

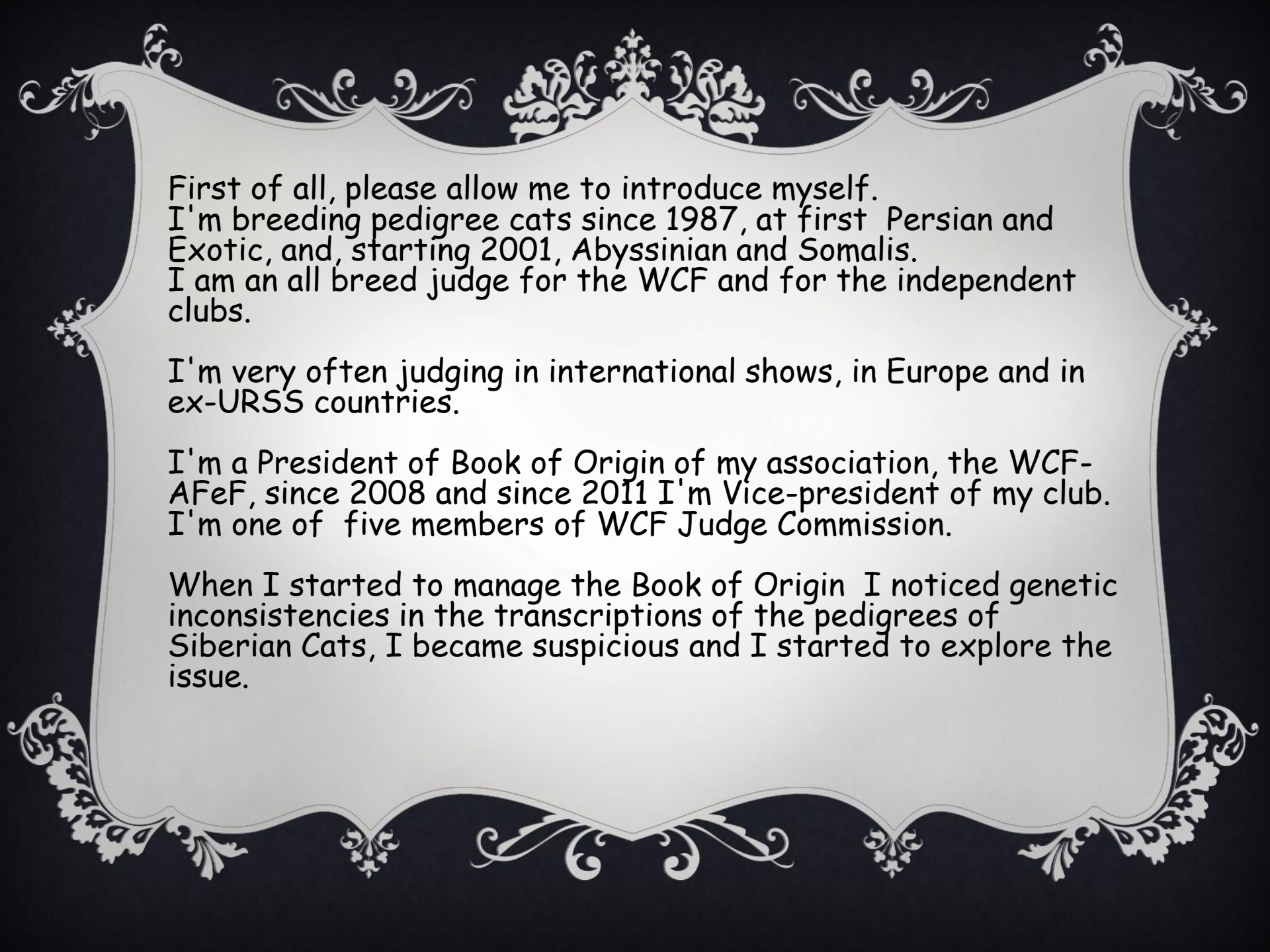


SIBERIAN SUNSHINE

The new colour which came in from the cold?

Eleonora Ruggiero - Silvia Perego v.2017





First of all, please allow me to introduce myself.
I'm breeding pedigree cats since 1987, at first Persian and Exotic, and, starting 2001, Abyssinian and Somalis.
I am an all breed judge for the WCF and for the independent clubs.

I'm very often judging in international shows, in Europe and in ex-URSS countries.

I'm a President of Book of Origin of my association, the WCF-AFeF, since 2008 and since 2011 I'm Vice-president of my club.
I'm one of five members of WCF Judge Commission.

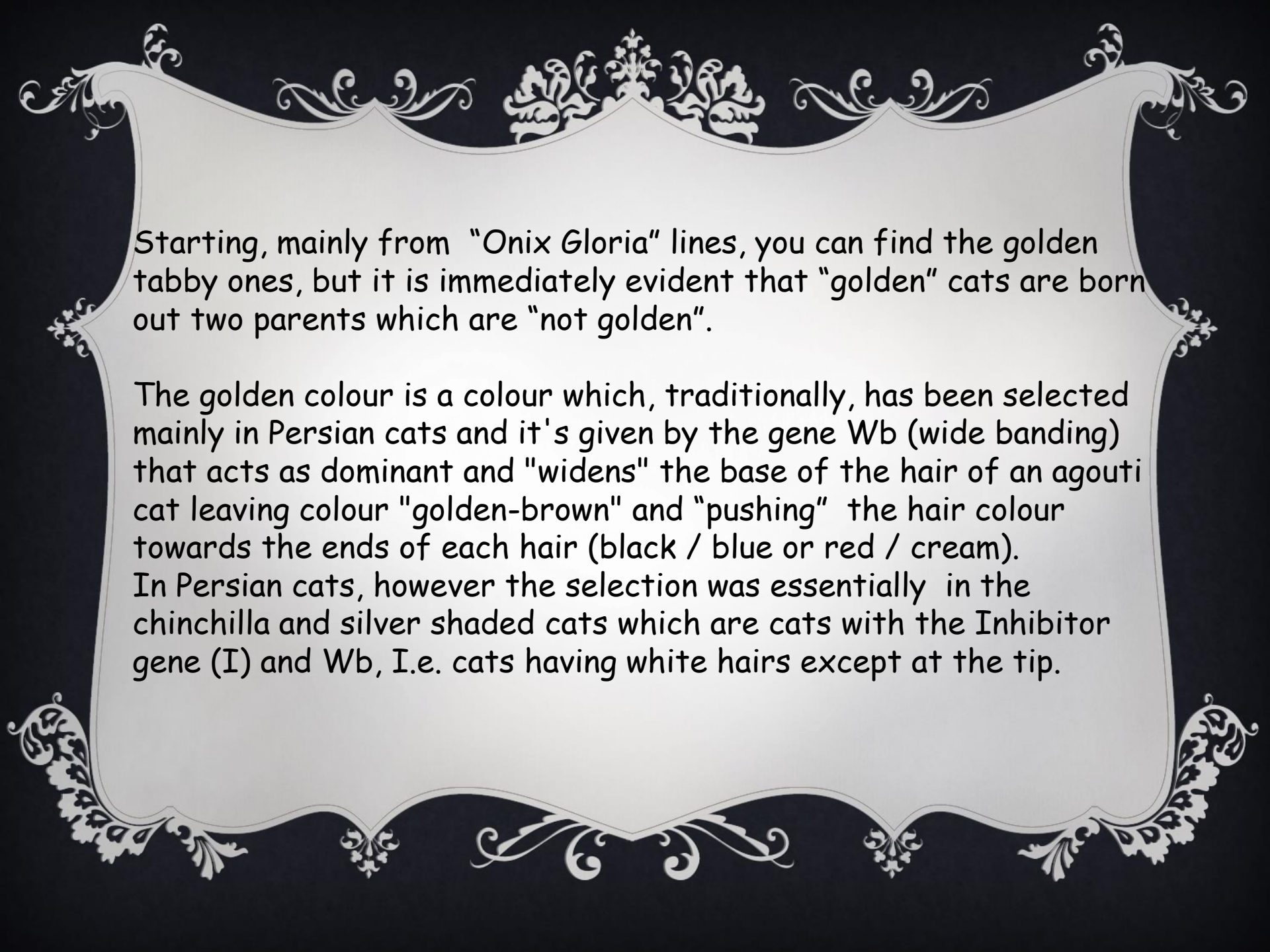
When I started to manage the Book of Origin I noticed genetic inconsistencies in the transcriptions of the pedigrees of Siberian Cats, I became suspicious and I started to explore the issue.



This is my first «strange» litter I seen when I went in
the Veselka Cattery for a colour control...
Because that was her first litter I think «May be it's a
tortie girl...»...

What's surprise!!



