

SHROUD OF TURIN 2025 INTERNATIONAL CONFERENCE & SYMPOSIUM



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Novelties about the Holy Shroud of Jesus Christ in Turin

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SUMMARY

The following is the first of two PowerPoint author's presentations of the 2025 St. Louis Congress and discusses novelties recently published in the various journals. They not only reveal new characteristics of the HS, such as its selective radioactivity, but they also highlight the immense suffering that Jesus voluntarily endured.

The so-called transparency of matter here discussed leads to a first scientific confirmation of the Dogma of Catholic Christian Faith: "Virgin Mary before, during, and after Childbirth."

Finally, the possible explanation of the HS radioactivity through neutron radiation could overturn the meaning of the 1988 carbon-14 dating result (or the popularly understood interpretation of these results), making it the first scientific evidence of the Resurrection of Jesus Christ.

INTRODUCTION

This article presents the author's latest news published on scientific journals and presented at the 2025 St. Louis Congress on Holy Shroud (HS) of Jesus Christ.

The following slide, **Fig. 1**, shows both the positive and negative photo of the frontal body image, the negative face with superimposed the positive bloodstains and a scene of the deposition of Jesus Christ in the Sepulcher. This news is subdivided in the following categories.

-1. **DATING.** New results of mechanical, chemical (FT-IR & Raman), X-ray and numismatic type are clearly contrary to the C14/1988 results. The hypothesized neutron radiation to explain the detected intense Beta radioactivity measured in the HS blood lead to suppose that the C14/1988 might be soon the first scientific proof of the Resurrection.

-2. **BODY IMAGE.** It is not explainable, but perhaps the best hypothesis is based on something like the Holy Fire and the Maillard reaction happened when the human body was tightly wrapped in the HS.

-3. **BLOOD.** Three different types of blood have been detected with creatinine and fibrin. In addition, possible signs of hematohidrosis might exist, as well, and the possible presence of myrrh on the nape of the neck. Finally, additional scourge marks have been evidenced from the UV photos of the HS.

-4. **MEDICAL CONDITIONS** of Jesus Christ have been discussed commenting the probable presence of urea in the blood that produced microcytes and consequent respiratory problems that ended with hemopericardium.

-5. **DEPOSITION IN THE SEPULCHER.** The absence of smearing in the bloodstains, evidence of rigor mortis, the absence of putrefactions signs and the fluid blood lead to pose the following question: how did Jesus Christ come out of the HS? The consequent hypothesis of matter transparency has to be considered that also leads to a scientific confirmation of the Dogma of the Mary's Virginity.

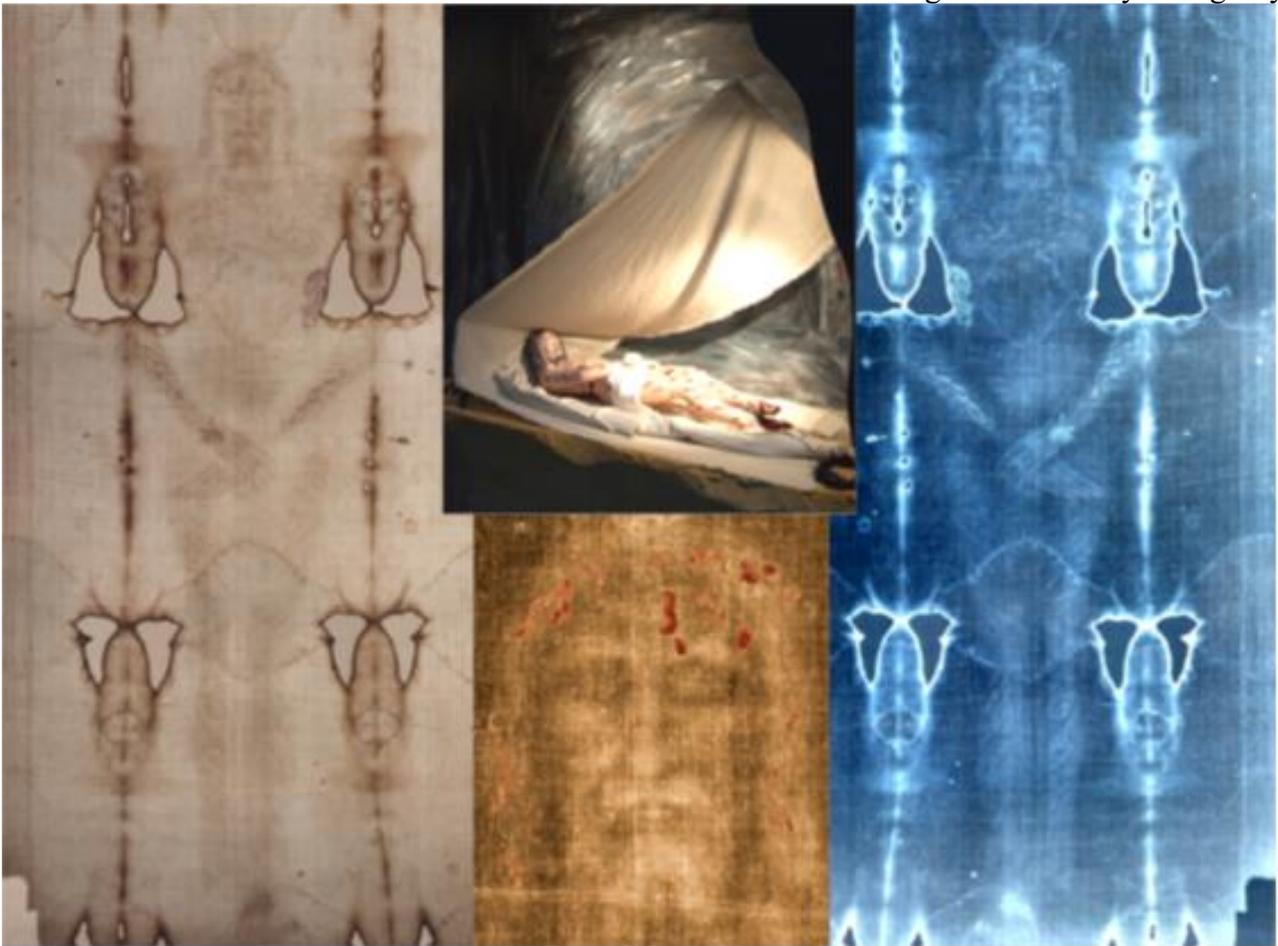


Fig. 1

-1. DATING

In 1988 the HS was radiocarbon dated to the Middle Age, but the “*conclusive evidence*” has been later contradicted by both statistical and scientific results, **Fig. 2.**

1 - Novelties about the Holy Shroud of Jesus Christ in Turin (HS): **C14/1988**

NATURE VOL. 337 16 FEBRUARY 1989

ARTICLES

Radiocarbon dating of the Shroud of Turin

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 R. E. M. Hedges[¶], R. Housley[¶], I. A. Law[¶], C. Perry[¶], G. Bonani[¶], S. Trumbore[¶],
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Very small samples from the Shroud of Turin have been dated by accelerator mass spectrometry in laboratories at Arizona, Oxford and Zurich. As controls, three samples whose ages had been determined independently were also dated. The results provide conclusive evidence that the linen of the Shroud of Turin is mediaeval.

Stat Comput (2013) 23:551–561
 DOI 10.1007/s11222-012-9329-5

Regression analysis with partially labelled regressors: carbon dating of the Shroud of Turin

Marco Riani · Anthony C. Atkinson · Giulio Fanti · Fabio Crosilla

Abstract The twelve results from the 1988 radio carbon dating of the Shroud of Turin show surprising heterogeneity.

provide conclusive evidence ?!!!

As we will see, the "conclusive evidence" will be so conclusive that it will lead to the opposite result!

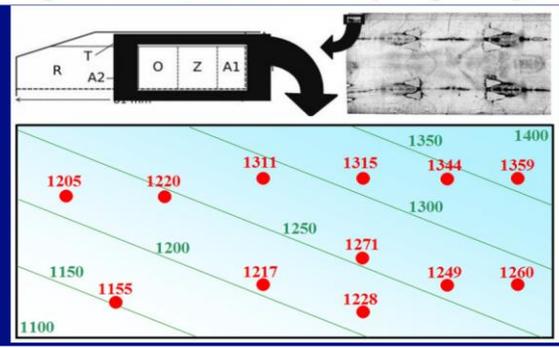


Fig. 2

A numismatic dating, **Fig. 3**, based on Byzantine coins shows that the HS existed at least from 692 A.D. when Emperor Justinian II coined a gold solidus with a face of Jesus Christ very similar to that of the HS.

1 - Novelties about the Holy Shroud of Jesus Christ in Turin (HS): **Numismatic dating**

Byzantine Coins
 Influenced by the Shroud of Christ

Gold solidus of Justinian II 692 AD.

The HS existed from 692 AD.

Byzantine coins showing the face of Christ

Bronze medal

Electrum alloy particle in a HS fiber, typical of Byzantine coins.

Original article: Do gold particles from the Turin Shroud indicate its presence in the Middle East during the Byzantine Empire? Giulio Fanti^{1*}, Claudio Fortan¹

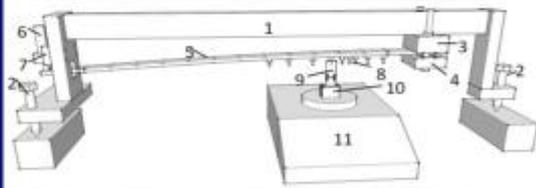
Available online at ScienceDirect
 www.sciencedirect.com

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 www.elsevier.com/locate/elsevier

Fig. 3

A mechanical multiparametric dating, **Fig. 4**, of single linen fibers based on a machine designed and calibrated at Padua University arrived to date the HS to 90 A.D. ±200 years at 95% confidence level.

