adobe Photoshop

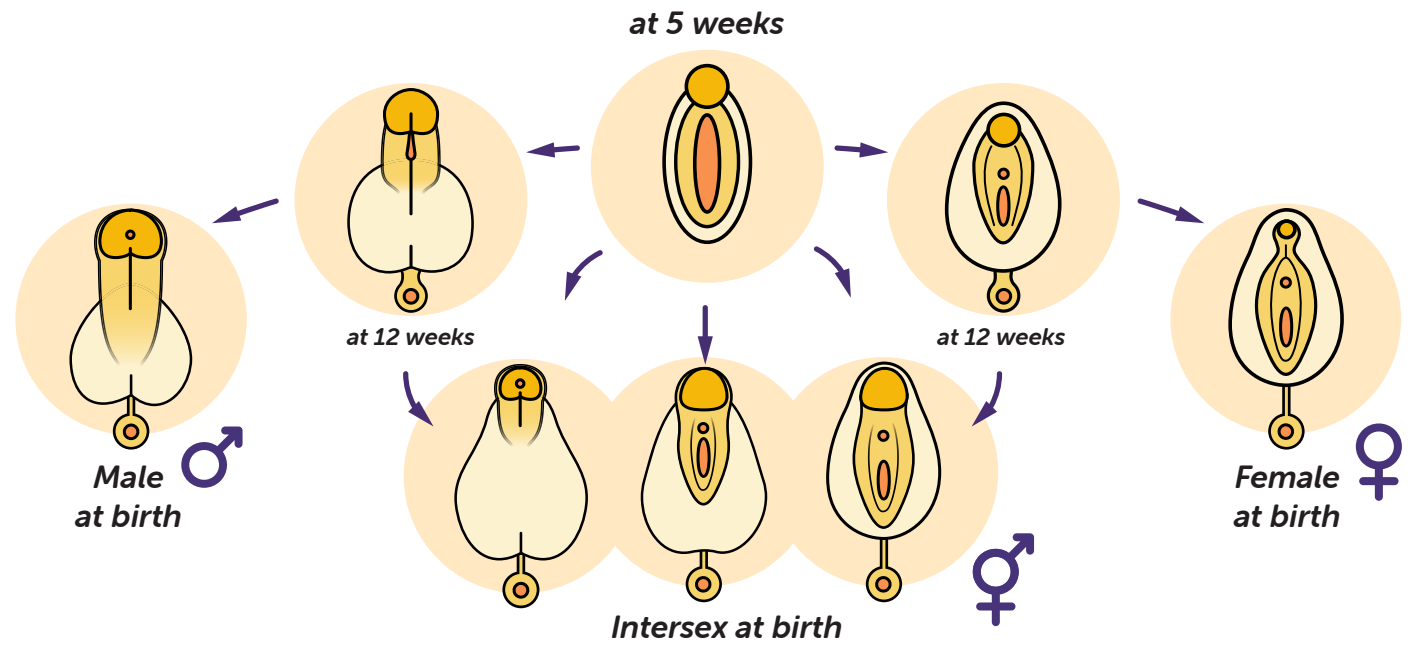
Animation by N. Lekach, S. Glusnitz, Adobe AfterEffects and Premiere

Project Management by S. Glusnitz, please view Credits for more Details

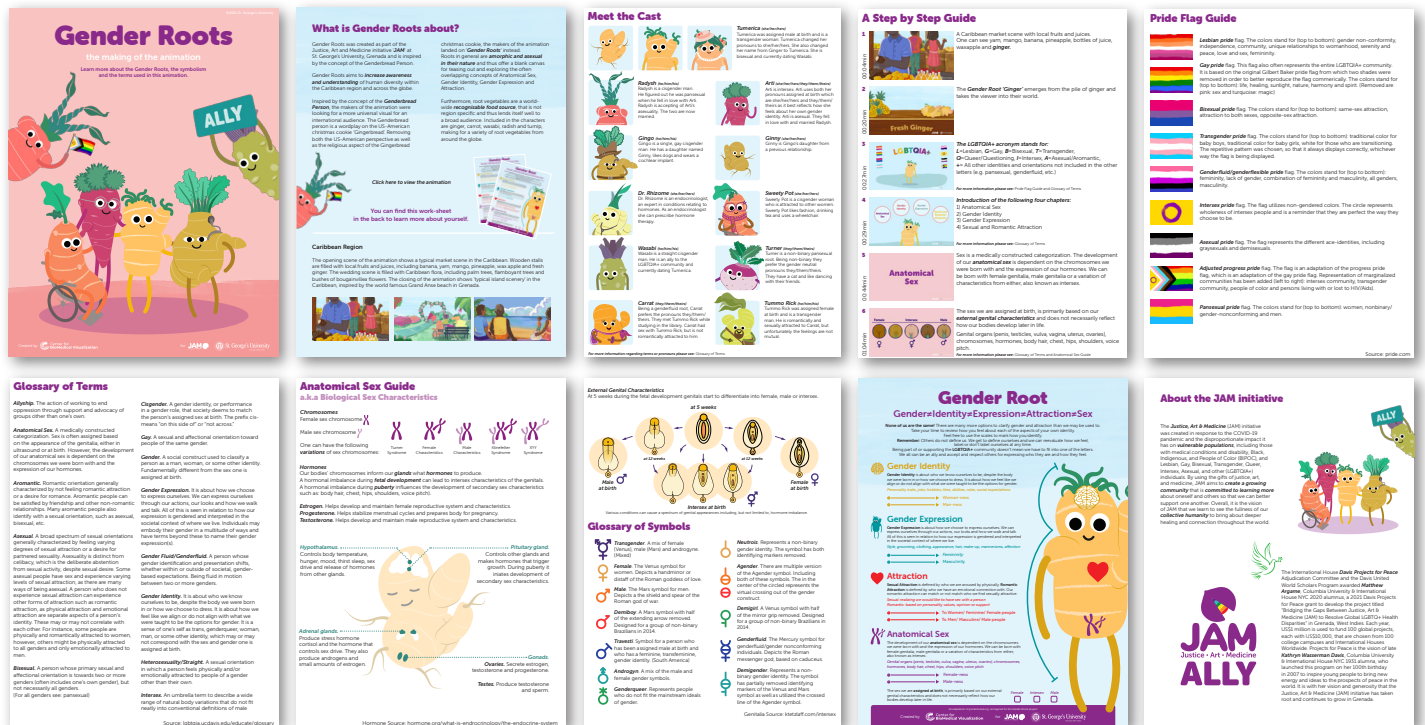
Apr. - Oct. 2021 bit.ly/Gender_Roots

External Genital Characteristics

At 5 weeks during the fetal development genitals start to differentiate into female, male or intersex.



Various conditions can cause a spectrum of genital appearances including, but not limited to, hormone imbalance.



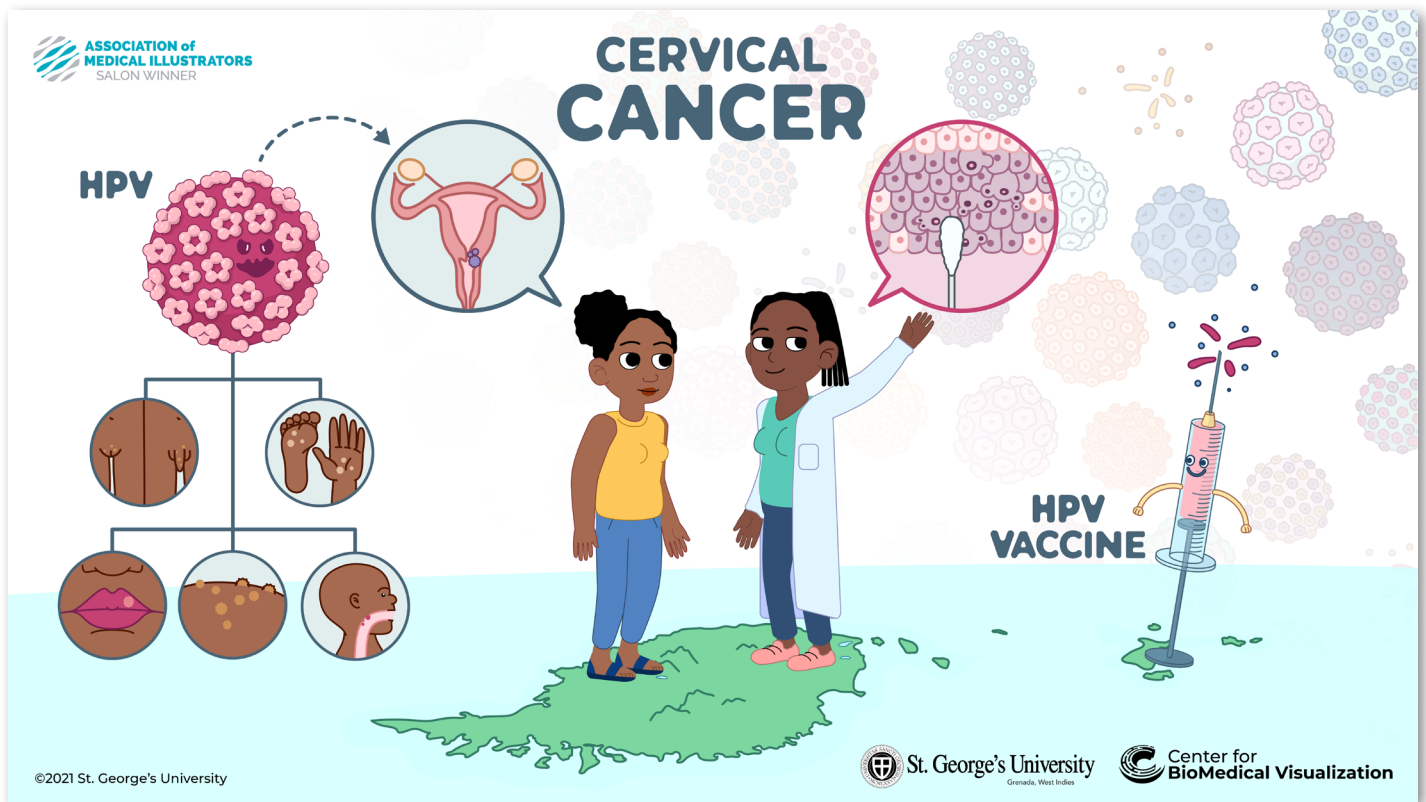
Gender Roots - the making of (excerpt)