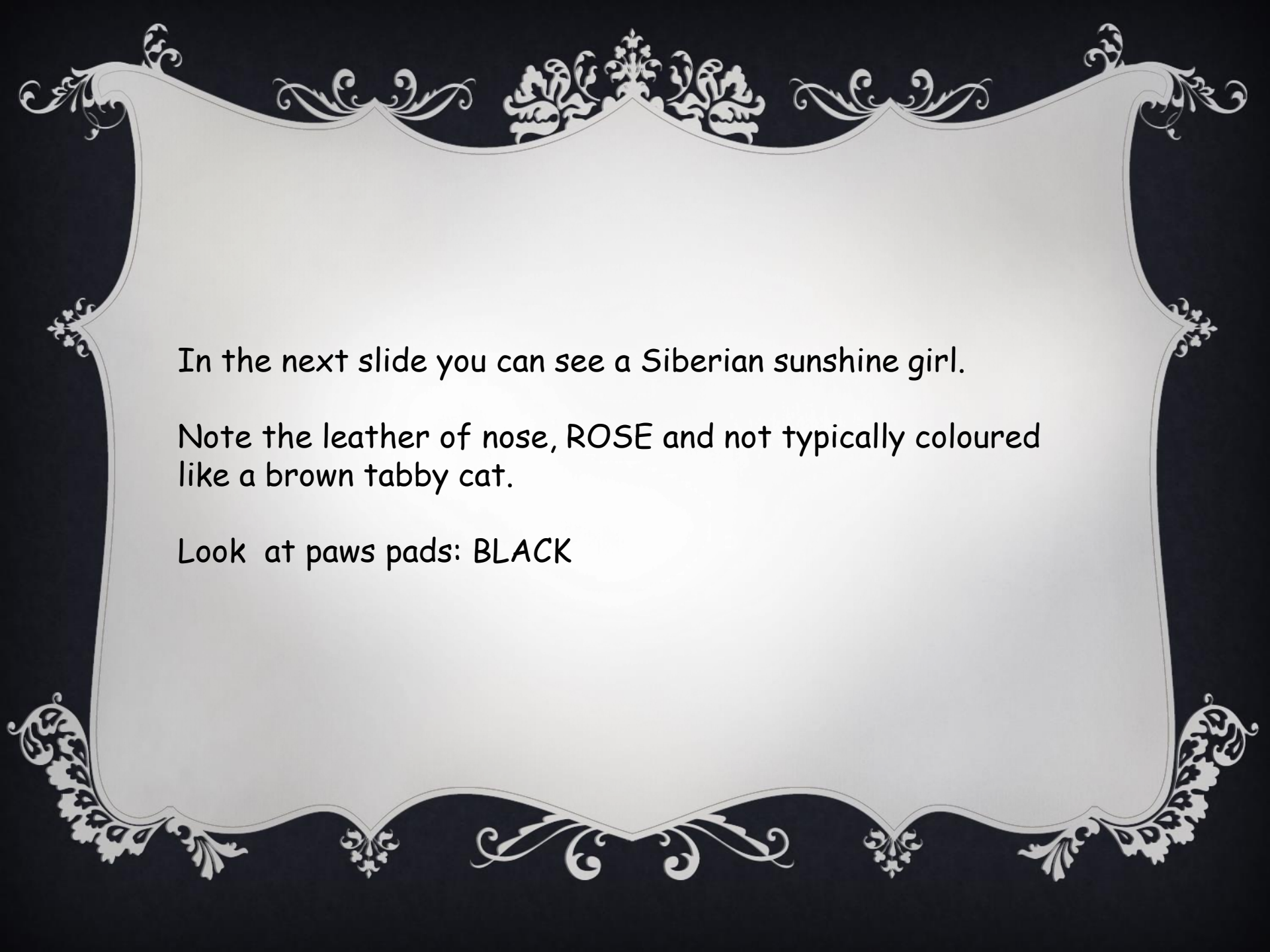


Starting, mainly from "Onix Gloria" lines, you can find the golden tabby ones, but it is immediately evident that "golden" cats are born out two parents which are "not golden".

The golden colour is a colour which, traditionally, has been selected mainly in Persian cats and it's given by the gene Wb (wide banding) that acts as dominant and "widens" the base of the hair of an agouti cat leaving colour "golden-brown" and "pushing" the hair colour towards the ends of each hair (black / blue or red / cream). In Persian cats, however the selection was essentially in the chinchilla and silver shaded cats which are cats with the Inhibitor gene (I) and Wb, I.e. cats having white hairs except at the tip.

As in all cats with the inhibitor gene the pawpads colour match with the hair on the gene B, O or D, may be with white (S), so.. e.g., A Black Silver Shell will have also black fingertips/pawpads.

So, on balance, in Persians, the golden cat is a chinchilla cat without the inhibitor gene ...
(A- B- Wb-)

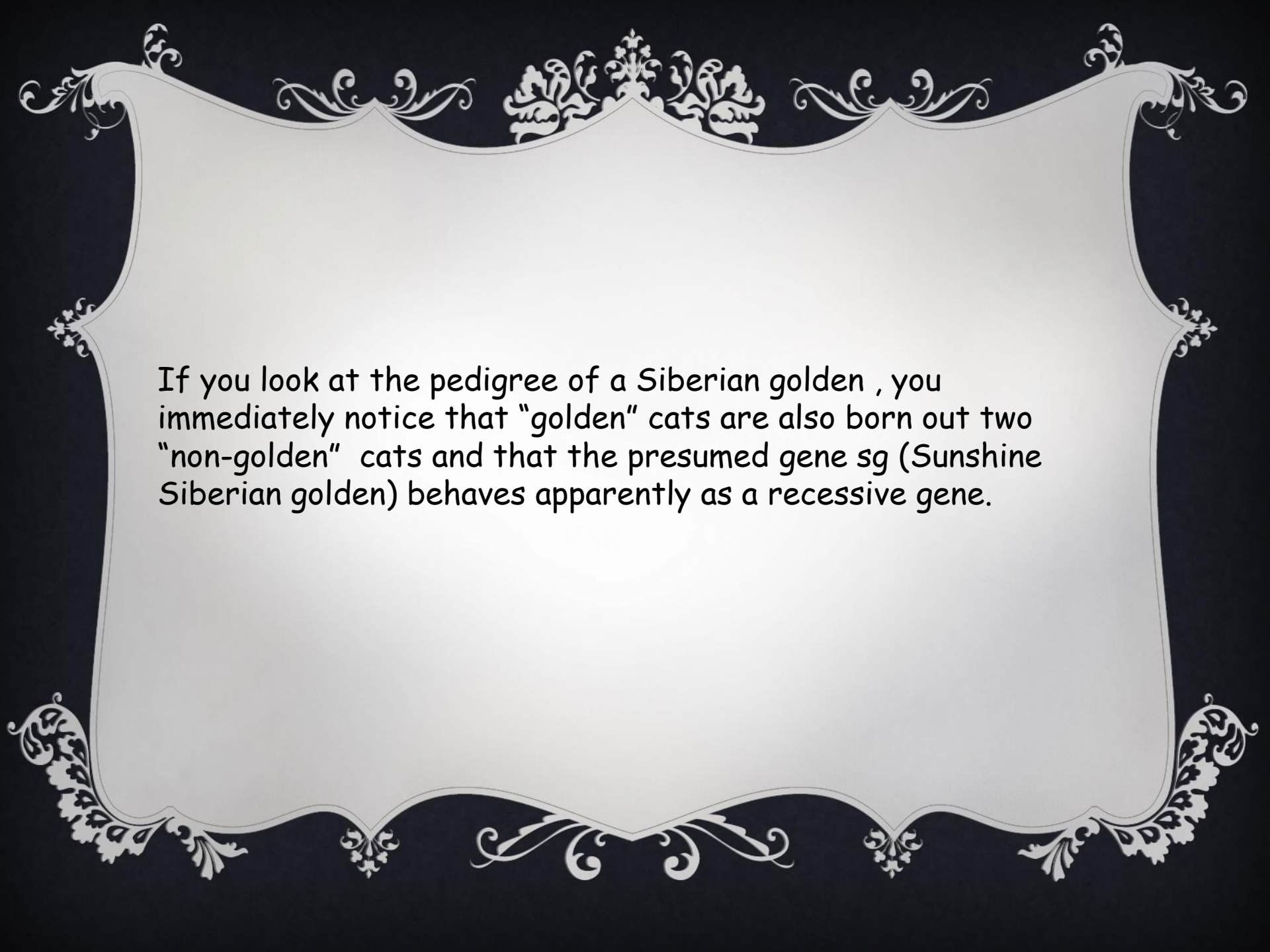


In the next slide you can see a Siberian sunshine girl.

