

Color variations in birds of the ornithological collection “Salvatore Lauricella” in Palermo

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Abstract. Salvatore Lauricella (Palermo 9 january 1918 - Palermo 14 december 2010) was an important bird breeder and ornithophylus who collected a large number of particular color morphs of birds both from European and from exotic fauna and of the Psittaciformes he raised. The collection accounts for 355 specimens: 73 species and 205 specimens of the European fauna, 57 species and 86 exotic specimens, 37 species and 64 specimens of Psittaciformes. 44% of the specimens presents color variation, dominated by leucistic and albino morphs.

Keywords: bird collection, color plumage variation, Salvatore Lauricella.

INTRODUZIONE

Salvatore Lauricella (Palermo 9 january 1918 - Palermo 14 december 2010) shows since his youth a great passion for the world of birds. To breed, to cross, to study these animals was for him reason to live. He qualified as accountant at school and become a deep observer of ornithological preciousness of his beloved Sicily. Lauricella maintained and fuelled this passion also when was Military Aviation pilot during World War II, when it was still keeping small aviaries with birds. The war, in addition to awards and medals of military valor, left him with lifelong signs when, shot down by flak which forced him to a makeshift landing in the middle of the Strait of Sicily, had a damaged eardrum and a deafness that accompanied him always.

But the big turning point, because of its indisputable passion and knowledge, came when the past President of Sicilian Regions Giuseppe Alessi wanted the stupendous Villa d’Orléans became headquarters of the regional Presidency in 1953. Before the inauguration he was asked to create and curate a great ornithological collection that had to enriches the Italian style gardens of the Villa. Open to the public, becomes a well known institution for the of Palermo town ones and not only, as the Park is enriched by species, rarity and numbers enough to become a national reference point for ornithophylus.

The ability and passion lavished in the breeding lead before to attention and then to friendship with outstanding ornithologists of his time. Extensive correspondence and contact with Alessandro Ghigi, Alulah Taibel, Edgardo Moltoni and many other ornithologists who in the mid-20th century largely published. Noteworthy the letters had with Konrad Lorenz.

Lauricella has managed to reproduce in captivity difficult species, experimenting and launching time and passion, and developed techniques that today are considered basic. Among his successes were the first selection of albino’s *Dama dama*, *Agapornis fischer* yellow dappled

or albino *Ara ararauna* as well as the first European hybrids between *Ara ararauna* and *Ara chloroptera*, all obtained with natural techniques. But between love for the garden, animal observations, commitment for the breedings, a real great passion has always been collecting color variations in birds. It was a rich and diverse collection, with many species and colour variations arising from his breeds or from colleagues, but also with many specimens that were collected in the wild. Here for the first time are presented the list of all of them.

THE COLLECTION

The specimens in the collection “Salvatore Lauricella” were stuffed in three different periods of the XX century. A first 20% of them was prepared in the first thirty years of past century and come from an unique taxidermist. This was the initial collection, in very traditional way to stuff, and then was followed by around a 30% of more modern preparations of the ‘40th. The last 50% was prepared between the years ‘50 and ‘60 techniques used for them.

About variation in the color of the feathers are here considered a series of term. Melanism, or melanosis, is a condition caused by a genetic mutation that gives a bird excess amounts of melanin in its feathers and many melanistic birds appear completely brown or black. True melanistic birds are rare but there are a lot of situations where specimens show some degree of melanism that creates a dark morph variation of the bird's typical plumage. On the opposite side, leucism, or leukism, is an abnormal plumage condition caused by a genetic mutation that prevents pigment, particularly melanin, from being properly deposited on a bird's feathers. The specimens so present plumages with several color changes as white patches, paler overall plumage (*Isabella*) that looks faint, diluted or bleached, or overall white plumage with little or no color discernible. Albinism is another genetic variation in the color but there are distinct differences between albino and leucistic birds. Leucism affects only the bird's feathers meanwhile albinism affects all the pigments (skin, eyes, legs etc.) and birds show no color whatsoever in their feathers (Auber 1957, van Grouw 2006, Guay et al. 2012).

The amount of color variation is mostly related to changes in expression of genes that codified for color or sometime related to particular infection or general health status of the bird (e.g. Zahn e Rothstein 1999).

