

From The Anatomy Theater in Padua to Body Worlds

500 years of public anatomy, innovation and Ethical Issues
or
500 Years of Science Communication

Tal Berman;

The Israel National Museum of Science, Technology & Space; Haifa, Israel.

Erice; May 2010



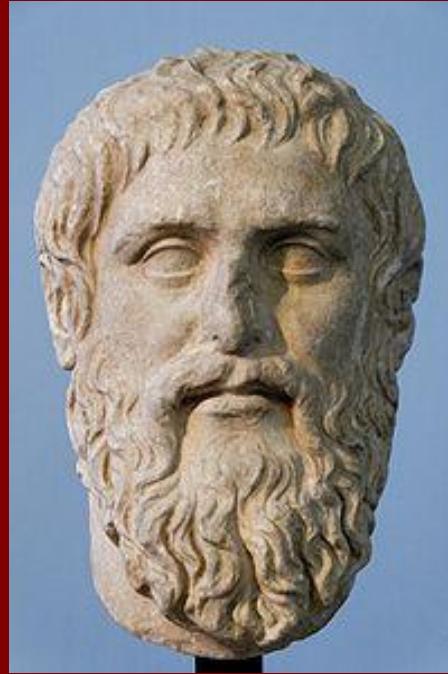
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Tutankhamun's mummy

The Dualism of Body & Soul



Plato:
there is difference between body and
soul. The body as only a temporary
housing for the soul.



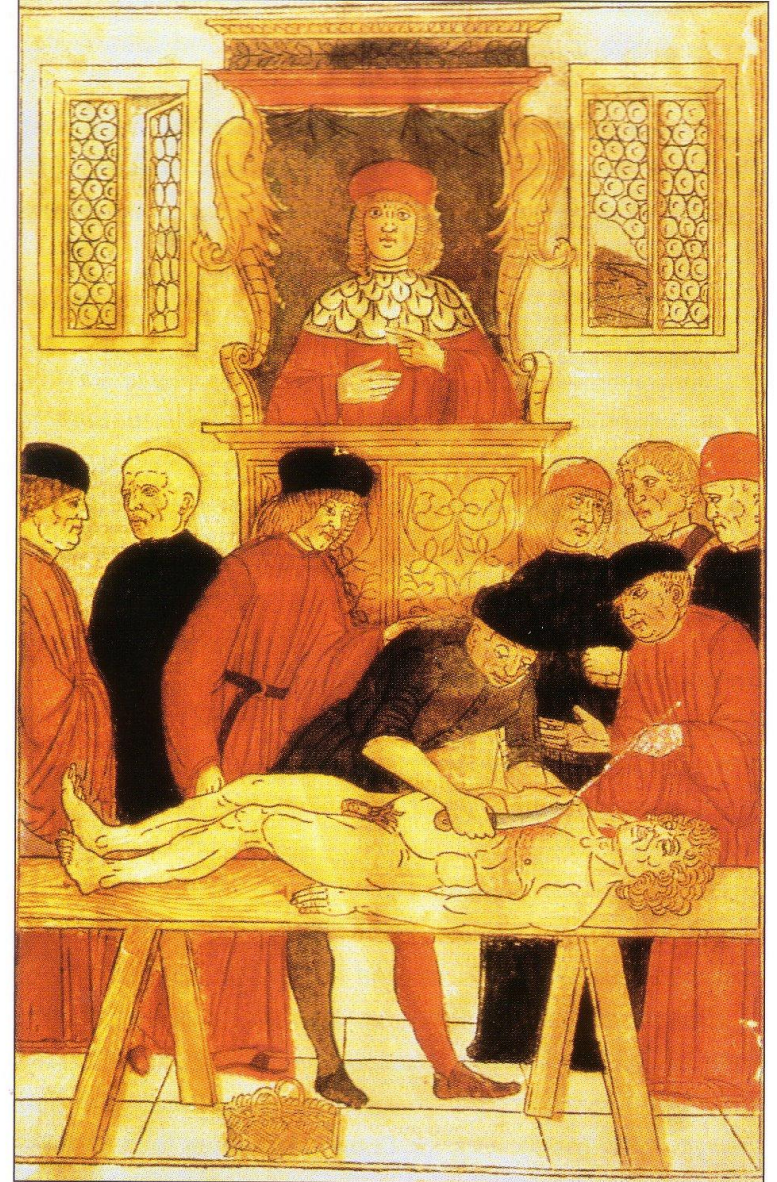
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Erasistratus discovers the cause of the illness of Antiochus. Painting by Jacques-Louis David (1774)

