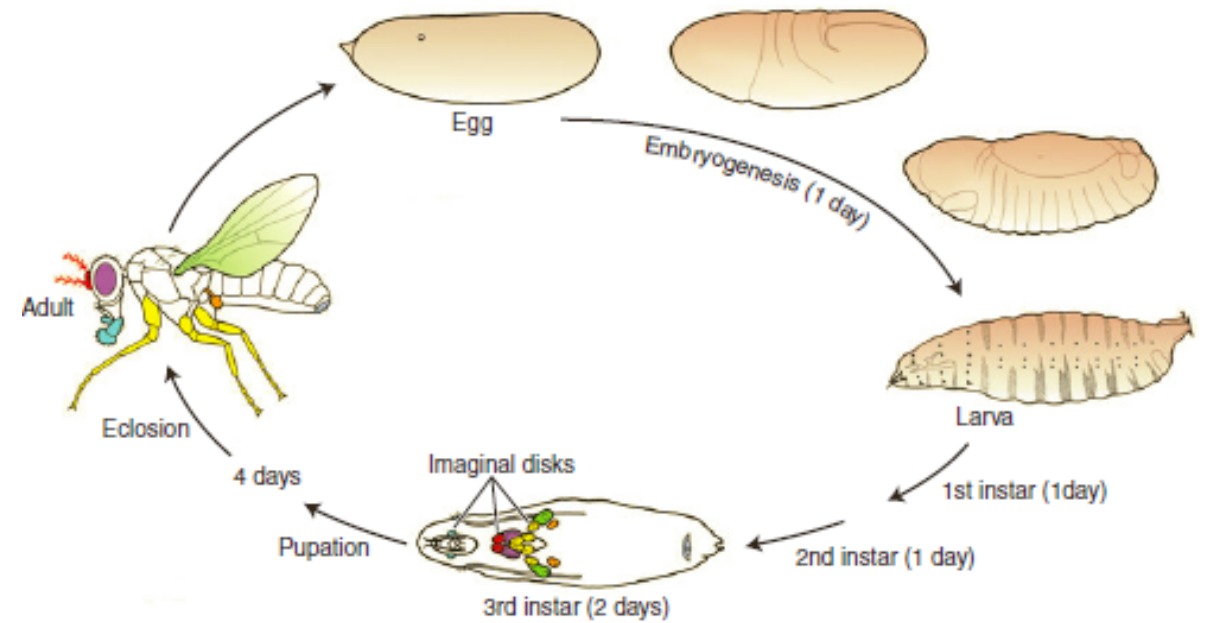
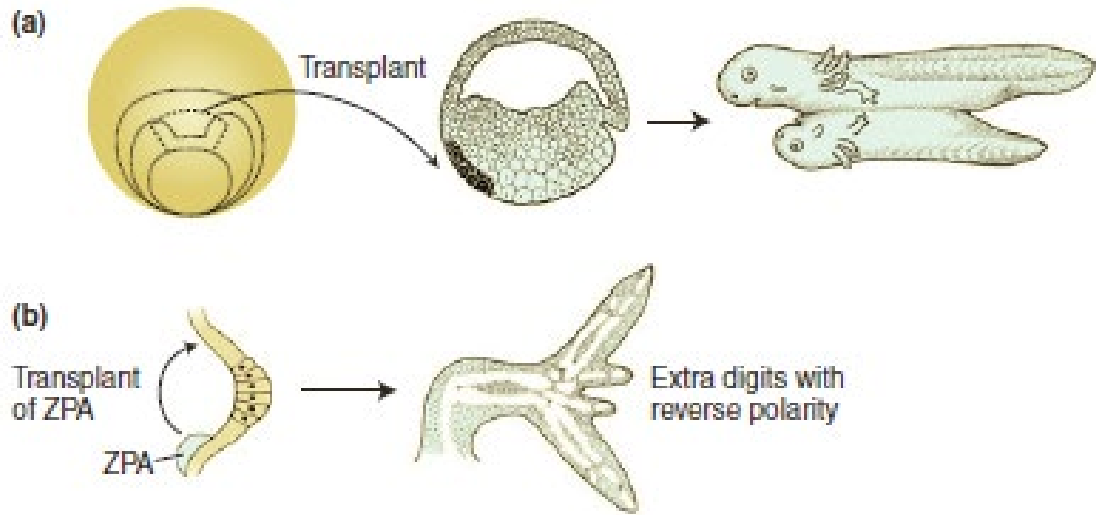
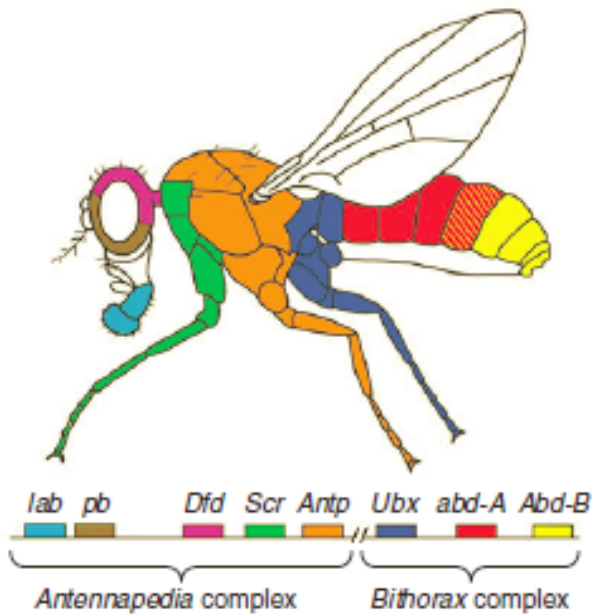