The collection present 355 specimens that belongs to three traditional main groups: European fauna, exotic and Psitaciformes. In the first one are present 73 species of European native birds with 205 specimens. The exotic count 57 species with 86 birds and among Psitaciformes are found 37 species with 64 specimens. In this conspicuous collections are widely present color morphs as quoted in Table 1. The different color morph and the normal coloration are reported in percentage in Figure 1. The more abundant are the leucistic colorations and, secondary, albino specimens. The collections anyway is composed for the 44% of birds with some kind of particular color of feathers.

The relative percentage of different color morph is shown in Figure 2. Thanks to the feeling of the collector the more represented of the morph are the leucistic, albino and “Isabelle” colorations. Also 22 hybrid are present, mostly represented by *Carduelis carduelis* x *Serinus canarius* and *Serinus serinus* x *Serinus canarius*, created to reach new colorations and singing abilities, but also with the first known case of *Ara ararauna* x *Ara chloroptera*.

The collection is completely reported in Table 2 and in the following Figures, representing some of the more particular specimens.

Tab. 1 – Color morphs in specimens of the “Salvatore Lauricella” collection.

	normal	albino	leucistic	“isabelle”	“silver”	light colored	melanic	other morph	hybrid
Total	199	25	51	22	12	20	3	1	22
European	78	21	44	21	11	12	2	0	21
Exotic	72	4	1	1	1	6	1	0	0
Psittaciformes	49	0	6	0	0	2	0	1	1

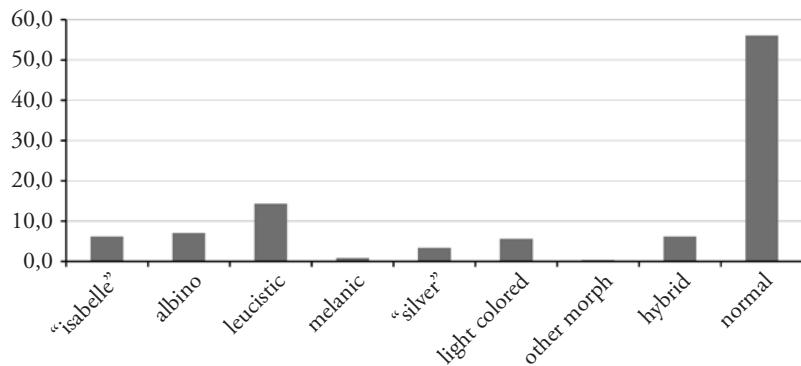


Fig. 1 – Percentage of individuals with normal or colors variation of plumages.

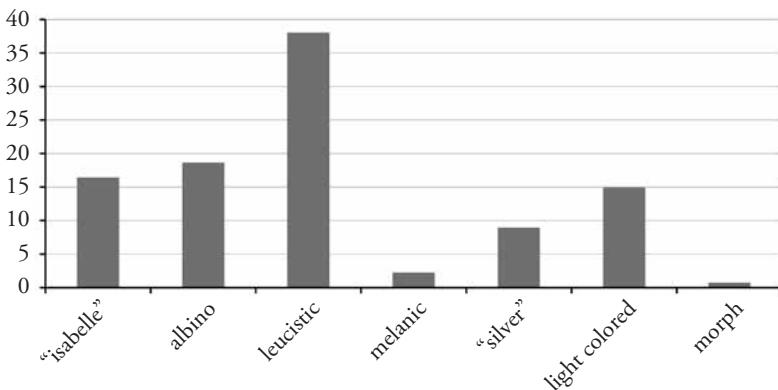


Fig. 2 – Percentages of different color morphs.

The “Salvatore Lauricella” collection represents the sentiment of its creator, with the research of the beauty in the nature and the feeling for the particularity of color deviation from the “normal” morph, to underline the curiosity that was the underlying theme of a lifetime.