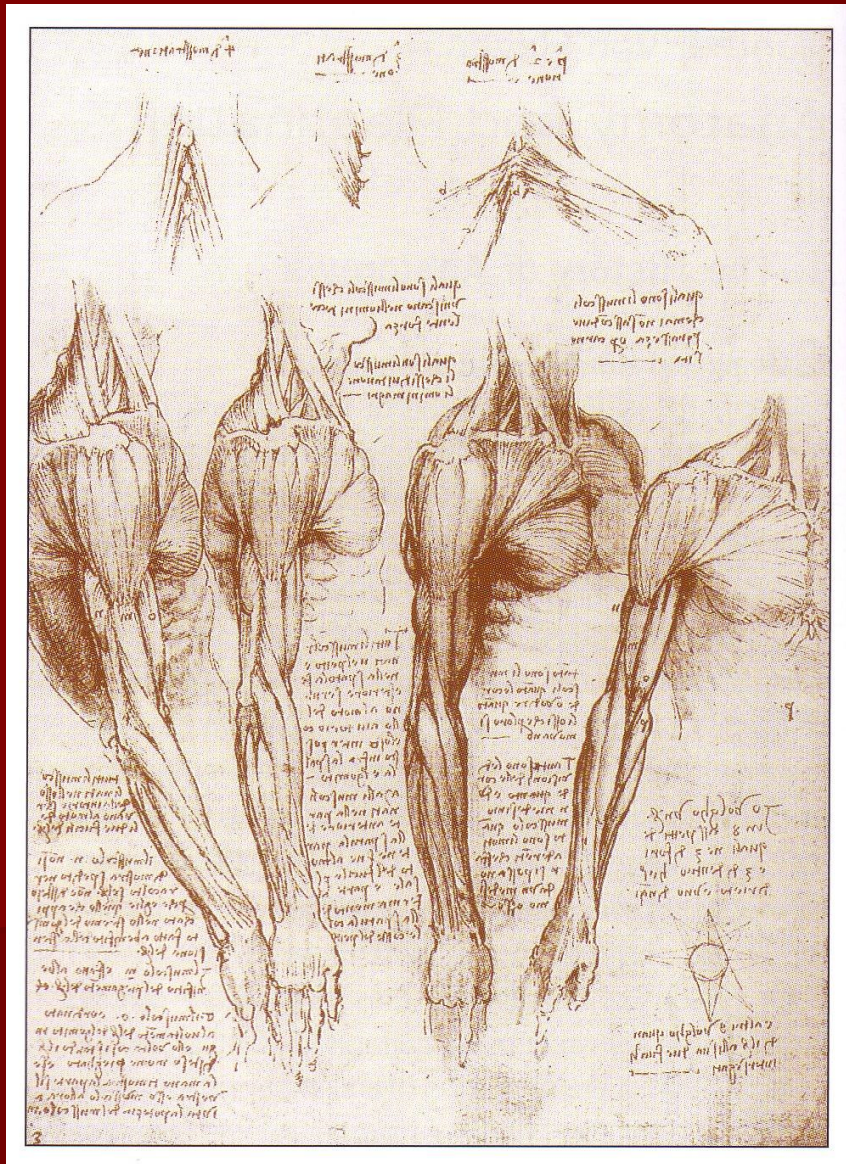
Fasciola de Medicina, drawing of an anatomy lecture, 1493. The professor read from the books of Galen, while his assistants performed the dissection.



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Anatomical Studies of Leonardo da Vinci



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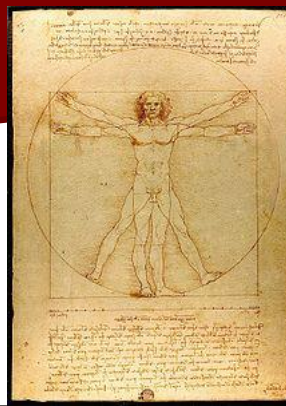
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A page from Leonardo's journal showing his study of a foetus in the womb (c. 1510)



Anatomical study of the arm, (c. 1510)