1 - Novelties about the Holy Shroud of Jesus Christ in Turin (HS): Mechanical dating



Schematic drawing of the cyclic traction machine.
 The frame (1) is adjusted by means of three levelling screws (2). The clamping blocks (3 and 4) of the cantilever beam (5) constrain the displacement reducer. The micrometric screw (6) is integral with the frame via the attachment plate (7), whose translating pin bends the beam (5). The base (9) is hung from one of the hooks (8) of the displacement reducer (5) to which the textile fibre to be subjected to the tensile test is glued. The lower part of the base is glued to two steel blocks (10) which rest on the plate of the analytical balance (11).

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Mechanical and opto-chemical dating of the Turin Shroud

Giulio Fanti¹, Pierandrea Maffi², Fabio Crosilla³

Abstract. ... innovative dating methods based on the analysis of mechanical parameters (breaking strength, Young modulus and loss factor) ... a particular cycling-loads machine able to measure the mechanical parameters of single flax fibers 1-3 mm long.

... **HS age: 90 AD ±200 (95% confidence level)**



Reference samples

Fig. 4

Two chemical datings based on both Raman and FT-IR methods, **Fig. 5**, also showed that the C14/1988 medieval result is wrong and they agreed with the result of the mechanical dating. Combining these three independent results, an age of the HS to 53 A.D. ±230 years at 95% confidence level was determined. This result is also in agreement with the numismatic dating.

1 - Novelties about the Holy Shroud of Jesus Christ in Turin (HS): Chemical dating



Raman machine



FT-IR machine

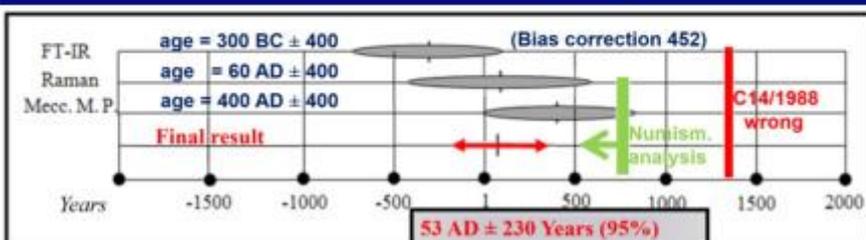
MATEC Web of Conferences 36, 01001 (2015)
 DOI: 10.1051/mateconf/20153601001
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Mechanical and opto-chemical dating of the Turin Shroud

Giulio Fanti¹, Pierandrea Maffi², Fabio Crosilla³

Abstract. ... innovative dating methods of ... FT-IR and Raman ... date of 250 BC by a FT-IR ATR analysis and a date of 30 AD by a Raman analysis.

These two dates combined with the mechanical result, ... give a final date of the HS of 90 AD ±200 years at 95% confidence level.



4 independent methods date the HS to the First Century AD

Fig. 5

The results of the mechanical and chemical dating are also in agreement with the numismatic one and in agreement with the following X-Ray dating, **Fig. 6** where a piece of HS thread was measured to detect the depolymerization degree of the cellulose.

1 - Novelities about the Holy Shroud of Jesus Christ in Turin (HS): X-ray dating

heritage MDPI

Article
X-ray Dating of a Turin Shroud's Linen Sample
 Liberato De Caro ^{1,*}, Teresa Sibillano ¹, Rocco Lassandri ¹, Cinzia Giannini ¹ and Giulio Fanti ²

Abstract: On a sample of the HS, we inspected the structural degradation by means of Wide-Angle X-ray Scattering (WAXS). ...The linen thread was about 2 mm long. The experimental results are compatible with the hypothesis that the HS is a 2000-year-old Relic, as supposed by Christian tradition ...

Sample and 2D-WAXS pattern of the HS thread

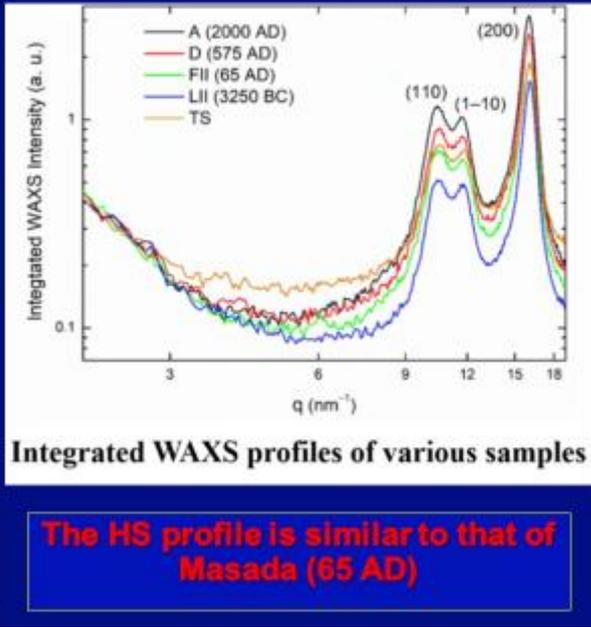


Fig. 6

But then how can we explain the Medieval 1988/C14 dating result if five alternative dating methods were all found to be compatible in assigning a date of the first century AD?

The explanation stems from the fact that in 1988, despite having measured the C14/C12 isotope ratio fairly correctly, the environmental effects of a hypothetical neutron radiation were not considered. This radiation, as will be discussed later, selectively rendered the HS radioactive and transformed the nitrogen-14 atoms into carbon-14 according to the relationship shown in Fig. 7.

This is not just a hypothesis; a verification of this hypothesis has already been produced in this figure, as the HS blood contains a very low amount of nitrogen, while the remaining part was most likely converted into carbon-14.

1 - Novelities about the Holy Shroud of Jesus Christ in Turin (HS): Neutron effects – N in blood

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Could an anomaly in Turin Shroud blood reopen the 1988-radiocarbon-dating result?

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Abstract:
 A blood anomaly was found in the HS. Unlike common human blood, the HS blood shows levels of nitrogen lower than the background. T.J. Phillips first supposed that a neutron radiation acted on the HS changing nitrogen atoms into 14C.
 So the results of the 1988/C14 dating of the HS should be corrected for this systematic effect.

	¹² C	¹³ C	¹⁴ C
Percentage	98.89 %	1.11 %	1.25 × 10 ⁻¹⁰ %
Mass of carbon isotopes in 120 kg of carbon	118.7 kg	1.332 kg	0.15 µg

Common blood with Nitrogen

TS blood poor of Nitrogen

$$^{14}\text{N} + n \rightarrow ^{14}\text{C} + p$$

Due to a neutron radiation the HS blood is poor of N.

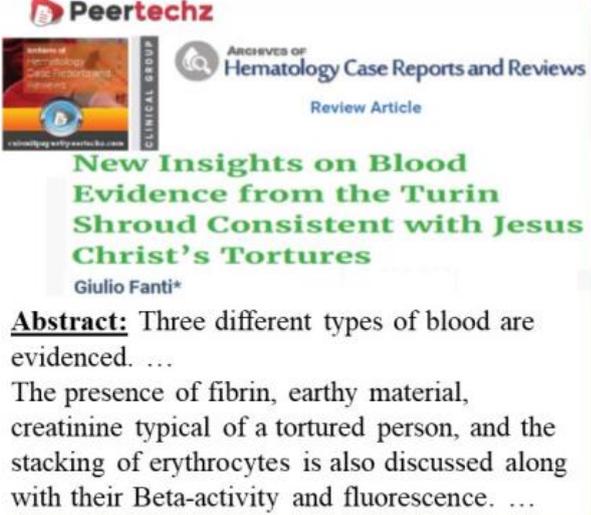
Element Weight %

C K	35.82
O K	32.53
Al K	0.53
Si K	0.84
S K	0.52
Cl K	3.44
Ca K	1.71
Fe K	2.28
Cu K	1.02
Au L	41.61

Fig. 7

The slide in **Fig. 8** shows one of the radioactivity tests performed on samples from HS. In particular, the relatively very high Beta radioactivity from a blood sample taken from the bleeding area of the feet in the dorsal image is highlighted. Such radioactivity can be obtained from intense neutron radiation that occurred 2000 years ago.

1 - Novelties about the Holy Shroud of Jesus Christ in Turin (HS): TS blood radioactive



Abstract: Three different types of blood are evidenced. ...
The presence of fibrin, earthy material, creatinine typical of a tortured person, and the stacking of erythrocytes is also discussed along with their Beta-activity and fluorescence. ...



Alpha and Beta counting (right) on a HS blood sample several orders of magnitude larger than that of the support glass.

Due to a probable neutron radiation the HS blood is selectively Beta-radioactive.

Fig. 8

It is known that many radioactive materials also fluoresce. Confirming that this type of blood is radioactive, it also displays a distinct red-orange fluorescence, contrasted by the greenish fluorescence of blood serum, **Fig.9**.

1 - Novelties about the Holy Shroud of Jesus Christ in Turin (HS): TS A-blood fluorescent



Visible light.		Ultraviolet	
			
Bundle of fibers trapped in a blood crust and hematic material with serum.		Drop of hematic fluid that reached the fiber in the liquid phase.	



HS blood.



Common blood.

Fig. 9

Fig. 10 summarizes these results in the scientific paper indicated, noting that the selective Beta radiation measured on the HS, if confirmed by parallel results, would overturn the result of the C14/1988 radiocarbon dating, as this could become the first scientific evidence that the HS was subjected to intense neutron radiation that enriched the linen with C14 from nitrogen. And if we are referring to an intense neutron radiation 2,000 years ago, how can we explain it if not in reference to the energy of the Resurrection?

1 - Novelties about the Holy Shroud of Jesus Christ in Turin (HS): C14/1988 proof of the Resurrection?

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Vol: 3 & Iss: 2 Review

The Turin Shroud: A Critical Analysis and Rebuttal of a Recent Scientific Study
 Giulio Fanti^{1*}, Carol Gregorek², Michael Kowalski³, Thomas McAvoy⁴ and Robert A. Rucker⁵, Gertrud Wally⁶

Suppose this selective radiation is confirmed using larger samples of the HS. In that case, the C14/1988 test will not be considered proof of the medieval age of the HS - as many persist today in claiming against all the reported unambiguous evidence of the contrary - but rather it will be proof that an intense nuclear reaction occurred in the HS linen that selectively altered its isotopic ratio.