Tab. 2 – The “Salvatore Lauricella” collection and color variation reported.

types	species	n.	from	locality
Exotic	<i>Aix sponsa</i>	2	self bred	Italia, Palermo, Villa d'Orleans
Exotic	<i>Anas bahamensis</i>	1	self bred	Italia, Palermo, Villa d'Orleans
Exotic	<i>Aphelocoma californica</i>	2	imported	Olanda
Exotic	<i>Aplonis magna</i>	1	imported	Olanda
Exotic	<i>Buteorides virescens</i>	1	imported	Germania
Exotic	<i>Calidpepla californica</i>	2	self bred	Italia, Palermo, Villa d'Orleans
Exotic	<i>Carduelis caniceps</i>	2	self bred	Italia, Palermo
Exotic	<i>Carduelis cucullata</i>	3	self bred	Italia, Palermo, Villa d'Orleans
Exotic	<i>Carduelis cucullata</i>	2	self bred	Italia, Palermo, Villa d'Orleans
Exotic	<i>Ceryle rudis</i>	2	imported	Olanda
Exotic	<i>Chloephaga picta</i>	1	self bred	Italia, Bologna
Exotic	<i>Chloropsis aurifrons</i>	1	imported	Olanda
Exotic	<i>Cissa chinensis</i>	2	imported	Olanda
Exotic	<i>Columbinus cruziana</i>	1	self bred	Italia, Roma
Exotic	<i>Cyanerpes cyaneus</i>	1	imported	Olanda
Exotic	<i>Ducula aenea</i>	2	imported	Olanda
Exotic	<i>Elatmus caeruleus</i>	1	imported	Germania
Exotic	<i>Eophona migratoria</i>	1	imported	Olanda
Exotic	<i>Erythrura gouldiae</i>	3	self bred	Italia, Palermo, Villa d'Orleans
Exotic	<i>Erythrura gouldiae</i>	6	self bred	Italia, Palermo, Villa d'Orleans
Exotic	<i>Estrilda caerulescens</i>	1	imported	Olanda
Exotic	<i>Estrilda erythronotus</i>	1	self bred	Italia, Palermo
Exotic	<i>Euplectes afer</i>	2	imported	Belgio
Exotic	<i>Euplectes hordeaceus</i>	1	imported	Belgio
Exotic	<i>Euplectes macrourus</i>	1	imported	Belgio

continued

types	species	n.	from	locality
Exotic	<i>Euplectes orix</i>	1	imported	Belgio
Exotic	<i>Excalidactoria chinensis</i>	2	self bred	Italia, Palermo, Villa d'Orleans
Exotic	<i>Garrulax monileger</i>	1	imported	Olanda
Exotic	<i>Graueria cristata</i>	1	self bred	Italia, Palermo, Villa d'Orleans
Exotic	<i>Icterus dominicensis</i>	1	imported	Olanda
Exotic	<i>Lamprotornis regius</i>	2	imported	Olanda
Exotic	<i>Leiothrix argentauris</i>	1	imported	Olanda
Exotic	<i>Lonchura striata domestica</i>	1	self bred	Italia, Palermo, Villa d'Orleans
Exotic	<i>Lophophorus impejanus</i>	1	self bred	Italia, Palermo, Villa d'Orleans
Exotic	<i>Melanerpes superciliaris</i>	1	imported	Olanda
Exotic	<i>Merops orientalis</i>	2	imported	Olanda
Exotic	<i>Mino anais</i>	1	imported	Germania
Exotic	<i>Mino Dumonii</i>	1	imported	Olanda
Exotic	<i>Neochmia ruficauda</i>	1	self bred	Italia, Palermo
Exotic	<i>Ocyphaps lophotes</i>	1	self bred	Italia, Palermo, Villa d'Orleans
Exotic	<i>Padda oryzivora</i>	1	self bred	Italia, Palermo, Villa d'Orleans
Exotic	<i>Paroaria dominicana</i>	1	self bred	Olanda
Exotic	<i>Passerina ciris</i>	2	self bred	Italia, Palermo, Villa d'Orleans
Exotic	<i>Polyborus plancus auduboni</i>	1	imported	Germania
Exotic	<i>Parisomus dalhousiae</i>	1	imported	Germania
Exotic	<i>Ramphastos sulfuratus</i>	1	imported	Germania
Exotic	<i>Spreo superbus</i>	1	imported	Germania
Exotic	<i>Sturnella loyca</i>	1	imported	Belgio
Exotic	<i>Sturnella neglecta</i>	2	imported	Belgio
Exotic	<i>Sturnus sinensis</i>	1	imported	Belgio