13. Gelişimin Genetik Kontrolü



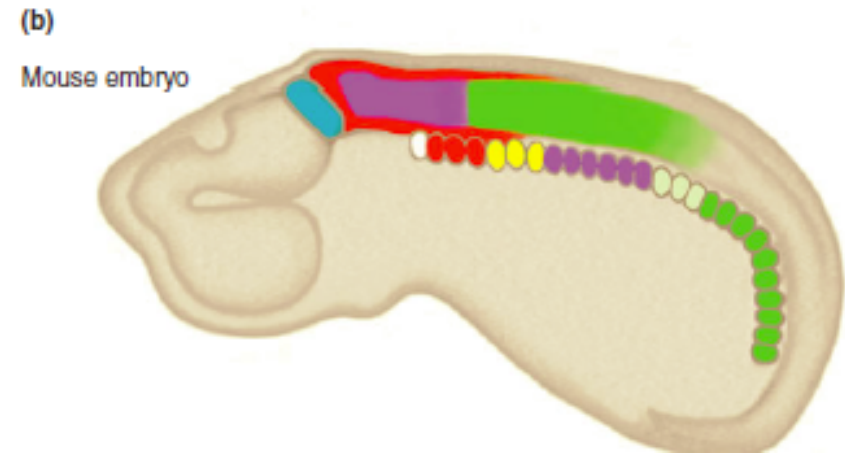


<i>lab</i>	NNSGRTNFTNKQLTELEKEFHFNRYLTRARRIEIANLQLNETQVKIWFQNRMRKQKKRV
<i>pb</i>	PRRLRTAYTNTQLLELEKEFHFNRYLTPRRRIEIAASLDLTERQVKVWFQNRMRKHKRQT
<i>Dfd</i>	PKRQRTAYTRHQILELEKEFHFNRYLTRRRRIEIAHTLVLSERQIKIWFQNRMRKWKKDN
<i>Scr</i>	TKRQRTSYTRYQTLELEKEFHFNRYLTRRRRIEIAHALCLTERQIKIWFQNRMRKWKKEH
<i>Antp</i>	RKRGRQTYTRYQTLELEKEFHFNRYLTRRRRIEIAHALCLTERQIKIWFQNRMRKWKKEN
<i>Ubx</i>	RRRGRQTYTRYQTLELEKEFHFNRYLTRRRRIEMAHALCLTERQIKIWFQNRMRKLLKKEI
<i>abd-A</i>	RRRGRQTYTRFQTLELEKEFHFNRYLTRRRRIEIAHALCLTERQIKIWFQNRMRKLLKKEI
<i>abd-B</i>	VRKKRKPYSKFQTLELEKEFLFNAYVSKQKRWELARNLQLTERQVKIWFQNRMRKKNKNS

Consensus sequence -RRGRT-YTR-QTLELEKEFHFNRYLTRRRRIEIAHALCLTERQIKIWFQNRMRK-KKE-

Helix 1
Helix 2
Helix 3

Fly <i>Dfd</i>	PKRQRTAYTRHQILELEKEFHYNRYLTRRRRLEIAHTLVLSERQIKIWFQNRMRMKWKKDN	KLPNTKIVR
Amphibian <i>Hox4</i>	TKRSRTAYTRQQVLELEKEKPHNRYLTRRRRLEIAHSLGLTERQIKIWFQNRMRMKWKKDN	RLPNTKIVR
Mouse <i>HoxB4</i>	PKRSRTAYTRQQVLELEKEKPHNRYLTRRRRVEIAHALCLSERQIKIWFQNRMRMKWKKDH	KLPNTKIVR
Human <i>HoxB4</i>	PKRSRTAYTRQQVLELEKEKPHNRYLTRRRRVEIAHALCLSERQIKIWFQNRMRMKWKKDH	KLPNTKIVR
Chick <i>HoxB4</i>	PKRSRTAYTRQQVLELEKEKPHNRYLTRRRRVEIAHSLCLSERQIKIWFQNRMRMKWKKDH	KLPNTKIVR
Frog <i>HoxB4</i>	AKRSRTAYTRQQVLELEKEKPHNRYLTRRRRVEIAHTLRLSERQIKIWFQNRMRMKWKKDH	KLPNTKIVR
Fugu <i>HoxB4</i>	PKRSRTAYTRQQVLELEKEKPHNRYLTRRRRVEIAHTLCLSERQIKIWFQNRMRMKWKKDH	KLPNTKIVR
Zebrafish <i>HoxB4</i>	AKRSRTAYTRQQVLELEKEKPHNRYLTRRRRVEIAHTLRLSERQIKIWFQNRMRMKWKKDH	KLPNTKIVR

