

$$n E_0 \tau = n_1 E_0 \times 30 + (n - n_1) E_0 \times 60$$

~~front~~

$$n \tau = n_1 \tau$$

~~front~~

$$n \tau = n_1 \tau$$

$$n(\tau - 60) = n_1(30 - 60)$$

$$n = n_1 \frac{60 - 30}{60 - \tau}$$

$$n > n_1$$

(made free)

E_0 is enough for lunch per hour

fast chemostat experiments. —

~~high speed~~

Sh. Maud

$$a_2 w_2 \text{ and } Q w_1 n_1 = (w_1 + w_2) n_2$$

$$1.) \quad \frac{a_2 w_2 + Q w_1 n_1}{w_2 + w_1} = n_2$$

$$n_2 i \quad n_1 i \quad \tau_{2 i}$$

$$\frac{d n_2}{d t} = \frac{v_2 n_1 w_1}{v_2} + \frac{n_1 w_1}{v_2} - n_2 w_2$$

$$L \text{ term} = \frac{n_1 w_2}{v_2} - w_2$$

$$L = \frac{n_1 w_2}{v_2} - w_2$$

$$L = n_1 / n_2 \frac{w_1}{v_2} - w_2$$

$$2.) \quad L = -n_1 / n_2 \frac{w_1}{v_2} + \frac{w_2}{v_2}$$

L. B. Land

Lewis & says Jan 52

insulinine pruned out from
wild type if you feed
L amino butyric

Y ~~and~~ Ty pruned out from
wild type & when you feed
the corresponding keto
acid. —

free site a, occupied sites b
 $a + b = 1$

precursor conc. x
tryptine conc. y
precursor is instantly transformed
into tryptine

$$\frac{dx}{dt} = \text{const } a - c_1 x - c_2 y / b$$

$$b = \frac{1}{1 + \frac{c_1 x + c_2 y}{\text{const.}}}$$

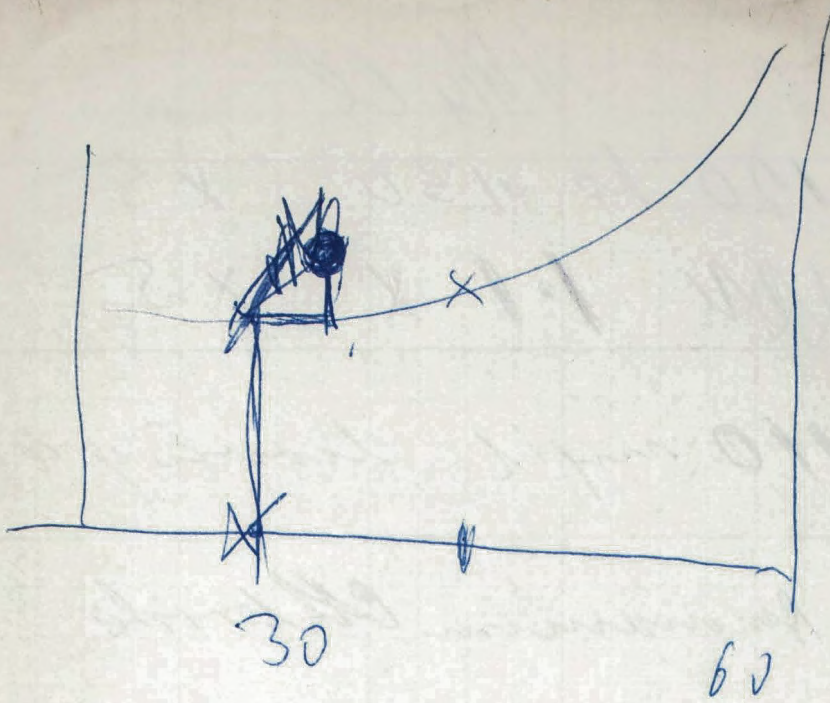
P.P.O

kl 7.3 620

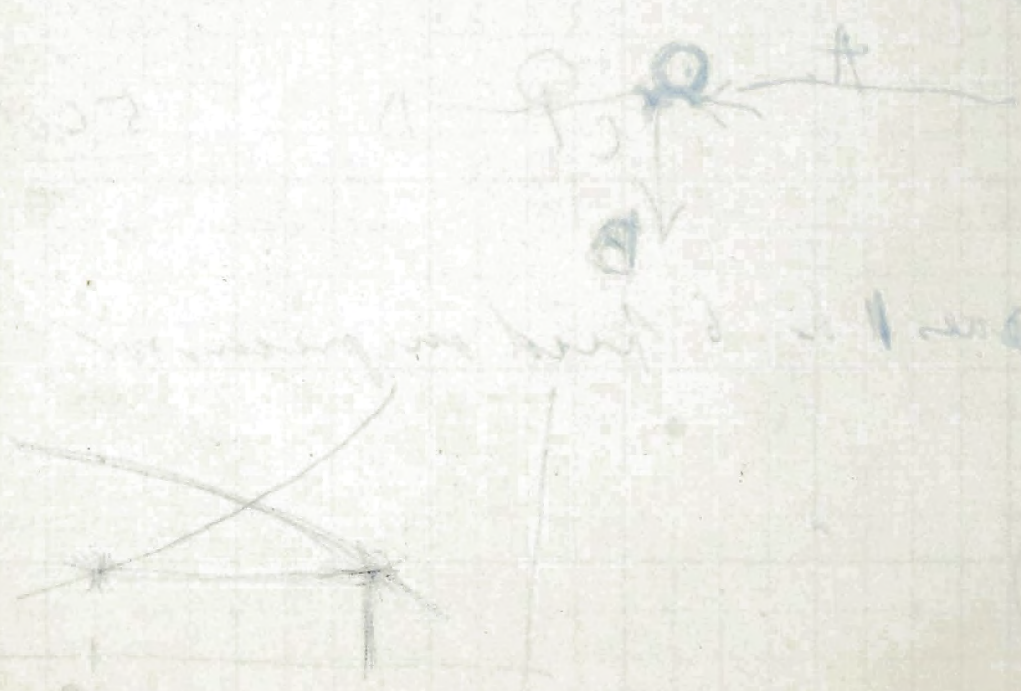
[Faint, illegible handwriting]

