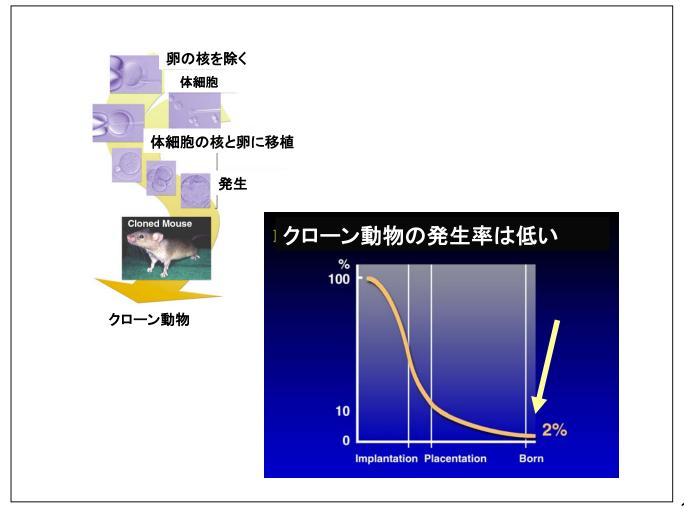
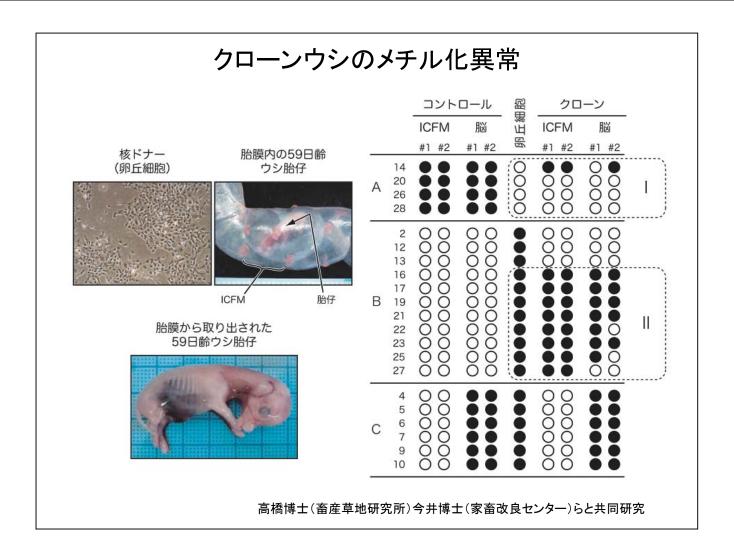
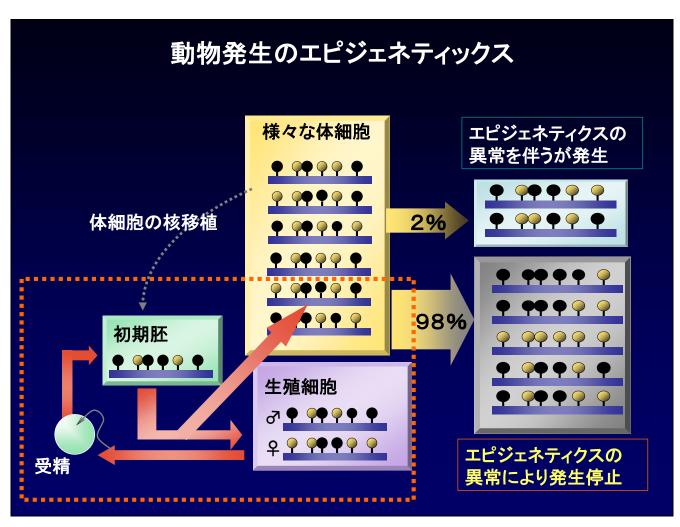
クローン動物で発見されたDNAメチル化異常のイメー 18 00000000 23 0 0 0 0 0 0 0 26 0000000000 27 0000000000 29 0000000000 34 0000000 46 00000000 14 0 0 0 0 0 0 0 19 0000 • 0000 35 00000000 37 00 • • 00 • 000 43 000 000 000 15 0000000000 16 000 000 000 21 0 • • • • • • • • * 00000000000 9 0000 • 00000 11 0 • • 0 0 • • 0 • 0 12 0 • 0 • 0 0 • 0 0 0 •00•0•0•0 •••00•0•00 • 0 • • • • 0 • 0 • • 0 • 0 0 • • • 0 • • 0 • 0 0 • 0 • • 51 0 0 0 0 0 0 0 0 53 00 00 00 000 54 • • • • • • • • • • • 55 00 00 00 000 57 0 • 0 • 0 0 • 0 • 0 58 0000000 59 • • • • • • • • 61 00000000000 63 • • • • • • • • • ₩ 0000000000 70 • • • • • • • • 72 000000000 73 000 000000 74 0 0 0 0 0 0 0 75 0 0 0 0 0 125 0 0 0 0 0 77 • • • • • • • • • • 78 000000000 81 000000000 85 0000 00000 88 • • • • • • • • • • 94 0 0 0 0 0 0 0 0 900€0000000 71 • • • • • • • • • • 0 • • • • • • 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 14-00-00-000 0 0 0 0 0 0 149 000000000 0 0 • • • • • 197 198 • • • • • • • • • • • • • • • •00••0••00 ••••••• •••••• •••••• 0 0 0 0 0 0 0 0 0 0 0 0 28: 0 0 0 0 • • • • • • • • 0 0 0 0 <u>244</u>