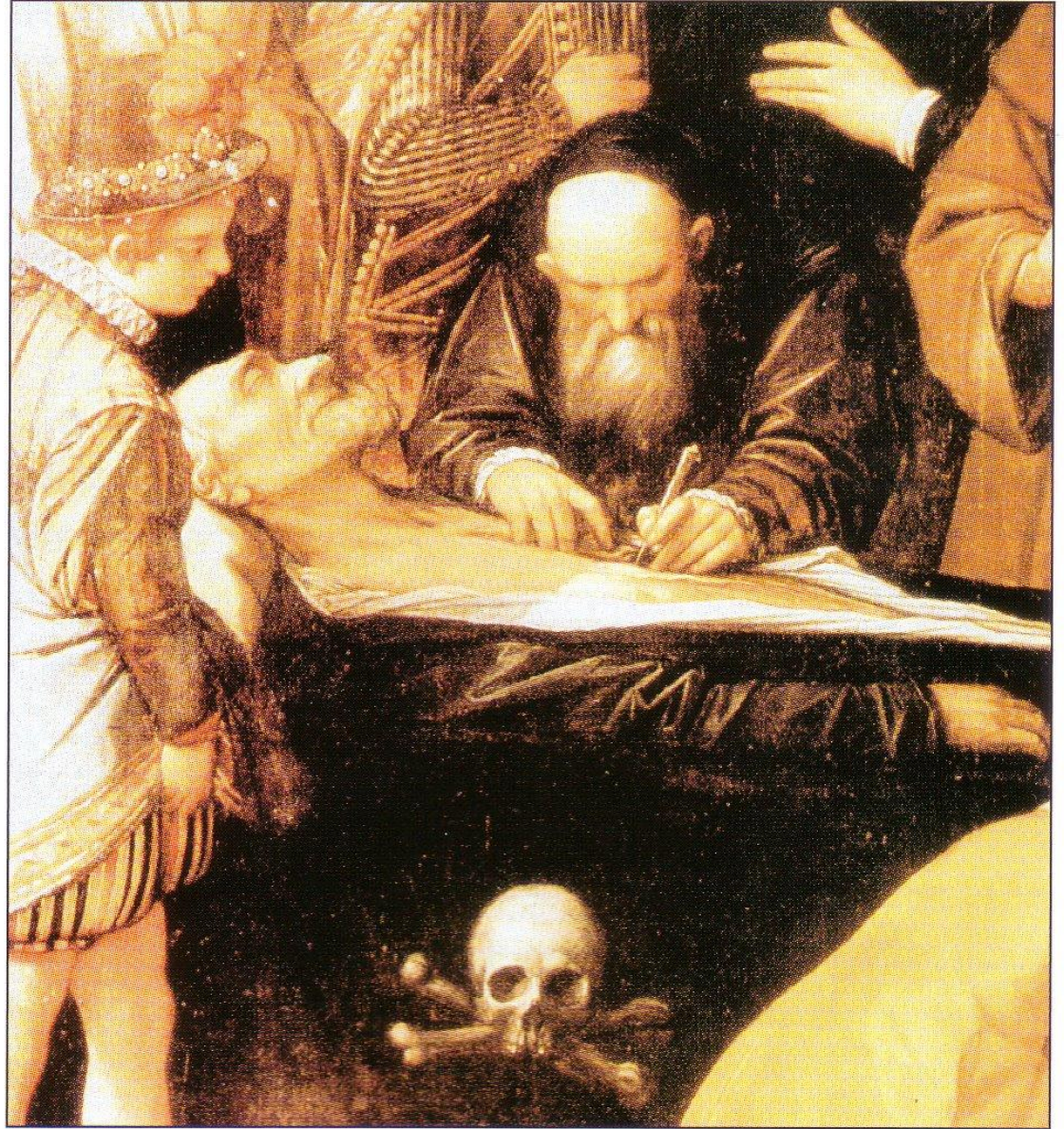
The Vitruvian Man (c. 1485)



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Michelangelo dissecting a corpse



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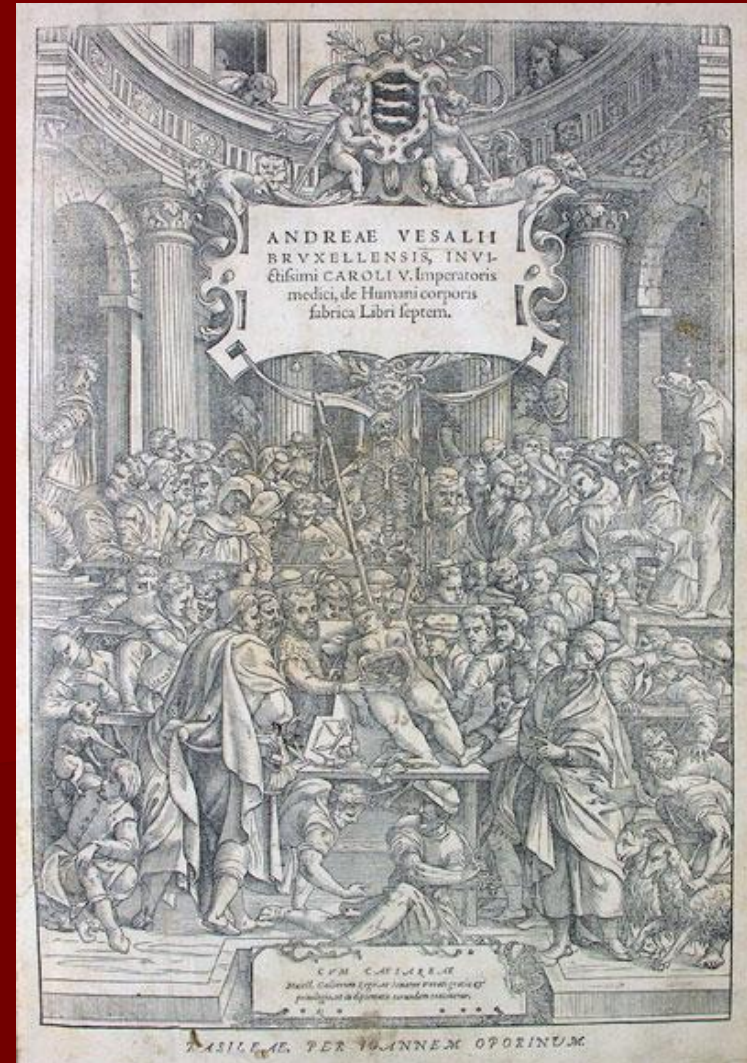
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Andreas Vesal (1514-1564), founder of the science of anatomy

