

10.3: Table of experiments

Table 10.2: Experiments performed with adult bees

Experiment number	Procedure	References	Date of the experiment in the lab book	Slide number	Name of the photo files	Figure in the thesis
1	In situ with DNA probe	Worker bee	15.12.2003			
2	In situ with DNA probe	Worker bee	05.01.2004	2	Situ d 45, pic 106, pic 104, pic 42 and pic 39	4.2A, B, C, E and F
				2	Pic 92, pic 6, pic 8, pic 15, pic 16, pic 12, pic 7 and pic 22	4.3A-H
3	In situ with DNA probe	Worker bee	05.05.2004			
4	In situ with DNA probe	Worker bee	25.05.2004			
1	In situ with RNA probe	Worker bee	27.09.2004	1	Pic 11 and pic 12	4.4I and O
				2	Pic 13	4.3D
2	In situ with RNA probe	Worker bee	18.11.2004	2	Pic 23 and pic 24	2.2A and C
				9	Pic 19	2.2B
				5	Pic 70	2.2D

				6	Pic 88 and pic 85	4.4J and N
				5	Pic 81, pic 64 and pic 65	4.4K, M and L
				6	Pic 86	4.3A
				5	Pic 69	4.3B
				8	Pic 73	4.3C
3	In situ with RNA probe	Worker bee	24.11.2004			
Immunohistochemistry with alkaline phosphatase						
1	Immuno with NR1-mab363 primary antibody	Worker bee	01.09.2004			
2	Immuno with NR1-mab363 primary antibody	Worker bee	06.09.2004	2	Pic 198	2.3H
3	Immuno with NR1-mab363 primary antibody	Worker bee	11.11.2004	1	Pic 258, pic 235 and pic 238	10.3A-C
4	Immuno with NR1-mab363 primary antibody	Worker bee	24.02.2005			
5	Immuno with NR1-mab363 primary antibody	Worker bee	16.03.2005			
1	Immuno with NR1-pan primary antibody	Worker bee	18.01.2005			

2	Immuno with NR1-pan primary antibody	Worker bee	26.01.2005	4 1 4 4	Pic 284 Pic 288 Pic 1 Pic 1, pic 11, pic 12, pic 3, pic 5 and pic 10	4.13A 4.13D 10.5A 10.2A-F
				4	Pic 14, Pic 11 and pic 3	10.3D-F
				4	Pic 19, pic 16 and pic 14	10.4A-C
3	Immuno with NR1-pan primary antibody	Worker bee	16.03.2005	4	Pic 26, pic 283, pic 285 and pic 287	2.3A, F, E and C
Immunofluorescent staining						
1	Immuno with NR1-mab1586 primary antibody	Worker bee	11.11.2004	2	Pic 259	4.13B
1	Immuno with AF3 anti-DLG primary antibody	Worker bee	24.02.2005	1	Pic 290	4.13C
2	Immuno with AF3 anti-DLG primary antibody	Worker bee	16.03.2005			
1	NR1-pan and AF3 anti-DLG antibody Vibratome	Worker bee	10.02.2005			

	sections					
2	NR1-pan and AF3 anti-DLG antibody Vibratome sections	Worker bee	15.03.2005	1 2	20xcalixz080 CY2-z020	10.5D 4.14B
3	NR1-pan and AF3 anti-DLG antibody Vibratome sections	Worker bee	22.03.2005			
4	NR1-pan and AF3 anti-DLG antibody cryosections	Worker bee	16.03.2005			
5	NR1-pan and AF3 anti-DLG antibody cryosections	Worker bee	22.03.2005	1 4	Cryo 10X- z005 Sec1- 20X(2)++z0 93	10.5C 4.14C

Table 10.3: Experiments performed in the developmental stages of the honeybee

Experiment number	Procedure	References	Date of the experiments in the lab book	Slide number	Name of the photo file	Figure in the thesis
1	In situ with RNA probe	7 days larvae, late larvae, and 1 day pupae	02.02.2005	2b	Pic 177	3.2A
2	In situ with RNA probe	5 day pupae, mid pupae, late pupae, 1 day bee, and 2 days bee	08.02.2005	1 5	Pic 115 Pic 125, 124 and 123	3.4F 3.5A, B and C