types	species	n.	from	locality
Exotic	<i>Taenopygia guttata castanotis</i>	1	imported	Olanda
Exotic	<i>Tauraco hartlaubi</i>	3	self bred	Italia, Palermo, Villa d'Orleans
Exotic	<i>Temenuchus pagodarum</i>	1	imported	Belgio
Exotic	<i>Teron calvus</i>	1	self bred	Italia, Palermo, Villa d'Orleans
Exotic	<i>Uragithrus cyanoccephalus</i>	2	self bred	Olanda
Exotic	<i>Urocolta erythroryncha</i>	1	imported	Olanda
Exotic	<i>Vanellus spinosus</i>	2	imported	Germania
Exotic	<i>Vidua fischeri</i>	1	imported	Olanda
Exotic	<i>Vidua paradisea</i>	1	imported	Olanda
European	<i>Accipiter nisus</i>	1	from wild	nord Italia
European	<i>Accipiter nisus</i>	1	from wild	nord Italia
European	<i>Alauda arvensis</i>	1	from wild	Italia, Romagna
European	<i>Alcedo atthis</i>	6	from wild	Italia, Sicilia
European	<i>Alectoris graeca</i>	2	self bred	Italia, Forlì
European	<i>Anas querquedula</i>	1	from wild	Italia, Sicilia
European	<i>Apus apus</i>	1	from wild	Italia, Veneto
European	<i>Athene noctua</i>	5	from wild	Italia
European	<i>Carduelis cannabina</i>	1	from wild	Italia
European	<i>Carduelis cannabina</i>	1	from wild	Italia, Sicilia
European	<i>Carduelis carduelis</i>	2	from wild	Italia, Sicilia
European	<i>Carduelis carduelis</i>	1	from wild	Italia, Sicilia
European	<i>Carduelis carduelis</i>	9	from wild	Italia, Sicilia
European	<i>Carduelis carduelis</i>	1	from wild	Italia, Sicilia
European	<i>Carduelis carduelis</i>	1	from wild	Italia, Sicilia
European	<i>Carduelis carduelis</i>	3	from wild	Italia, Sicilia

continued

types	species	n.	from	locality	
hybrid		1			
other morph					
melanic					
light colored					
"isabelle"					
"silver"					
leucistic					
albino					
normal					
European	<i>Carduelis carduelis</i> x <i>Serinus canarius</i>	19	self bred	Italia, Sicilia	
European	<i>Carduelis flammea</i>	1	from wild	nord Italia	1
European	<i>Carduelis spinus</i>	1	from wild	nord Italia	1
European	<i>Carpodacus erythrinus</i>	1	self bred	Italia Reggio Emilia	1
European	<i>Cinclus cinclus</i>	1	from wild	Italia - Toscana	
European	<i>Coccothraustes coccothraustes</i>	1	from wild	Italia, Sicilia	
European	<i>Coccothraustes coccothraustes</i>	2	from wild	Italia , Sicilia	1
European	<i>Coccothraustes coccothraustes</i>	1	from wild	Italia, Sicilia	1
European	<i>Conus garrulus</i>	1	from wild	Italia, Sicilia	1
European	<i>Coturnix coturnix</i>	2	self bred	Italia, Torino	
European	<i>Coturnix coturnix</i>	2	self bred	Italia, Torino	1
European	<i>Coturnix coturnix</i>	1	self bred	Italia, Torino	1
European	<i>Granites acerulus</i>	3	from wild	Italia	
European	<i>Delichon urbica</i>	1	from wild	Italia, Piemonte	1
European	<i>Dendrocopos minor</i>	1	from wild	Italia, Toscana	1
European	<i>Dendrocopos minor</i>	1	from wild	Italia	1
European	<i>Dendrocopos major</i>	2	from wild	Italia	
European	<i>Emberiza caesia</i>	1	from wild	Italia	1
European	<i>Emberiza caesia</i>	1	from wild	Italia	1
European	<i>Emberiza citrinella</i>	1	from wild	Italia	1
European	<i>Erythacus rubecula</i>	2	from wild	Italia, Romagna	1
European	<i>Falco subbuteo</i>	1	from wild	Italia, Toscana	1
European	<i>Falco tinnunculus</i>	1	from wild	Italia, Sicilia	1
European	<i>Ficedula hypoleuca</i>	1	from wild	Italia	
European	<i>Ficedula hypoleuca</i>	2	from wild	Italia, Romagna	1
European	<i>Fringilla coelebs</i>				