Note the leather of nose, ROSE and not typically coloured like a brown tabby cat.

Look at paws pads: BLACK





If you look at the pedigree of a Siberian golden , you immediately notice that "golden" cats are also born out two "non-golden" cats and that the presumed gene sg (Sunshine Siberian golden) behaves apparently as a recessive gene.

Genton/Parent

<p>P Nome Boreas von der Selenga Colore Seal Tabby Point</p>	<p>Siberian Cat Microchip N° AF eF LD 7772 276098510285617</p>
<p>M Nome Veselka Lady Colore Black Silver Tby Mackerel and White</p>	<p>Siberian Cat Microchip N° AF eF LD 6589 981100002661518</p>
<p>P Shiasny v.d. Jagermuhle Siberian Cat Black Golden Tabby Blotched Microchip N° Bavarian 100859</p>	<p>P Ch. Arsinoe's Kenshin Siberian Cat Black Golden Tb Mack and White Microchip N° SDRV 05019498</p> <p>M Nika v.d. Jagermuhle Siberian Cat Seal Golden Tabby Point Microchip N° CFA 100102</p>
<p>M int.Ch. Kesara's Alea Siberian Cat Seal Tabby Point Microchip N° 276098510261212 BKV 0805414</p>	<p>P Ch. Husar Sineglazy Angel Siberian Cat Blue Tabby Point and White Microchip N° RES- 135/SIB/2007</p> <p>M Knyaginya Lion's Heart Siberian Cat Brown Tabby Mackerel Microchip N° FA-SIB/2007-0184</p>

Nidiata/Liter

<p>Vladic (SIB B I T S) M Teddy (SIB B I T S) M Cindy of Veselka (SIB B I GOL T) F Burbuja of Veselka (SIB B I GOL T) F</p>
<p>P int.Ch. Veresk Sibariss DE 8542 Siberian Black Golden Tabby Mackerel</p> <p>M int.Ch. Davina v. Grossen Haus KVL 02-002364/2005 Siberian Blue Cream Silver Tabby Blotched and White</p> <p>P int.Ch. Rossity Urban CFC Astron 0 730-SIB Siberian Black Golden Tabby Blotched</p> <p>M Marusha v.d. Jagermuhle CFA 09794 Siberian Blue Tabby Point</p> <p>P I.Ch. Dzhin Sineglazy Angel RES 0078/SIB/2005 Siberian Seal Tabby Point and White</p> <p>M I.Ch. Anis'ya Sineglazy Angel Siberian Seal Tabby Point and White</p> <p>P Gr.Int.Ch. Viljam Sineglazy Angel RES 0031/SIB/2004 Siberian Seal Tabby Point</p> <p>M int.Ch. Sonja Laskowij Swer RES 0098/SIB/2005 Siberian Brown Tabby Mackerel</p>

 <p>AFeF Associazioni Feline Federate</p> <p>NOT FOR BREEDING</p>	<p>Ch. Lancelotti Onk Glotia-SIB B Tb GO L IFC 25704/SIB</p> <p>Wid.Ch. Ja GO. Vesla Veleru-SIB B Tsp GO L (RUS) IFC E 659/2001/SIB</p> <p>Diegoun Der Jagermuhle-SIB Od T S DE 2004-10-13</p> <p>Wolkonskaja Gundua-SIB Bd IT SDRV 05016000</p> <p>Ch. Lancelotti Onk Glotia-SIB B Tb GO L IFC 25704/SIB</p> <p>Ch. Rossity Guleya-SIB B Tsp CFC 0377-SIB</p> <p>Ch. Baccari Karrelia PL-SIB Bd cs S PL PZF RX 000457</p> <p>Ch. Andokater Blumelli-SIB Bd T cs DE 2003/12/01</p> <p>Wid.Ch. Ussutskyj Tigr Sineglazy Angel-SIB B T cs RES 0081/SIB/2002</p> <p>LCh. Anis'ya Sineglazy Angel-SIB B T cs</p> <p>Ch. I. Nikols Neuske Chub-SIB Bd T cs S RES 0009/2007/SIB</p> <p>Wid.Ch. Konsuetta Seuerneze Syster-SIB B T cs PKO 20056/SIB</p> <p>Wid.Ch. Ussutskyj Tigr Sineglazy Angel-SIB B T cs RES 0081/SIB/2002</p> <p>Wid.Ch. Konsuetta Seuerneze Syster-SIB B T cs PKO 20056/SIB</p> <p>Wid.Ch. Anders Laskowij Swer-SIB B T</p> <p>Orel-SIB-SIB Bd IT</p>
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Nonni/Grand Parents

<p>P Eu.Ch. Yankee Silviassib*PL Siberian Cat</p>	<p>P Union Silviassib*PL Siberian Cat Cream Silver Tabby & White</p>
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Bisnonni/Great Grand Parents

Bisavoli/Great Great Grand Parent

<p>P IC. Adonis Syberion*PL FPL RX 688 Siberian Black Smoke and White</p> <p>M IC. Johanka z Ticheno Udoli*CZ FPL LD 2004</p>

Trisavoli/Great Great Great Grand Parent

<p>Ch. Nordens Parrot PL-SIB Bd S FPL RX 438</p> <p>Foxy i Sackel Hopy PL-SIB Bd I FPL RX 454</p> <p>ES. Nikla baur-SIB B Tsp CFC LD 334/SIB</p>
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Genitori/Parents

P Nome Siberian Cat
J.Ch. Hirabrec Udalec VivaLaVita "RU"
Colore Microchip N° AFeF LO 10000 Pk:N/N
Brown Golden Tb Mack and White 64309000099034

M Nome Siberian Cat
Veselka Arc-En-Ciel
Colore Microchip N° AFeF LO 9189 Pk:N/N
Black Silver Tabby Mackerel 380260002442679

P Edwin VivaLaVita "RU" Siberian Cat
Brown Tabby Blotched
Microchip N° 643094100380575
ARCCA LO 79282

P Ch. Listopad Marcipan Siberian Cat
Brown Tabby Spotted
Microchip N° RU-165 110/SIB/10/RIEX

M IC. Bozhena VivaLaVita "RU" Siberian Cat
Brown Golden Tabby Spotted
Microchip N° ARCCA LO 72267

M Darlene VivaLaVita "RU" Siberian Cat
Brown Tabby Spotted and White
Microchip N° 972270000353450
ARCCA LO 79206

P IC. Angelur Barkhan Siberian Cat
Brown Golden Tabby Spotted
Microchip N° RU-0131 -01-04/11-LO-SIB

M Nordskjaeret's Kupava Siberian Cat
Brown Tortie Tabby Spotted & White
Microchip N° ARCCA LO 19819

Nidiata/Litter

Kilgharrah Adrian (SIB B I Tsp S) M
Kilgharrah Aleksej (SIB B I Tsp S) M
Kilgharrah Ailsa (SIB B I Tsp) F
Kilgharrah Anja (SIB B Tsp GOL) F
Kilgharrah Althusa (SIB B Tb GOL) F

P Eu.Ch. Fandorin Adagio KC 190/2008/SIB
Siberian Brown Tabby Blotched

M Ch. Rysla Dostoyanie Sibiri PK.ES- 11/09/595 SIB
Siberian Brown Tabby Spotted

P IC. Angelur Barkhan RU-0131 -01-04/11-LO-SIB
Siberian Brown Golden Tabby Spotted

M Yagodka Volzskaja Krasa ARCCA LO 18855
Siberian Brown Golden Tabby Blotched

P Ch. Ideal Sladkoe Pyatnyshiko IFC 3000/160/15/09/SIB
Siberian Brown Tabby Spotted and White

M Gr.Int.Ch. Angelur Marusya PK 107/2005/SIB
Siberian Brown Golden Tabby Mackerel

P IC. Jazz Wild Talga NRR LO 165090
Siberian Black Silver Tabby Mackerel and White

M IC. Nordskjaeret's Angellina NRR LO 157275
Siberian Brown Tortie Tabby Blotched & White