LGBTQIA+ Awareness Campaign

Character Illustrations by L. Garces, F. Khan, Adobe Illustrator

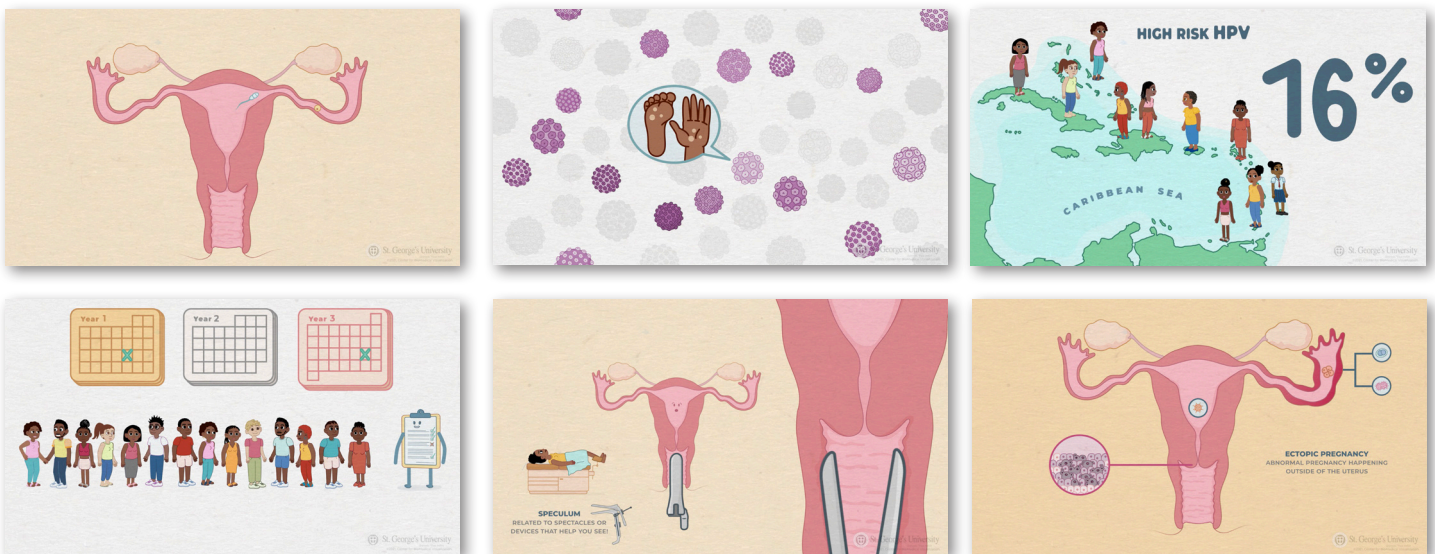
Background Illustrations by N. Lekach, S. Gluschtiz, Adobe Photoshop

Layout, Design and above Illustrations, S. Gluschtiz, Adobe InDesign, Adobe Illustrator
 Sept. 2021 bit.ly/Gender_Roots_booklet



AMI Salon 2021, Award of Merit ▲

Animation ▼



and more...

Cervical Cancer

Public Health Awareness Campaign

Character Illustrations by L. Garces, C. Carceles Roman, Adobe Illustrator

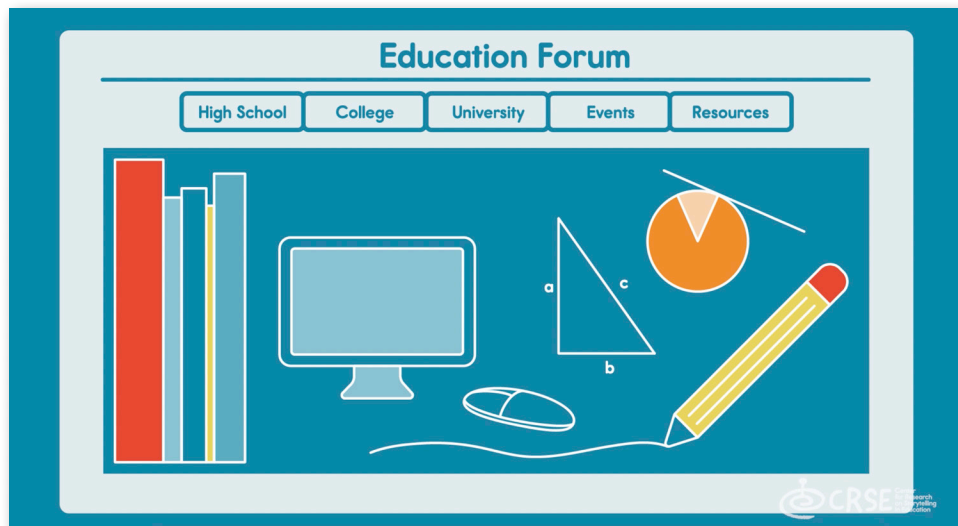
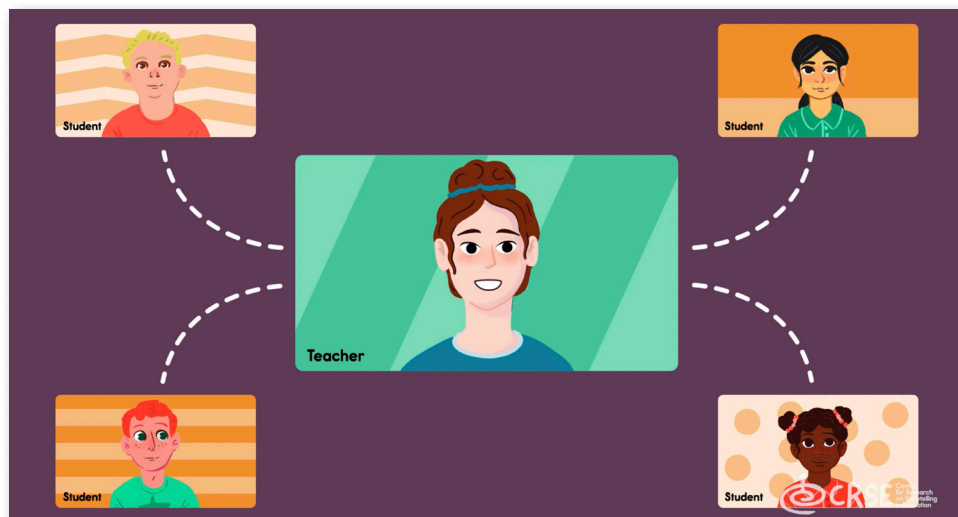
Animation by N. Lekach, S. Glusnitz, Adobe AfterEffects and Premiere

Jan. - Apr. 2021 bit.ly/Cervical_Cancer_SGU | bit.ly/SGU_Cervical_Cancer_Award



◀ Animation & Illustrations

Animation ▶



◀ Animation & Illustrations

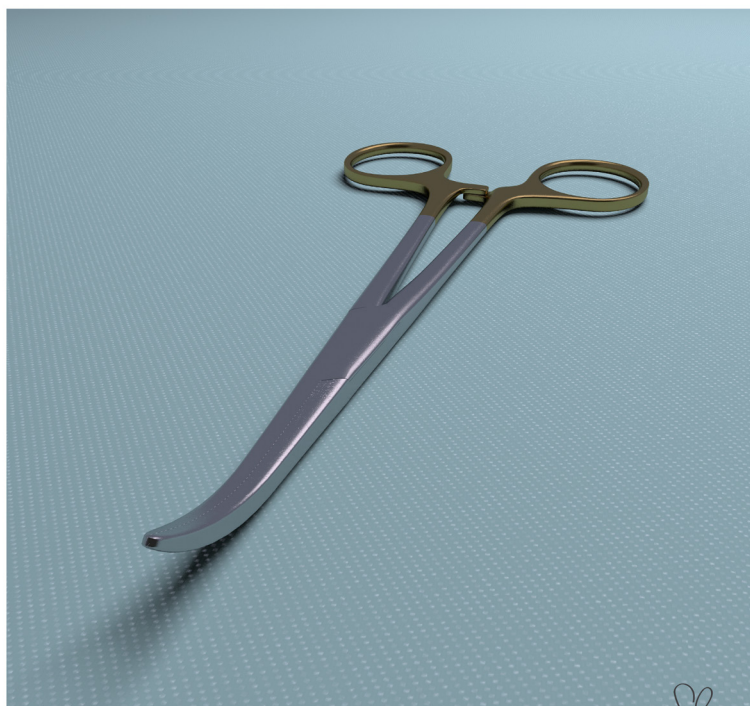
and more...

Center for Research on Storytelling in Education (CRSE) Research Communication

Animation and Illustrations by N. Lekach, S. Glusnitz, Adobe AfterEffects and Premiere
Project Management by S. Glusnitz, please view Credits for more Details
Jun. 2021 youtu.be/WJBauytAg0Q