types	species	n.	from	locality
European	<i>Fringilla celebs</i>	2	from wild	Italia
European	<i>Fringilla montifringilla</i>	1	from wild	Italia, Emilia
European	<i>Fringilla montifringilla</i>	1	from wild	Italia, Emilia
European	<i>Galerida cristata</i>	2	from wild	Italia, Emilia
European	<i>Garrulus glandarius</i>	1	from wild	Italia, Emilia
European	<i>Himationopas himantopus</i>	1	self bred	Italia, Veneto
European	<i>Hirundo rustica</i>	3	from wild	Italia, Emilia
European	<i>Hirundo rustica</i>	1	from wild	Italia, Emilia
European	<i>Lagopus mutus</i>	2	from wild	Nord Italia
European	<i>Lanius collaris</i>	1	from wild	Nord Italia
European	<i>Luscinia luscinia</i>	1	from wild	Italia, Emilia
European	<i>Luscinia svecica</i>	3	from wild	Italia
European	<i>Merops apiaster</i>	6	from wild	Italia, Sicilia
European	<i>Moracilla alba</i>	2	from wild	Italia, Sicilia
European	<i>Moracilla alba</i>	1	from wild	Italia, Sicilia
European	<i>Motacilla alba</i>	1	from wild	Italia, Sicilia
European	<i>Netta rufina</i>	1	self bred	Italia, Palermo, Villa d'Orleans
European	<i>Nycticorax nycticorax</i>	1	from wild	Italia, Sicilia
European	<i>Oriolus oriolus</i>	5	from wild	Italia, Sicilia
European	<i>Panurus biarmicus</i>	1	from wild	Italia
European	<i>Parus cristatus</i>	1	from wild	Italia
European	<i>Parus major</i>	4	from wild	Italia
European	<i>Passer domesticus</i>	2	from wild	Italia, Sicilia
European	<i>Passer domesticus</i>	3	from wild	Italia, Emilia
European	<i>Passer domesticus</i>	3	from wild	Italia, Emilia, Sicilia

continued

types	species	n.	from	locality	
European	<i>Passer domesticus</i>	1	from wild	Italia, Sicilia	1
European	<i>Passer montanus</i>	3	from wild	Italia, Emilia	1
European	<i>Peronnia petronia</i>	1	from wild	Italia, Emilia	1
European	<i>Phasianus colchicus mongolicus</i>	1	self bred	Italia, Palermo, Villa d'Orleans	1
European	<i>Phasianus colchicus mongolicus</i>	1	self bred	Italia, Palermo, Villa d'Orleans	1
European	<i>Phainopepla pugnax</i>	1	from wild	Italia	1
European	<i>Phainopepla pugnax</i>	2	from wild	Italia	1
European	<i>Phoenicurus phoenicurus</i>	2	from wild	Italia	1
European	<i>Phylloscopus collybita</i>	1	from wild	Italia, Emilia	1
European	<i>Pica pica</i>	1	from wild	Italia, Sicilia	1
European	<i>Picus viridis</i>	3	from wild	Italia, Toscana	1
European	<i>Plectrophenax nivalis</i>	3	from wild	Italia	1
European	<i>Porphyrio alleni</i>	1	from wild	Italia, Sicilia, Ragusa	1
European	<i>Pyrhaonax pyrrhaonax</i>	2	from wild	Italia, Sicilia, Palermo	1
European	<i>Rallus aquaticus</i>	1	from wild	Italia, Sicilia	1
European	<i>Regulus regulus</i>	1	from wild	Italia	1
European	<i>Rhodopechys githagineus</i>	1	self bred	Italia, Firenze	1
European	<i>Saxicola torquata</i>	1	from wild	Italia, Emilia	1
European	<i>Serinus citrinella</i>	1	self bred	Italia, Firenze	1
European	<i>Serinus citrinella</i>	2	self bred	Italia, Firenze	1
European	<i>Serinus pusillus</i>	3	self bred	Italia, Firenze	1
European	<i>Serinus serinus x Serinus canarius</i>	2	self bred	Italia, Sicilia	1
European	<i>Sitta europaea</i>	2	from wild	Italia, Calabria	2
European	<i>Streptopelia risoria</i>	1	self bred	Italia, Palermo, Villa d'Orleans	1
European	<i>Sturnus vulgaris</i>	1	from wild	Italia, Emilia	1