$N^{14}(n,p)C^{14}$

If the selective Beta radiation will be confirmed, the C14/1988 result will be the first scientific proof of a neutron radiation occurred in the HS that enriched the linen of C14.

But how can we think to an intense neutron radiation of 2000 years ago if not to the Resurrection?



Intense Beta radioactivity altered the C14 percentage!

Fig. 10

-2. BODY IMAGE

1 - Novelties about the Holy Shroud of Jesus Christ in Turin (HS): Body image – Not explainable



FROM: John Heller, STURP's final meeting in October 1981
<https://www.shroud.com/78conclu.htm>

Audio Recordings of the Final STURP Team Meeting -
 New London, Connecticut - October 9-11, 1981

"No pigments, paints, dyes or stains have been found ... the image has unique, three-dimensional information encoded in it. ... there has been a direct contact of the Shroud with a body, ... this type of contact ... is totally incapable of explaining the image of the face."
(An explanation may be possible now! See later.)

"The basic problem from a scientific point of view is that some explanations which might be tenable from a chemical point of view, are precluded by physics. Contrariwise, certain physical explanations which may be attractive are completely precluded by the chemistry.
 For an adequate explanation for the image of the Shroud, **one must have an explanation which is scientifically sound, from a physical, chemical, biological and medical viewpoint. At the present, this type of solution does not appear to be obtainable ...**
 Furthermore, experiments in physics and chemistry with old linen have failed to reproduce adequately the phenomenon presented by the Shroud of Turin. The scientific consensus is that the image was produced by something which resulted in oxidation, dehydration and conjugation of the polysaccharide structure of the microfibrils of the linen itself. ... **The image is an ongoing mystery ... the problem remains unsolved.**"

Fig. 11

It is well known that the HS body image cannot be scientifically explained, much less reproduced, although the media often interviews people who, in an unscientific manner, claim to have succeeded in reproducing this "impossible image."

Important in this regard is the official statement issued by scientists at the STuRP (Shroud of Turin Research Project) in 1981 (**Fig. 11**), which synthetically indicates why this image has no explanation. Below, while not claiming to fully explain the formation of the body image, a procedure is proposed that is quite complex but may come close to understanding the mechanism of its formation.

Fig. 12 outlines the basis of the proposed hypothesis of body image formation, also published in the book referenced here. Experiments conducted at the University of Padua confirm the hypothesis of body image formation based on Corona Discharge, likely produced during a phenomenon similar to the one that occurs annually when the Holy Fire appears in the Basilica of the Holy Sepulcher in Jerusalem. This image formation, however, must be accompanied by a chemical reaction named of Maillard.

1 - Novelties about the Holy Shroud of Jesus Christ in Turin (HS): Holy Fire & Maillard

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Holy Fire and Body Image of the Holy Shroud: Divine Photography Hypothesis
 Giulio Fanti

Among the various energetic hypotheses considered in the past, the best seems the one related to the Corona Discharge.

To confirm this hypothesis, several experimental results were produced in the High Tension Room of Padua University, under the guidance of Prof. Pesavento.

The Holy Fire and the Divine Photography
 The Image of the Holy Shroud of Christ
 Giulio Fanti | Robert Siefer
 Series Editor: Giulio Fanti

Fig. 12

As you see in **Fig. 13**, the hypothesis of body image formation substantially refers to the Maillard reaction triggered by the urea exuded from the corpse in the presence of very particular radiative phenomena, very similar to the Holy Fire of Jerusalem (connected with corona discharge) that develops every year in the Edicule of the Holy Sepulcher.

The Holy Fire, as it is reported in the book you see on the left, is a cold fire with a temperature of about 40 °C that remains as a cold fire for the first minutes. The author personally managed to experience this Miraculous Fire, and you can see in the photo that he put his chin in this fire while it was still a cold fire and there was no damage or pain to him whatsoever from this cold fire.

On the right a possible effect of the Holy Fire is presented in the form of a result obtained by exposing a manikin wrapped in a linen fabric to an intense electric field produced by a tension of 200 kV: a body image with many features typical of the HS has been reproduced.

1 - Novelties about the Holy Shroud of Jesus Christ in Turin (HS): Holy Fire & Maillard

The hypothesis refers to the **Maillard reaction** triggered by the **urea** exuded from the corpse in the presence of very particular radiative phenomena, very similar to the **Holy Fire** of Jerusalem (connected with **corona discharge**) that develops every year in the **Edicule of the Holy Sepulcher**.

Experimental results with Corona Discharge (tension of 200 kV).

Fig. 13

The hypothesis under examination, named Divine Photography, see **Fig 14**, proposes that, in addition to the energy (Corona Discharge) provided by the Holy Fire, the Maillard reaction (caramelization that is a browning) is necessary. This reaction can occur through the sugars contained in the flax and the urea (mixed with aloe and myrrh in the amalgam) exuded by the corpse. On the right bottom you can compare the experimental result previously presented with the numerical result of a finite element electrical model.

1 - Novelties about the Holy Shroud of Jesus Christ in Turin (HS): The Divine Photography

HYPOTHESIS:

To obtain the body image, in agreement with Ray Rogers, in addition to the energy (**Corona Discharge**) provided by the **Holy Fire**, the **Maillard reaction** (caramelization) is necessary.

According to M. Valtorta, the Maillard reaction occurs through the **sugars** contained in the flax and the **urea** (mixed with aloe and myrrh in the manteca) exuded by the corpse.

Divine Photography

Negative image on linen, from a conductive manikin subjected to corona discharge.

Numerical simulation.

Fig. 14

As it will be explained in more detail in the second paper, "*Holy Shroud: Corona Discharge to Explain the Unique Condition of the Body Image Wrapping*", **Fig. 15** presents a new hypothesis for the wrapping of the HS. While traditional radiation-based hypotheses to explain the body image suggest a flatter wrapping than that which previously occurred during the formation of the bloodstains, this hypothesis assumes a single, tight wrapping around Jesus' head.

To explain the peculiarities of the body image, including the presence of only minimal facial distortions due to the wrapping, it is necessary to assume electron radiation caused by a vertical electric field that produces an intensity that is not constant but that depends on the angle between the direction of electron emission perpendicular to the skin and the vertical direction.

In this hypothesis, therefore, only the central part of the face—the eyes, nose, mouth, and the central part of the cheeks—would have imprinted the image, while the sides of the cheeks and the ears would not.

The hair, however, tightened by the HS wrapping around the head, would have produced a relatively intense image due to the so-called "tip effect" which states that smaller radii of curvature produce electron emissions of greater intensity.

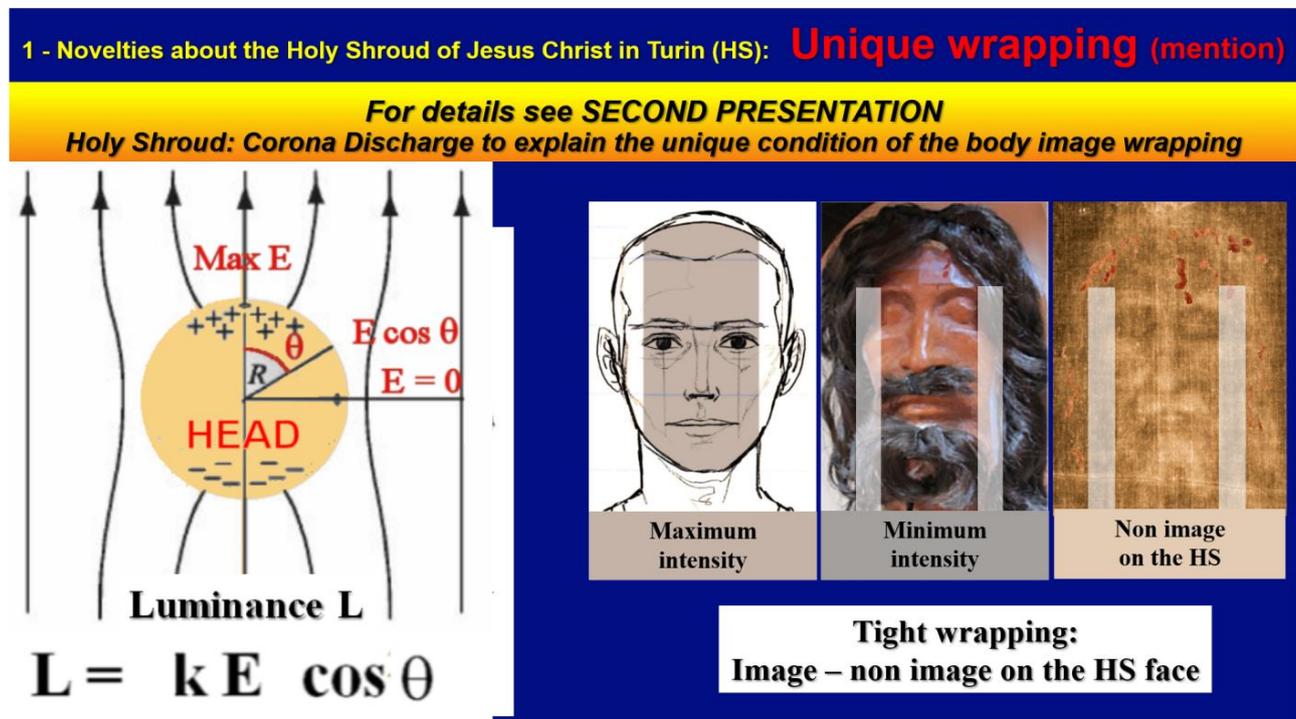


Fig. 15

The body image is superficial at different levels. At the thread level, only the two or three most superficial fibers are of image, the others are not. The image is superficial at the fiber level because only the outermost layer, about 200 nm thick (supposed to be the Primary Cell Wall of the linen fibers consisting of polysaccharides), is colored, while the innermost cellulose is not.