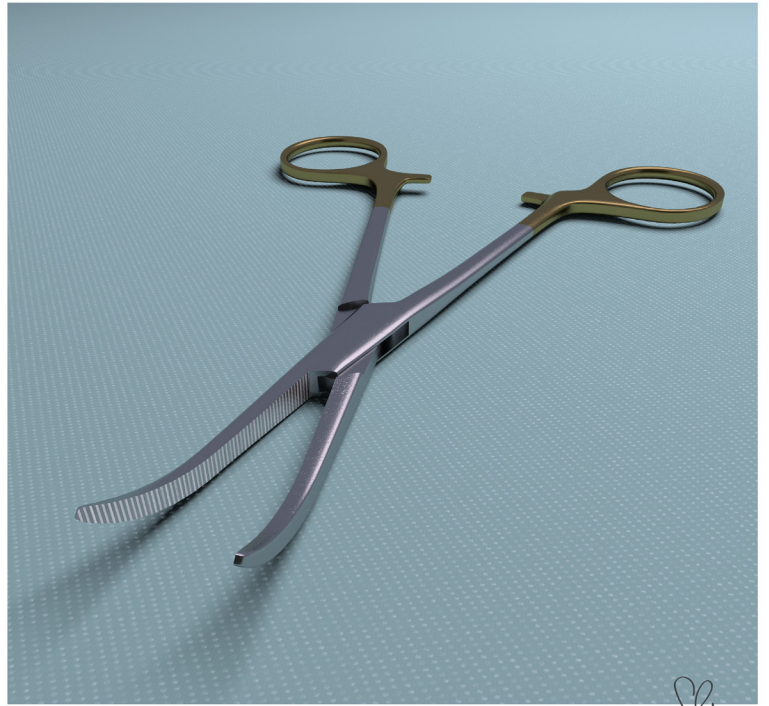
Hemostat Workshop

Basics in Cinema4D by Jack Nelson
Cinema4D
Nov. 2020



St. George's University
Grenada, West Indies

Signature
©2020

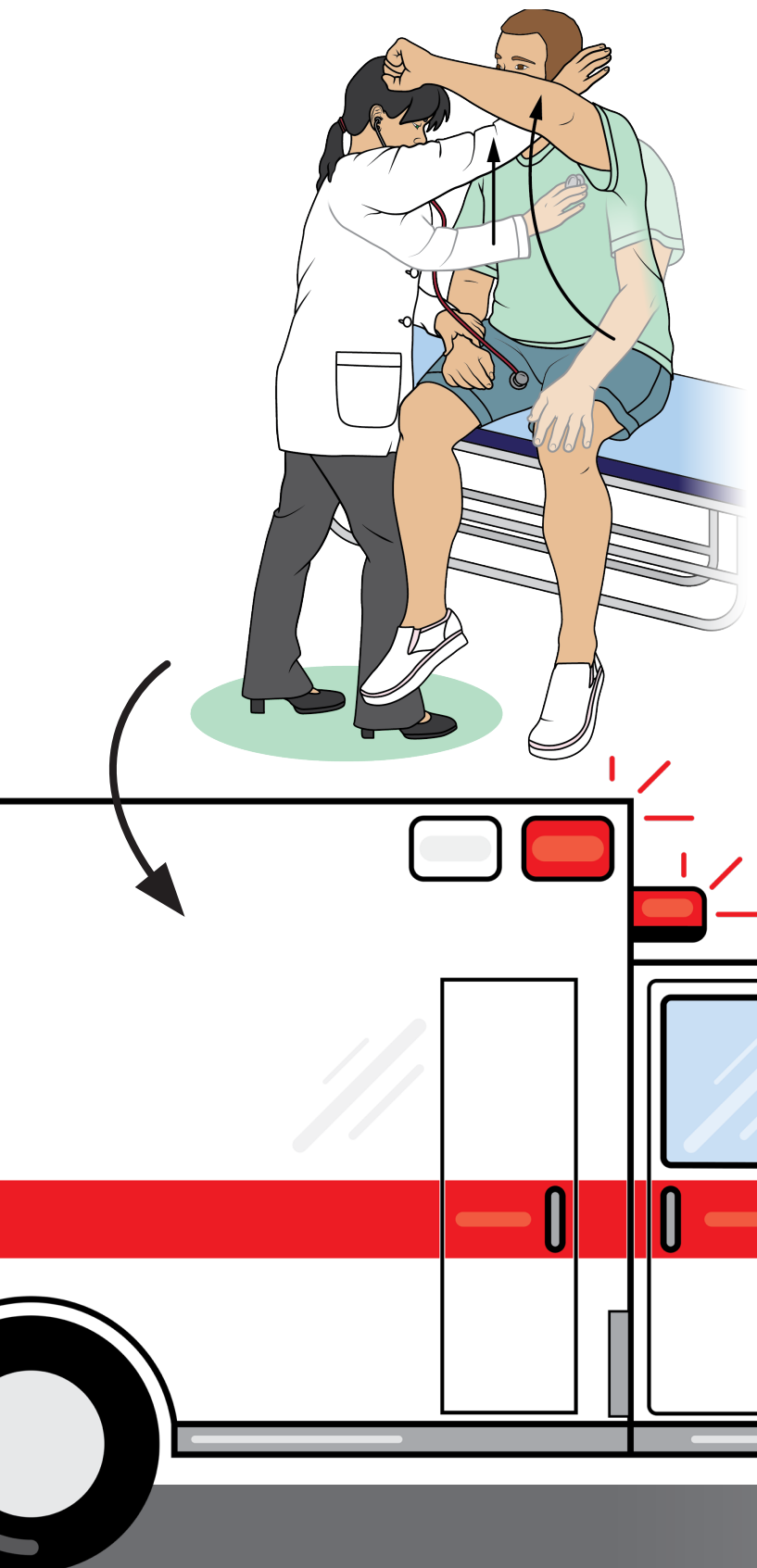


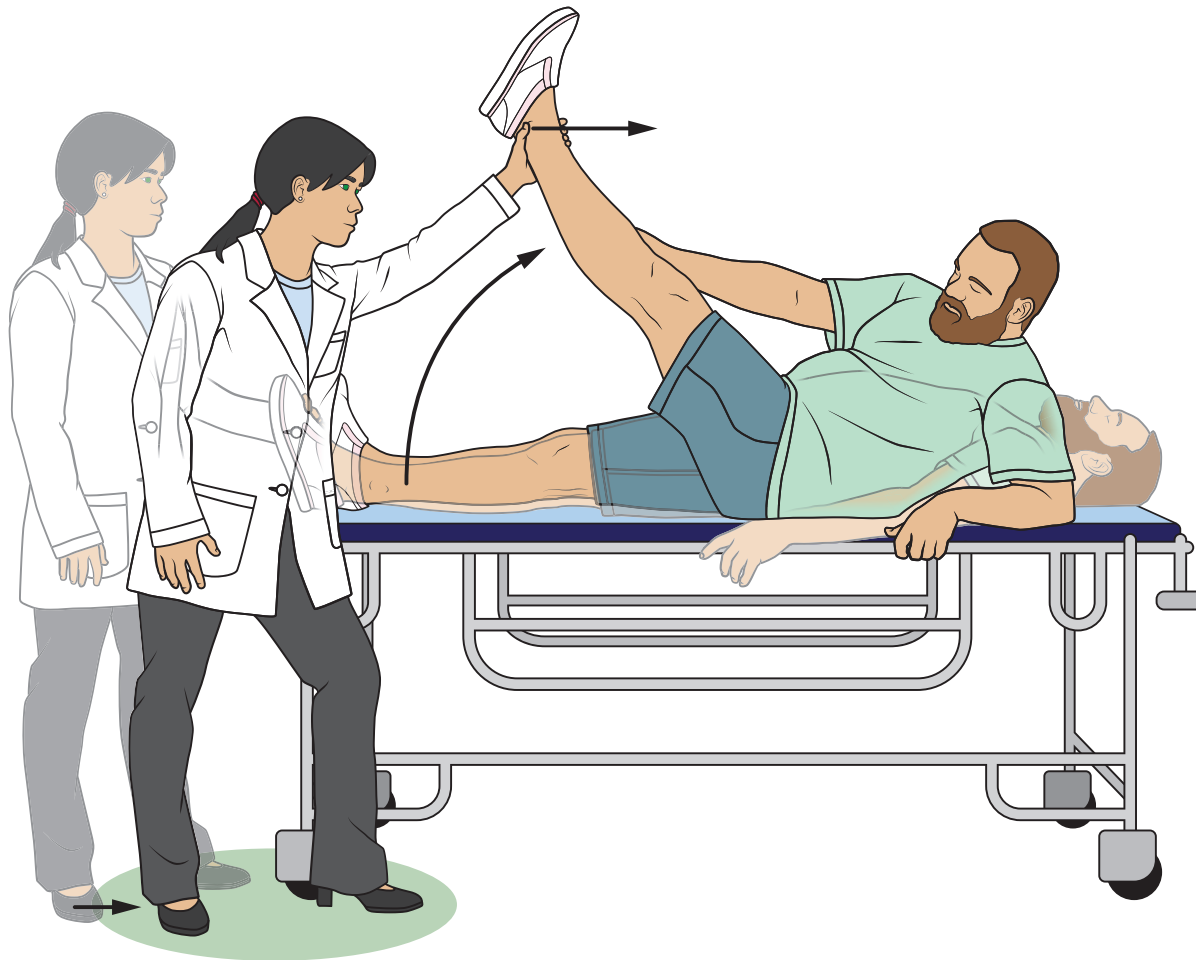
St. George's University
Grenada, West Indies

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**Poster De-Escalation Intuitive Safe Examination
For Publication (Newsletter) + Conference Poster**

Paul Feliu, Sarah Glusnitz, Dr. Robert Hage
Photography, Adobe Illustrator
Oct. 2020 + Oct. 2021





DISE

DE-ESCALATION INTUITIVE SAFE EXAMINATION

DISE is an acronym born from the need for tools to navigate a growing violent and confrontational healthcare system. It is based on years of best practices put into use and geared towards preventing/minimizing near violent encounters and surviving the violent ones. DISE is taught as a two-part workshop.

PART 1
Learning to recognize an escalating situation by discussing verbal and non-verbal cues, that aid in de-escalation and assertive communication. A series of cases are used to illustrate good and poor techniques.

PART 2
Live demonstration of body positioning and total room awareness which can help to minimize injury/harm in the event of an attack.

Safe Space

A safe space begins with positioning yourself in the most ideal place, while examining the patient. Several variants of noxious stimuli to awaken a patient while keeping yourself safe are shown. This includes identifying potential threatening direction of motion and staying clear of these paths.

As a last resort of protection a demonstration is given during the workshop on how the sleeve of the lab coat the provider is wearing can be used as a self-defense weapon to render an attacker unconscious as safely as possible.

Exam Room



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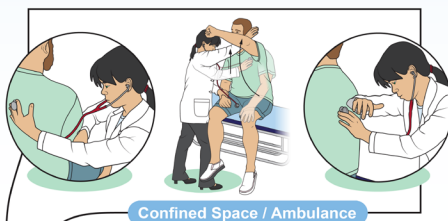
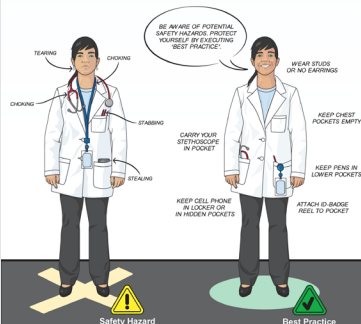
Paul Felli¹,
Sarah Gluschitz², Robert Hage²
(1) St. George's University School of Medicine,
(2) St. George's University, Dept. of Anesthesiology Sciences
Contact information: pfelli@sgu.edu

HOSPITAL

Waiting Room



Posture



Confined Space / Ambulance

Heart Exam

During a heart, lung or abdominal evaluation, be sure to take precautions to better detect a possible patient outburst. Use your hand to feel the pulse on the patient's wrist and simultaneously control the arm. Press your leg against the patient's knee. This enables you to feel any sudden movements by the patient and be able to react promptly. During an examination of the back, press an arm against the shoulder or back of the patient to reduce their range of motion.

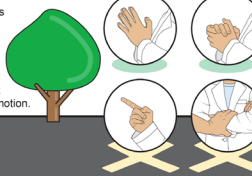


Talking to Patients

Be aware of your body language and tone of voice. Constantly review your personal space. Step back if needed, and use your arms for protection.

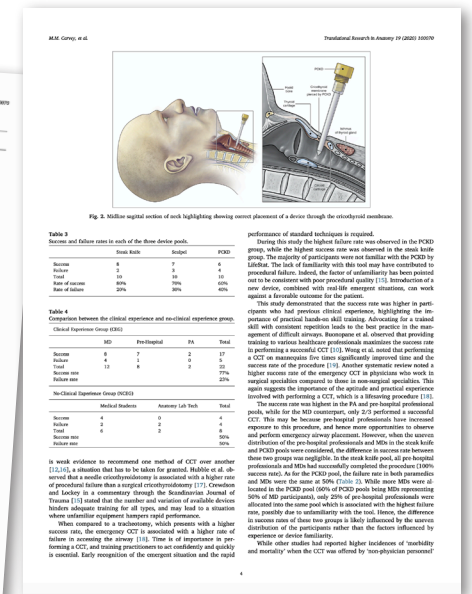
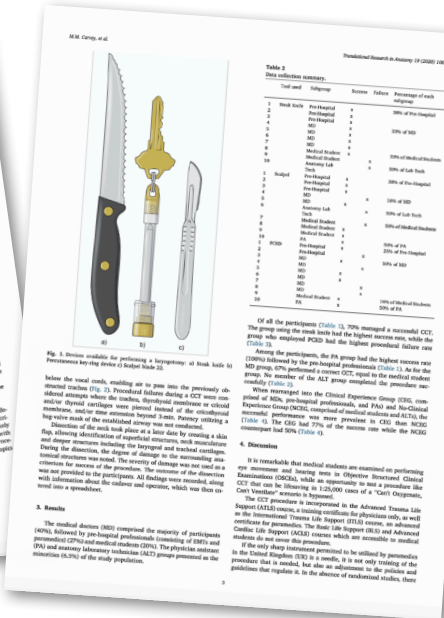
Keep your hands in front of your chest with the palms of your hands towards the patient or against each other. This is perceived as nonthreatening and enables you to block potential attacks.