“Theatre of Anatomy”

frontispiece illustration for Andreas Vesal's seven-volume opus *On the Fabric of the Human Body*. It shows Vesalius performing a dissection in a crowded theatre. Like many Renaissance paintings, this illustration is filled with symbolisms and allegories (1543).



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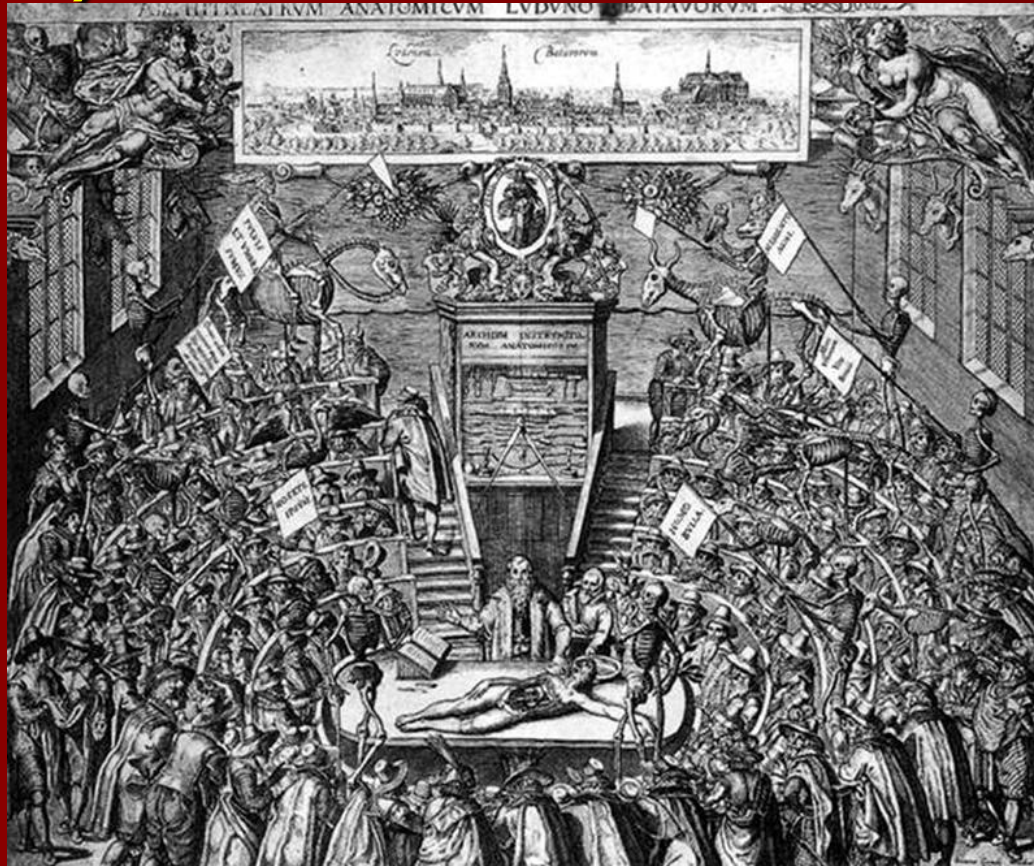
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Vesalius's skeleton at the Institute of Anatomy of Univ. of Basel (1543)

Anatomical Theatre

Autopsy – to see with one's own eyes



Leiden Univ. early 17th century



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Dr. Tulp's Anatomy Lesson by Rembrandt; Amsterdam, 1632.