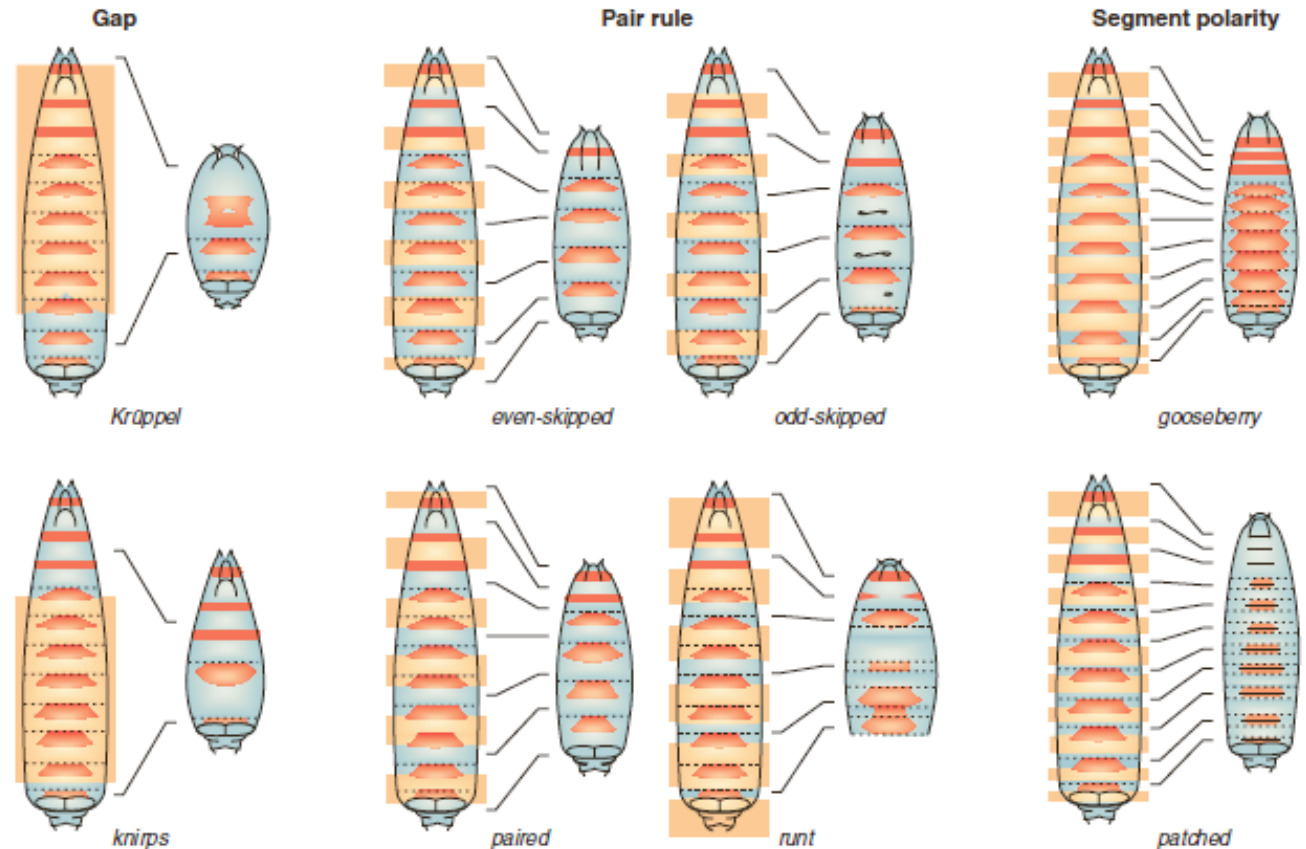


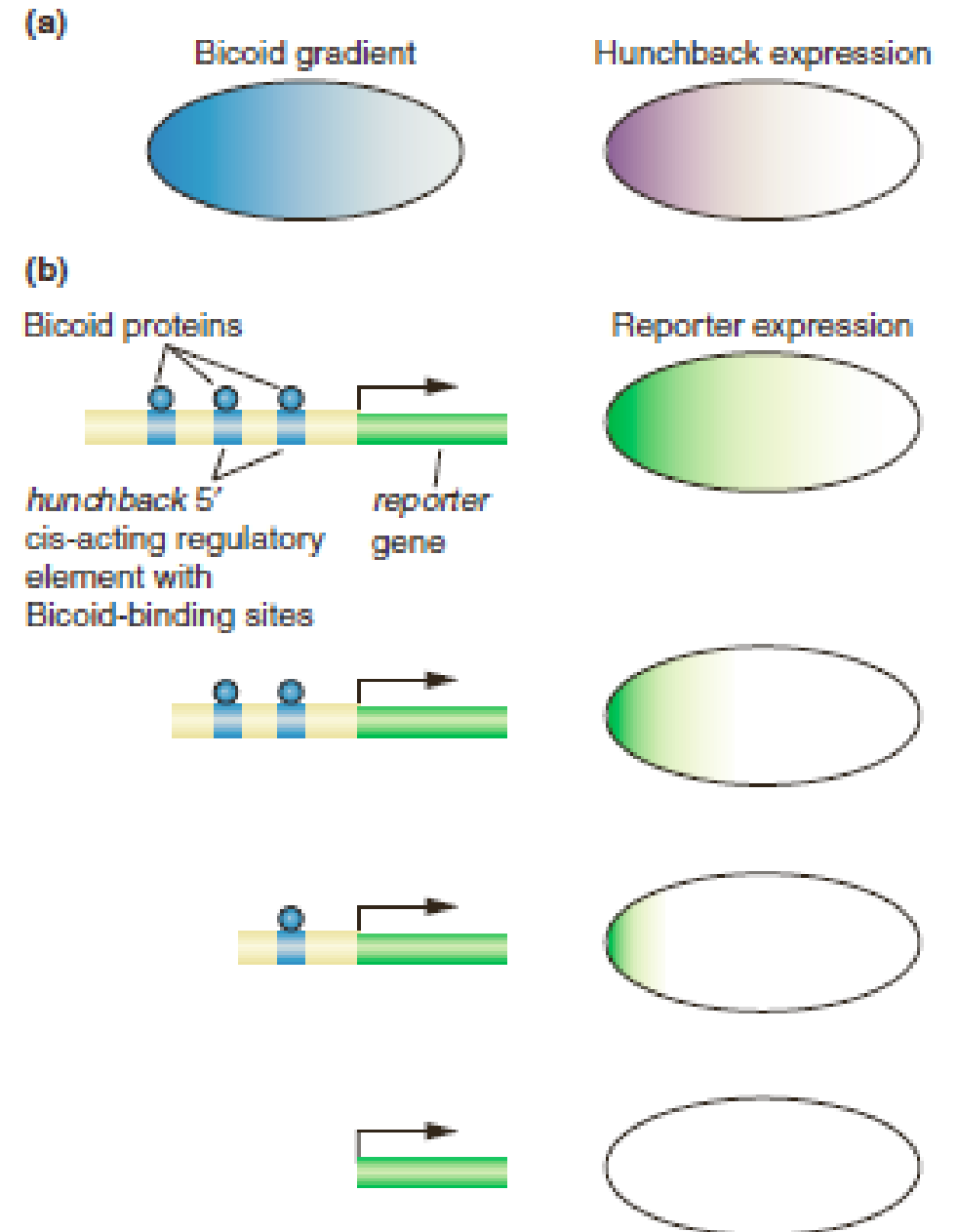