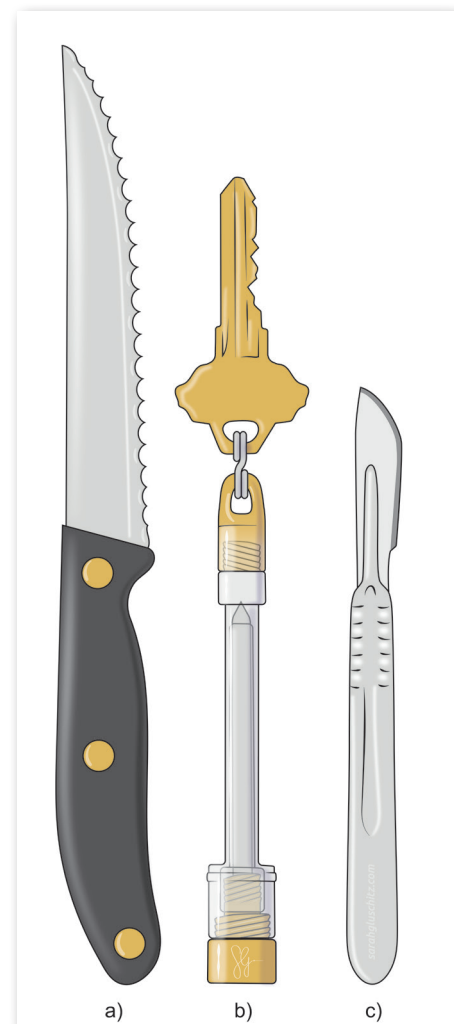
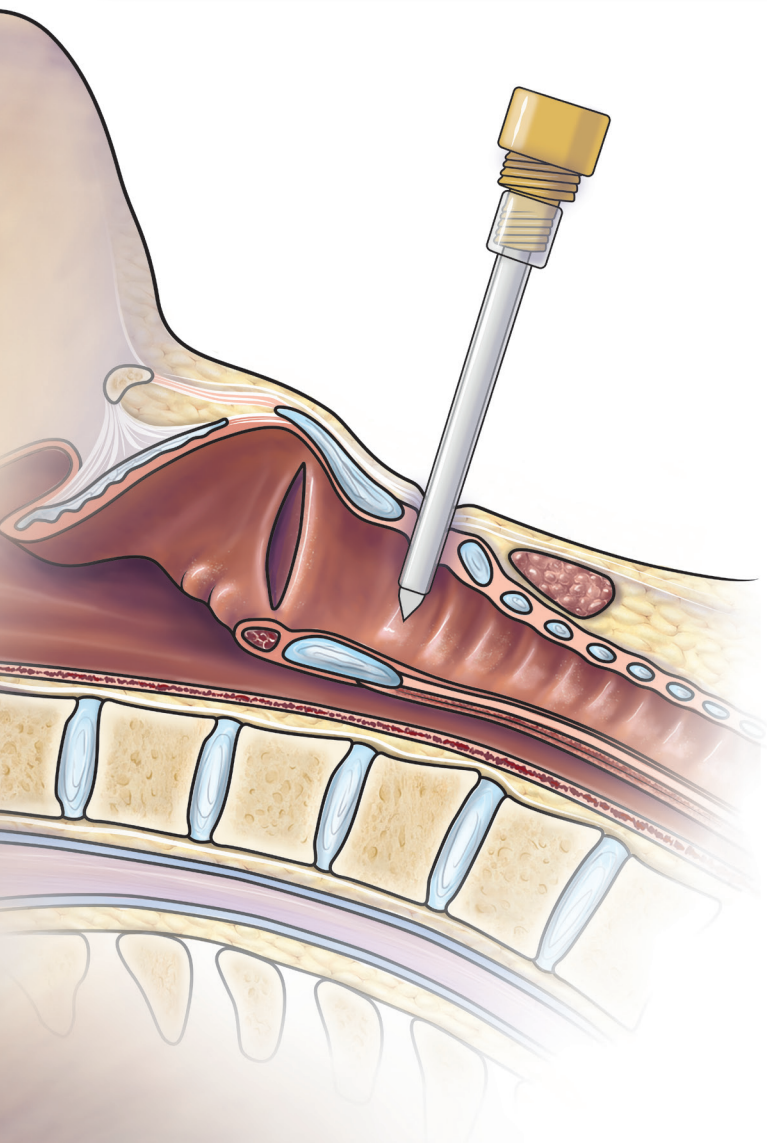
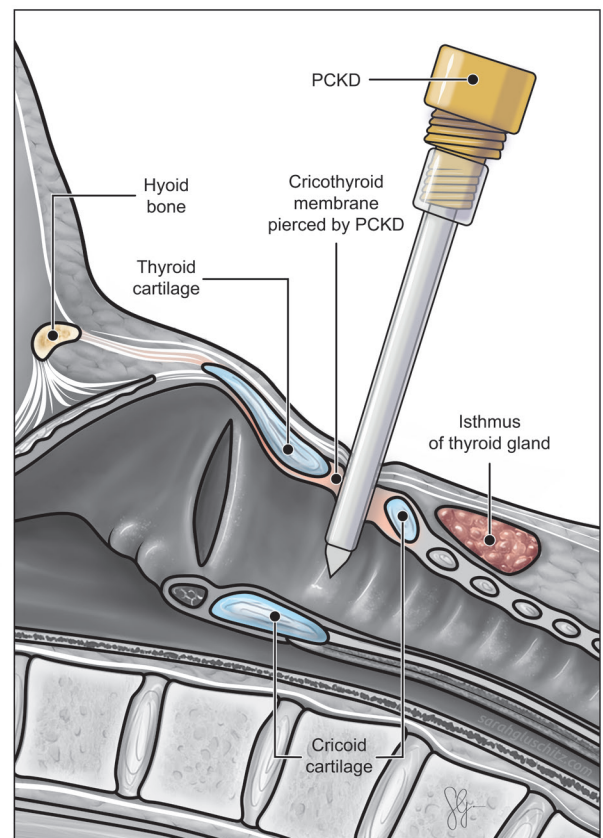
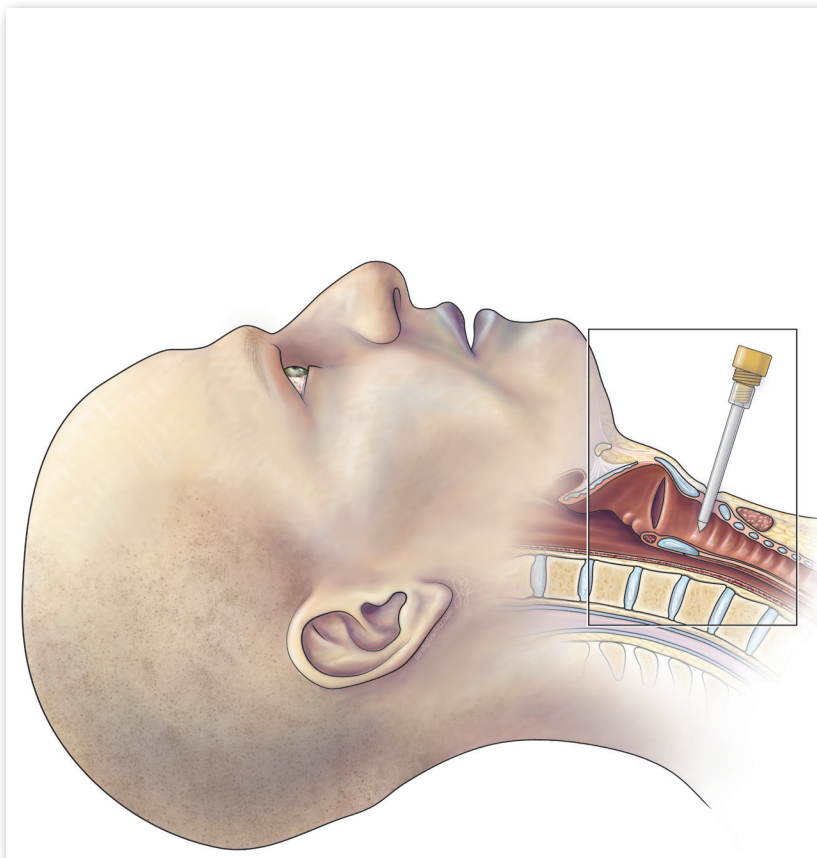
Pointing your finger at patients or crossing your arms can be seen as aggression or defensiveness, both able to lead to escalation of the situation.



Cricothyroidotomy For Publication

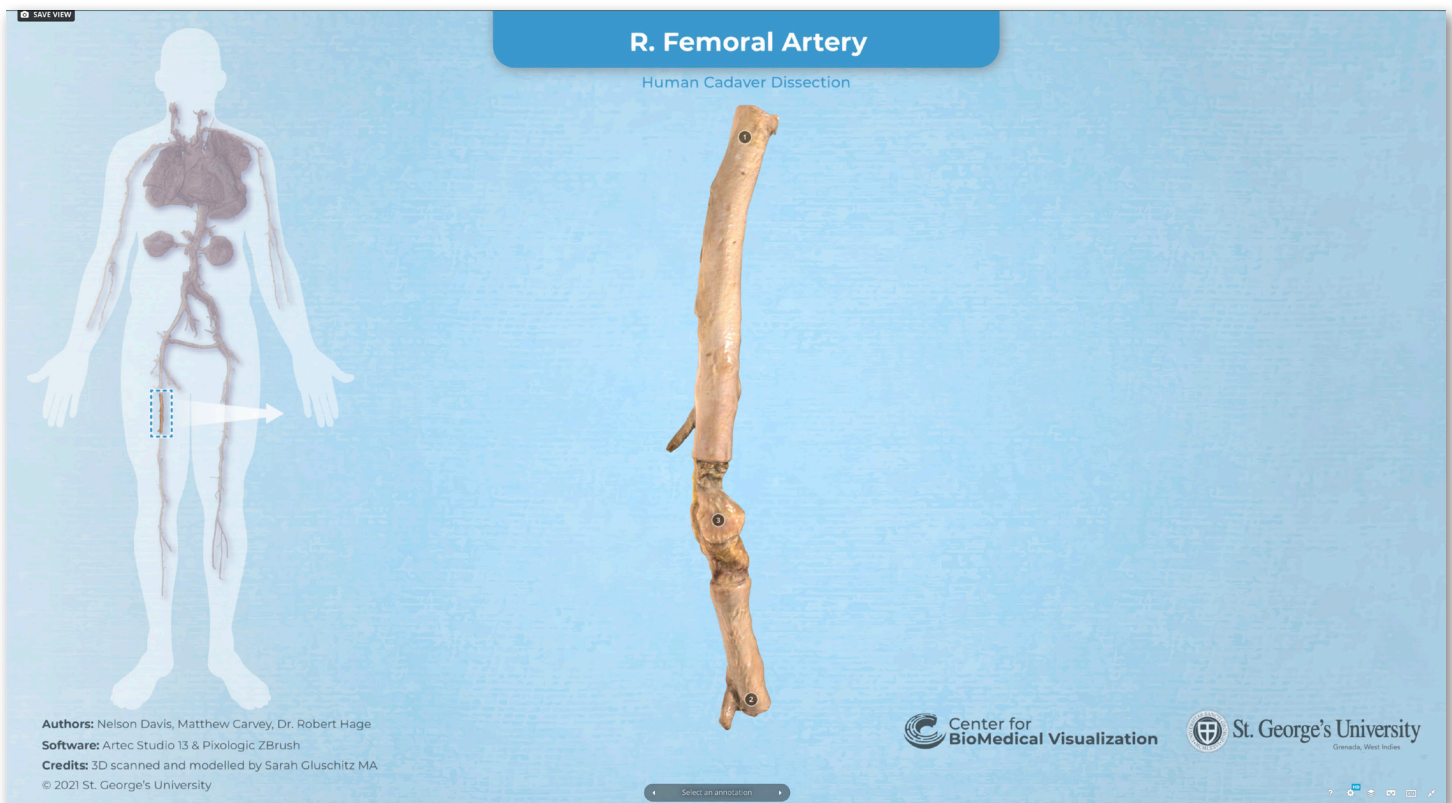
Dr. Robert Hage and Matthew Carvey
Adobe Photoshop, Adobe Illustrator
Mar. 2020