The image in some areas such as the face is even doubly superficial in the sense that when you take a section of the fabric, only the top and bottom are colored; there is no image in the middle. It's like thinking of a book with all the pages blank and only the top and bottom covers printed.

A new development has recently been added to these particular image characteristics; **Fig. 16** highlights a publication demonstrating that image depth at the thread level is proportional to image intensity.

1 - Novelties about the Holy Shroud of Jesus Christ in Turin (HS): **Image superficiality**
 The body image is doubly superficial and the color has a variable thickness

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New Insights on the Turin Shroud's Body Image: Face Image at Different Wavelengths and its Double Superficiality

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From UV to NIR, anatomical details of the face become less definite. The more the radiation penetrates into the fabric the fewer anatomical details are visible. The superficiality of the image is therefore confirmed.

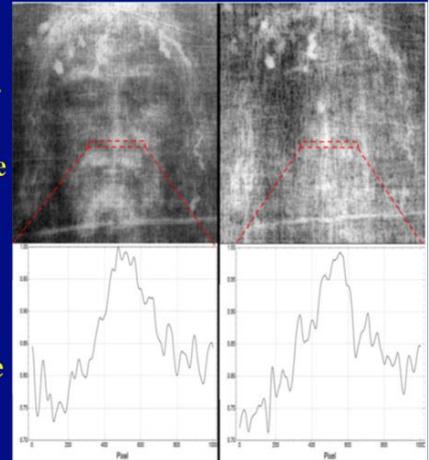


Figure 9. Integrated scans in the red rectangle in correspondence of the tip of the nose for the TS front side image (left) and backside (right)

The HS image depth is locally variable, consequently, the intensity of the image could depend not only on the areal density of yellowed linen fibers, but also on their volumetric density, up to a depth of about 70 μm. On the backside of the HS another body image is visible, even if more evanescent.

Fig. 16

-3. BLOOD

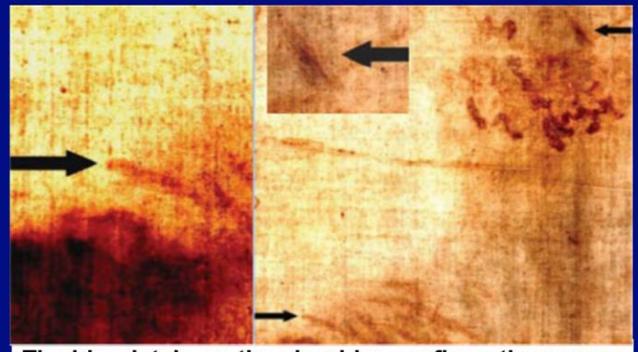
A recent paper reports some interesting developments regarding the HS blood. Among these, **Fig. 17** shows evidence of some bloodstains outside the body image at the shoulders.

1 - Novelties about the Holy Shroud of Jesus Christ in Turin (HS): **BLOOD: macroscopic level**

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New Insights on Blood Evidence from the Turin Shroud Consistent with Jesus Christ's Tortures
 Giulio Fanti*

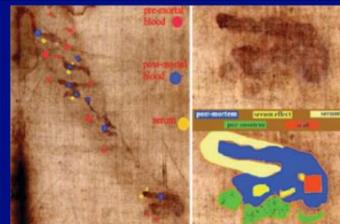
Abstract: ... this paper presents various news on blood. ... At a macroscopic level, news regarding the directions and position of blood are discussed. Also, the bloodstains on the left arm, right shoulder and head are examined.



The bloodstain on the shoulder confirms the corona discharge effect just seen and that on the head a scourge mark.



Different directions of bloodstains in the chest wound.



Different blood traces on the left arm.

Fig. 17

Since the bloodstains are presumed to have formed in areas of body-sheet contact, the fact that there is no body image where a wound is present makes this phenomenon difficult to explain at first glance. This, however, can be easily explained by considering the cosine law shown in **Fig. 15**, which shows that for particular radiation directions, the imaging effect is zero.

The same figure also reports on the bottom left the fact that the chest wound is characterized by at least two different directions of blood dripping thus leading to suppose different positions of Jesus' body.

The fact that Jesus was scourged also at the head level is shown on the top right. This slide finally proposes a new interpretation of the origin of the hand-arm wounds too.

Based upon their morphology, the author detected three types of blood: A, B and C, as have been evidenced in **Fig. 18**. Type A blood are rounded particles recognized as very reduced erythrocytes (microcytes). (Please note that these "types" are not to be confused with, for example, "Type A" blood within the typing parameters of the ABO blood group.)

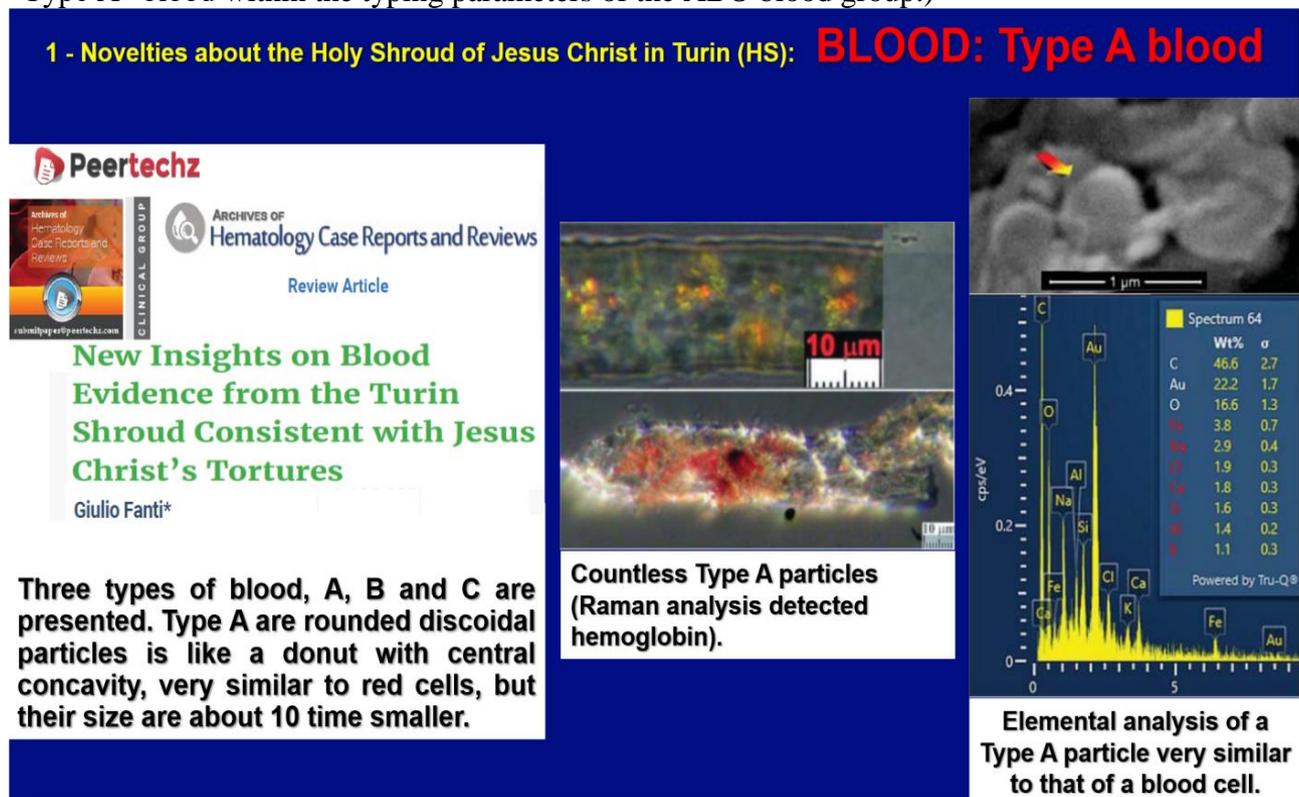


Fig. 18

Fig. 19 shows the discovery of various blood components typical of the HS. Traces of fibrin of clotted blood is reported in the upper right.

In the lower left, a red blood cell (RBC) is clearly visible, sectioned from a natural fracture of the linen fiber; note the small size of the red blood cell, almost 10 times smaller than a common human RBC.

In the lower right, confirming a previous discovery, a significant amount of creatinine is observed, typical of a severely tortured person.

