NASA Life Sciences Data Archive
Investigator name: Kenneth Souza
Mission (Payload): STS-47 (SL-J)
Experiment title (ID): Effect of Weightlessness on Development of Amphibian Eggs (178256)
File name/Inventory ID: SL-J FEE Mock-up Early Development Results

Ground Control
9/20/92

SL-J/FEE MOCK-UP DEVELOPMENTAL RESULTS

Expt. # _____

Date: _____

I. Fertilization Test

	Frogs #	Cons.	# Eggs	Rot. (%)	Clv. (%)	Nev.P.(%)	Hat. (%)	Qual.
1. F-1G-1	3		21	18 (85)	18 (85)	18 (85)	18 (85)	1
2. F-1G-2	105		24	0 (0)	0 (0)	0 (0)	0 (0)	3
3. F-1G-3	84		21	18 (85)	18 (85)	18 (85)	18 (85)	1
4. F-1G-4	103		28	19 (67)	19	19	19 (67)	2
5. F-OG-1	3		21	16 (76)	16 (76)	16 (76)	16 (76)	1
6. F-OG-2	105		22	0 (0)	0 (0)	0 (0)	0 (0)	3
7. F-OG-3	84		24	19 (79)	19 (79)	19 (79)	19 (79)	1
8. F-OG-4	103		23	18 (78)	18 (78)	18 (78)	18 (78)	1
Tot. No.								
Mean & S.D.								

II Main Body

	# Eggs	Rot. (%)	Clv. (%)	Nev.P.(%)	Hat. (%)	Qual.
1. 2.5-1G-1	11	9	9			
2. 2.5-1G-2	10	8	8			
3. 2.5-0G-1	11	7	7			
4. 2.5-0G-2	10	8	8			
5. 14-1G-1	21	15	15			
6. 14-1G-2	22	14	14			
7. 14-0G-1	32	26	26			
8. 14-0G-2	26	25	25			
9. 22-1G-1	10	9	9	9		
10.22.0G-1	10	9	9	9		
11.NF-22-OG-2	13	12	12	12		
9/20 12.R-1G-1	10	6	6	6		
13.R-1G-2	12	9	9			
14.R-0G-1	10	8	8	8		
15.NF-1G-1	21	10	10	10		
16.NF-1G-2	14	12	12	12		
17.NF-OG-1	14	11	11	11		
18.NF-OG-2	17	12	12	12		
Tot. No.						
Mean & SD						

III Sperm Entry Points

	# Eggs	Rot. (%)	Clv. (%)	Nev.P.(%)	Hat. (%)	Qual.
1. SEP-1G-1	21	17	17			
2. SEP-1G-2	20	10	10			
3. SEP-OG-1	23	13	13			
4. SEP-OG-2	27	20	20			
Tot. No.						
Mean & SD						

Expt. # _____ Date: 9/13/92

A. Fert Test & Donor Selection: Petri Dish Control

Fert. Time _____

	Quadrant	Frogs#	No. Eggs	#Rot. (%)	#Clv. (%)	#N-Hat (%)	#F-Swim %
*	A-1	3	28	24 (85)	24 (85)	24 (85)	24 (85)
	A-2	105	32	0 (0)	0 (0)	0 (0)	0 (0)
**	B-3	84	40	32 (80)	32 (80)	32 (80)	32 (80)
	B-4	103	19	15	15	13	13

Total Eggs

B. Part 1 Main Body 22 Chamber Set-up: Petri Dish Control

Fert. Time 5:45AM

Frogs#	No. Eggs	#Rot. %	#Clv. %	#N-Hat %	#F-Swim %
3	57	42	40	40	

57
1
42 47

C. Part 2 Main Body 22 Chamber Set-up: Petri Dish Control

Fert. Time _____

Frogs#	No. Eggs	#Rot. %	#Clv. %	#N-Hat %	#F-Swim %
3	23	21	21	21	

D. NF ~~Sperm Entry Point~~: Petri Dish Control

Fert. Time _____

Frog #	No. Eggs	#Rot. %	#Clv. %	#New. P. %	#N-Hat %	#F-Swim %
	12	11	11	11	11	

* Best Frog
** Second Best Frog