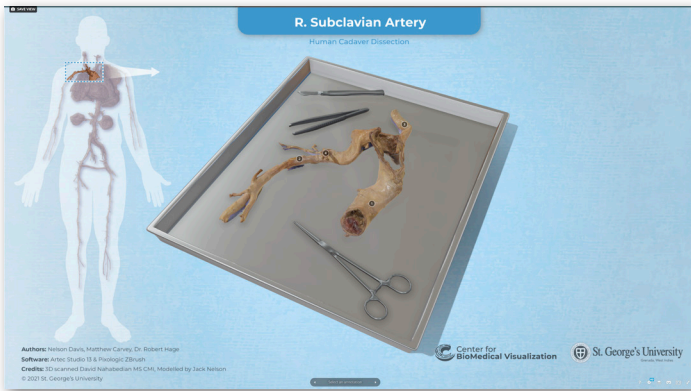
3D model Sarah Glusnitz



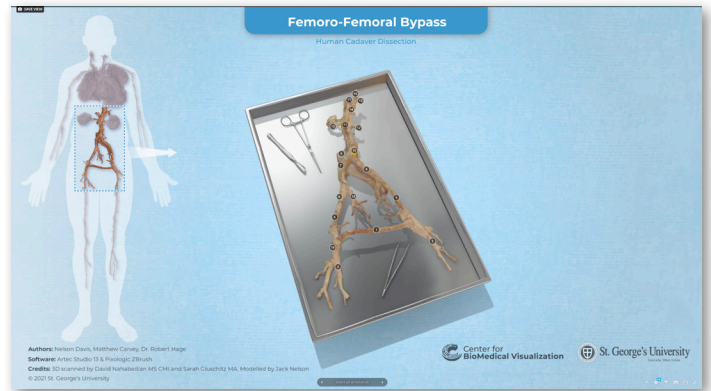
3D model Sarah Glusnitz

A Case of Femoro-Femoral Bypass For Publication (Journal Article) and on Sketchfab.com

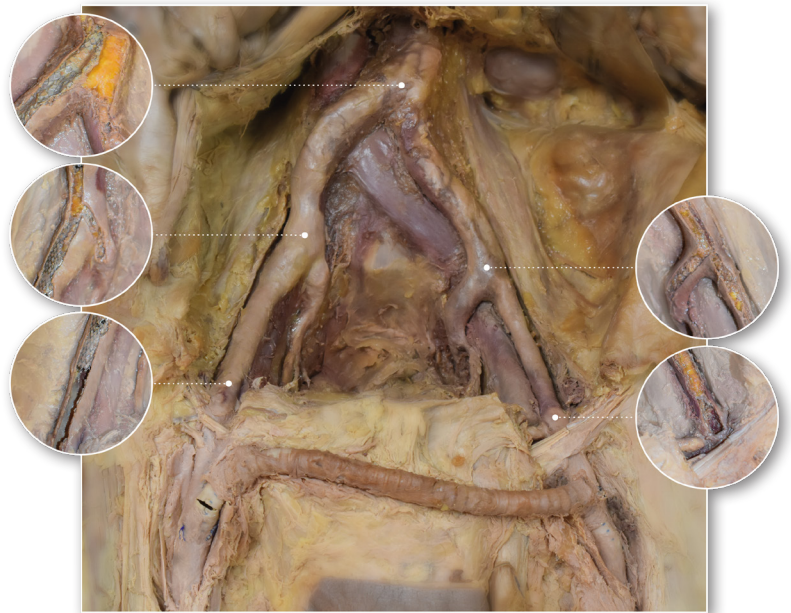
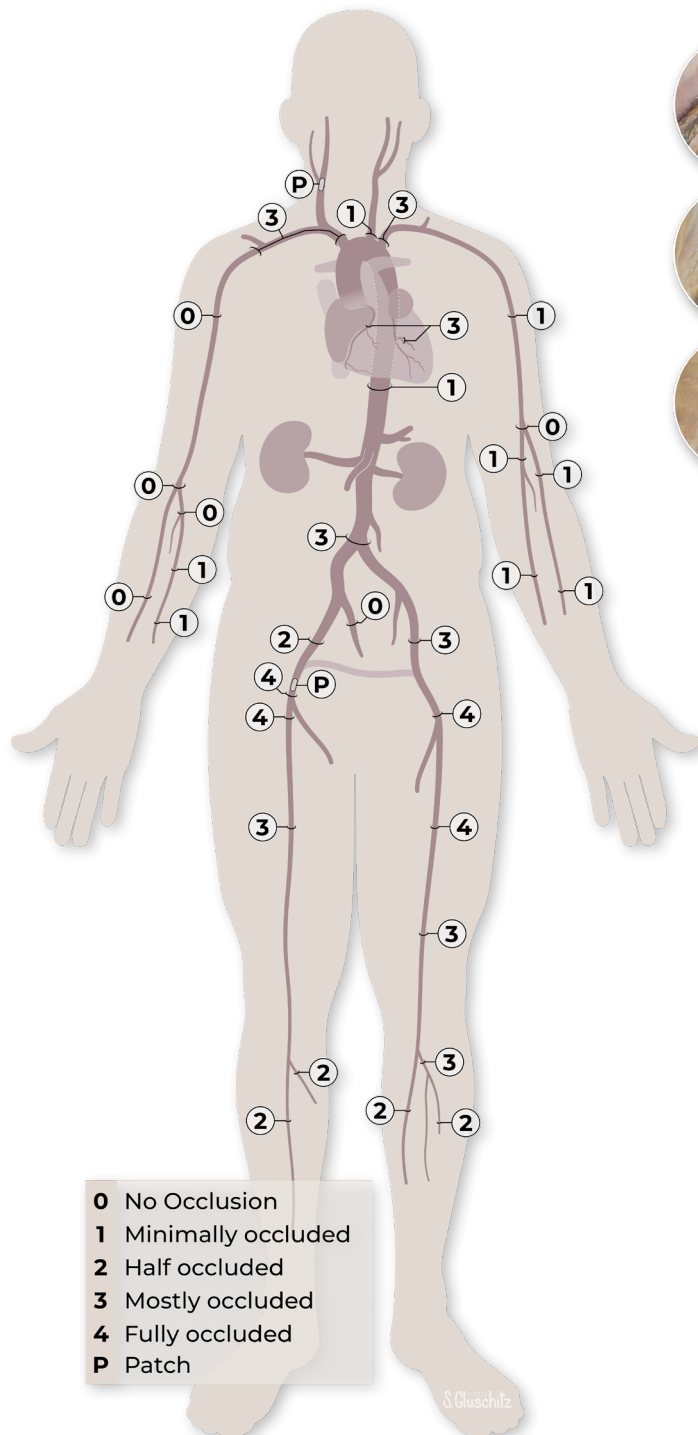
Nelson Davis, Matthew Carvey, Dr. Robert Hage in Collab. with J. Nelson and D. Nahabedian
Project Lead, Artec Laser Scanner, ZBrush, Adobe Photoshop and Illustrator
Mar. 2021 bit.ly/L_Subclavian_Artery_Occlusion | bit.ly/R_Femoral_Artery_Occlusion