Amely Taychaya Gladia-SIB B Tb KO 104/2007/SIB

Ch. Goroza Adagio Melis-SIB B T ? 87006/SIB

Homa Vladimir Sibiro-SIB B T ARCCA RX 25665

Int.Ch. Lapochka Deshka Dostoyanie SIB-SIB B T PKES 0660949 SIB

Ch. Ideal Gladkoe Pyatnyshko-SIB B Tsp S IFC 3000/160/15/09/SIB

Gr.Int.Ch. Angelur Marusya-SIB B T GOL PK 107/2005/SIB

Gusar Volzhskaja Krasa-SIB B Tb GOL PK-KD SIB 01400

Ch. Dushenka Volzhskaja Krasa-R-SIB B Tb GOL PKKD 014165

Eu.Ch. Sladkoe Pyatnyshko-SIB B Tb S EBB 247-071165-SIB

Eu.Ch. Angelur Shalunya-SIB B T ? 04226395/SIB

Ch. Elsey Onix Glorie-SIB B T IFC 77503/SIB

Int.Ch. Gerniana Great Angelen-SIB B T GOL PC 230903/SIB

K. Color Siberian Kaskad-SIB B I Tsp S C2JCSCH LO 1836/SIB

Gabriella Wild Talga-SIB B I T CSH LO 7286/SIB

SC. Gombelka Boris-SIB B T S SVERAK LO 212332

IC. Amara Fladilla-SIB BO Tb S NRR LO 152533

Nonni/Grand Parents

P Cameron z Pogranicza "PL" Siberian Cat
Black Silver Tabby Mackerel
Microchip N° 985170002671524
AFeF LO 8740 Pk:N/N

P Desire Nirvanasib "PL" Siberian Cat
Brown Golden Tabby Blotched
Microchip N° (PL) FPL LO 43602

M Gaja Nowa Era "PL" Siberian Cat
Black Tortie Silver Tb Spot & White
Microchip N° 967000009294597 (PL) FPL LO 37396

M Cindy of Veselka Siberian Cat
Black Silver Golden Tabby Mackerel
Microchip N° 981100002717389
AFeF LO 7776 Pk:N/N

P Boreas von der Selenga Siberian Cat
Seal Tabby Point
Microchip N° 276098510285617 AFeF LO 7772

M Veselka Lady Siberian Cat
Black Silver Tby Mackerel and White
Microchip N° 981100002661518 AFeF LO 6589

Bisavoli/Great Grand Parents

P Bono Nirvanasib "PL" (PL) FPL LO 32653
Siberian Brown Tabby Spotted

M Galla Harmony Home "PL" (PL) FPL LO 29944
Siberian Brown Tabby Spotted

P SC Horus Perla Polnocy "PL" (PL) FPL LO 16803
Siberian Black Silver Tabby Blotched

M IC. Zatejka z Dworku Bojara "PL" (PL) FPL LO 24617
Siberian Black Tortie and White

P Shlasy v.d. Jagermuhle Bavarian 100659
Siberian Brown Golden Tabby Blotched

M Int.Ch. Kesara's Alea BKV 0805414
Siberian Seal Tabby Point

P Gr.Eu.Ch. Yankee Silviassib "PL" AFeF LO 5906 Pk-Def/N/N
Siberian Black Silver Tabby Mackerel and White

M Vanuatu z Zimnej Krainy "PL" AFeF LO 6520 Pk-Def/N/N
Siberian Brown Tortie Tabby Spotted

Trisavoli/Great Great Grand Parent

SC. Dimitri z Kufu Carpy "PL-SIB B T" FPL LO 4390

EC. Wlaska z Bawri "PL-SIB B Tb S" (PL) FPL RX 434

Byela Peda Gie "PL-SIB B T GOL" (PL) FPL LO 14441

CH. Bafija Harmony Home "PL-SIB BO Tb" (PL) FPL LO 18823

Chryslar z Alibadu "PL-SIB B I S" PL FPL LO 12254

Elra Perla Polnocy "PL-SIB B I Tsp" (PL) FPL LO 5883

GR. Krasa Ryl Georgin "S-SIB B T GOL S" FPL LO 5451

EC. Imira z Dworku Bojara "PL-SIB O T S" (PL) FPL RX 501

Ch. Aralova's Kamish-SIB B T GOL S SDRV 0501668

Nika v.d. Jagermuhle-SIB B GOL T-cs CFA 100102

Ch. Honor Shingazy Anga-SIB B T cs S RES-135518/2037

Knyaginya Lion's Heart-SIB B T FA-SIB/ 2007-0104

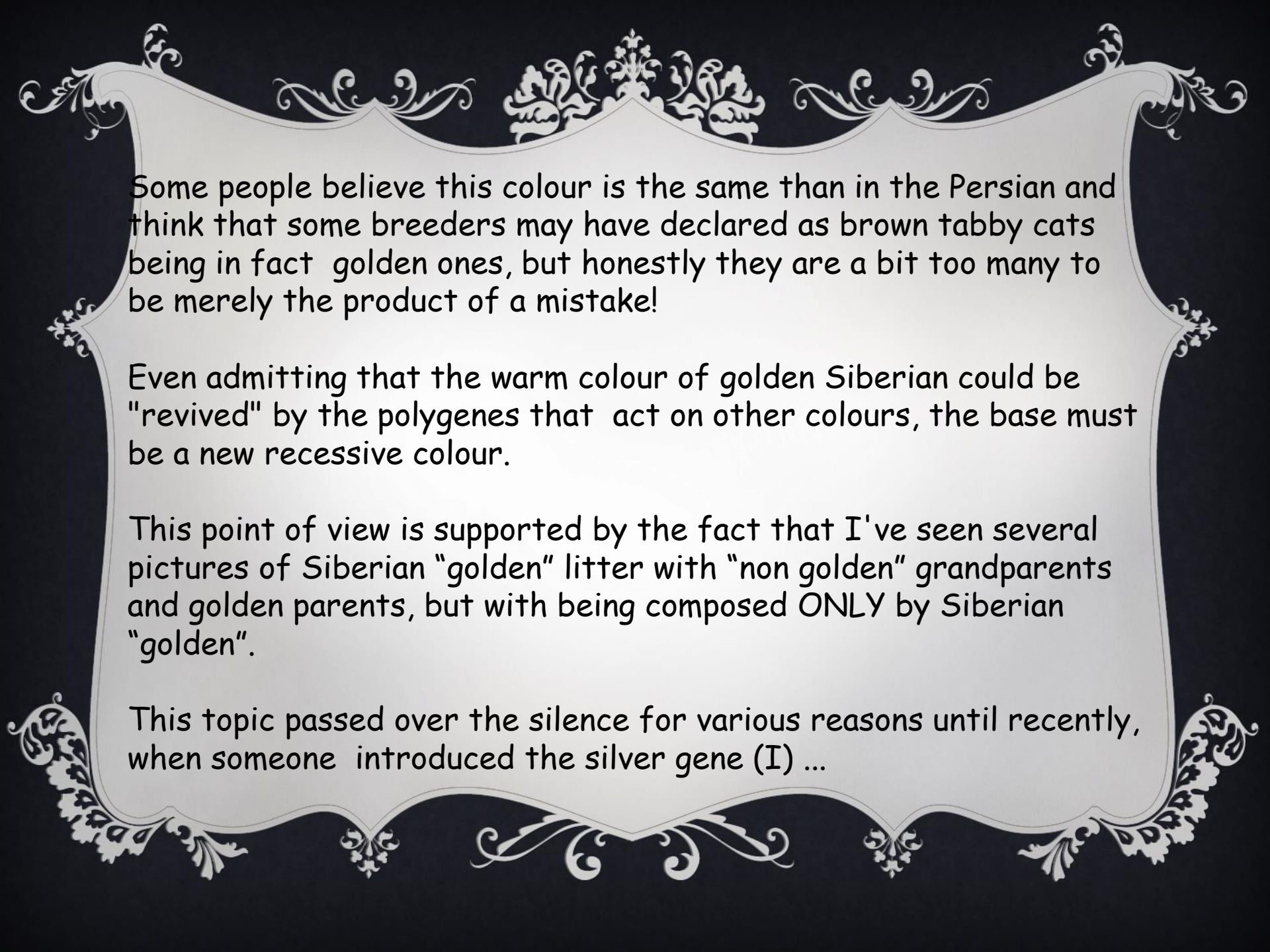
Union Silviassib "PL-SIB Od IT-S" FPL RX 1863