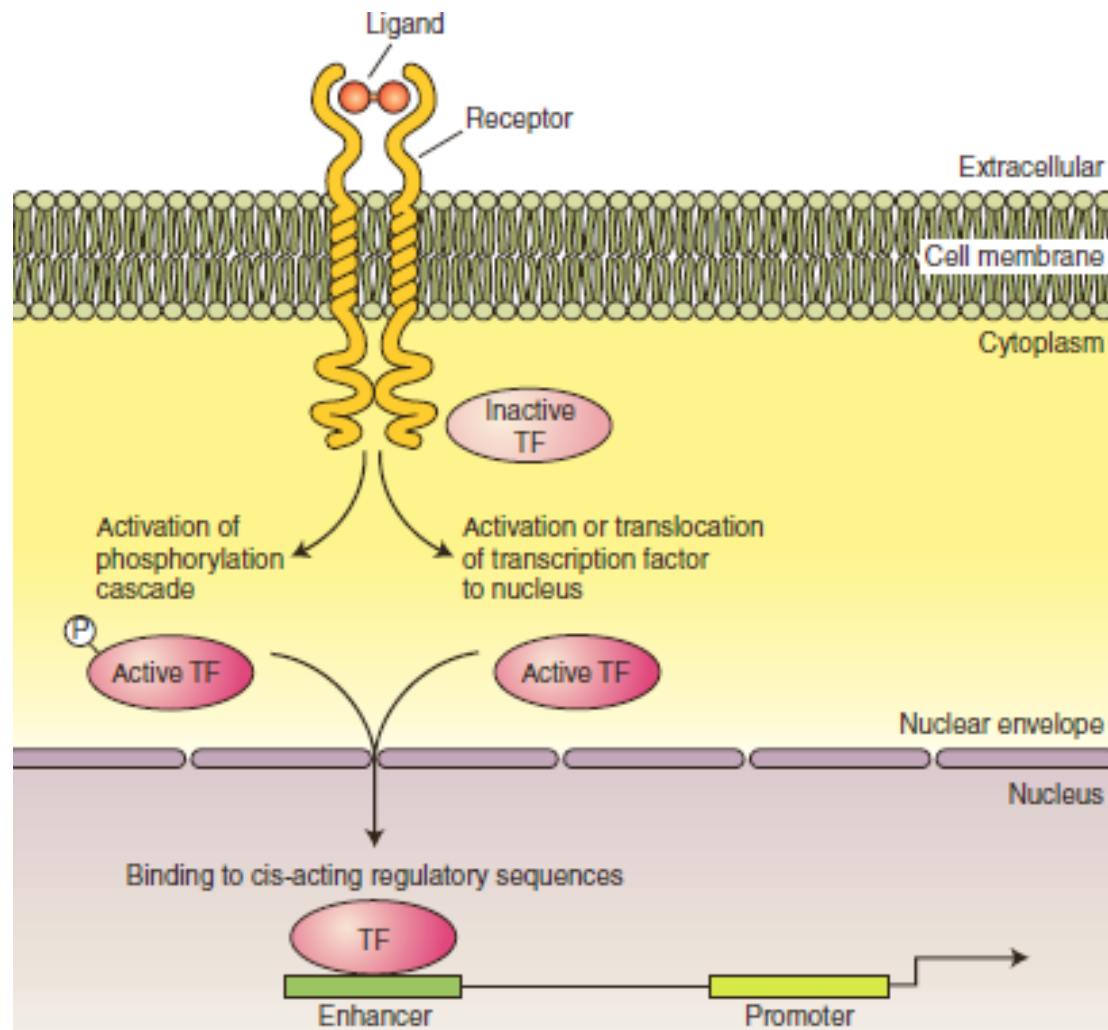
MATERNALLY REQUIRED GENES