types	species	n.	from	locality
European	<i>Sturnus vulgaris</i>	3	from wild	Italia, Emilia
European	<i>Sturnus vulgaris</i>	6	from wild	Italia, Emilia
European	<i>Tringa ochropus</i>	1	from wild	Italia, Sicilia, Palermo
European	<i>Turdus iliacus</i>	1	from wild	Italia, Emilia
European	<i>Turdus merula</i>	3	from wild	Italia, Sicilia
European	<i>Turdus merula</i>	8	from wild	Italia, Emilia
European	<i>Turdus philomelos</i>	1	from wild	Italia, Emilia
European	<i>Turdus philomelos</i>	1	from wild	Italia, Emilia
European	<i>Turdus philomelos</i>	2	from wild	Italia, Emilia
European	<i>Upupa epops</i>	3	from wild	Italia, Sicilia
Psittaciformes	<i>Agapornis fischeri</i>	2	self bred	Italia, Palermo, Villa d'Orleans
Psittaciformes	<i>Agapornis roseicollis</i>	2	self bred	Italia, Palermo, Villa d'Orleans
Psittaciformes	<i>Agapornis cana</i>	1	self bred	Italia, Palermo, Villa d'Orleans
Psittaciformes	<i>Agapornis fischeri</i>	1	self bred	Italia, Palermo, Villa d'Orleans
Psittaciformes	<i>Agapornis personatus</i>	1	self bred	Italia, Palermo, Villa d'Orleans
Psittaciformes	<i>Amazona aestiva</i>	2	self bred	Olanda
Psittaciformes	<i>Amazona aestiva</i>	1	self bred	Italia, Palermo, Villa d'Orleans
Psittaciformes	<i>Amazona amazonica</i>	2	self bred	Italia, Palermo, Villa d'Orleans
Psittaciformes	<i>Amazona autumnalis</i>	1	self bred	Italia, Palermo, Villa d'Orleans
Psittaciformes	<i>Amazona autumnalis lilacea</i>	2	self bred	Olanda
Psittaciformes	<i>Amazona farinosa</i>	1	self bred	Belgio
Psittaciformes	<i>Aprosmicrus erythropterus</i>	1	self bred	Olanda
Psittaciformes	<i>Ara ararauna</i>	1	self bred	Italia, Palermo, Villa d'Orleans
Psittaciformes	<i>Ara ararauna x Ara chloroptera</i>	1	self bred	Italia, Palermo, Villa d'Orleans
Psittaciformes	<i>Brotogeris Pyrrhopterus</i>	1	self bred	Belgio
Psittaciformes	<i>Chalcopsitta atrata</i>	1	self bred	Italia, Palermo, Villa d'Orleans

continued

types	species	n.	from	locality
hybrid				
other morph				
melanic				
light colored				
“isabelle”				
“silver”				
leucistic				
albino				
normal				
Psiacciformes <i>Chalcopsitta diuvenbodei</i>	2	self bred	Belgio	1
Psiacciformes <i>Chalcopsitta scintillata</i>	1	self bred	Olanda	1
Psiacciformes <i>Chalcopsitta scintillata</i>	1	self bred	Italia, Palermo, Villa d'Orleans	1
Psiacciformes <i>Dominella garnula</i>	2	self bred	Olanda	1
Psiacciformes <i>Eclectus matus</i>	3	self bred	Olanda	1
Psiacciformes <i>Eos reticulata</i>	1	self bred	Italia, Palermo, Villa d'Orleans	1
Psiacciformes <i>Lori papua</i>	1	self bred	Olanda	1
Psiacciformes <i>Loriculus vernalis</i>	3	self bred	Belgio	1
Psiacciformes <i>Neophema splendida</i>	2	self bred	Italia, Palermo, Villa d'Orleans	1
Psiacciformes <i>Neopsophus bourkii</i>	1	self bred	Italia, Palermo, Villa d'Orleans	1
Psiacciformes <i>Nymphicus hollandicus</i>	4	self bred	Italia, Palermo, Villa d'Orleans	1
Psiacciformes <i>Pionus maximiliani</i>	1	self bred	Belgio	1
Psiacciformes <i>Pionus menstruus</i>	1	self bred	Belgio	1
Psiacciformes <i>Platycercus elegans</i>	1	self bred	Italia, Palermo, Villa d'Orleans	1
Psiacciformes <i>Platycercus eximius</i>	1	self bred	Italia, Palermo, Villa d'Orleans	1
Psiacciformes <i>Platycercus icterotis</i>	1	self bred	Italia, Palermo, Villa d'Orleans	1
Psiacciformes <i>Polytelis alexandriae</i>	3	self bred	Italia, Palermo, Villa d'Orleans	1
Psiacciformes <i>Polytelis alexandriae</i>	1	self bred	Italia, Palermo, Villa d'Orleans	1
Psiacciformes <i>Polytelis swainsonii</i>	1	self bred	Italia, Palermo, Villa d'Orleans	1
Psiacciformes <i>Pseudeos fuscata</i>	4	self bred	Italia, Palermo, Villa d'Orleans	1
Psiacciformes <i>Pitta cincta alexandri</i>	1	self bred	Italia, Palermo, Villa d'Orleans	1
Psiacciformes <i>Pitta cincta kranneri</i>	2	self bred	Italia, Palermo, Villa d'Orleans	1
Psiacciformes <i>Pitta caeruleostris eduardii</i>	3	self bred	Belgio	1
Psiacciformes <i>Pitta tenuirostris goldiei</i>	1	self bred	Belgio	1
Psiacciformes <i>Trichoglossus haematocephalus mitchelli</i>	1	self bred	Belgio	1