Dalmona Aldomaz "PL-SIB B Tsp" FPL LO 14148

GR. Krasa Ryl Georgin "S-SIB B T GOL S" FPL LO 5451

Neshana von Mittelmaier-SIB BO Tb FPL LO 17786



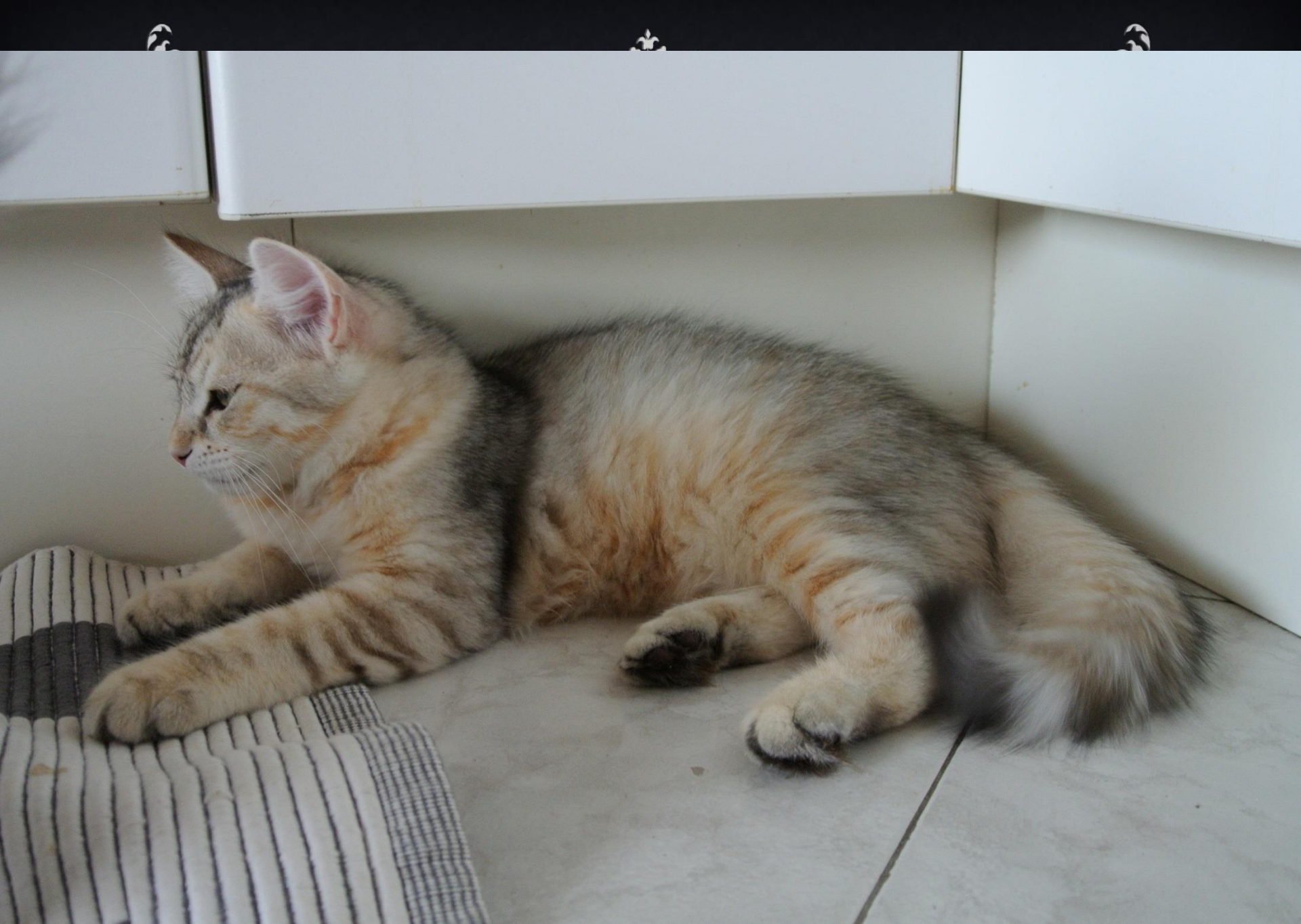


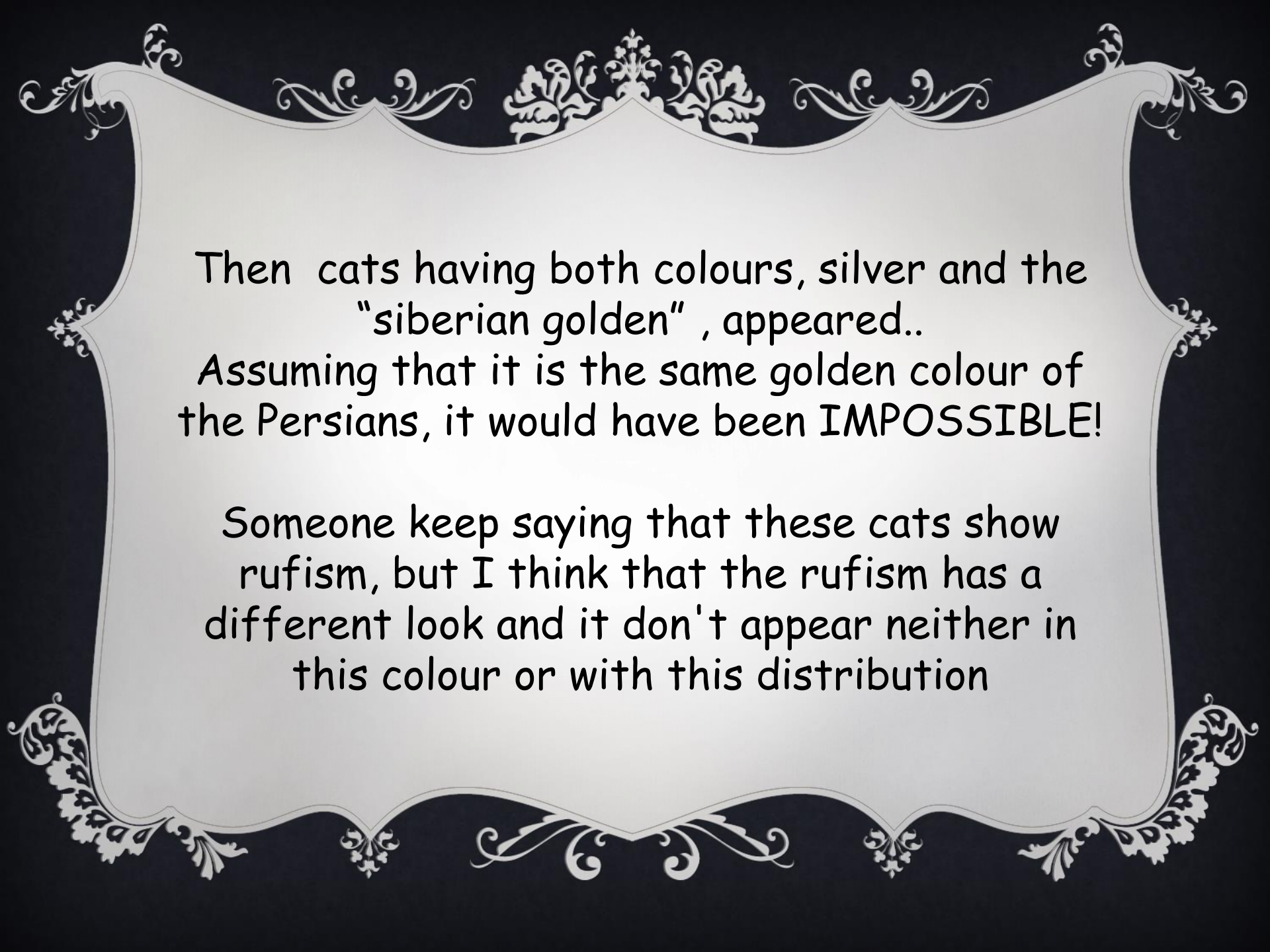
Some people believe this colour is the same than in the Persian and think that some breeders may have declared as brown tabby cats being in fact golden ones, but honestly they are a bit too many to be merely the product of a mistake!

Even admitting that the warm colour of golden Siberian could be "revived" by the polygenes that act on other colours, the base must be a new recessive colour.

This point of view is supported by the fact that I've seen several pictures of Siberian "golden" litter with "non golden" grandparents and golden parents, but with being composed ONLY by Siberian "golden".

This topic passed over the silence for various reasons until recently, when someone introduced the silver gene (I) ...