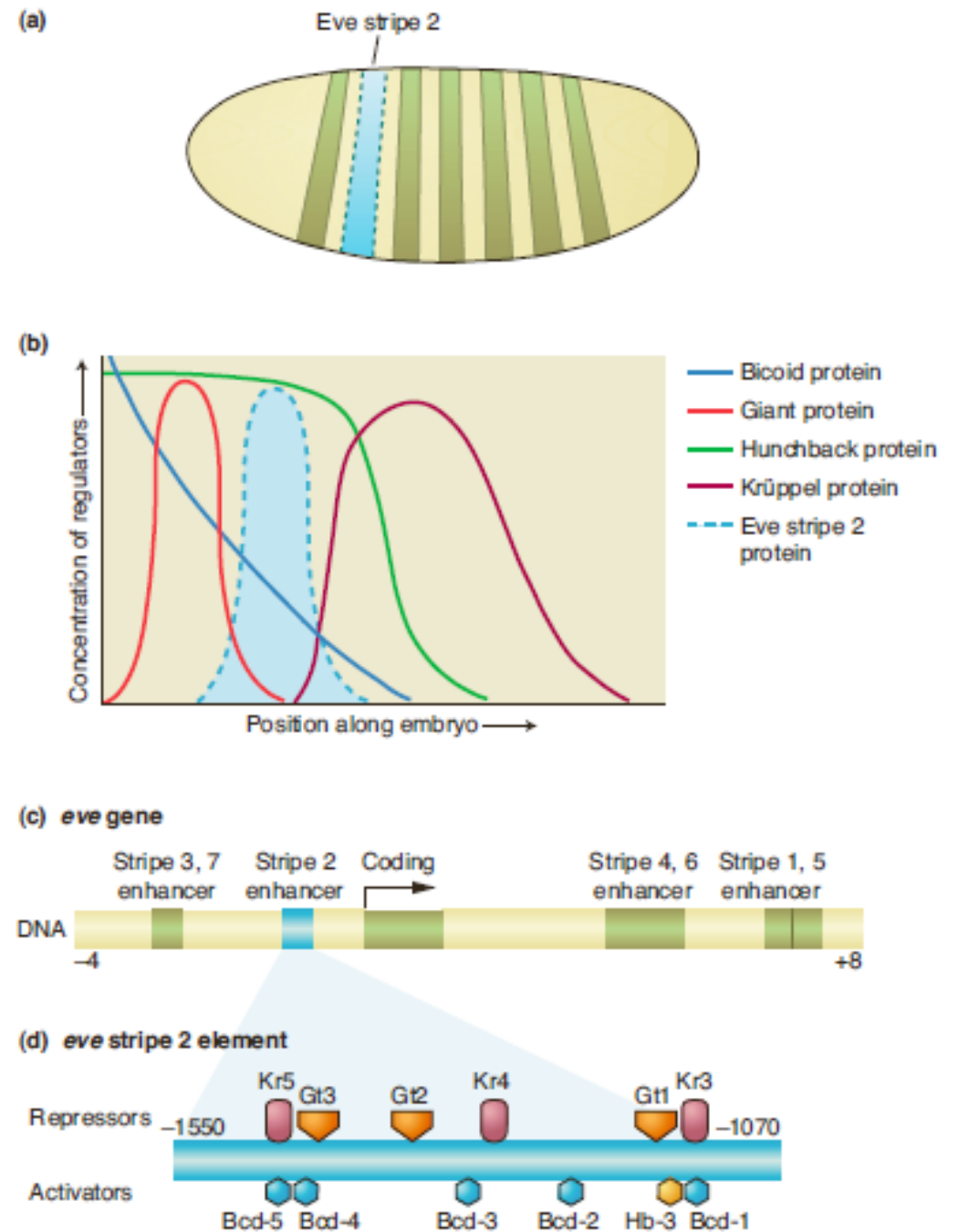
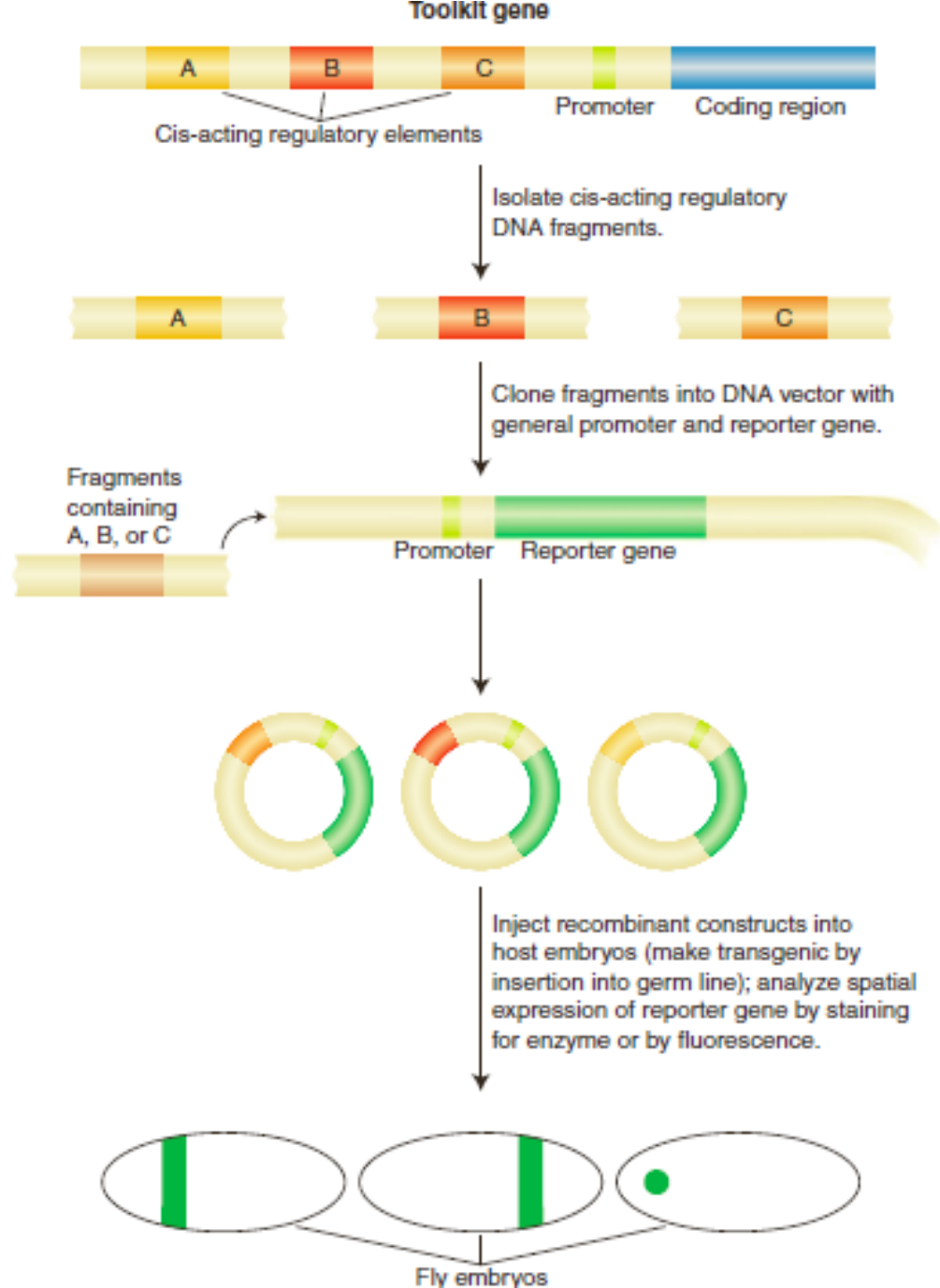
Parents	Offspring
$ml+/ \delta \times ml+/ \text{♀}$	$mlm, ml+, +/+$ all normal
$mlm \delta \times ml+/ \text{♀}$	$mlm, ml+$ all normal
$+/+, ml+, \text{ or } mlm \delta \times mlm \text{♀}$	$ml+, mlm$ all mutant phenotype

