

# CONSERVATION PROGRAM THROUGH EX-SITU CAPTIVE BREEDING OF PRIMATES AT IPB PRIMATE RESEARCH CENTER



Entang Iskandar  
Universitas Sebelas Maret  
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## Team:

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## Background

### Habitat destructions:

- Between 2000-2005: 2% of the total forest area in Indonesia (1.87 millions hectares each year)



### Threatened Species

#Scientific Name

1. Haplorhina

2. Cercopithecoidea

3. Platyrrhini

4. Strepsirrhini

5. Insectivora

6. Marsupialia

7. Eulipotyphla

8. Chiroptera

9. Rodentia

10. Lagomorpha

11. Sauria

12. Anura

13. Reptalia

14. Aves

15. Mammalia

16. Carnivora

17. Insectivora

18. Marsupialia

19. Eulipotyphla

20. Chiroptera

21. Rodentia

22. Lagomorpha

23. Sauria

24. Anura

25. Reptalia

26. Aves

27. Mammalia

28. Carnivora

29. Insectivora

30. Marsupialia

31. Eulipotyphla

32. Chiroptera

33. Rodentia

34. Lagomorpha

35. Sauria

36. Anura

37. Reptalia

38. Aves

39. Mammalia

40. Carnivora

41. Insectivora

42. Marsupialia

43. Eulipotyphla

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49. Reptalia

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52. Carnivora

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54. Marsupialia

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249. Rodentia

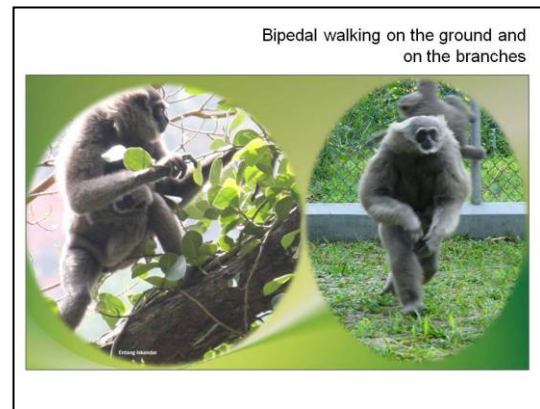
250. Lagomorpha

251. Sauria

252. Anura


253. Reptalia

254. Aves



### The Parents

On 20 January 2003, one pair of adult Javan gibbon was introduced to the primate center



**Ari**

Male  
~ 15 Yrs old; 6.8 kg



**Mimis**

Female  
~ 7 Yrs old; 7.5 kg

### Enclosure system

- 2 compartments cage

Each compartment quipped with environmental enrichment (wooden nesting cage, tree, wooden branch, resting perches, metal swings)

The 2 compartments are connected with corridor and equipped with sliding door at both sides

Paving block floor allowin grass to grow in the ground



### Diet

- Fresh fruit
- Fresh vegetables
- Water (*ad-libitum*)
- Monkey chow




### Pairing the Gibbons

Prior to pairing, intensive behavior observation was conducted to observe their interaction from separated cages (no physical contact, but vision & voice contact only)

June 2004, one connecting door was opened allowing Ari & Mimis to have limited physical contact. They both showed positive responses

July 2004, another transfer door was opened allowing them to occupy one (common) cage and could have physical contact

Behavior observation showed no agonistic behavior & positive sign on reproductive behavior



### 1<sup>st</sup> Offspring


Mid October 2004, first signs of Mimis' pregnancy

November 2004, USG & palpation were conducted and indicated a pregnancy of about 30 days

A male baby Javan gibbon was born on April 5, 2005 after a pregnancy of about 7 months

OJ  
(Owa Jawa)

Weight: 0.5 kg (3 weeks after he was born)







**2<sup>nd</sup> Offspring**

A little more than one year later  
(June 11, 2006)

Birth interval: 14 months  
(shortest birth interval has been recorded)

Weight: 0.5 kg (1 month after she was born)

J-Lo



**3<sup>rd</sup> Offspring**

One and a half year later  
(Dec 31, 2007)

OLA

**4<sup>th</sup> Offspring**

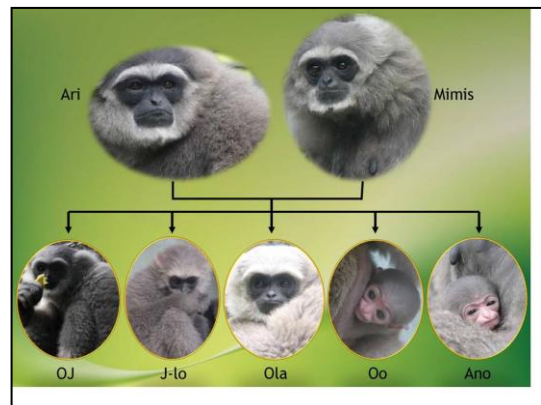
Two years later  
(Dec 1, 2009)