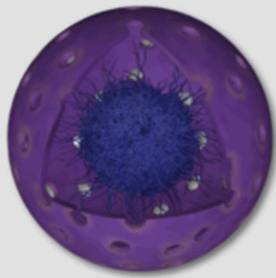


3D model Jack Nelson



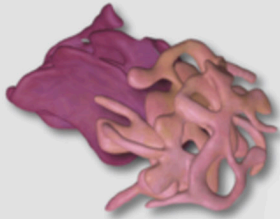
3D model Jack Nelson





Nucleolus
2.5 μm

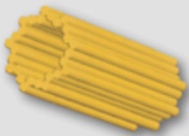
Nucleus
7 μm



Smooth and Rough
Endoplasmic Reticulum
30 - 50 μm
0.2 μm / each layer



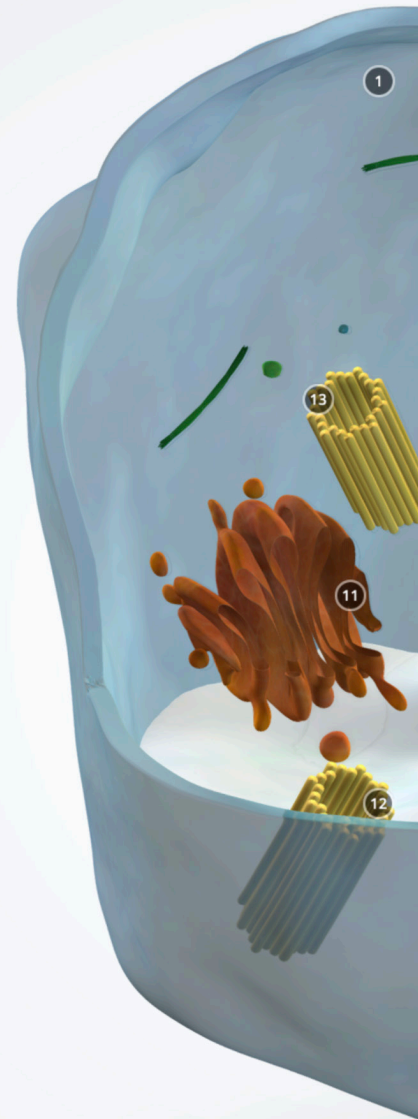
Golgi complex
7 μm / each layer



Centriole
150 - 250 μm length



Mitochondria
1 x 3 μm



Software: Pixologic ZBrush

Author: Sarah Gluschitz MA

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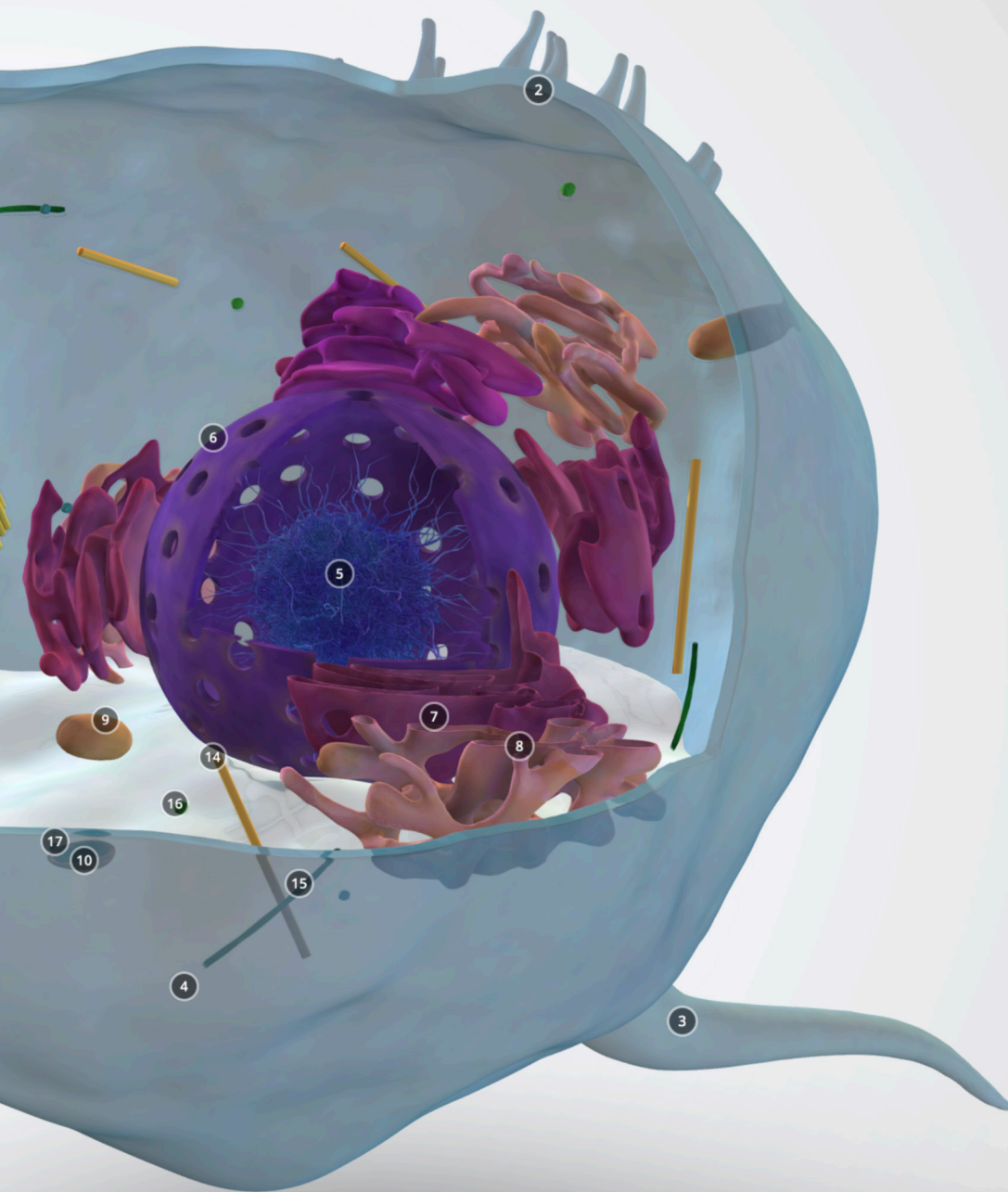
Eukaryote - Animal Cell Workshop

Basics in Pixologic ZBrush by Andrew Swift and Quade Paul

Pixologic ZBrush

Apr. 2019 skfb.ly/6Rn9U

- Animal Cell



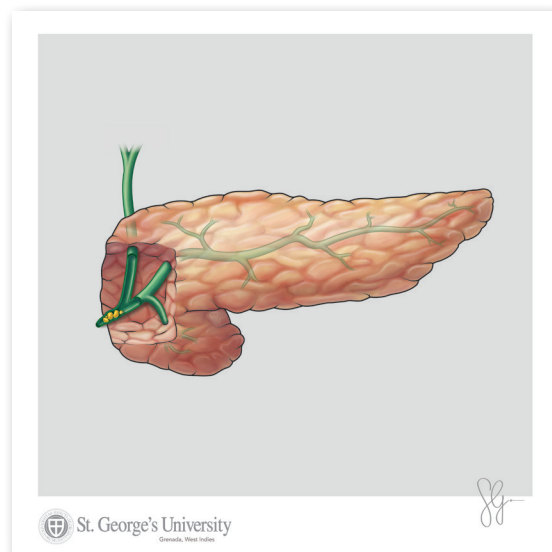
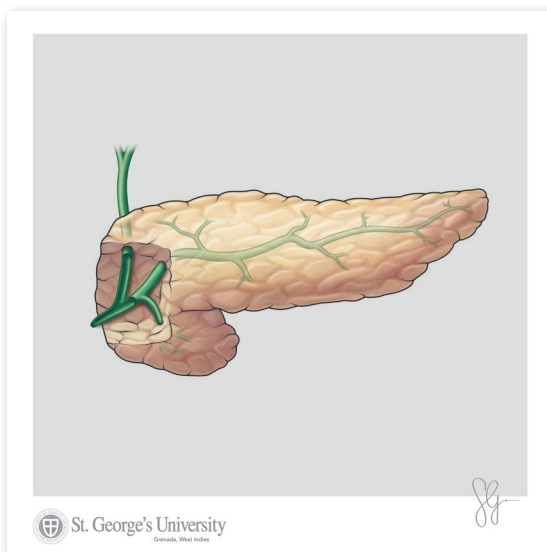
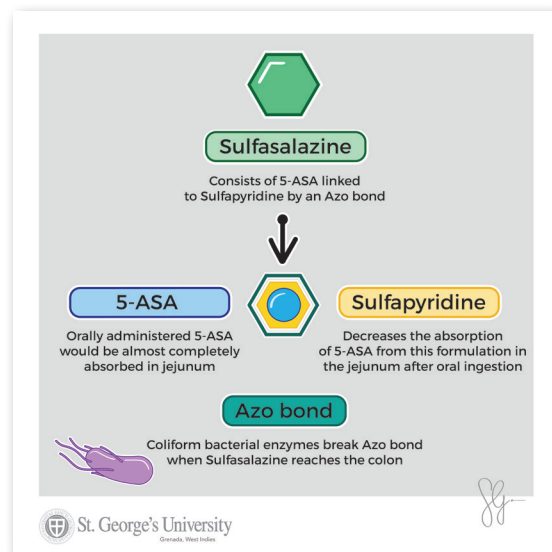
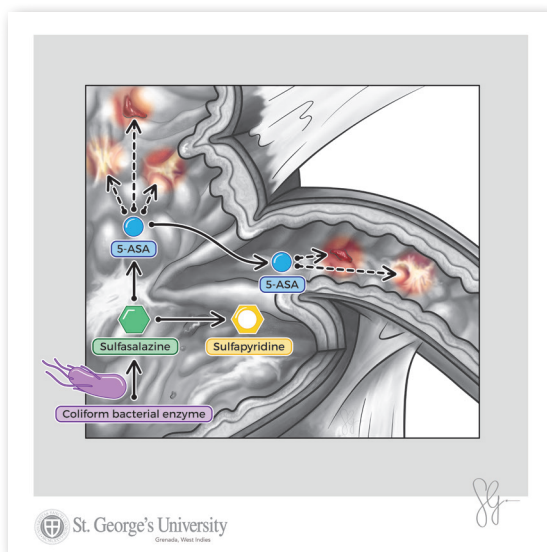
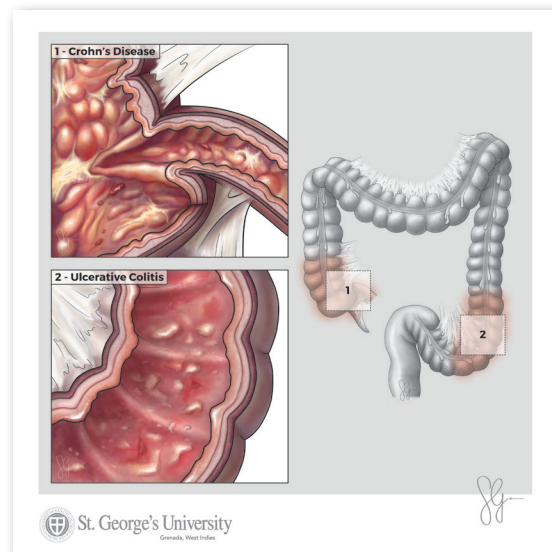
 Center for
BioMedical Visualization