1 - Novelties about the Holy Shroud of Jesus Christ in Turin (HS): **BLOOD: Type A blood**

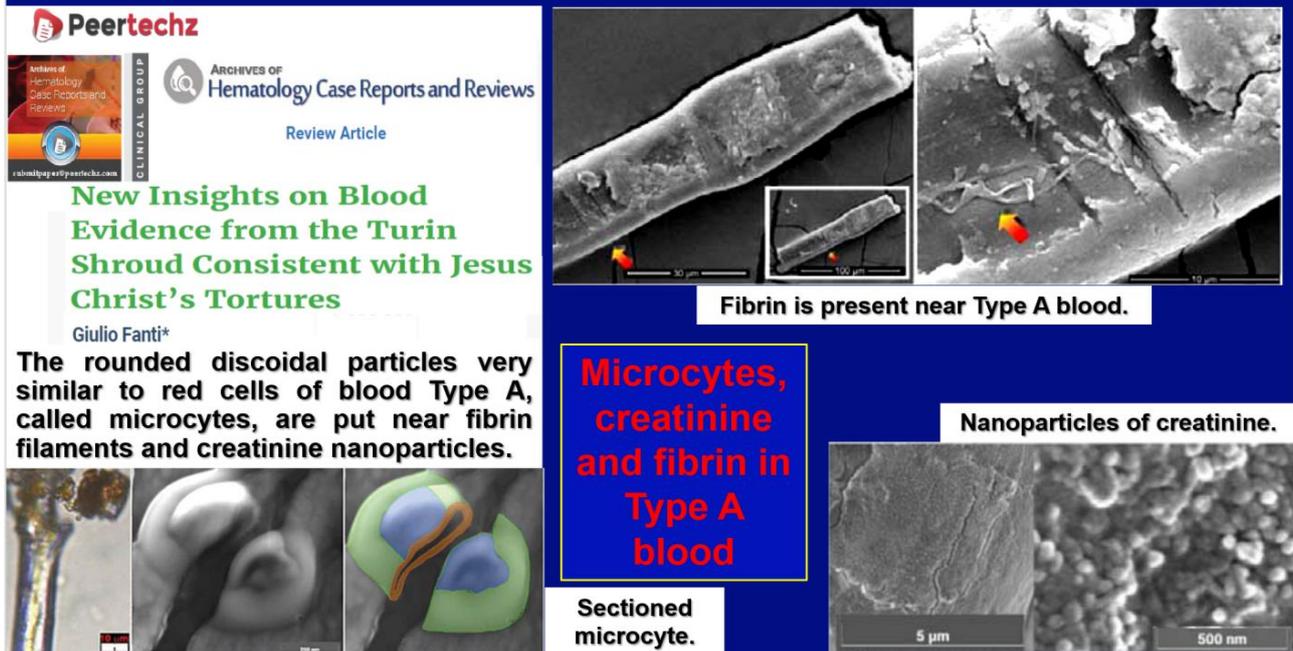


Fig. 19

While Type B blood consists of sherds of blood crusts probably formed before death and coagulated on the skin, Type C blood, rarer in the analyzed samples, consists of erythrocytes with dimensions varying between 2 and 5 micrometers, **Fig. 20**.

1 - Novelties about the Holy Shroud of Jesus Christ in Turin (HS): **BLOOD: Types B, C blood**

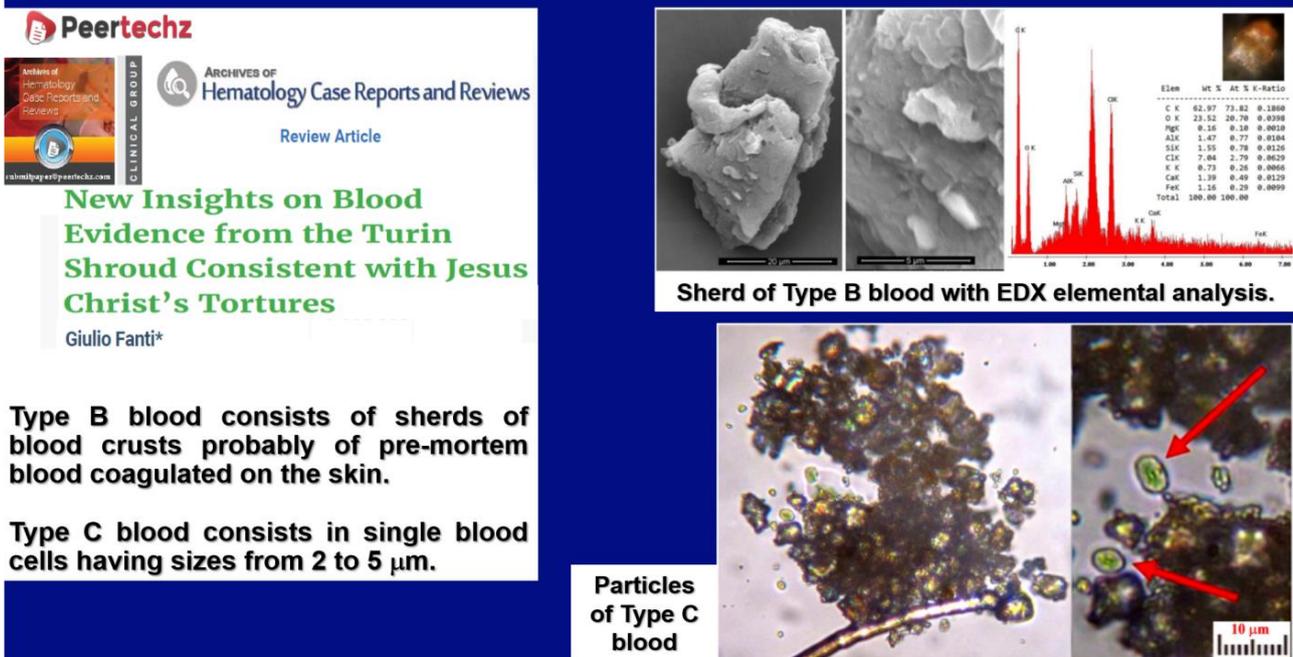


Fig. 20

Type C blood (**Fig. 21**) consists of erythrocytes with a diameter of approximately 5 micrometers and is very distinctive because it was found primarily on the face. This, combined with its larger size compared to Type A blood, suggests that it has not undergone alterations due to the urea present in

4. MEDICAL CONDITIONS

A new study in publication, **Fig. 23**, has added details to the scourge marks of the HS, by comparing the photos made in visible light with those of Miller in UV. A higher number than the 372 scourge wounds previously counted is evident, as the UV photographs revealed other, less visible ones. This resulted in nearly 500 wounds caused by six different instruments.

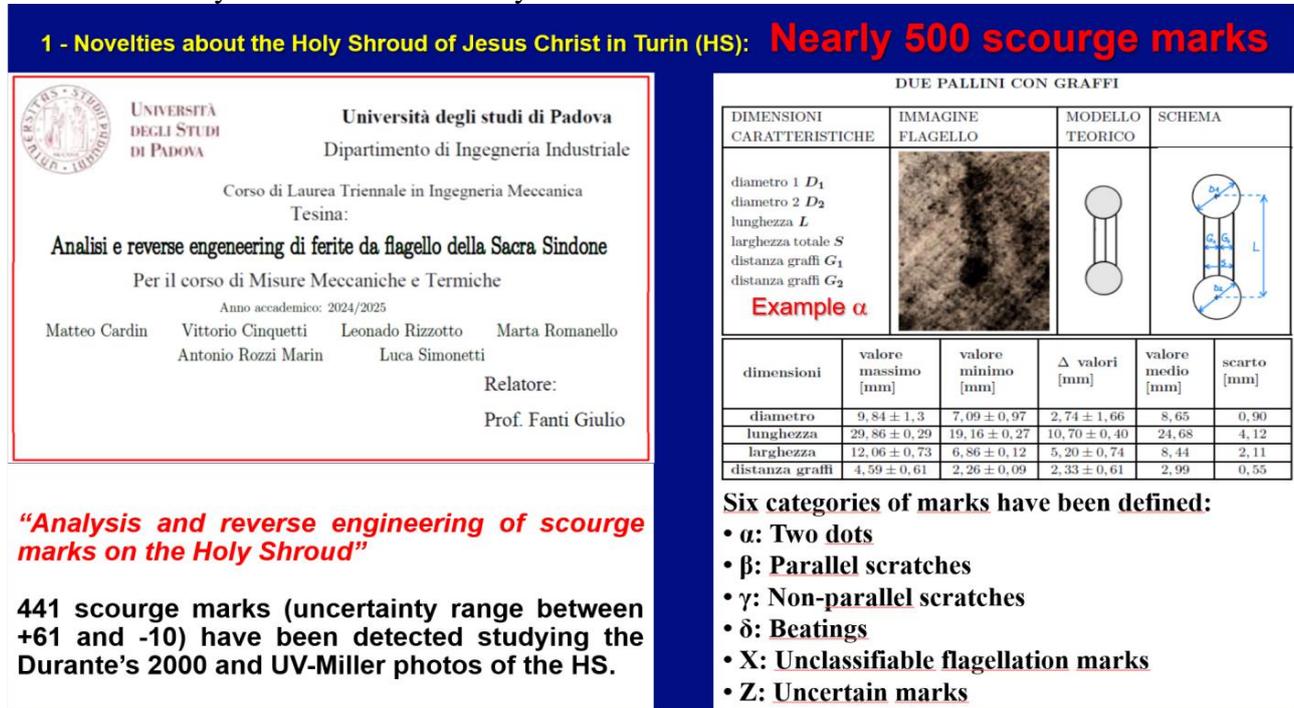


Fig. 23

Fig. 24 shows in different colors how the six types of nearly 500 scourge marks are distributed along the human body. This supports the hypothesis that the various executors acted in different times with different instruments in limited areas of the human body.

