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**Additional brief notes for the defense of Raffaele Sollecito**  
**results of operations of Hematology forensics**  
**P.P. n. 9066/07 mod 21 Prosecutor of the Republic of Perugia**

Subsequent to the preliminary notes already written on 28.11.2007 as a technical consultant for the defense of Raffaele Sollecito, I was asked by the lawyer Maori to compile further brief notes on other results in the continuation of operations consulting technique in hematologic forensics carried out to date in the laboratories of the Scientific Police in Rome by Dr. Patrizia Stefanoni and still ongoing.

In particular, emphasize that in the previous preliminary note I pointed out that the results, although incomplete, the analyzes carried out on items listed therein and which I have read, for the most part related to Raffaele Sollecito, support the conclusion that on any finding, and especially not on the clothes or the shoes nor on any item seized from Raffaele Sollecito, there was the deferral of human blood that could be scientifically attributed to the victim, as well as on all the finds from the victim examined and those found in his apartment has not been shown no evidence of biological material attributable to the suspect Raffaele Sollecito.

With regard to the further investigations carried out in the field of hematologic forensics I feel I must point out, in particular, the results obtained from the findings referred to in the minutes of the 10, 14 and 27 December 2007, identified progressively from number 114 to number 164 and relating to inspections carried out both in house of the victim Meredith Kercher Susan Cara , days 02-03-04 and 05 in November, and the apartment is in use at Rudy Herman Guede November 20, as well as some samples again performed on the Nike brand shoes (Rep.32) and on the kitchen knife (Rep.36) owned by Sollecito.

**Findings related to the victim's home**

114) a pair of panties for women: DNA analysis have provided a profile attributable to the victim, not yet run them on ipsilon study of polymorphisms specific to the only male DNA whose investigation is still ongoing.

115) a pair of jeans trousers: all samples taken (A, B, C, D, E, F, G, H, I, L) were constitute from blood attributable to the victim investigations still ongoing.

116) a scroll of toilet paper: the analysis for the generic nature of the track blood with TMB has provided positive results, but the DNA analysis did not provide any amplification product.

117, 118 A, 118 B) traces of blood on the floor in the room of the victim (round shape): 5A, 5B, 5C DNA analysis have provided an incomplete profile apparently attributable to the victim, the investigation is still in progress.

119) traces of presumed blood substance on the floor in the hallway: DNA analysis have provided a profile attributable to the victim, the investigation is ongoing.

120) traces of presumed blood substance on the floor: DNA analysis have provided a profile attributable to the victim.

121) hairy formations found under the clotheshorse in the hall outside the door of the victim's room, only 4 have all macroscopic characteristics useful for the analysis of DNA, however, are still in progress.

122) traces of presumed blood substance on the floor of the living room - kitchen: DNA analysis have provided a profile attributable to the victim.

123 – 124) n. 2 samples of traces of blood on the mattress of the bed of the victim: DNA analysis have provided a profile attributable to the victim.

125) soiling of presumed blood substance on the left wall of the victim's room, above the bed: DNA analysis have provided a profile attributable to the victim.

126) traces of presumed blood substance on the inside handle of the bedroom door of the victim: DNA analysis have provided a profile attributable to the victim.

127) traces of presumed blood substance on the outside door handle of the victim's room: DNA analysis have provided a profile attributable to the victim.

128) traces of presumed blood substance on the leaf of the bedroom door of the victim: DNA analysis have provided a profile attributable to the victim.

129) sampling blood from soiling (fingers) in correspondence of the inner part of the door of the cabinet room victim: DNA analysis have provided a profile attributable to the victim.

130) sampling from blood soiling in the radiator of the victim's room (right wall): DNA analysis have provided a profile attributable to the victim.

131) errata (does not exist) "chewing gum" already considered (in fact rubbery adhesive).

132) 2 substance dripping blood at the base of the desk in the inner room of the victim: DNA analysis have provided a profile attributable to the victim.

133) sampling of blood substance on the floor between table and bed: DNA analysis have provided a profile attributable to the victim.

134) sampling carried out on the millpond of blood on the floor under the head of the corpse: the DNA analysis have provided a profile attributable to the victim.

135) large blood soiling in front of the base cabinet: DNA analysis have provided a profile attributable to the victim.

136) sample of blood taken from the track on the box of cotton fioc found on the sink [of the] small bathroom DNA analysis have provided a mixed profile equivalent signal intensity, which can be identified two profiles respectively related to Amanda Knox and the victim

137) sampling trace blood taken inside the sink [of the] small bathroom: the DNA analysis have provided a mixed profile for equivalent signal intensity, which are identifiable in the two profiles attributable respectively to Amanda Knox and the victim.

138) hairy formation levied on the bathroom sink small: the analyzes are in progress.