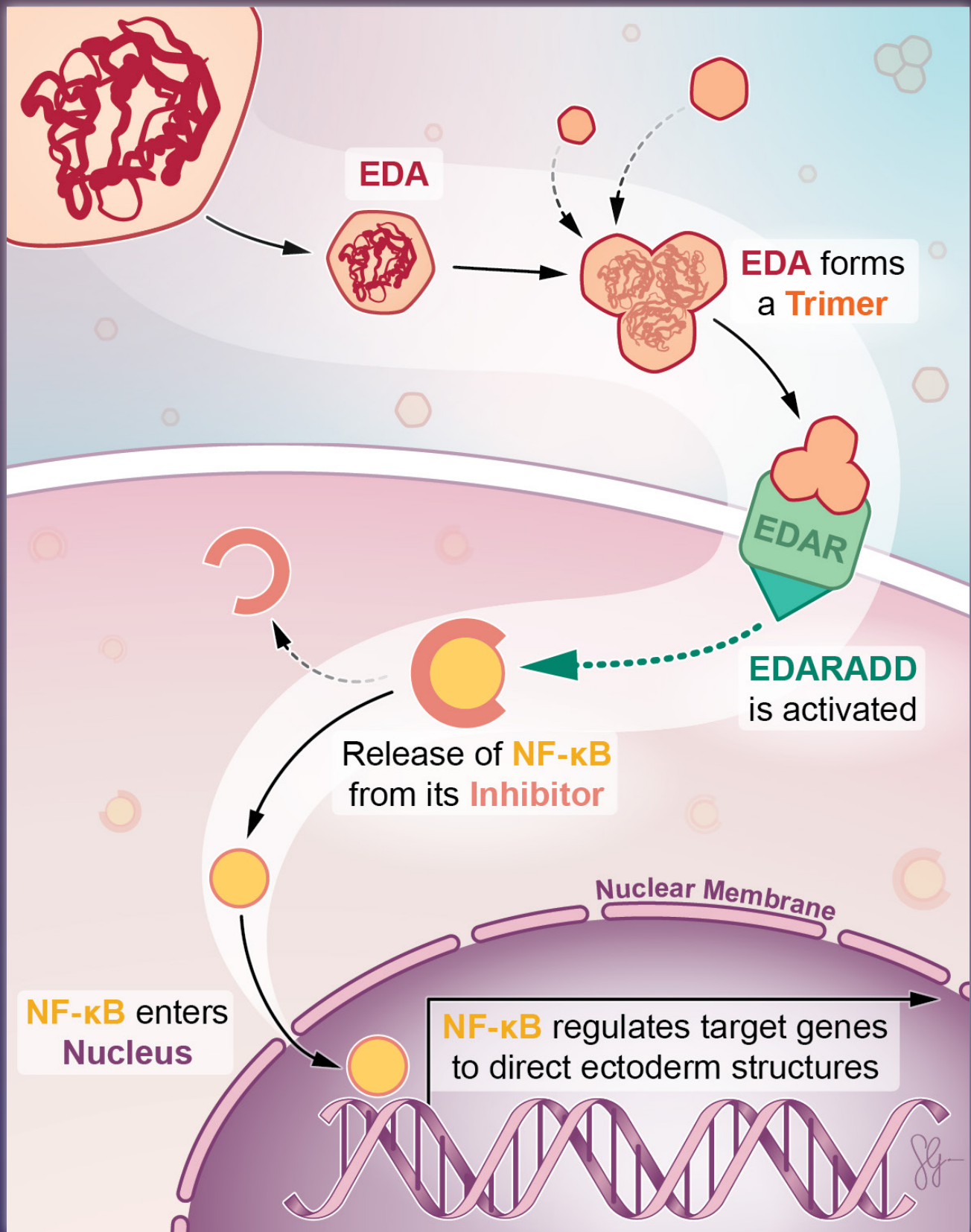


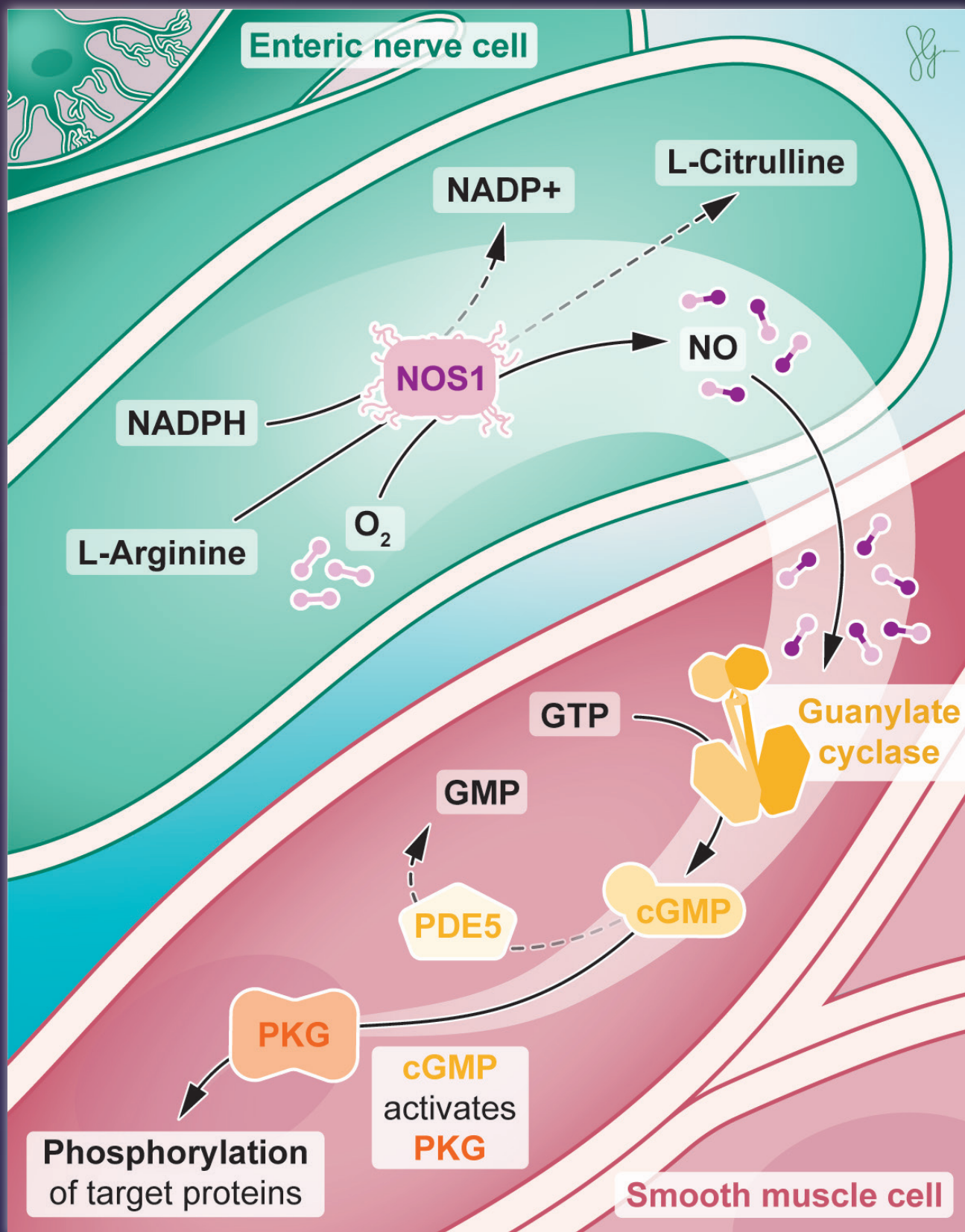
St. George's University
Grenada, West Indies

▲
Most viewed on the sketchfab.com account
The Center for BioMdicl Visualization at SGU

19,6k views

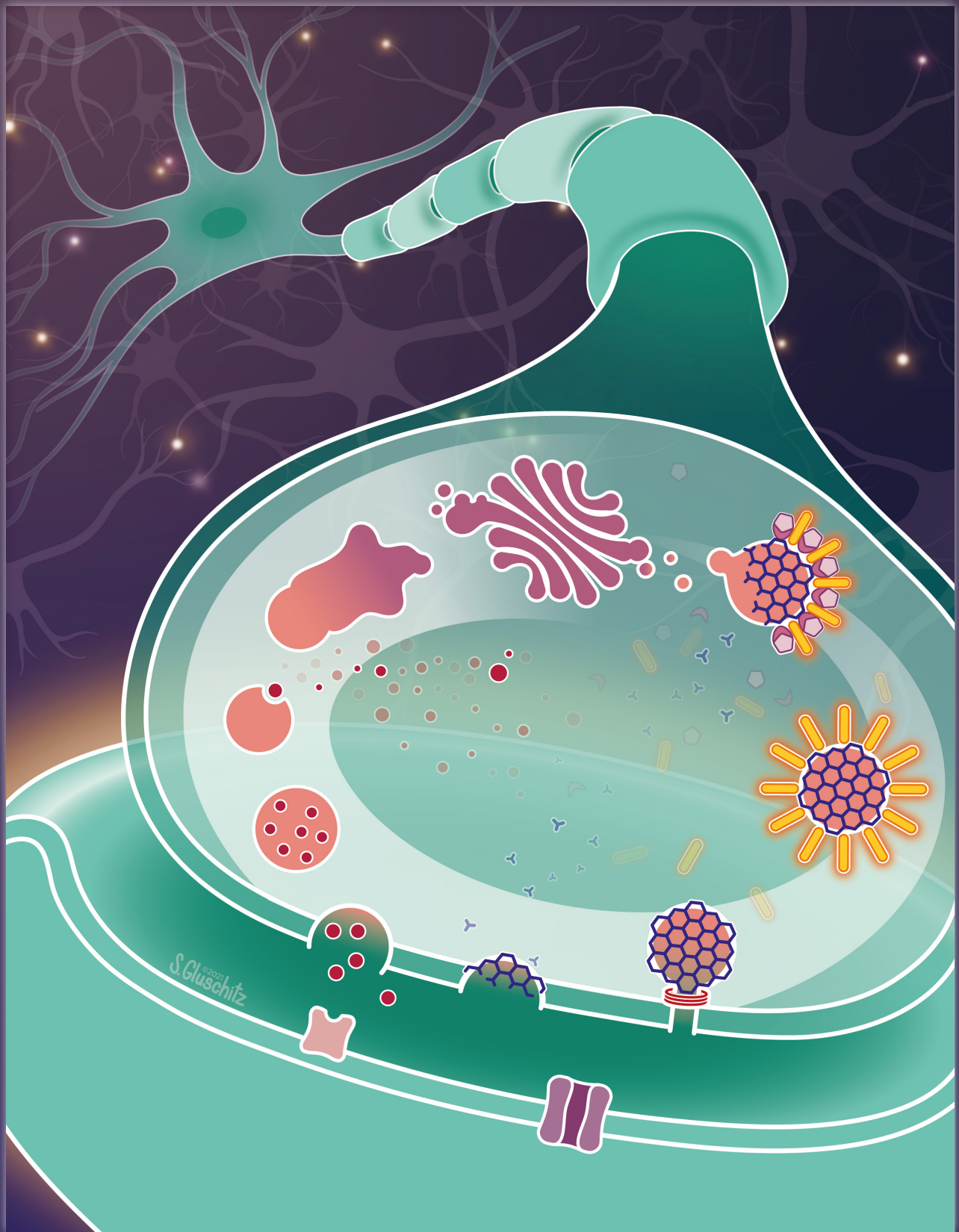






NOS Activation Pathway For Publication and Classroom

Dr. Andrew Sobering
Adobe Illustrator, Microsoft PowerPoint
Sep. 2020



SYNJ-1 Pathway
For Publication and Classroom (Cover Proposal)
Dr. Andrew Sobering
Adobe Illustrator, Microsoft PowerPoint
Jan. 2021

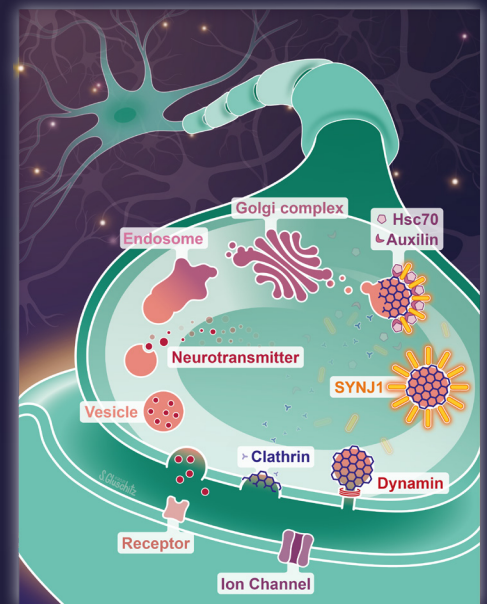
SYNJ-1-Pathway ►

For Publication and Classroom (Graphical Abstract)