Oo

**5<sup>th</sup> Offspring**

19 months later  
(July 11, 2011)

ANO





To support conservation through captive breeding


➔ **Biomedical Research**

In cooperation with Perum Perhutani in using Tinjil Island as Semi Natural Habitat Breeding Facility for Long-tailed macaques

### Natural Habitat Breeding of Long-tailed Macaques



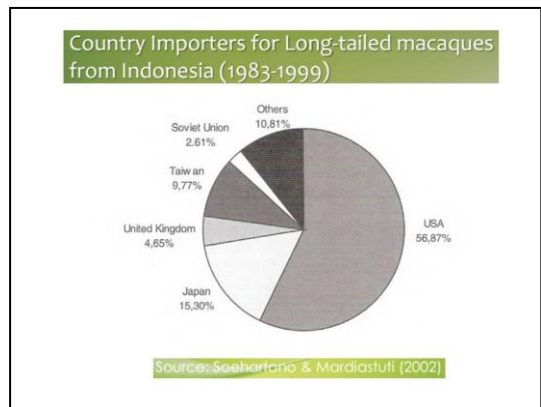
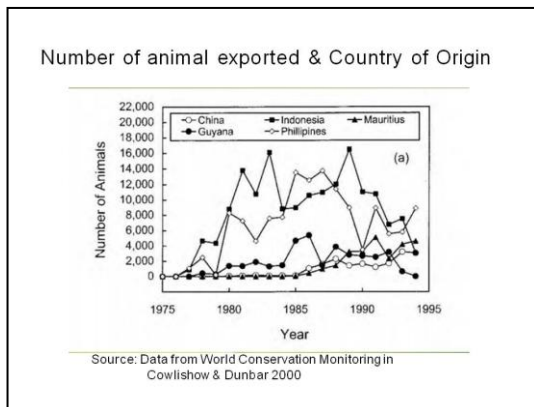
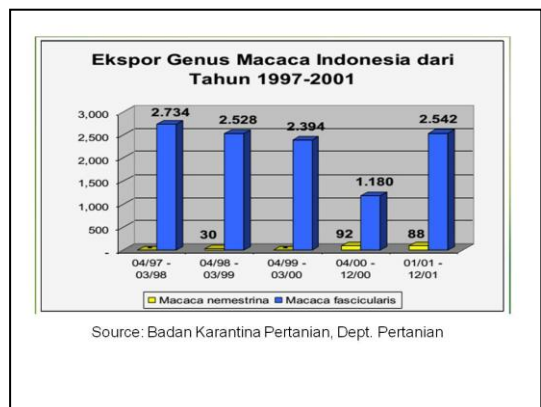

### Background



Animal model needs is increasing


Beginning 1994, government stopped primate use from wild caught

➔ **Ex-situ captive breeding of *Macaca fascicularis***





Gray to reddish brown fur with lighter underparts

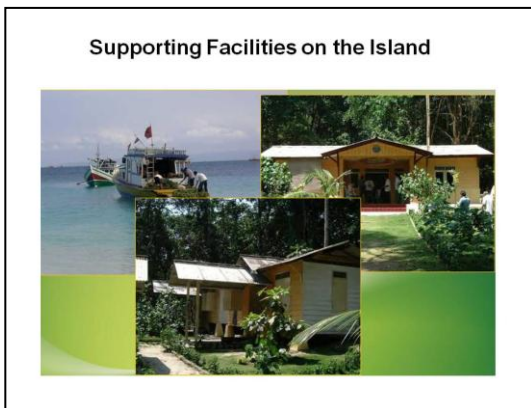
Body weight: 3.6-7.0 kg  
Head and body length: 39-57.5 cm



- Multimale-Multifemale group
- Quadrupedal moving







**Breeders Released**

| No. | Release Date      | Male      | Female     | Total      |
|-----|-------------------|-----------|------------|------------|
| 1.  | 21 February 1988  | 1         | 50         | 51         |
| 2.  | 29 April 1988     | 5         | 10         | 15         |
| 3.  | 10 July 1988      | 2         | 11         | 13         |
| 4.  | 26 July 1988      | 7         | 51         | 58         |
| 5.  | 28 September 1988 | 0         | 10         | 10         |
| 6.  | 14 March 1989     | 13        | 53         | 66         |
| 7.  | 26 April 1989     | 1         | 47         | 48         |
| 8.  | 21 October 1989   | 29        | 96         | 125        |
| 9.  | 26 June 1990      | 0         | 89         | 89         |
| 10. | 4 June 1991       | 0         | 3          | 3          |
| 11. | 5 September 1994  | 0         | 42         | 42         |
| 12. | 20 May 2006       | 3         | 32         | 35         |
| 13. | 5 January 2007    | 0         | 48         | 48         |
|     | <b>Total</b>      | <b>61</b> | <b>542</b> | <b>603</b> |