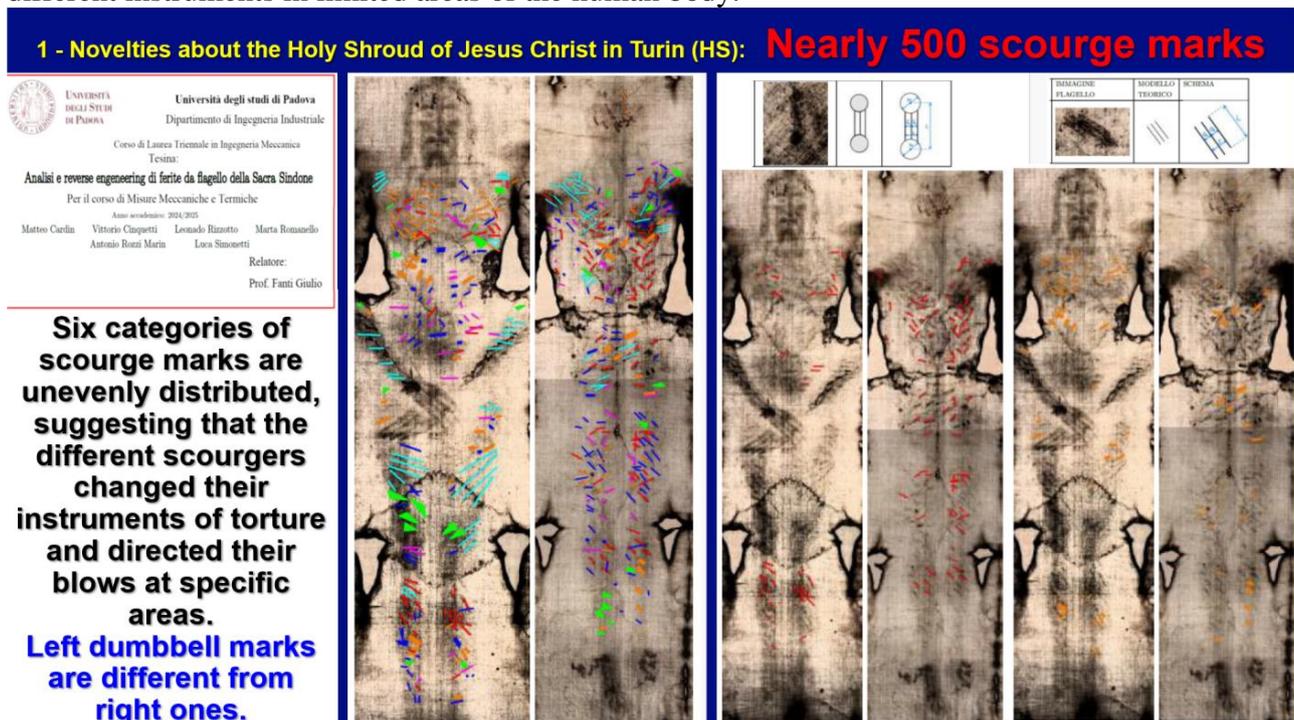


Fig. 24

The savage scourging suffered by Jesus also affected the kidney region, which most likely blocked their filtering function, **Fig. 25**. Consequently, the concentration of urea in the blood increased significantly, causing the red blood cells to shrink.

1 - Novelties about the Holy Shroud of Jesus Christ in Turin (HS): Flagellation of the kidneys

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Vol: 2 & Iss: 3 Review

The Last Hour of Jesus Christ: A Case Study from Recent New Insights on the Turin Shroud

Giulio Fanti

The atrocious flagellation, visible on the Relic and mentioned in the Bible, indicates that Jesus suffered from kidney failure which produced urea in the blood.

It results that the kidneys were beaten with 4 shots of rod, 4 shots of "dumbbell" and 3 not easy to classify.

Fig. 25

The ferocious flagellation also affected the cardiac area, **Fig. 26**. The blows did not tear the heart muscle, but at least 4 of them caused trauma responsible for the future heart attack.

1 - Novelties about the Holy Shroud of Jesus Christ in Turin (HS): Heart attack due to scourges

International Clinical and Medical Case Reports Journal
 Opinion Article (ISSN: 2832-5788)

Salent Visionsary Publications

Turin Shroud: Etiology of Jesus Christ's Death for Infarction Followed by Hemopericardium

Giulio Fanti¹, Mario Ascolese²

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²Prof. MD, Ph.D. in Surgical Sciences of the Developmental Age, President AMCI Campania Region (Italian Catholic Doctors Association), Italy

During the heavy flagellation, of the almost 500 blows visible on the HS, 4 were directed to the heart.

The blows of flagrum did not tear the heart but caused a trauma, the beginning of the heart attack.

Fig. 26

The innumerable tortures suffered by Jesus, **Fig. 27**, caused immense suffering when He was crucified, hastening His death from a heart attack caused by hemopericardial tamponade. Of particular note is the lack of oxygen caused by the microcytes, which produced labored breathing, further accentuated by the strong tremors caused by the muscle contractions of the limbs immobilized by the nails.

1 - Novelties about the Holy Shroud of Jesus Christ in Turin (HS): Respiratory problems

International Clinical and Medical Case Reports Journal
Opinion Article (ISSN: 2832-5788)

Salient Visionary Publications

Turin Shroud: Etiology of Jesus Christ's Death for Infarction Followed by Hemopericardium

Giulio Fanti^{1*}, Mario Ascolese²

The very high acute renal failure due to flagellation, caused microcytic anemia, that implies the extreme difficulties Jesus had in oxygen exchange, producing extremely labored breathing.

Jesus on the cross manifested:

- Tremors on the cross (so causalgia due to nails),
- Tachycardia
- Heart attack followed by tamponade for hemopericardium "Jesus, with a loud cry, breathed his last." (Mark 15:37)



Fig. 27

1 - Novelties about the Holy Shroud of Jesus Christ in Turin (HS): Causes of hemopericardium

International Clinical and Medical Case Reports Journal
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Turin Shroud: Etiology of Jesus Christ's Death for Infarction Followed by Hemopericardium

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²Prof. MD, Ph.D. in Surgical Sciences of the Developmental Age, President AMCI Campania Region (Italian)

Precursor effects of the cardiac attack

CARRYING THE CROSS, the immense effort with weakening and breathing difficulties accentuated the cardiovascular dysfunction.

EFFECT OF TORTURES, including crowning with thorns produced hypovolemia (reduction of blood volume), increasing of respiration frequency, production of lactic acid that caused intense tremors. All these contributed to a pericardial effusion.

The blood leakage from the heart muscle filled the hemopericardial layer and produced tamponade (with loud cry).

DEATH BY HEART ATTACK, HEMOPERICARDIUM AND CARDIAC TAMPONADE.

Jesus carried the whole cross.

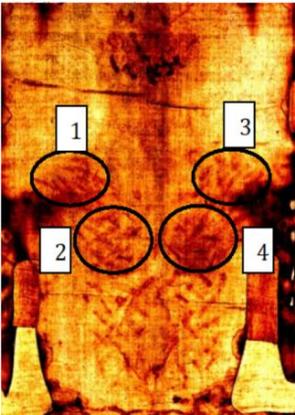


Fig. 28

The fact that Jesus carried the entire cross on His shoulders should not be underestimated in the etiology of hemopericardial infarction. In **Fig. 28** on the left, the four darker areas of the shoulder

region indicated by circles on the dorsal image show signs of abrasions, confirming that Jesus carried the entire cross on both His right and left shoulders. The heart muscle, so strained, was lacerated thus pouring blood into the hemopericardial sac, which, swelling, stopped the heartbeat, causing immediate death accompanied by a loud cry (Mark 15:37).

-5. DEPOSITION IN THE SEPULCHER

Three particular characteristics of Jesus' body wrapped in the HS in the sepulcher are now highlighted. When considered together, they result in a condition that current science is unable to explain. The first is the evident cadaveric rigidity shown by the two frontal and dorsal body images of the HS. The image at the bottom right of **Fig. 29** shows the result of a numerical finite element simulation based on the imposition of congruence between a digital manikin and the two body images of the HS, which shows a statuesque position assumed on the cross. Doctors confirm that the cadaveric rigidity, in the environmental conditions of Jerusalem, could have lasted for less than fifty hours, just the time between the evening of Good Friday and Easter Sunday.

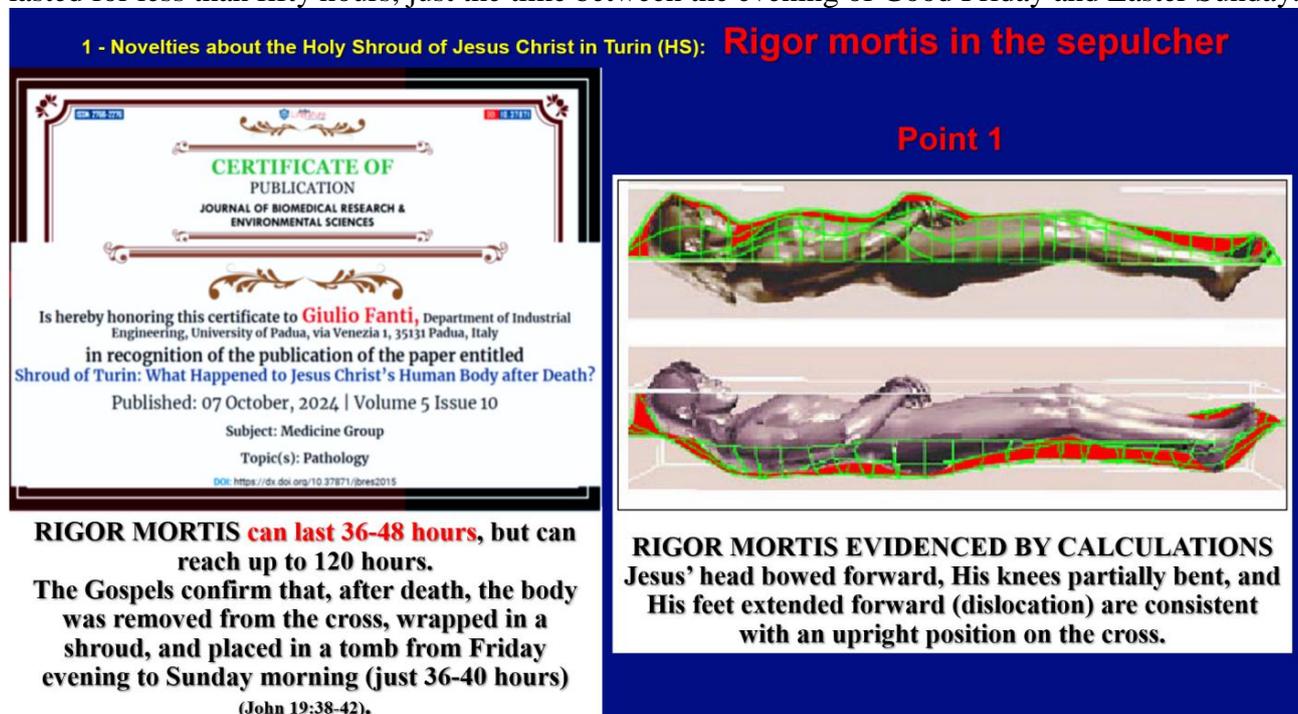


Fig. 29

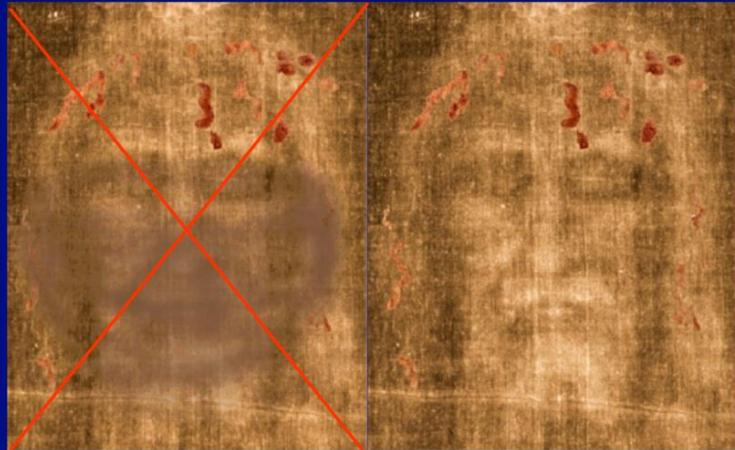
The second point (**Fig. 30**) concerns the fact that, as confirmed by Psalm 16:10, Jesus' body did not undergo the putrefaction that can occur in the environmental conditions of a Jerusalem tomb within 48 to 72 hours from death.