Dr. Andrew Sobering

Adobe Illustrator, Microsoft PowerPoint

Jan. 2021



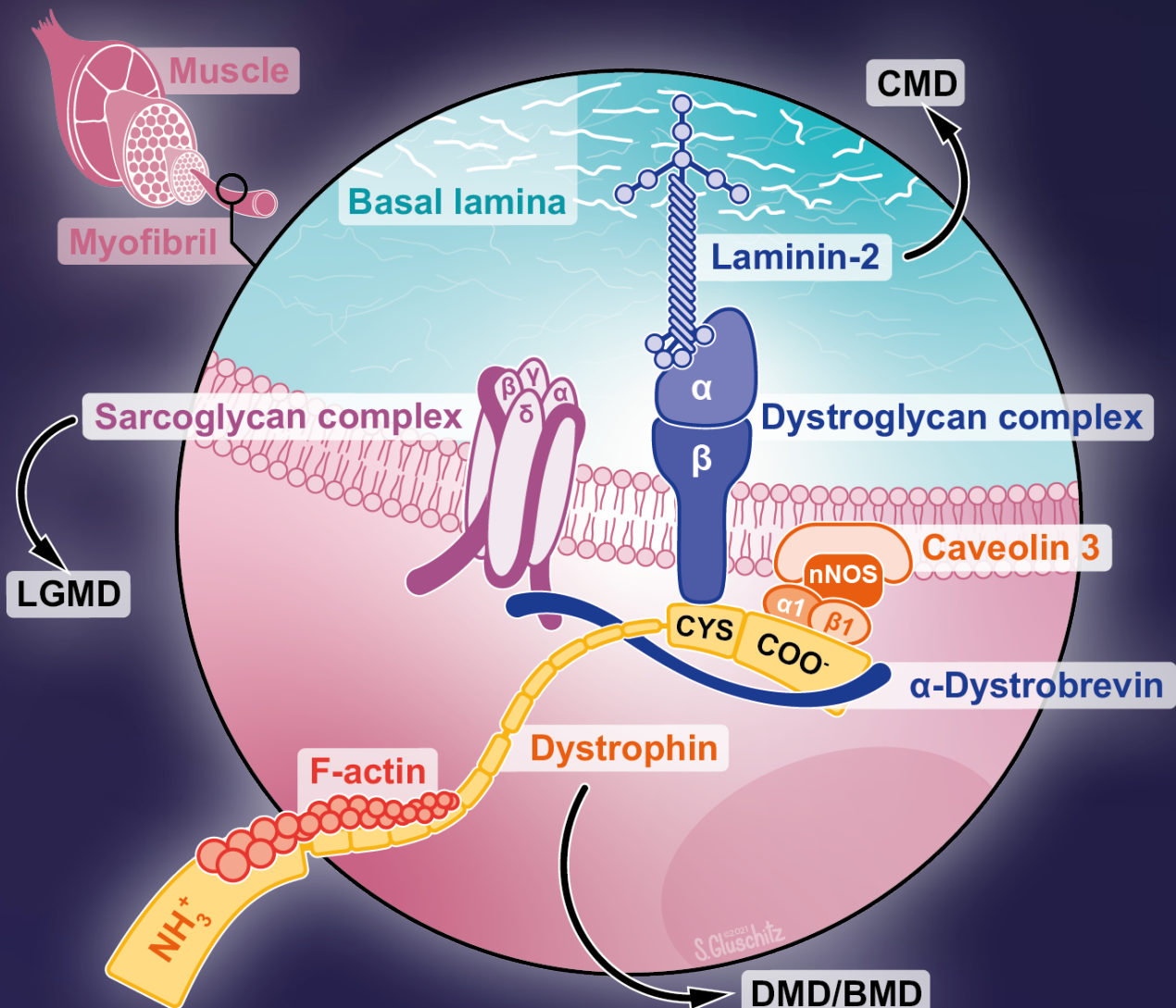
▼DMD-Dystrophin

For Publication and Classroom (Graphical Abstract)

Dr. Andrew Sobering

Adobe Illustrator, Microsoft PowerPoint

Dec. 2020



nature machine intelligence

Learning visual appearance
for flight control



Volume 3



No. 1

January 2021

Learning visual appearance for flight control

Flying insects show impressive skills in navigation and piloting, including landing and avoiding obstacles,...

Volume 3 Issue 1, January 2021



Learning visual appearance for flight control

Flying insects show impressive skills in navigation and piloting, including landing and avoiding obstacles, which roboticists try to mimic in the design of lightweight flying robots. The visual cue of optical flow is known to play a major role in insect navigation and is increasingly studied for use by small flying robots as well.

However, there are gaps in the current understanding of optical flow control, as it cannot disentangle distance from velocity, and is less informative in the forward flight direction. In this issue, De Croon et al. propose a solution that consists of a learning process in which the robot first uses optical flow and self-induced oscillations to perceive distances to objects in its environment. It then learns a mapping from visual appearance to these distances to complement optical flow, solving the above-mentioned problems. The approach, which is biologically plausible in terms of processing, sensing, and actuation requirements, is demonstrated on a flying robot.

See [De Croon et al.](#) [show less](#)

Image: Sarah Glusnitz. Cover design: Lauren Heslop.

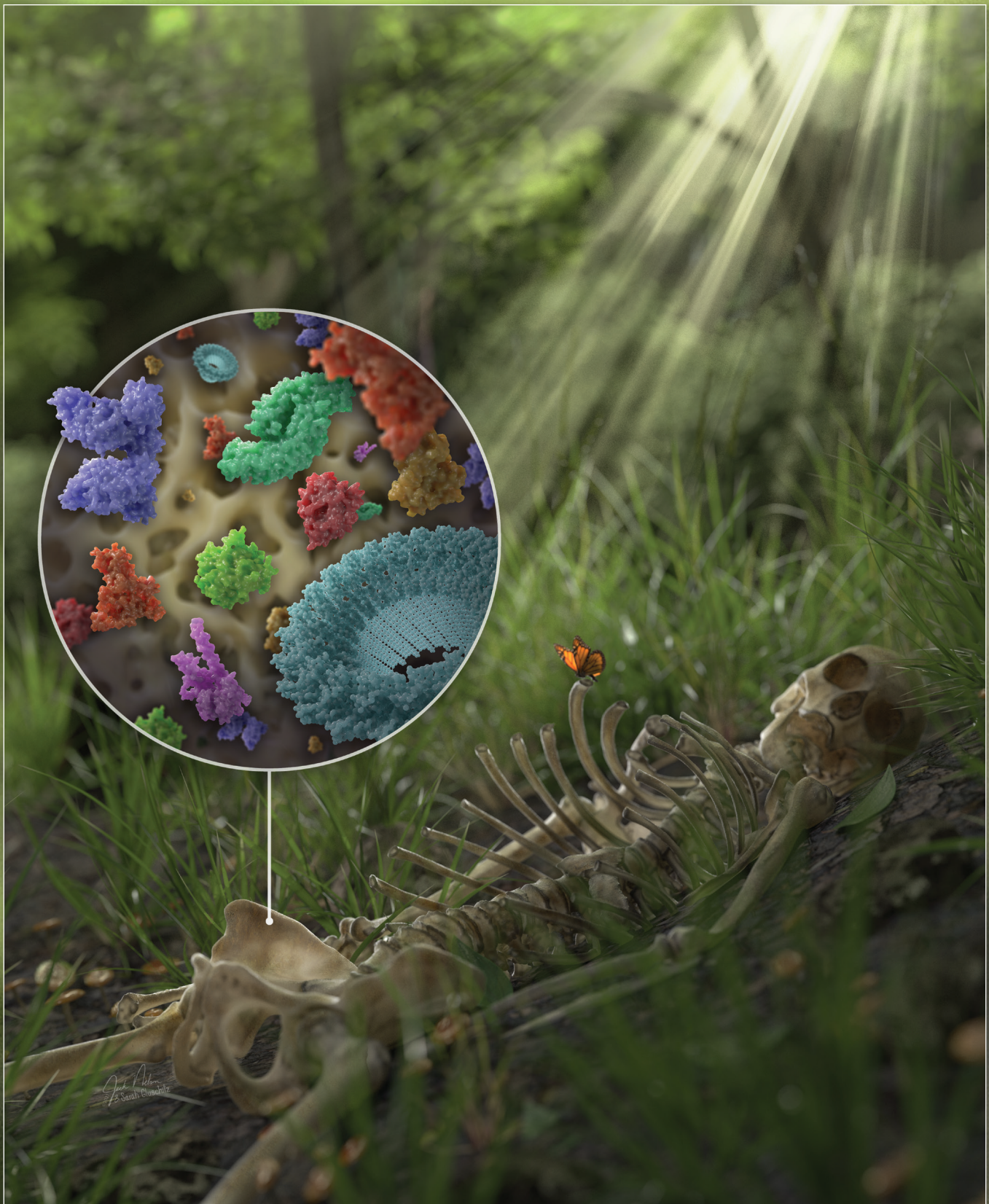
January issue now live

Nature Machine Intelligence is an online-only journal for research and perspectives from the fast-moving fields of artificial intelligence, machine learning and robotics. Launched in January 2019.

Visual Appearance for Flight Control For Publication (Cover Illustration)

Dr. Guido De Croon
Cinema4D, Adobe Photoshop and Illustrator
Dec. 2020 - Jan. 2021





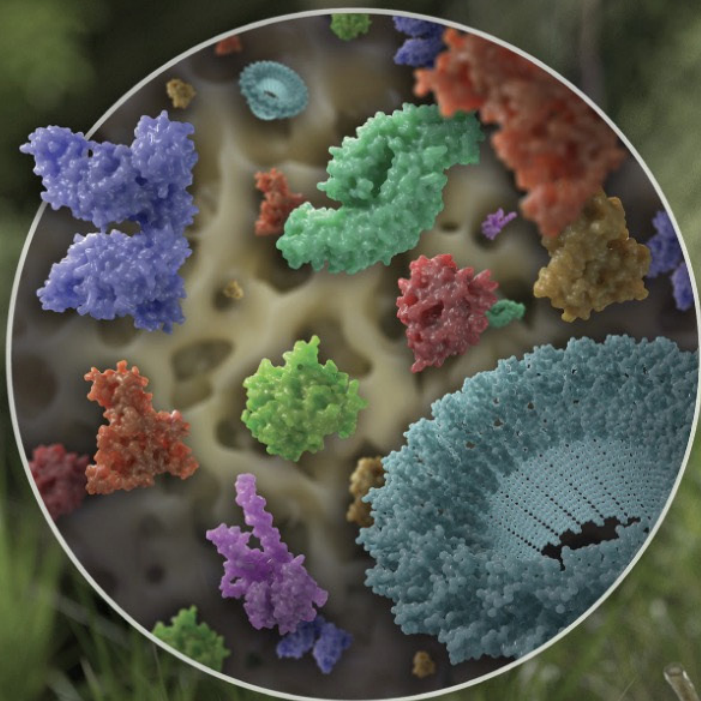
**Bone Proteins in Decomposing Human Remains
For Publication (Cover Illustration)**

Drs. Hayley L. Mickleburgh and Noemi Procopio in Collab. with J. Nelson
Art Direction and Design, Cinema4D (Skeleton), Adobe Photoshop and Illustrator
Mar. 2021

Journal of proteome research

Xxxxx XXXX

Volume XX Number XX pubs.acs.org/jpr



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R. Anterior Leg Dissection - Femoral Triangle Dissections for Wet Lab Sessions

Inguinal ligament
Reflected cutaneous nn.

Femoral v.

Femoral a.

Femoral n.

Great saphenous v.

Adductor longus m.

Sartorius m.



Ilioinguinal n.

Spermatic cord

Ductus deferens

Branches of
Ilioinguinal n.

Gracilis m.

S. Gluschnitz '22

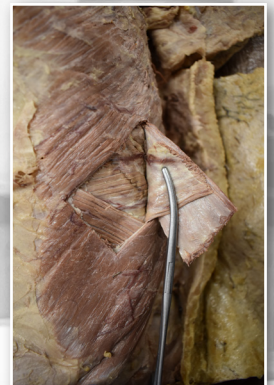
Abdominal Wall Dissection ▶ Dissections for Wet Lab Sessions Window to expose layers of abdominal muscles



External oblique m. ▶



Transverse m. ▶



Internal oblique m.

Ongoing dissections throughout my time at St. George's Universities



UNIVERSITAS SANCTI GEORGI
MCMXXVI
St. George's University
SCHOOL OF MEDICINE

S. GLUSCHITZ

◀ Lower Limb Dissection