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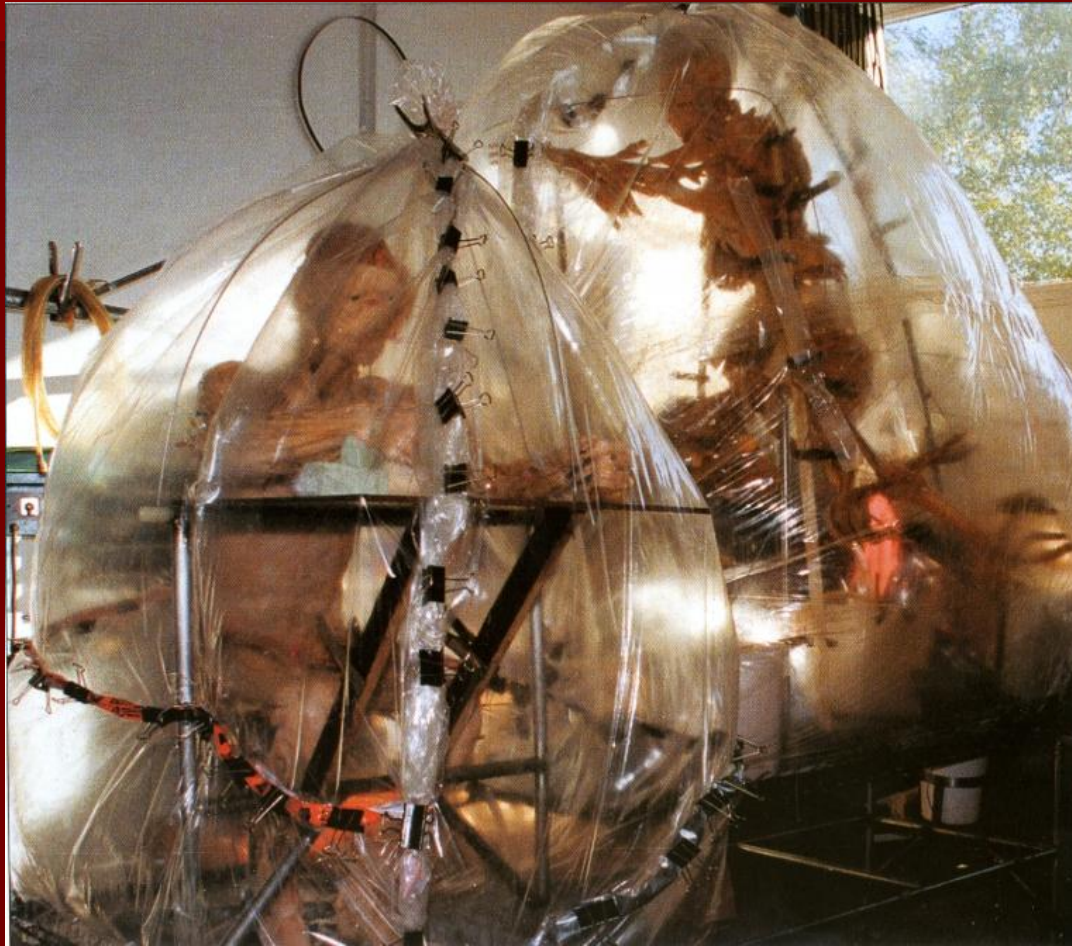
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- Why was it a success?
- Way & When did it stopped?

Gunther von Hagens, invented the **plastination**, technique to preserved human bodies and body parts. University of Heildelberg, 1977



Plastination



The Israel National Museum of Science, Technology & Space

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פעילות המוזיאון בעידוד הטכניון - מכון טכנולוגי לישראל