The highly reactive putrefaction gases, which first exhale from orifices such as the nose and mouth, would have stained the image of the face, which otherwise presents the highest resolution.

1 - Novelties about the Holy Shroud of Jesus Christ in Turin (HS): **No putrefaction**
Point 2



There are no putrefaction signs, so Jesus' body remained wrapped in the HS for a **time shorter than 48-72 hours** of gas release.



Reactive putrefactive gases would have stained the face

“You will not abandon my soul to Sheol, nor will you allow your Holy One to see corruption” (Ps 16:10).

Fig. 30

The third point concerns the fact that, observing in detail any bloodstain from the HS, not even the slightest smearing is found, **Fig. 31**. This means that, unless the blood was already solidified in crusts, there could not have been the slightest relative movement between the HS and the body wrapped in it.

It should also be noted that, if the body had been removed in some way from the sepulcher, some skin-sheet contact would certainly have occurred, especially in the back and gluteal area.

1 - Novelties about the Holy Shroud of Jesus Christ in Turin (HS): **In the sepulcher, no movements**



Once positioned on the preparation stone, **the body was no longer removed**, waiting to complete burial operations on Easter Sunday.

Point 3



No bloodstain on the HS has smearing but all the bloodstains are perfectly transferred. Therefore there was **no relative movement** between the body and the HS.

Fig. 31

In addition to the third point, it should be noted that the blood in the sepulcher was in a liquid or at least fluid form, not in crusts. In fact, the photo on the right of **Fig. 32** shows a drop of blood blocked while flowing down a fiber of linen cloth of the HS.

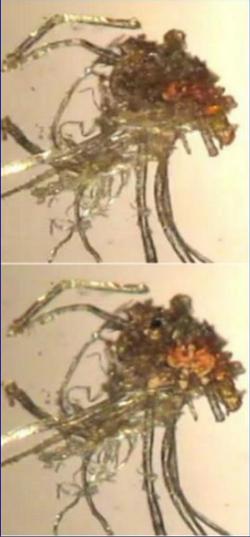
The two figures in the center show a cluster of fibers trapped in a blood crust that, after 2,000 years, still has a plastic state. Indeed, applying pressure to the cover glass of the microscope slide reveals a change in the shape of the blood crust without the slightest cracking.

1 - Novelties about the Holy Shroud of Jesus Christ in Turin (HS): In the sepulcher, fluid blood

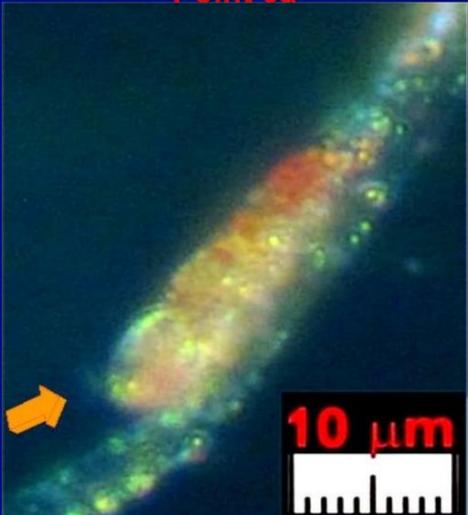


The post-mortem blood penetrated the HS, at least partly in a liquid state and this blood is still found today in crusts in a plastic state.

The body was not tampered with or moved due to the lack of smudges in the still liquid bloodstains.



Point 3a



Blood transferred in fluid form on the HS.

Fig. 32

And so, the important scientifically unsolved problem is highlighted in **Fig. 33**.

1 - Novelties about the Holy Shroud of Jesus Christ in Turin (HS): Resurrection?



A scientific problem is unsolved: a body wrapped up in the HS, waiting for Sunday to be placed in the funerary niche of the tomb, remained there less than about 40 hours (1-rigor mortis, 2-no putrefaction, 3-no smearing with fluid blood) was not moved, but disappeared.

Scientific problem in summary:

- 1. Cadaveric rigidity <48 hours;
- 2. No putrefaction <72 hours;
- 3. No movement, no bloodstains

How did the disappearance occur?

How then did Jesus come out of the HS? RESURRECTION?

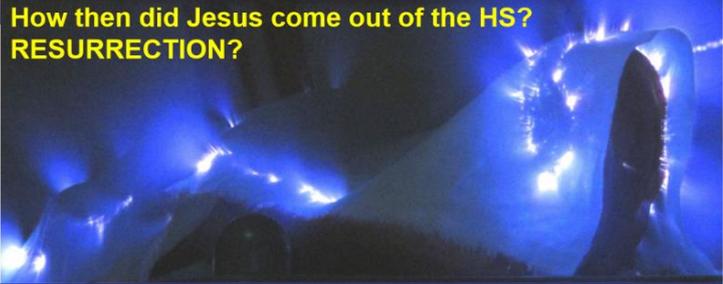


Fig. 33

The rigidity of the corpse implies that (1) Jesus remained wrapped there for no more than fifty hours and therefore He left the HS after that period of time.

The absence of putrefaction of the corpse (2) confirms that Jesus left the HS not after about seventy hours.

The absence of smearing of the still fluid bloodstain (3) confirms the absence of movement between the body and the HS and therefore that the corpse was not tampered with.

Consequently, science does not seem to explain how did the disappearance occur. The following figures will try to provide an alternative explanation based on the so-called “transparency of matter” probably related to the Resurrection of Jesus from the dead.

The passage from the Gospel of John (20:8-9) shown in **Fig. 34** helps us interpret the problem just outlined and what likely happened in the tomb in Jerusalem that Easter Sunday.

The apostle John, as it is reported in his Gospel, was the first to believe in the Resurrection of Jesus from the dead when, after observing how the body was placed in the tomb on Good Friday, he saw the HS lying on the stone of the sepulcher but not tampered with.

It is significant that John, concise in his Gospel descriptions, focuses on the description of a secondary burial accessory: the sudarium.

The Greek translation of this passage (John 20:7), which precedes the "saw and believe," states that "the sudarium that was on his head was not lying with the cloths but was wrapped differently (from the cloths) in the same place." This suggests that the sudarium still wrapping the disappeared head of Jesus led him to believe in His Resurrection from the dead.

1 - Novelties about the Holy Shroud of Jesus Christ in Turin (HS): Transparency of matter?

*“Then the other disciple also entered (into the tomb)... and he **saw and believed**. They did not yet understand the Scripture, that he must **rise from the dead**.” (John 20:8-9). Jesus became materially transparent with respect to the HS and emanated an **energy-light** (corona discharge), the cause of the body image.*

The particular, flaccid shape of the HS with the sudarium still “wrapped**” induced John to believe in the Resurrection of Christ**

*[From the Greek: “And the sudarium that was on his head was not lying with the cloths but was wrapped differently (from the cloths) **in the same place**” John 20:7].*

This can be explained by thinking that the light-energy of the Resurrection made the body of Jesus materially transparent.



Fig. 34

Fig. 35 then attempts to explain what happened in the tomb of Jerusalem based on the reversible hypothesis of the so-called “transparency of matter” that, for the moment is out of science (but accepted by the referees of a scientific journal as such).

1 - Novelties about the Holy Shroud of Jesus Christ in Turin (HS): **Transparency of matter?**

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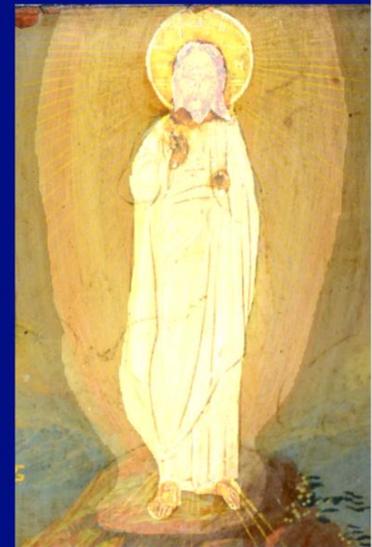
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Vol: 2 & Iss: 4 Review

Turin Shroud: Insights' Review Confirming Biblical Reports About Etiology of Jesus Christ's Death and Resurrection

Giulio Fanti*

Hypothesis out of science: transparency of the matter.
The material Body of Christ passed through the HS in a "transparent" way and, according to the Bible, subsequently passed 2 times through the walls of the Cenacle.
In extremely high light-energy conditions, the interpenetration of matter would not be impossible. Therefore a physical body would not be deprived of its material reality even when it reaches this particularly energetic state, but rather this body becomes transparent with respect to the matter and it can penetrate it as long as it is rich in energy.