139) sample of blood taken from the track in the small bathroom toilet seat: DNA analysis have provided a profile attributable to the victim.

140) sample of a substance dripping of blood taken at the door of the victim's room, the hinge side: DNA analysis have provided a profile attributable to the victim.

141) sampling trace blood taken from the margin of the discharge of the water of the bath small: the analysis with TMB to the nature of the blood track has provided a negative result, as also those of DNA amplification have provided negative results.

142,143 e 144) 3 Marlboro cigarette butts in the ashtray on the kitchen table: DNA analysis have provided for all three exhibits a genotypic profile of a male individual can not be traced to any of the suspects.

145) cigarette butt in the ashtray packaged by hand on the kitchen table: DNA analysis have provided a mixed genotypic profile in which two profiles are identifiable due respectively to Amanda Knox and Raffaele Sollecito.

146 e 147) 2 cigarette butts in the ashtray on the kitchen table: DNA analysis provided by both the genotypic findings a profile of an individual female can not be traced to Amanda or the victim.

Moreover, on 14.12.2007 I have read also the results of further DNA analysis performed on the specimen 59) white bra belonged to the victim (tracks A, B, C, D) whose DNA analysis, had already previously provided genetic profile attributable to the victim, as already reported in the notes

earlier. Said further analysis, carried out for the study of polymorphisms on epsilon specific for only the male DNA, have produced evidence for Tracks A and B an amplification product that identifies a male profile compatible with Rudy Herman Guede.

**Findings related to the home of Rudy Herman Guede:**

148) 3 samples of presumed blood substance carried out on a towel found in the bathroom: DNA analysis have provided a profile attributed to Rudy Guede.

149) sampling performed on the plastic filter sink drain: analysis with TMB to the nature of the track blood gave a positive result, the DNA analysis have provided a profile attributable to Rudy Guede.

150) n.3 campionature eseguite su un pantalone jeans: le analisi del DNA hanno fornito profili incompleti anche misti, tuttavia apparentemente riconducibili a Rudy Guede; le analisi sono ancora in corso.

151) sampling of a ticket to an exhibition "Chagall Wonderland" to a Roman museum in May 2007: an analysis with TMB to the nature of the track blood gave a positive result, the DNA analysis have provided a profile attributable to Rudy Guede.

152 – 153) shoe print on the floor apparently consists of soil: was not carried out any sampling for DNA analysis.

154 – 155) 2 formations hairy on the bathroom floor: the macroscopic analysis excludes a utility for investigations of haematological forensics.

156) other formation hairy in the glass holder: being analyzed.

157) presumed trace blood drawn on the mixer of the bathroom sink: the analysis with TMB to the nature of the blood track has provided a negative result, as also those of DNA amplification have provided negative results.

158) presumed blood trace taken inside the metal fitting of the sink siphon entrance in the wall: analysis with TMB for nature

blood of the track has provided a positive result, those of DNA amplification have provided negative results; analysis to be repeated.

159) # 5 samples run on a brown leather jacket and on the bed: the analysis of DNA amplification provided for all fail.

160) sampling of presumed blood substance occurs between the joints of the kitchen floor: DNA analysis has provided a partial profile attributable to Rudy Guede, analysis still in progress.

161) sampling of suspected micro trace blood drawn on the door phone of the apartment: the analysis of DNA amplification gave negative results.

162) presumed blood substance taken near the doorbell of the apartment: the analysis of DNA amplification gave negative results.

163) sampling performed by highlighting with Luminol of presumed blood substance on the floor packed in the sink in the bathroom: DNA analysis have provided a profile attributable to Rudy Guede.

#### **Further sampling surveys carried out on the findings related to Raffaele Sollecito**

32) a pair of Nike shoes size n. 42

On shoes Nike brand size 42, whose macroscopic study had previously allowed to highlight the presence of heterogeneous material of poor consistency and varied color adherent between the gaps of the sole, had been known as performed for each sole n. 4 samples (right shoe: A, B, C, D and left shoe: E, F, G, H).

It was already pointed out that the preliminary analysis for the detection of human blood based on reaction immuno-chromatographic (Hexagon OBTI) had provided for a sample fails. Likewise, the successive analysis of DNA amplification nuclear repeatedly performed on these samples had also provided Regularly negative outcome.

Despite this, in charge of the investigation proceeded to carry out, in my presence, no. 3 new samples for each shoe sole, as the minutes of the day 14.12.07 and identified as follows:

- The left shoe samples - L - M;
- Right shoe samples N - O - P

The further analysis of these new samples are provided for all and are a failure to survey the generic nature of the blood trace through the use of TMB (Tetra Methyl Benzidine), thus confirming that the shoes of Sollecito there is no adherent blood .

The successive surveys of DNA by specific polymorphisms in the human genome performed on the same analytes gave no amplification product by sampling L and M on the sole of the left shoe and the sampling O on the sole of the right shoe.