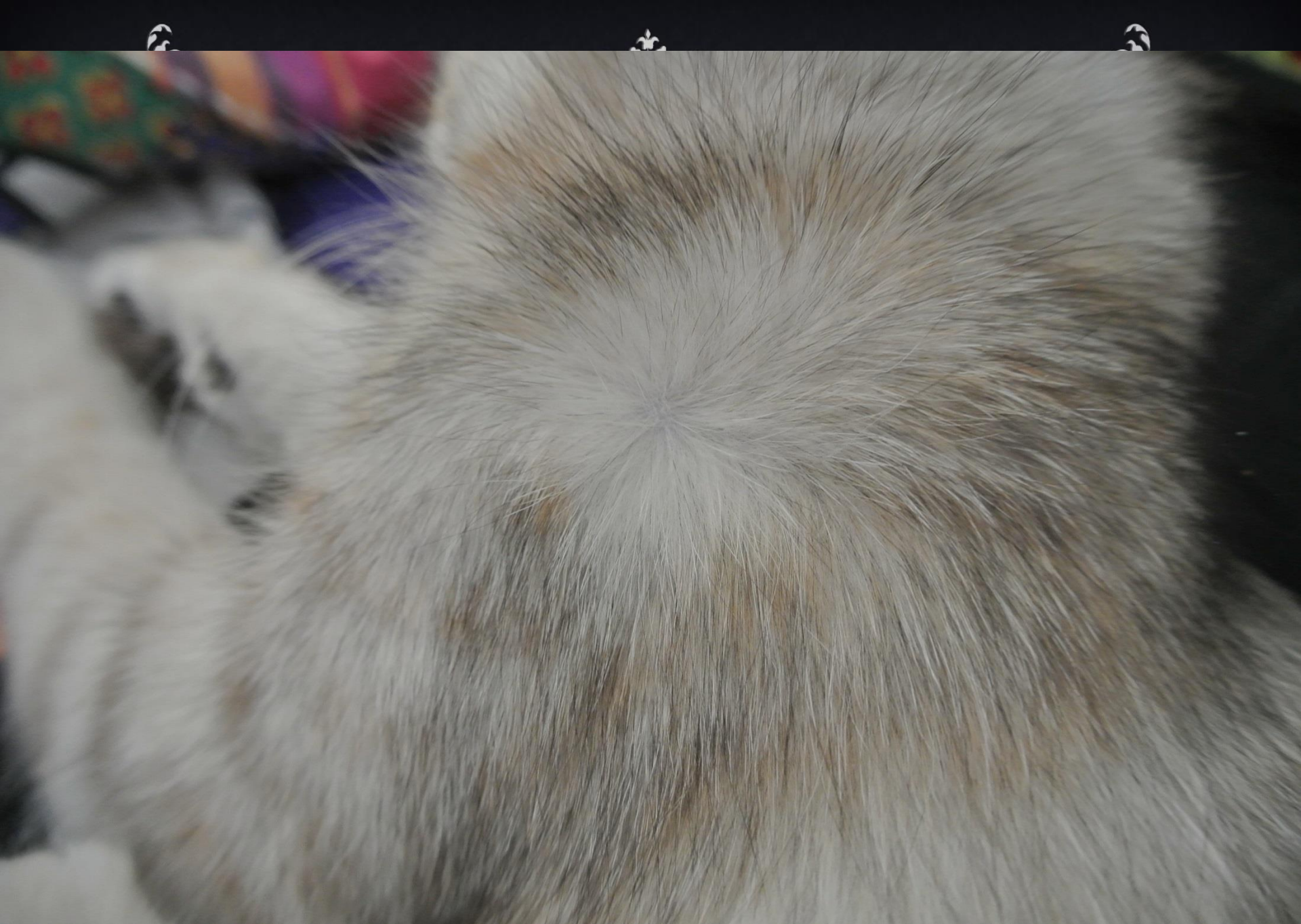




Then cats having both colours, silver and the
"siberian golden" , appeared..

Assuming that it is the same golden colour of
the Persians, it would have been IMPOSSIBLE!

Someone keep saying that these cats show
rufism, but I think that the rufism has a
different look and it don't appear neither in
this colour or with this distribution



Breeding Abyssinian and Somalis cats, which have the most developed rufus polygenes, I am accustomed to meet silver Abyssinian and Somalis cats with rufism, even strong and widespread, but this distribution is by no means like what we find in these "bi-metal" called cats;

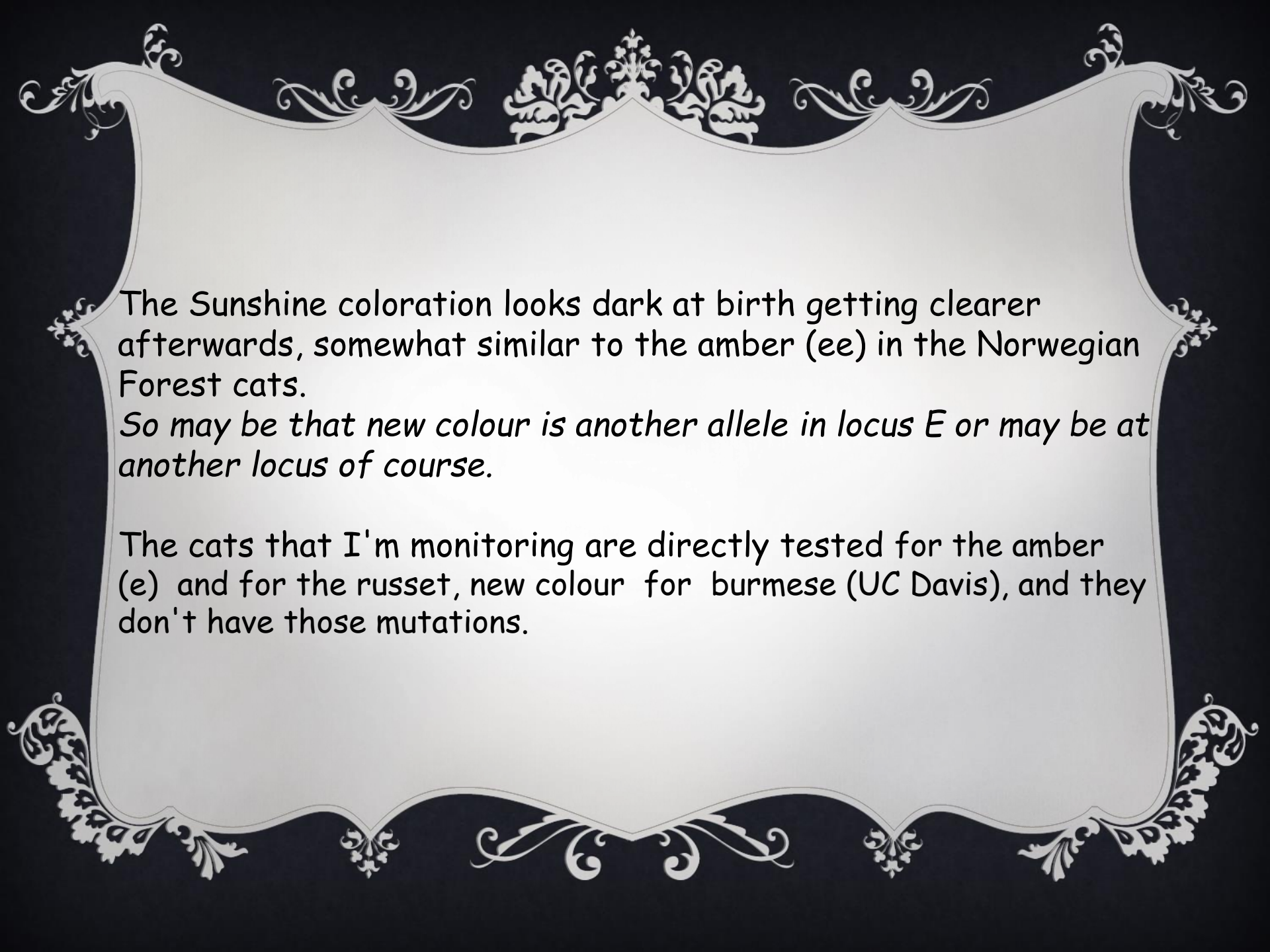
i.e. cats with the inhibitor gene (I-), the agouti gene (A-) and the colour "sunshine".

At present there are no reported Siberian cats golden non-agouti (aa), but Siberian cats are mostly agouti (AA or A-)

In the next slides an adult boy bimetal, look at paws pads: black!







The Sunshine coloration looks dark at birth getting clearer afterwards, somewhat similar to the amber (ee) in the Norwegian Forest cats.

So may be that new colour is another allele in locus E or may be at another locus of course.

The cats that I'm monitoring are directly tested for the amber (e) and for the russet, new colour for burmese (UC Davis), and they don't have those mutations.

My personal opinion, based on what I've just mentioned here, is that in Siberian cats this colour may be a mutation, which I call for simplicity "Sunshine", which is transmitted as recessive, influenced by polygenes as for the intensity of colour and its distribution.

I have seen the very SIMILAR colour (may be not the same mutation) in Kurilian Bobtail cats, also coming from ex-URSS countries, in some British and Scottish LH and SH, as well as in short-haired street cats in Ukraine.

The breeder that selected this "reddish" colour used a very strong inbreeding to fix the character, confirming that the gene is probably recessive.

The first "bi-metal" cats probably were hidden, as often happens, to prevent breeding problems, and several people still call them "silver cats with very high rufism", without understanding that it is something quite different from that and keeps them away from reproduction.



We have some cats with a "strange" reddish patches , only in silver cats carrying "sunshine".
ALL silver cats carrying sunshine which I seen have this patch!

Our opinion is that, in some way, this gene "sg", in eterozygosis can show up some "sunshine" patches in combination with the gene I.

The first cat I seen with that is Yankee Silviassib*PL, now in Veselka Cattery in Italy.