クローンマウスのゲノムワイドDNAメチル化解析 クローンのクローンおよび加齢変化

Clone	Group A	Group B	Group C	
original cell donor	B6C3F1우 (natural mating)	B6C3F1우 (natural mating, 16 months)	B6C3F1우 (natural mating)	
1st generation	Nb1우 Nb2우 (new born) (new born)	Ad1-1 우 (11 months)	B1-1우 (27 months)	
2nd generation		Ad2-1 Ad2-2 Ad2-2 (8 months)	B2-1 P B2-2 P (25 months) (25 months)	
3rd generation			B3-1우 (23 months)	
Control	Group A (#1, 2)	Group B (#3 - 6)	Group C (#7 - 9)	
	B6C3F1우 (IVF, new born)	B6C3F1우 (natural mating, 5 months)	B6C3F1우 (natural mating, 26 months)	

	Spot #1	Spot #2	Spot #3	Spot #4	<u> と加齢変化</u> Other ~2,000 spots
Group A (New born)	•	•	•	•	
対照 Control 1 Control 2	++	-	+	++	+ +
Control 2				'	,
クローン Clone Nb1 Clone Nb2	(-)	+	+	++	+ +
Group B (8 - 11 month)					
Control 3 Control 4	-	_	+	+	+
対照 Control 4 Control 5		_	+ +	+	+
Control 6	$\sim \lambda^{-}/$	=	+	+	+
Control o	** ** *	_	+	Т	Τ
Clone Ad1-1	_	_	+	/ <u>*</u> *	+
クローン Clone Ad2-1	_	_	+	√.	+
Clone Ad2-2	-	-	+	+	+
Group C (23 - 27 month	1)				
Control 7	-	=	+	+	+
対照 Control 8	_	_	+	+	+
Control 9	-	-	+	+	+
Clone B1-1	-	_	+	+	+
クローン Clone B2-1	-	=	+	+	+
Clone B2-2	_	_	+	+	+
Clone B3-1	_	-	+	+	+
+: Spot detected					
-: Spot detected					

クローンマウスのゲノムワイドDNAメチル化解析

Table 3. Numbers of aberrant spots in cloned mice detected by RLGS.

	Unmethylated	Methylated	<u>Total</u>
B6D2F1 (Ohgane et al. 2001) Placenta (newborn) ^a	0	2	2
Skin (newborn) ^a	1	3 1	$\begin{bmatrix} 3 \\ 2 \end{bmatrix}$
B6C3F1 (Present study) Kidney (newborn) ^a (5 - 11 months old) ^b (23 - 27 months old) ^c	1 0 0	2 1 0	3 1 0

a: n = 2, b: n = 3, c: n = 4

- 1. エピジェネティクスとは
- 2. 生殖と個体の発生
- 3. クローン動物の エピジェネティクス
- 4. まとめ