In contrast, the other three samples (on the left sole, N and P on the right) is obtained an amplification product that identifies a genotypic profile relating to a single male individual can not be traced to any of the suspects.

In light of the above it can therefore be said that serenely on shoes seized to Raffaele Sollecito were made and also repeated numerous investigations accurate for both the identification of the nature of the blood and trace both for the DNA amplification.

The search for possible blood-borne nature of the track has been, as mentioned, carried out with two distinct metodice, the more stringent by commercial kit (Hexagon OBTI) based on a reaction immuno-chromatographic that identifies both the generic nature (ie if question of blood) and the specific one (in the case of human blood) of the track but with a relatively high cut-off so that imposes a quantity of blood in the track relatively discreet; the other much more sensitive but less conclusive for the possibility of providing times thicker false negatives and false positives.

In our case, however, the constant negativity of both methods performed for the search of possible blood-borne nature of the track allows to exclude definitively and with the scientific certainty of such methods, which on the shoes of Raffaele Sollecito is present an any Blood material.

In addition, the investigation for the amplification of genomic DNA may be present on all samples - before and after - made from the soles of the shoes in question, provided for three examination a clear amplification product that identifies the same genetic profile belonged to a single male subject different from Sollecito but also different from other individuals investigated (Diya Lumumba and Rudy Herman Guede), while for all the other the result was negative Regularly.

Therefore, and in conclusion, all the results of forensics haematological performed on the shoes of Sollecito dimonstrano that on them is the biological material non-blood belonged to a male subject is different from all the defendants but also, and more importantly, show that on of them there is no biological material of any kind due to poor Meredith Kercher Susan Cara.

These results, demonstration of the presence of biological material on the soles of the shoes of Sollecito, also allow you to exclude the possibility of an eventual washing.

36) type of kitchen knife with black handle overall length of 31 cm.

On this finding were carried out, as known, No.2 samples each (A) in correspondence of the blade and the other (B) in correspondence of the handle.

The results of the forensic analysis previously performed on blood specimen, as indicated in the notes already developed made it possible to exclude the presence on it of biological traces attributable to Sollecito, which made it possible, in my opinion since then to exclude him that he has done use in the period before its evidence collection.



I had also already expressed a technical opinion on the results obtained by the two samplings performed respectively on the handle and on the blade of the knife, for which there was no investigation was performed preliminary for highlighting the nature of the traces given the absolute skimpiness of them, emphasizing also that DNA analysis has provided for them amplification products that, because of their analytical characteristics do not provide a correct use of the results in the forensic field, as it uniquely interpretable and theoretically also due to analytical artifacts.

In light of these clear, the day 14.12.07 the employees have conducted an investigation, in my presence, a total of 4 new samples, according to the minutes, including two on the blade and two on the knife handle and are identified by letters (D - E, F - G).

On all four of these new samples the new analysis for the detection of blood-borne nature of the track by Tetra Methyl Benzidine (TMB) gave a negative result, thus confirming that the kitchen knife (rep.36) Raffaele Sollecito arrested, there is no adherent blood.

Include investigations of DNA by specific polymorphisms in the human genome performed on the same analytes was consistently negative since it did not provide any amplification product, excluding in particular the presence of biological traces belonging to Raffaele Sollecito.

These additional analytical data thus agree with previous investigations carried out and exclude the presence of any biological trace belonged to Raffaele Sollecito on the kitchen knife he seized therefore also strengthening the belief that it is not used it in the period before its evidence collection.

33) Switchblade knife brand CRKT

35) Switchblade knife brand SPAIDERO D'ELICA

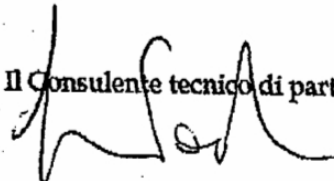
On both knives (Czech Rep. 33 and 35) owned by Raffaele Sollecito, DNA analysis conducted so far have not provided any product

amplification being able to state that ruled over them can be traced blood belonged to the victim Meredith Kercher Susan Cara.

In conclusion, the above data help to strengthen what is already stated in the notes previously processed, namely that no biological evidence attributable to Raffaele Sollecito stat is detected on the findings that afferent examined the house of the victim (of which I could take sottoscritto Technical Adviser vision) as well as any findings pertaining to the suspect Sollecito. among the many already examined, was suffering from blood belonged to the victim

I think in the end must be stressed like this expert considers of great significance, in order to achieve greater clarity in the investigation, conduct sampling of the material of the shoe prints found in the apartment of Mr. Rudy Herman Guede in order to perform the same investigations for the identification / exclusion of any nature blood of the material that constitutes them and, if positive, proceed as for the other finds, at a molecular typing by the use of DNA polymorphisms.

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Il Consulente tecnico di parte  
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