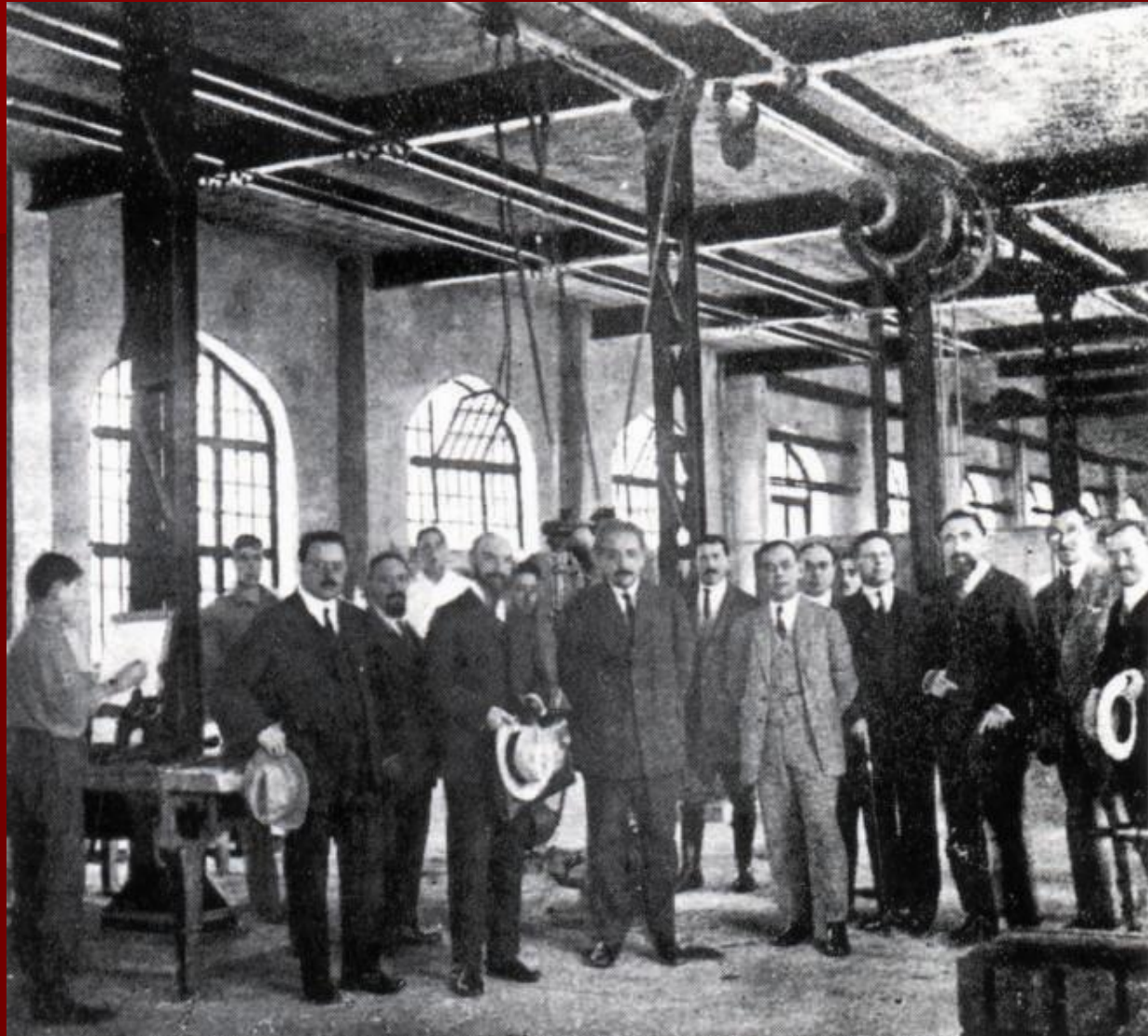
The Building 1924 - 2010



The Israel National Museum of Science, Technology & Space

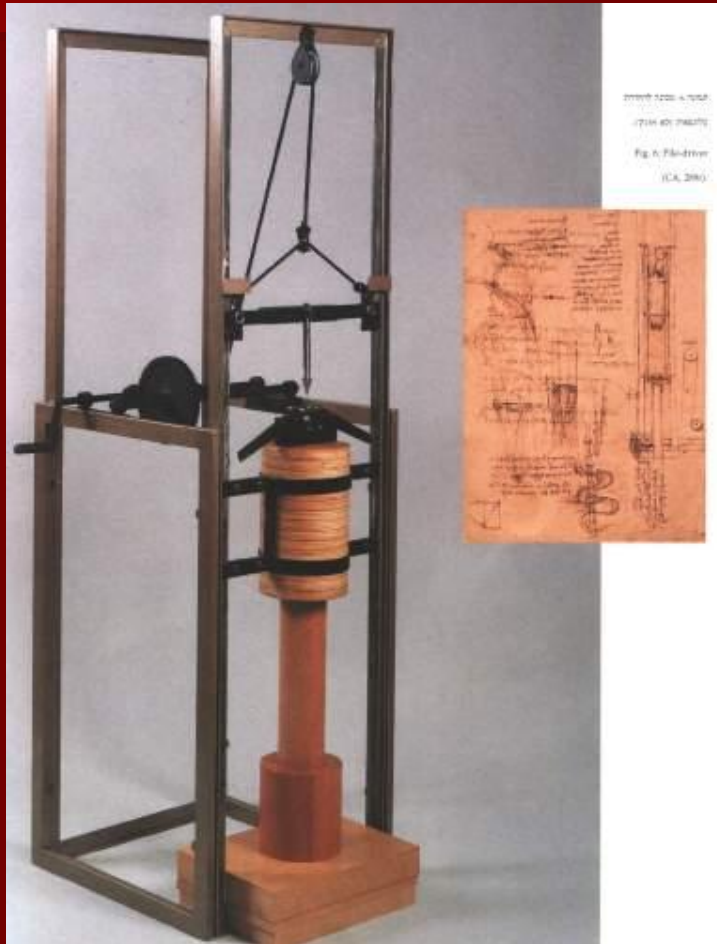
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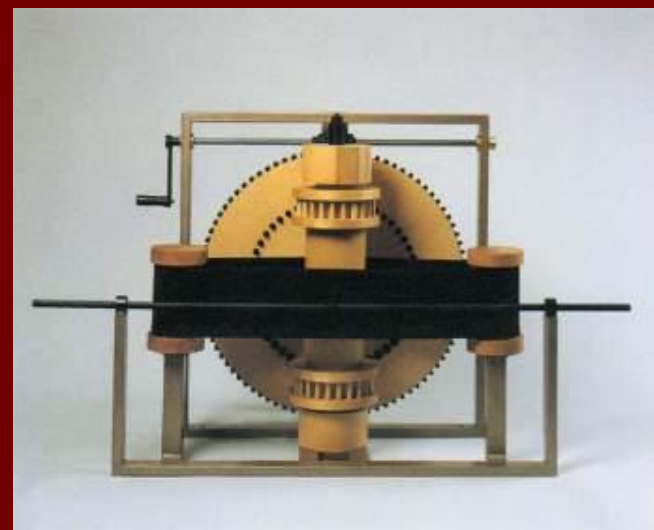
- Established in 1984
- Housed in an historic landmark building, originally home to the Technion – Israel Institute of Technology, Israel's first institution of higher education
- The Museum's array of 550 permanent exhibits, mostly interactive
- About 500,000 visitors of all ages, backgrounds and geographic locations, take part in Museum activities annually
- Historic Collection, of scientific instruments and equipment, has led the Israeli Government to designate the Museum, the country's National Archive of Scientific Instruments



Albert Einstein Touring the Historic Technion Workshop Building (1923)

Leonardo da Vinci Scientist and Engineer







Flight Exhibition

1904 – 2004, 100 Years of Aviation



The Secrets of Life

The World of D.N.A



Magical Science



Visual Deceptions Hall



Green Energy Exhibition





Patagonia Gainets



Scientific Center as a National Museum



*Albert Einstein's
teaching aids
(tellurium, solar
system model and
telescope)*



*Imagine – Ilan Ramon
Israel's First Astronaut*

Expanding – Science Garder



Educational & Visitors Programs



Outreach Activities



Bodies or Body Worlds?



BODIES
THE EXHIBITION

מחשבות, ידיעות מהאריזונה... * מצלמות אבטחה - ועדת... * BODIES...TheExhibition

http://www.bodiestheexhibition.com/

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BODIES

THE EXHIBITION