Fig. 3 – Salvatore Lauricella in 1943.

Fig. 4 – Salvatore Lauricella with Alessandro Ghigi in 1956.





Fig. 5 – Villa d'Orleans inauguration in 1953.

Fig. 7 – One of the aviary in the park today.



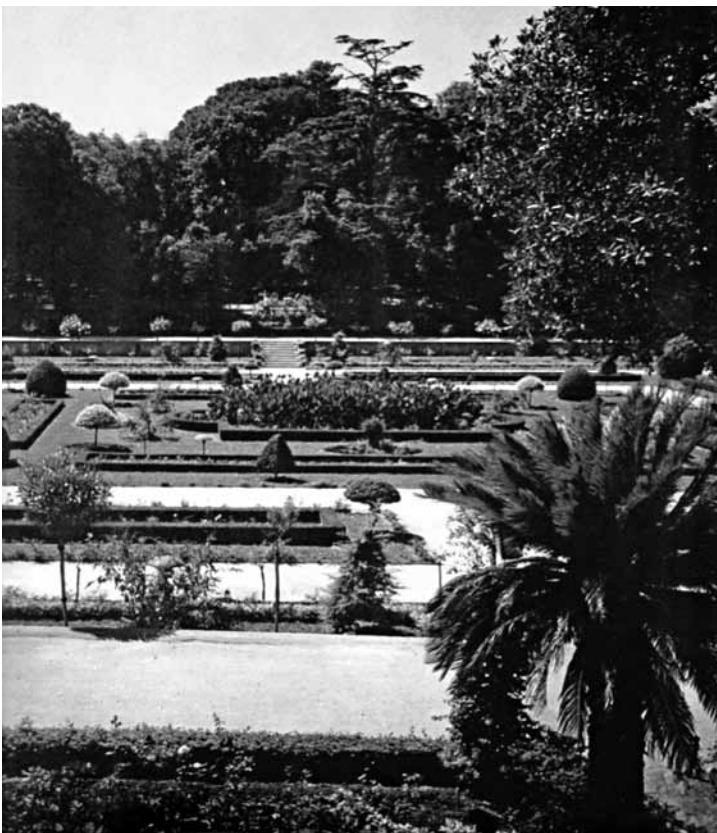


Fig. 6 – The Villa's Gardens.

RIASSUNTO

Le variazioni di colore negli uccelli della collezione ornitologica “Salvatore Lauricella” a Palermo

Salvatore Lauricella (Palermo 9 gennaio 1918 - Palermo 14 dicembre 2010) fu un importante allevatore e ornitofilo che ha collezionato un ampio numero di variazioni di colore tra gli uccelli europei o tra quelli esotici e gli Psittaciformes che ha allevato. La collezione è ricca di 355 esemplari: 73 specie e 205 esemplari della fauna europea, 57 specie and 86 esemplari di esotici e 37 specie e 64 esemplari Psitaciformi. Il 44% degli uccelli presenta variazioni di colore tra cui principalmente quelle leucistiche e albine.