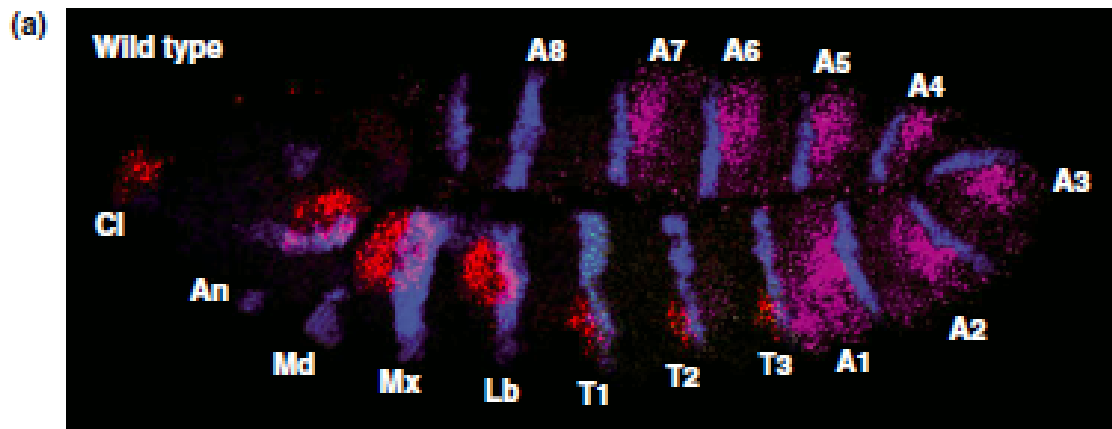
ZYGOTICALLY REQUIRED GENES

Parents	Offspring
$ml+/ \delta \times ml+/ \text{♀}$	$\left\{ \begin{array}{l} ml+, +/+ \\ mlm \end{array} \right.$ normal mutant phenotype