Transfiguration of M. Tabor: prelude of the Resurrection

Fig. 35

1 - Novelties about the Holy Shroud of Jesus Christ in Turin (HS): **Transparency of matter?**

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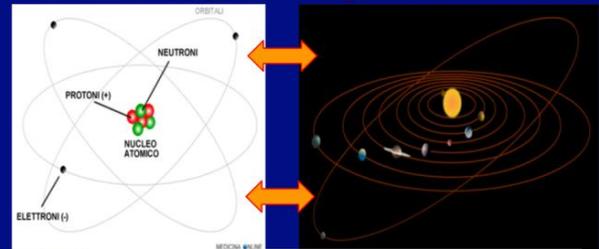
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Giulio Fanti*

Possible explanation: atom-solar system analogy.
The penetration of matter would be possible if the material body were supplied with an intense light-energy. The physical Body of Jesus, supplied with an extremely intense light-energy would not be deprived of material reality even Glorious, but would become transparent to matter (like Baby Jesus during the passage through the Maternal Womb).

By supplying the atoms with very intense light energy, which causes the atoms to rotate at very high speeds, their kinetic forces exceed the interatomic forces: the atoms could then pass through other atoms. The probability of impact during the crossing would be very small given their volumes.



Like the solar system, the atom is practically empty, its core is 10,000 times smaller.

Blue Cross at Medjugorje.

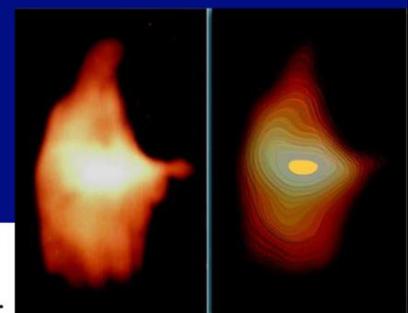


Fig. 36

Fig. 36 formulates the hypothesis of the transparency of matter by referring to bodies that are momentarily supplied with an intense light energy capable of overcoming interatomic forces. However, if we can demonstrate through scientific observations that the phenomenon of the transparency of matter has manifested itself, we can then also give a hint of confirmation to the Dogma of Catholic Christian Faith of the virginity of Mary by considering that the Divine Infant was born by passing in a materially transparent way through the womb of the Mother. Perhaps the photo, also scientifically inexplicable, obtained by a pilgrim who photographed the statue of the Mother of God in Medjugorje at night indicates that Jesus passed in a materially transparent

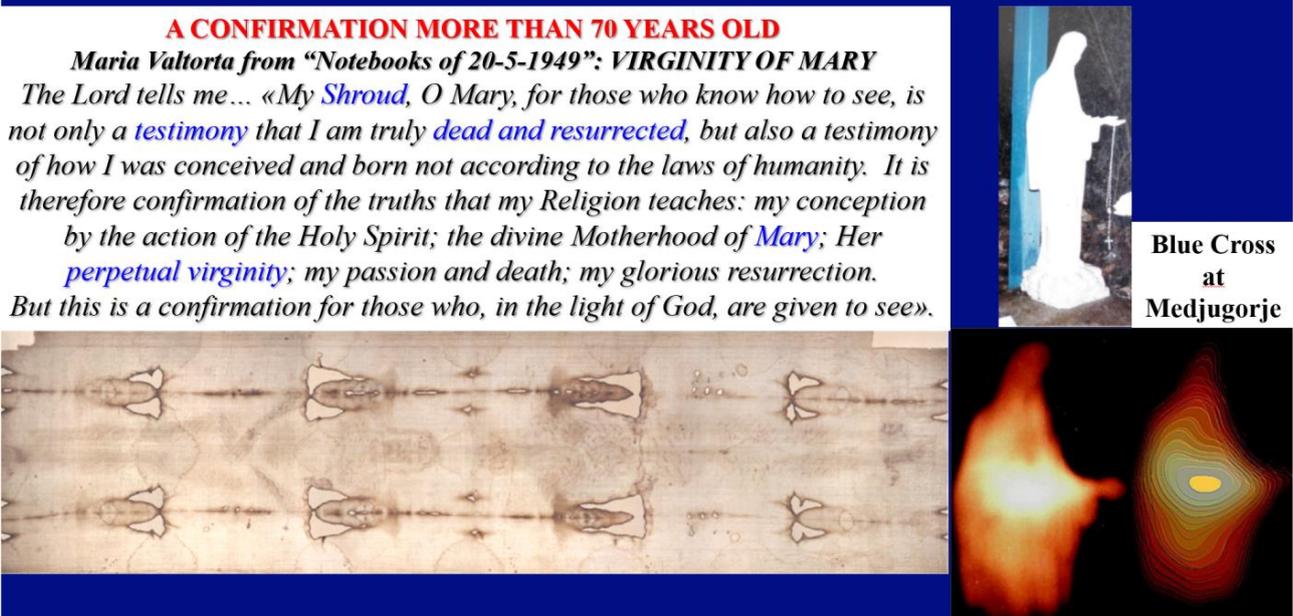
way through the womb of the Mother after receiving an intense energy-light that we see highlighted in the image processing on the right of the photo in question.

It is very significant that the seer Maria Valtorta predicted this phenomenon of the transparency of matter shown in **Fig. 37** more than thirty years ago.

1 - Novelties about the Holy Shroud of Jesus Christ in Turin (HS): Transparency of matter?

A CONFIRMATION MORE THAN 70 YEARS OLD

Maria Valtorta from "Notebooks of 20-5-1949": VIRGINITY OF MARY
The Lord tells me... «My Shroud, O Mary, for those who know how to see, is not only a testimony that I am truly dead and resurrected, but also a testimony of how I was conceived and born not according to the laws of humanity. It is therefore confirmation of the truths that my Religion teaches: my conception by the action of the Holy Spirit; the divine Motherhood of Mary; Her perpetual virginity; my passion and death; my glorious resurrection. But this is a confirmation for those who, in the light of God, are given to see».



Blue Cross at Medjugorje

Fig. 37

The study of the particular conditions of Jesus wrapped in the HS not only allows us to understand how much He voluntarily suffered for us men and for our salvation, but also leads us to a first confirmation of a dogma of the Catholic Christian aith: that Mary, the Mother of Jesus Christ, was Virgin before, during and after giving birth to Jesus as proclaimed by Pope Pius XII in 1950, **Fig. 38**.

1 - Novelties about the Holy Shroud of Jesus Christ in Turin (HS): Dogma of the Virginity

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On 1-11-1950 Pius XII proclaims the Dogma of the Virgin Mary before, during and after the birth of Jesus Christ (CCC n.510).

“A Dogma is a Truth of Faith that demands full assent and complete obedience.”

The light-energy of the HS with the transparency of the matter seems to scientifically confirm the Dogma.

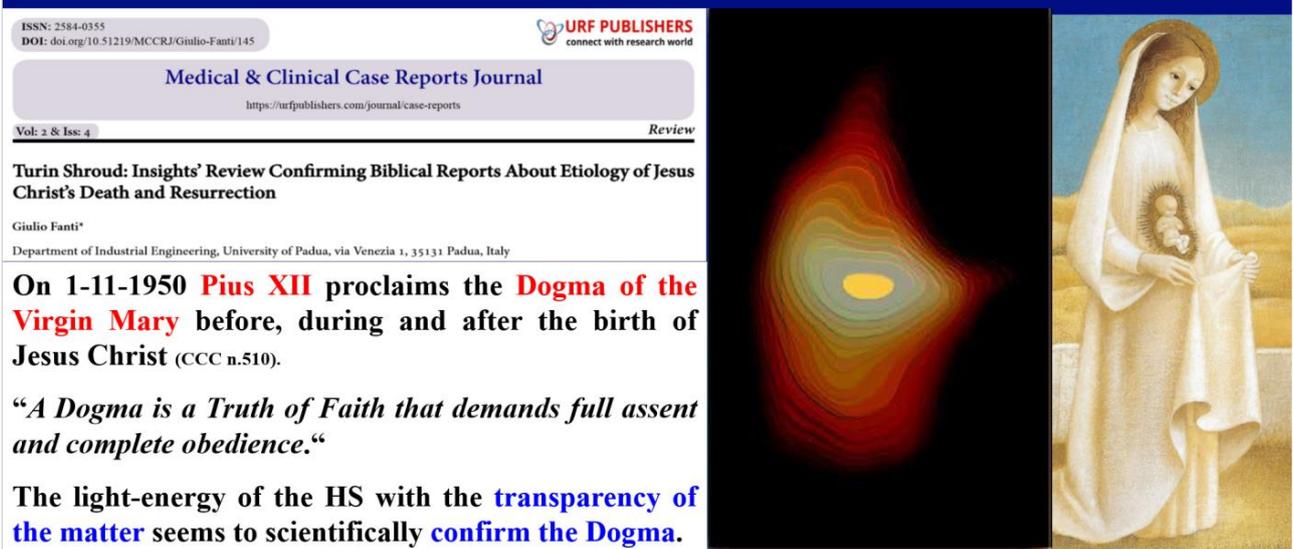


Fig. 38

-6. CONCLUSION

This presentation reported and discussed many new developments recently published in the various journals listed alongside the slides. These new developments, which need to be discussed by the scientific community, if confirmed, will not only reveal new characteristics of the HS, such as its selective radioactivity, but they will also highlight the immense suffering that Jesus voluntarily endured for us humans and for our salvation—sufferings that have not yet been highlighted by other studies or by the Gospels.

The so-called transparency of matter, necessary to explain the evidences of the HS, is a first scientific confirmation of a Dogma of Catholic Christian Faith: That Mary, the Mother of Jesus of Nazareth, was Virgin before, during and after giving birth to Jesus.

Finally, it is interesting to note that the possible explanation of the HS radioactivity through neutron radiation could overturn the meaning of the 1988 carbon-14 dating result, making it the first scientific evidence of the Resurrection of Jesus Christ.

ACKNOWLEDGEMENTS

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REFERENCES

The main references are reported in the corresponding slides.