Celebrate the wonder of the human form at **BODIES...The Exhibition**, a phenomenal exhibition about the amazing and complex machine we call the human body.

This Exhibition--which features actual human specimens--allows people of all ages access to sights and knowledge normally reserved only for medical professionals. Take the opportunity to peer inside yourself, to better understand how your elaborate and fascinating body works, and how you can become a more informed participant in your own health care.

Ticket Sales:

- [Atlanta, GA at The Premier Exhibition Center, Atlantic Station](#)
- [Chicoutimi, Quebec at Hangar du Vieux Port](#)
- [Cleveland, Ohio at 4th and Euclid Ave. \(340 Euclid Ave.\)](#)
- [Dallas, TX at West End \(603 Munger Ave.\)](#)
- [Las Vegas, NV at The Luxor Hotel and Casino](#)
- [Montreal, Quebec at Montreal Eaton Centre](#)
- [New York Exhibition at the South Street Seaport](#)
- [Niagara Falls, Ontario at 5515 Stanley Ave.](#)
- [Omaha, Nebraska at 10th and Dodge St. \(1002 Dodge St.\)](#)
- [Tucson, AZ at the Rialto Building \(300 East Congress St.\)](#)

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Exhibitions

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http://www.bodyworlds.com/en/exhibitions/current_exhibitions.html

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The Original

& The Story of the Heart

DENVER

March 12 – July 18, 2010

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der Tiere

EXTENDED

until June 20

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66538 Neunkirchen, Germany

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BODY WORLD in ISRAEL

The Original

BODY WORLDS

Gunther von Hagens

עכשיו בישראל
בונטר פון האגן:

עולמות הגוף
התערוכה המקורית

מדעטק
חיפה
2009

התערוכה שריתקה 25 מיליון אנשים ברחבי העולם, עכשיו בישראל! מדעטק, המוזיאון הלאומי למדע בחיפה, **אל תחמיצו את ההזדמנות הבדירה ללמוד מפלאות גוף האדם. להזמנת כרטיסים התקשרו 8965*:**

המוזיאון הלאומי למדע
בבניין החלל חיפה
מרכז רפואי מפרצים קיסמא 10
גבעתיים 5150000
טל: 04-8814444

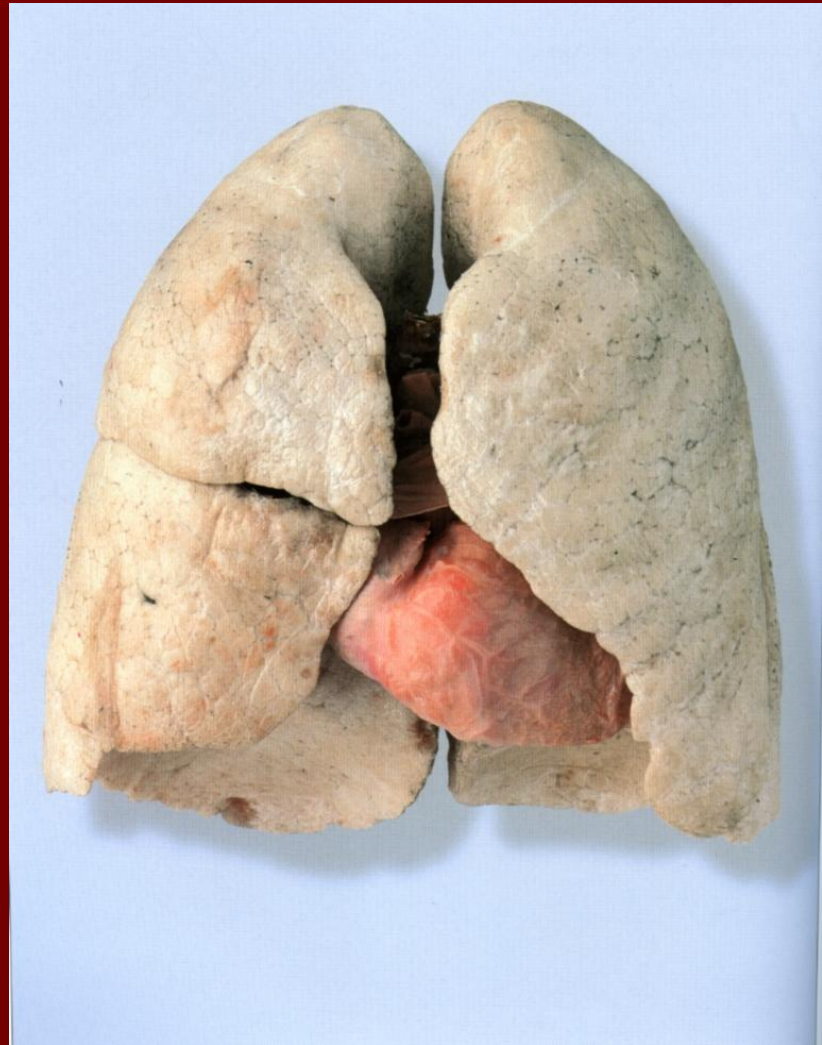
www.bodyworlds.co.il

Ethical Issues

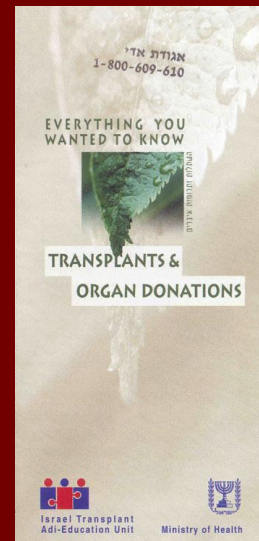
- Public exhibition of authentic human anatomical specimens would violate the dignity of the individual, and more precisely that of the deceased
- Religion feeling
- Is this the right thing to do? Using human bodies in order to make money?
- Science show or peep show

Health, improve your life style

Smoker vs. Non-Smoker



Making Coalition



Open the Doors for Criticism





All explainers are medical students



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- Was it a success?
- Way was it a success?
 - Braking a taboo
 - Education
 - Reality
 - Curiosity

Edutainment = Education + Entertainment

What is the Museums Role in Displaying Human Anatomical Specimens

Democratization of the anatomy

Summery

Edutainment = Education + Entertainment

500 Years of Science Communication