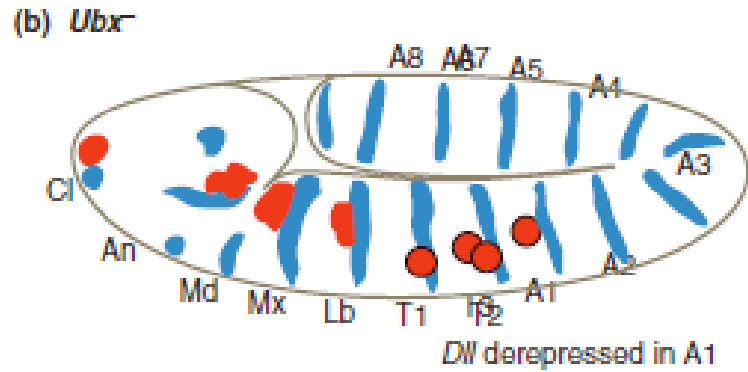




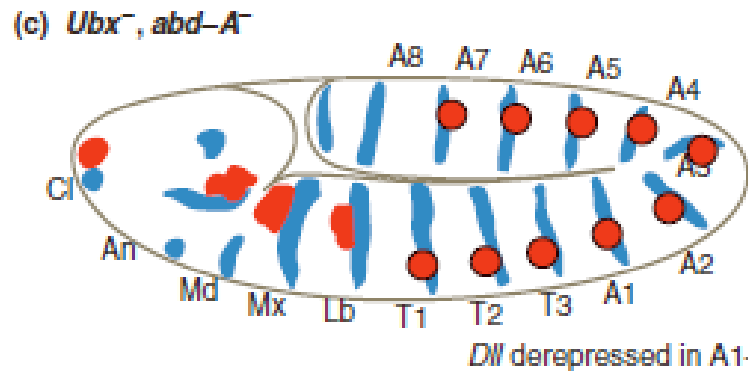




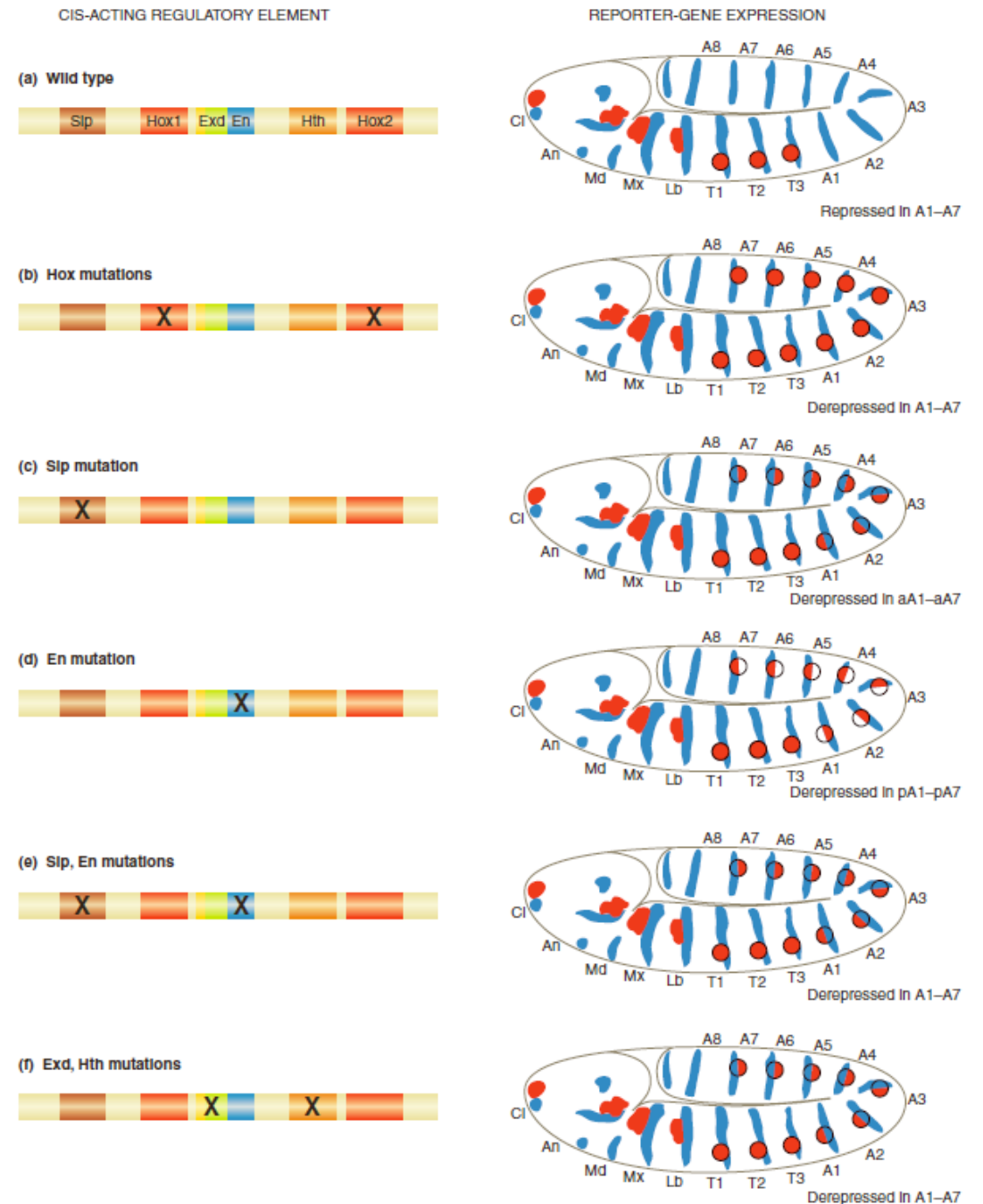
Dll (red) repressed in A1–A8

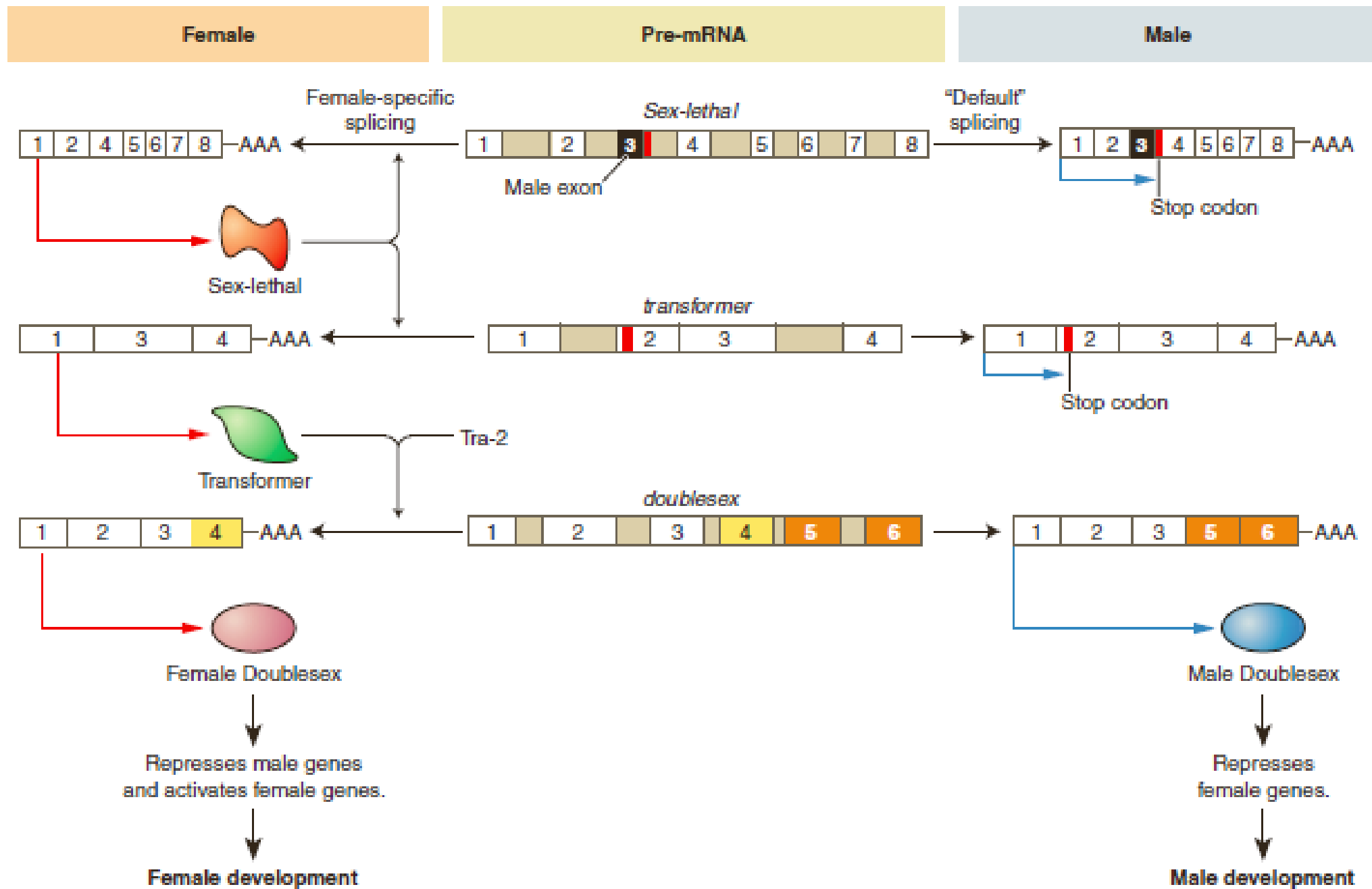


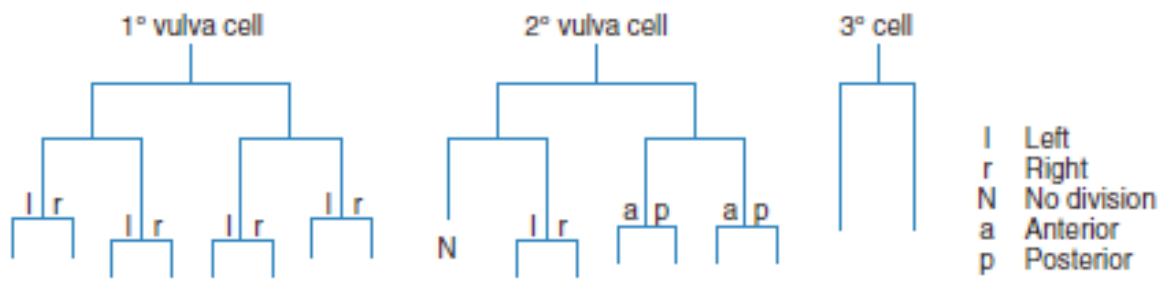