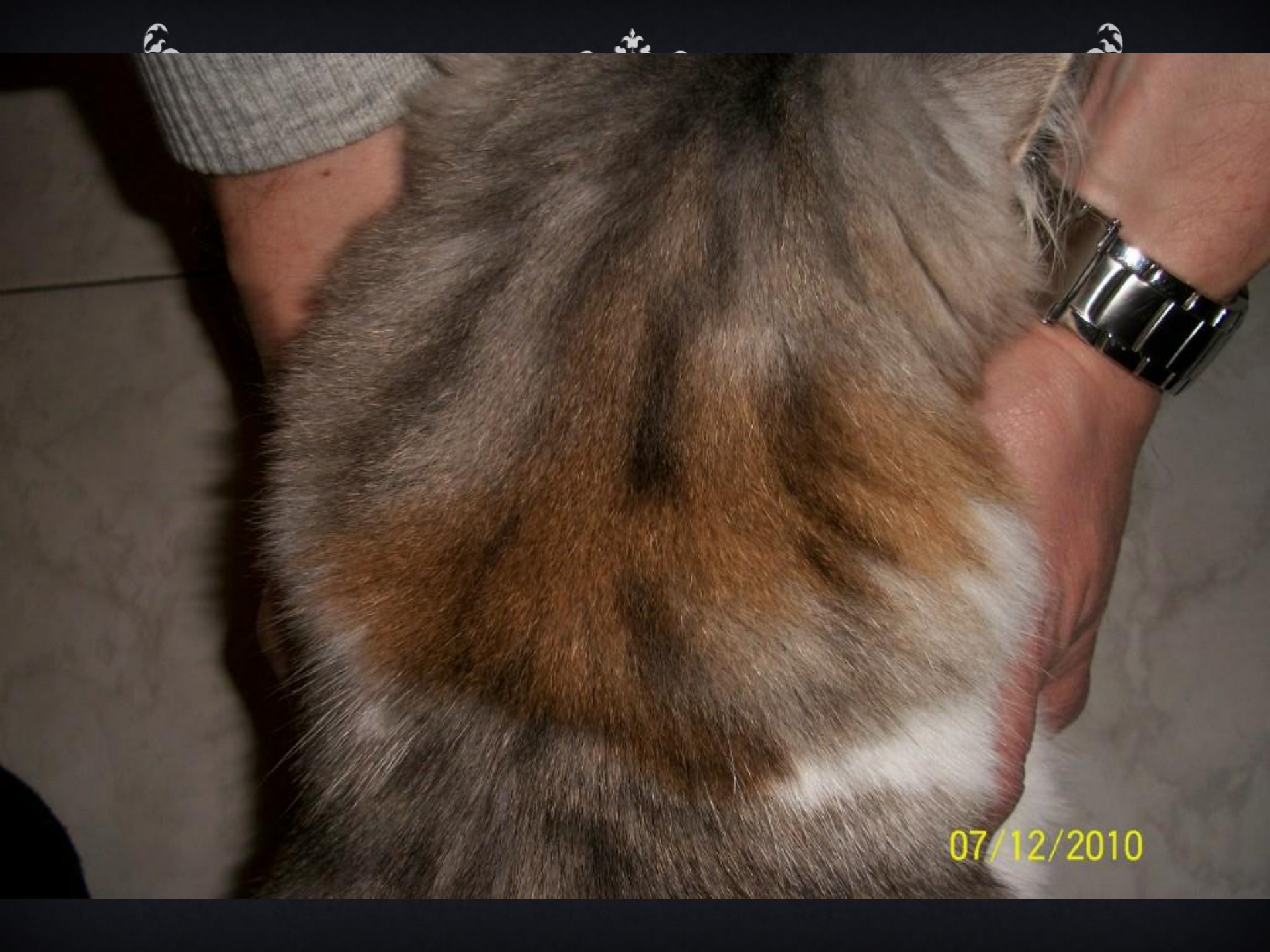
Look in the next slide the patch on his neck.



14/10/2010

An ornate, symmetrical decorative border in a light gray color, featuring intricate scrollwork and floral motifs, framing the central text against a dark background.

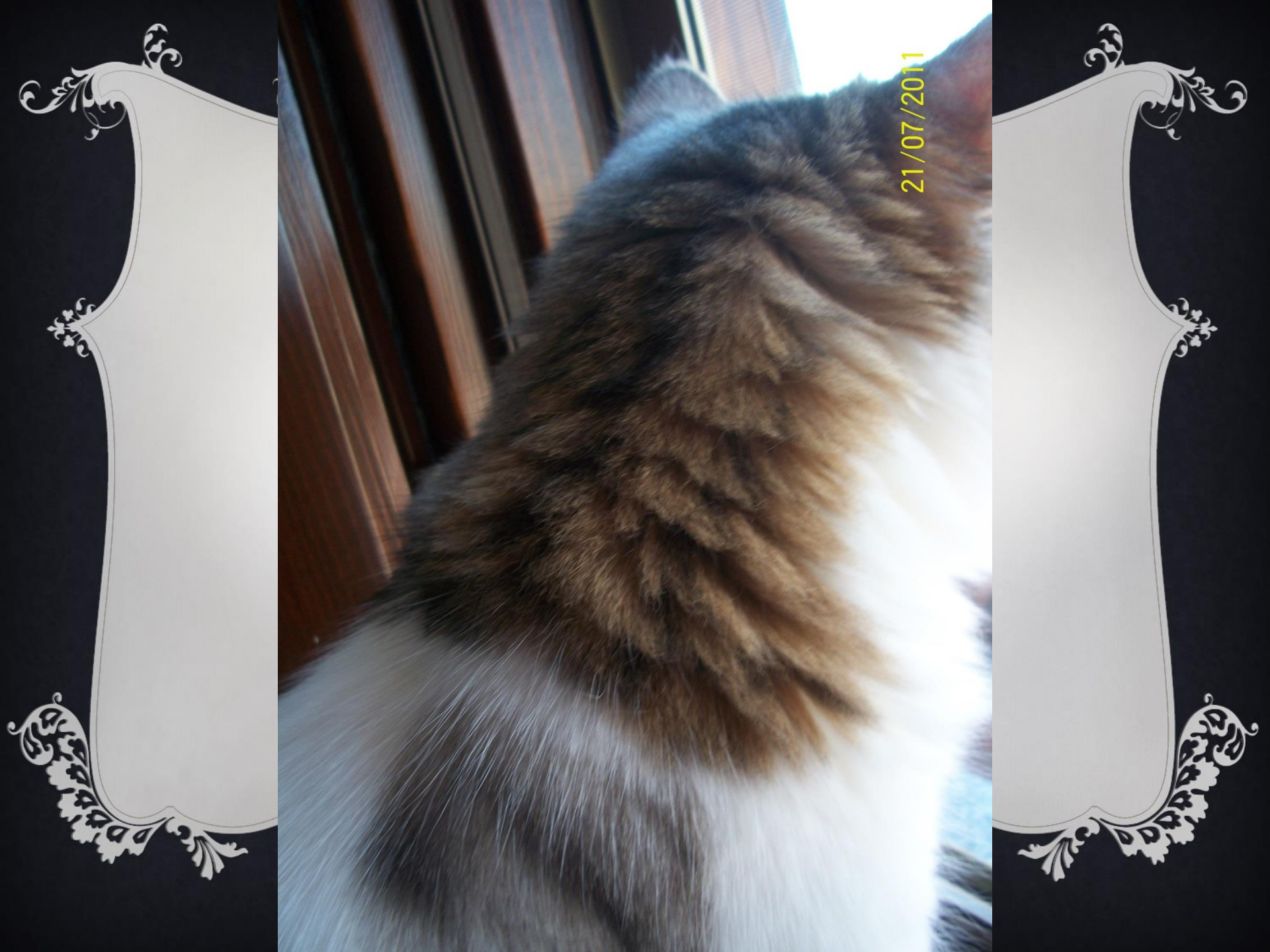
and between his shoulders..




07/12/2010

An ornate, symmetrical decorative frame in a light gray color, set against a dark blue background. The frame features intricate scrollwork and floral motifs at the top, bottom, and corners, creating a classic, elegant border. The central area of the frame is a lighter shade of gray, providing a backdrop for the text.

