

**HORMONE EFFECTS BY CD RECORD /REPLAY.**

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Molecular bio-information may be transduced via water (1-4) or by means of an electronic device (5,6) and hence inhibit amphibian metamorphosis (6). Vials of thyroxine (T), E-30 M, (2) or water (W) were placed on an input coil linked to a filter and to an amplifier with a gain of E6. Frequencies below 80 kHz were digitized at the Nyquist frequency, buffered in a RAM and multiplexed on to a CD. After noise reduction and filtering the signal was attenuated by E6 to restore the original analog level. Water vials (WT, WW) were placed for 4 min on an output coil. WT or WW was added to the basin water of Amphibian larvae *R. temp.* at a 2-legged stage (2). Cumulative statistical frequencies of 4-legged stage  $F_a$  and of reduced tail  $F_b$  were evaluated. (WT:  $N_{\text{animals}} = 234$ ; WW:  $N_a = 234$ ).  $F_{a,b}$  were (% , mean  $\pm$  1SD):

	WT1	WW1	WT2	WW2	WT3	WW3	WT4	WW4
$F_a$ :	40 $\pm$ 08	54 $\pm$ 07	53 $\pm$ 09	65 $\pm$ 08	64 $\pm$ 08	73 $\pm$ 08	74 $\pm$ 08	86 $\pm$ 09
$F_b$ :	24 $\pm$ 10	30 $\pm$ 08	28 $\pm$ 13	39 $\pm$ 07	46 $\pm$ 08	56 $\pm$ 06	58 $\pm$ 12	69 $\pm$ 06

1-4, depending on the experiment: intervals of 24-48 h . Comparison WT vs WW,  $p < 0.001$  in chi-square test and t-test. Data also significant in "survival analysis".

Water dipoles may develop phase coherent oscillations through radiation coupling (7), it is proposed that these could be modulated as a time-ordered pattern of signals (2) and induce electron propagation (2).

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