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Collection' samples



Alcedo atthis



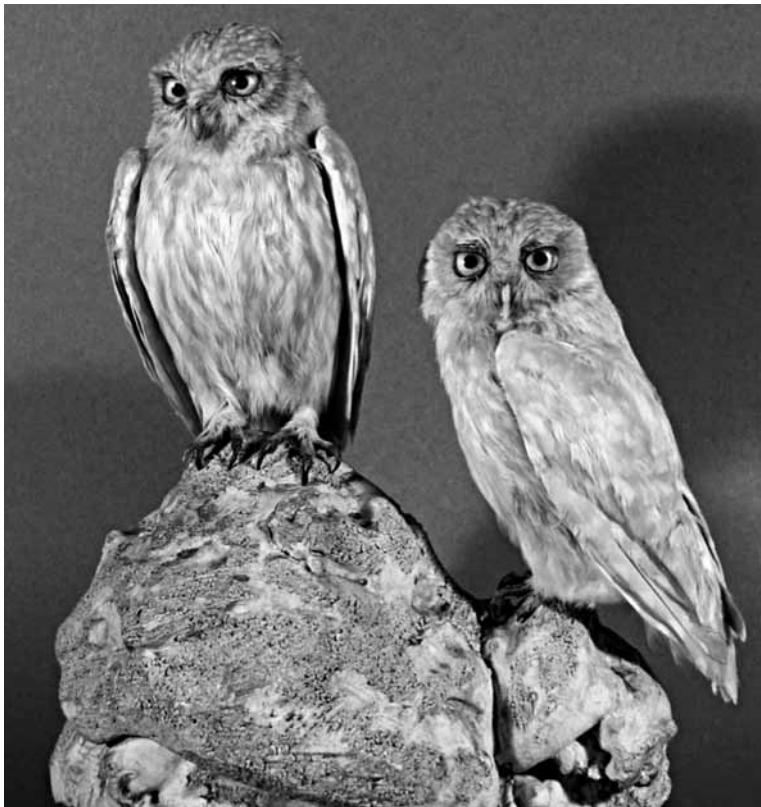
Albino *Apus melba*



Leucistic *Ara ararauna*



Leucistic *Coccothraustes coccothraustes*



Leucistic *Athene noctua*



Leucistic *Delichon urbica*



Dendrocopos minor



Elanus caeruleus



Albinos *Erithacus rubecula*

Albinos
Hirundo rustica



Icterus dominicensis



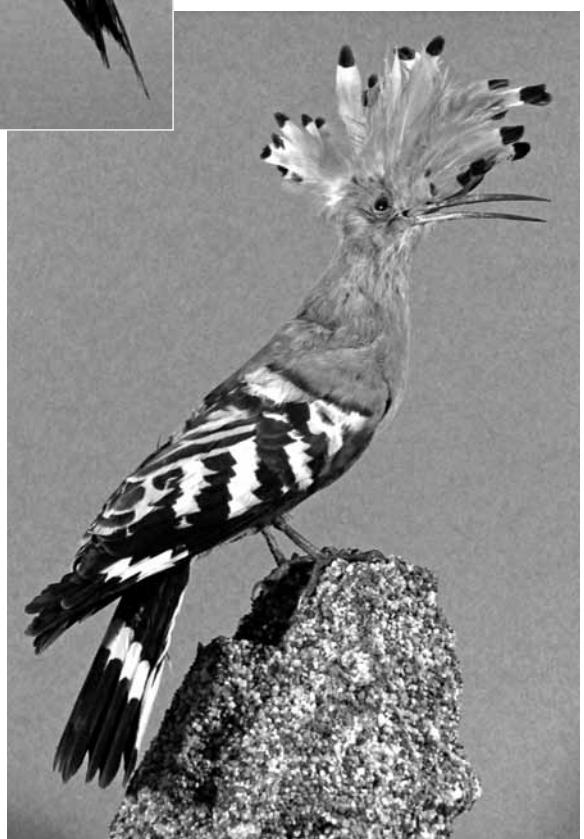


Albinos *Turdus merula*



Oriolus oriolus

Psittaculirostris edwardsii



Leucistic *Upupa epops*



Vidua fischeri