Veselka Lady, daughter of Yankee




21/07/2011



Veselka Lucy, another daughter of
Yankee, mother bi-metal







Other boys bi-metal, from different
lines, from Poland and from Italy



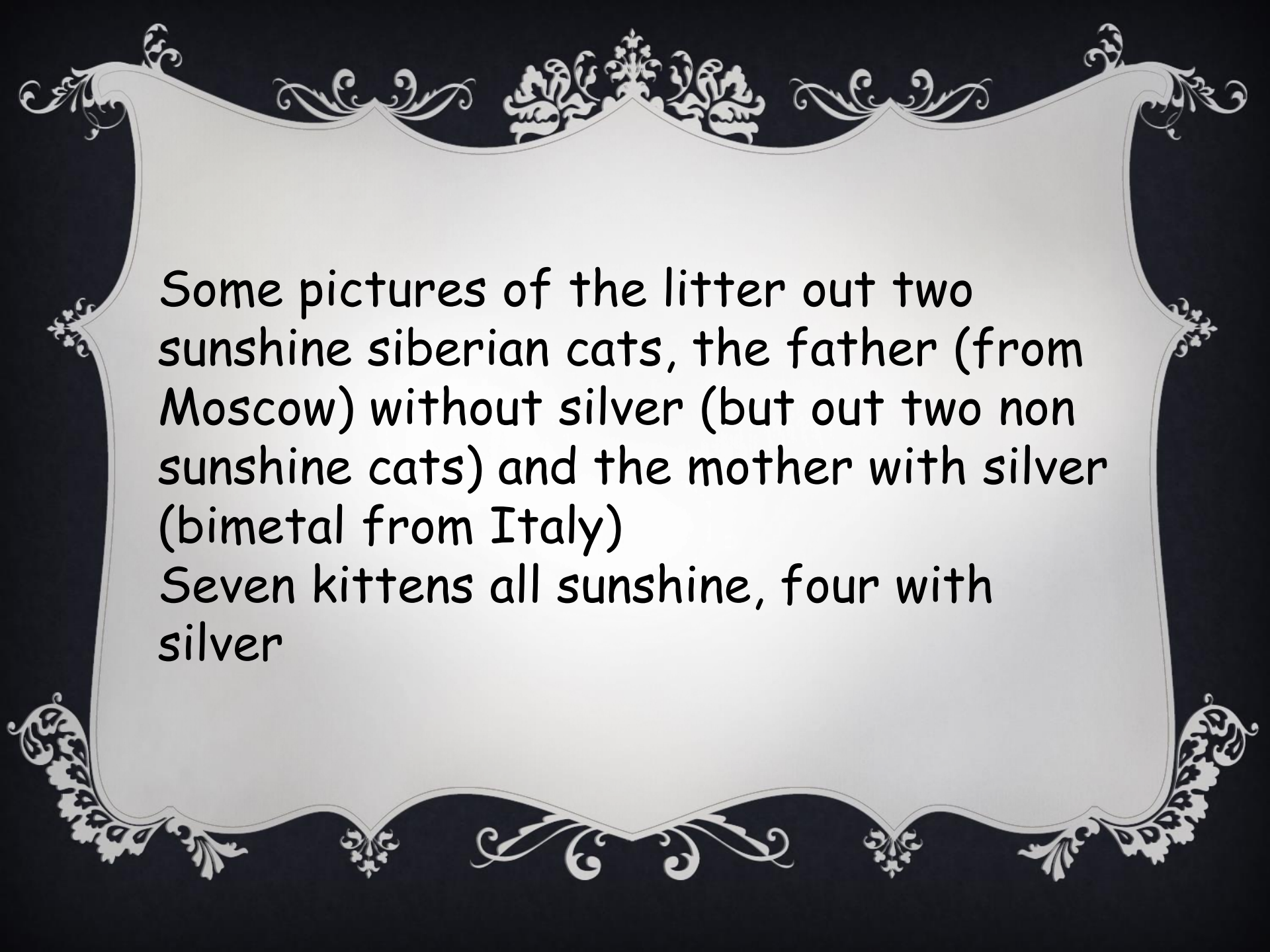


An ornate, symmetrical decorative frame in a light gray color, set against a dark blue background. The frame features intricate scrollwork and floral motifs at the top, bottom, and corners, creating a classic, elegant border.

Sunshine young girl from Minsk







Some pictures of the litter out two
sunshine siberian cats, the father (from
Moscow) without silver (but out two non
sunshine cats) and the mother with silver
(bimetal from Italy)

Seven kittens all sunshine, four with
silver





















To summarize:

A = agouti - existing genetic tests

B / b / bl = black-chocolate-cinnamon - existing test

O = red - test does not exist

D = dilution gene when mutated (d) - existing test

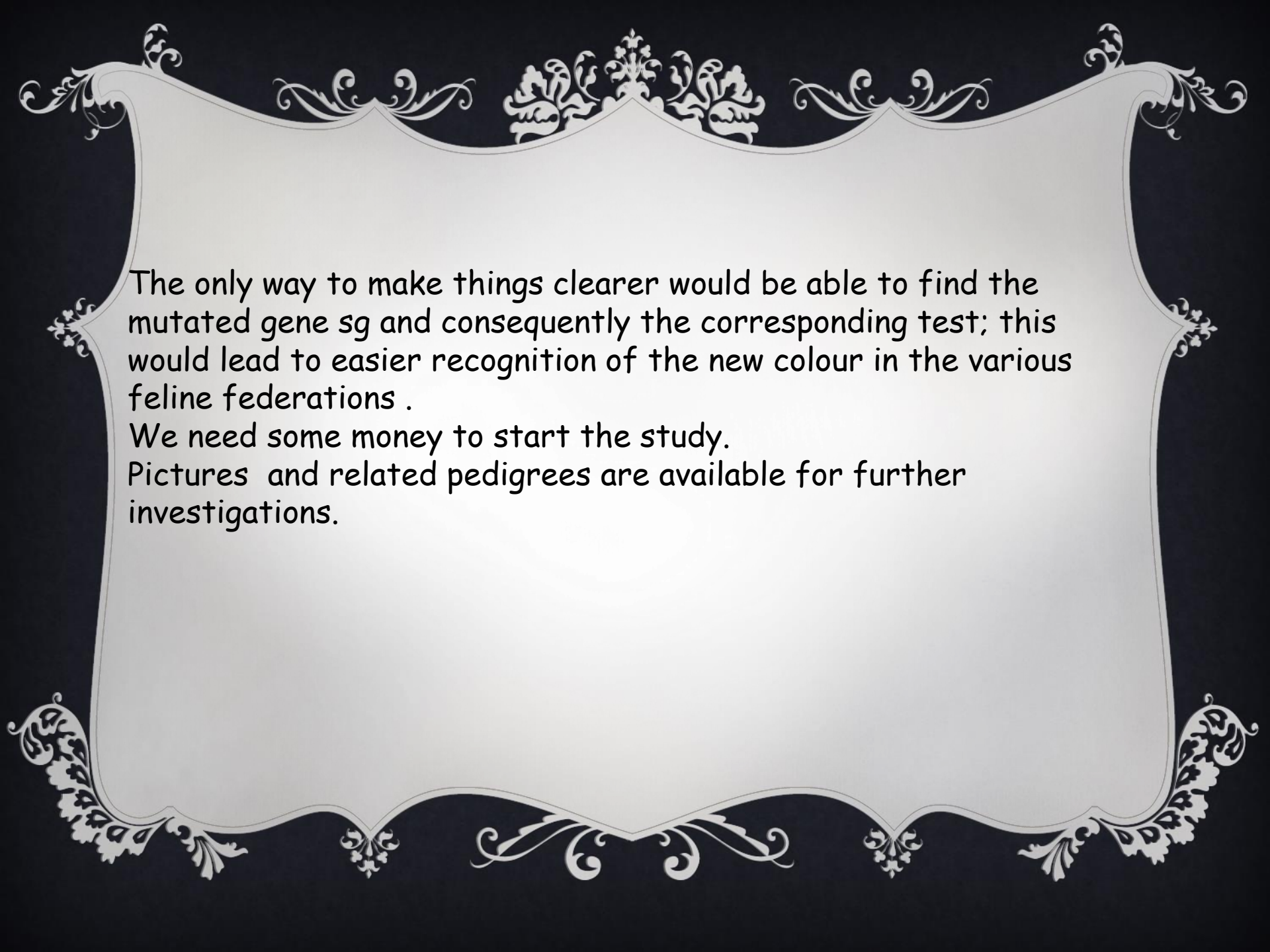
C / cb / cs = gene of the albino series - existing test

I = inhibitor gene (silver / smoke) - Test does not exist

T / Tb - Ta - Sp genes in various capacities related to the type of tabby - tests do not exist

Wb = Wide Banding (involved in the Golden Classic) - test does not exist

sg = Siberian/sunshine golden, assumed recessive mutation, may be another allele in locus E ? - could the gene and consequently the test be found?



The only way to make things clearer would be able to find the mutated gene sg and consequently the corresponding test; this would lead to easier recognition of the new colour in the various feline federations .

We need some money to start the study.

Pictures and related pedigrees are available for further investigations.