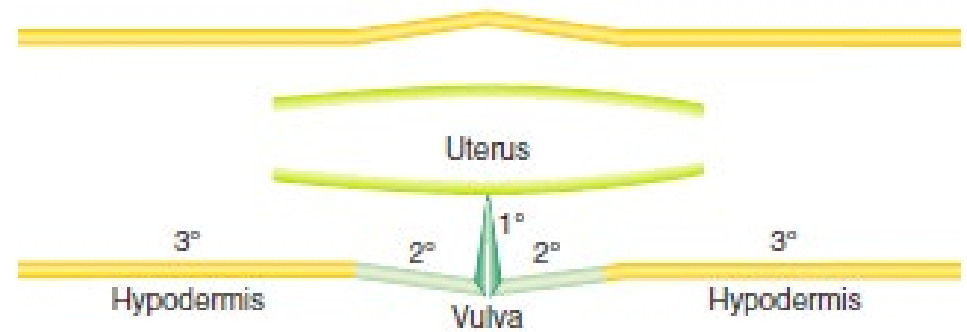
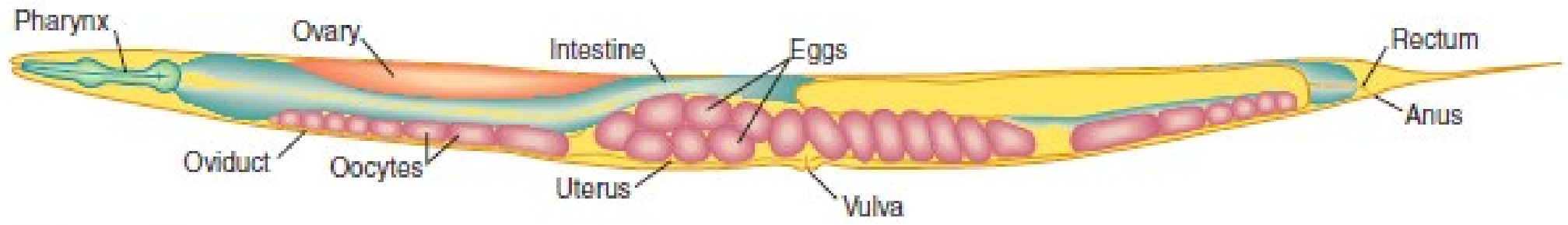
Dll derepressed in A1

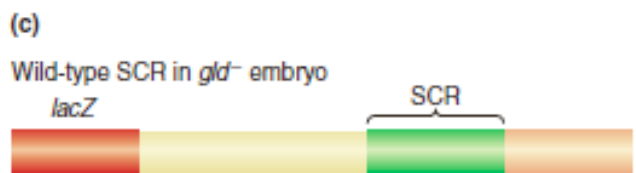
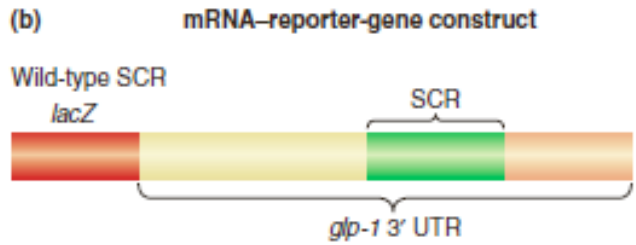
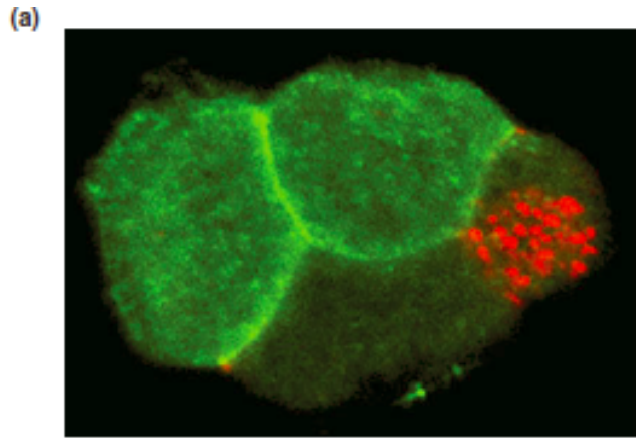


Dll derepressed in A1–A7









Reporter expression