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[Faint, illegible handwriting]



$$\rho = \rho_{30} \frac{(60-30)}{60-7}$$



2/10

~~f(x)~~

$L(x, y)$

take ~~all~~ $f(x, y)$
at ~~point of~~ y

~~f~~ $f_n(x_{n-1}, x_n)$

x_{n-1}

~~f~~ $f_n(x_{n-1}, x_n)$

x_n

~~f~~ x_n increases by Δ (factor)

f_n decreases by $\Delta' < \Delta$ (factor)

$$f_1 = f_2 = f_3$$

$$\frac{L_1}{\Delta'} = \frac{L_2}{\Delta'} = \frac{L_3}{\Delta'}$$

x_{2n}

(new)
 $x_n = \Delta_1, \Delta_2, \Delta_3 \dots x_n^{old}$

$$x_n^{new} > \infty^n x_n^{old}$$

$\frac{10}{\text{male}} - 2$

100 - 2 (98)

8

Plans: Jan 52

1.) Repeat 284/6 feeding

[Make histidineless/5]

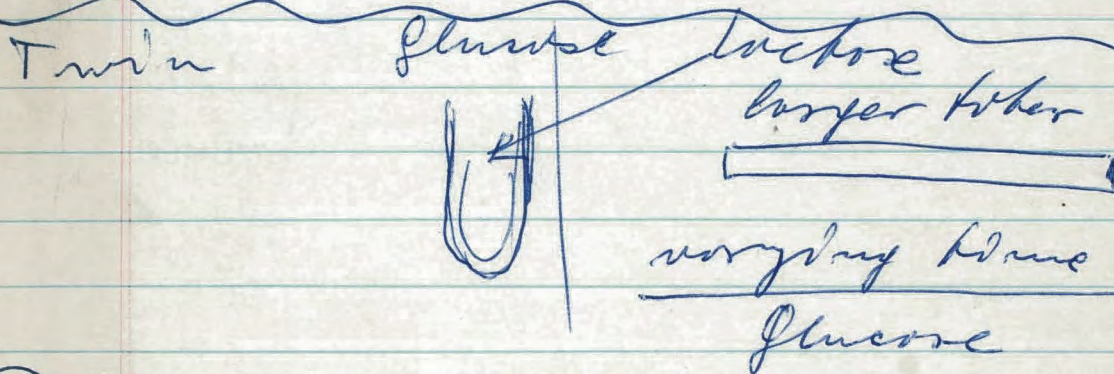
2.) Old 284/6 feeding see how they are washed out

- 3.) double mutant / 5
- A. B/1t ~~double mutant~~ excess arginine
 - B. 284/Arg/6 double excess trypt
 - C. B/1t + 284/Arg/6 + trypt and arg, control

349 B add B see what growth rate (6 min) change clock

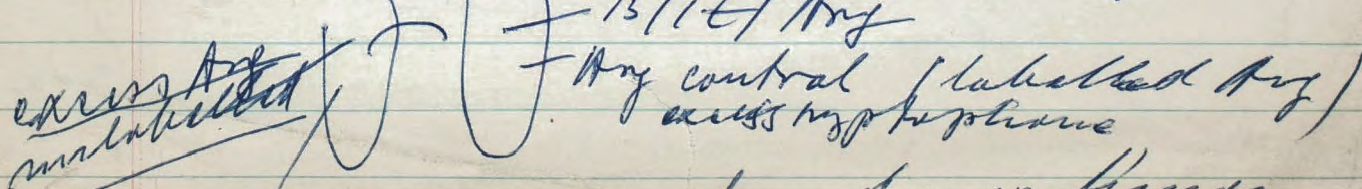
his histidine less

go from 4 to 2 hours today



change from long to short washing out. at high temp. depending how long it is at long

Outer better ~~XXXXXX~~ turnover exp.



Trypt control

how does exchange depend on C

$\frac{1}{2.5} - \frac{1}{8}$

$2.25 \times \frac{5.5}{20}$

$\frac{1}{14}$