				6	Pic 116, pic 117 and pic 118	3.5D-F
3	In situ with RNA probe	5 day pupae, mid pupae, late pupae, 1 day bee, and 2 days bee	15.02.2005	2 2 4	Pic 138, pic 137, pic 142 and pic 143 Pic 144, pic 133, pic 134, pic 135 Pic 150	3.3A, B, C and D 3.4A, B, C and D 3.4E
4	In situ with RNA probe	1 day pupae, 2-3 day pupae, mid pupae, and late pupae	21.02.2005			
5	In situ with RNA probe	5 day larvae, 6 day larvae, 7 day larvae, 1 day pupae, and 2-3 days pupae	07.03.2005	1 3	Pic 162 Pic 167, pic 169 and pic 170	3.2D 3.2C, F and E
Immunohistochemistry with alkaline phosphatase						
1	Immuno with NR1-mab363 primary antibody	0 day old bee	27.03.2007			
2	Immuno with NR1-mab363 primary antibody	0 day old bee	27.03.2007			
3	Immuno with NR1-mab363 primary antibody	0 day old bee	28.03.2007	1	Pic 80 and pic 43	3.6A and B
4	Immuno with NR1-mab363	0 day old bee	28.03.2007	1	Pic 84 and pic 85	3.6C and D

	primary antibody			3	Pic 41	3.6E
5	Immuno with NR1-mab363 primary antibody	0 day old bee	29.03.2007			
6	Immuno with NR1-mab363 primary antibody	0 day old bee	29.03.2007			
1	Immuno with NR1-mab363 primary antibody	2 days old bee	02.04.2007			
2	Immuno with NR1-mab363 primary antibody	2 days old bee	02.04.2007			
3	Immuno with NR1-mab363 primary antibody	2 days old bee	04.04.2007			
4	Immuno with NR1-mab363 primary antibody	2 days old bee	04.04.2007			
5	Immuno with NR1-mab363 primary antibody	2 days old bee	05.04.2007	1 3	Pic 88 and pic 89 Pic 47	3.7A and D 3.7E
6	Immuno with NR1-mab363 primary antibody	2 days old bee	05.04.2007	1 2	Pic 46 Pic 86	3.7B 3.7C
1	Immuno with NR1-mab363	7 days old bee	09.04.2007	1	Pic 91, pic 90 and pic	3.8A-C

	primary antibody				92	
2	Immuno with NR1-mab363 primary antibody	7 days old bee	09.04.2007	3	Pic 51	3.8D
3	Immuno with NR1-mab363 primary antibody	7 days old bee	10.04.2007			
4	Immuno with NR1-mab363 primary antibody	7 days old bee	10.04.2007			
5	Immuno with NR1-mab363 primary antibody	7 days old bee	11.04.2007			
6	Immuno with NR1-mab363 primary antibody	7 days old bee	11.04.2007			
1	Immuno with NR1-mab363 primary antibody	15 days old bee	16.04.2007			
2	Immuno with NR1-mab363 primary antibody	15 days old bee	16.04.2007			
3	Immuno with NR1-mab363 primary antibody	15 days old bee	17.04.2007	2	Pic 53, pic 96, pic 95 and pic 99	3.9A-D
4	Immuno with NR1-mab363 primary antibody	15 days old bee	17.04.2007			

5	Immuno with NR1-mab363 primary antibody	15 days old bee	18.04.2007	3	Pic 55	3.9E
6	Immuno with NR1-mab363 primary antibody	15 days old bee	18.04.2007			
1	Immuno with NR1-mab363 primary antibody	0 day old, 2 days old, 7 days old, 15 days old and foraging bee	24.07.2007			
2	Immuno with NR1-mab363 primary antibody	0 day old, 2 days old, 7 days old, 15 days old and foraging bee	26.07.2007			
3	Immuno with NR1-mab363 primary antibody	0 day old, 2 days old, 7 days old, 15 days old and foraging bee	08.08.2007			

Table 10.4: Experiments performed with adult worker bees collected from different seasonal stages and hives

Experiment number	Procedure	References	Date of the experiment in the lab book	Slide number	Name of the photo file	Figure in the thesis
1	In situ with RNA probe	Winter bee	18.01.2005	3 1	Pic 114-1 Pic 114-2	4.5C 4.5D
2	In situ with RNA probe	Winter bee	26.01.2005			
1	In situ with RNA	Summer bee	18.01.2005	2	Pic 101	4.5A

	probe			1	Pic 113	4.5B
2	In situ with RNA probe	Summer bee	26.01.2005			
Immunohistochemistry with alkaline phosphatase						
1	Immuno with NR1-mab363 primary antibody	Winter bee	07.02.2007			
2	Immuno with NR1-mab363 primary antibody	Winter bee	07.02.2007			
3	Immuno with NR1-mab363 primary antibody	Winter bee	12.02.2007			
4	Immuno with NR1-mab363 primary antibody	Winter bee	12.02.2007			
5	Immuno with NR1-mab363 primary antibody	Winter bee	20.02.2007	1	Pic 69, pic 73 and pic 56	4.6A-C
6	Immuno with NR1-mab363 primary antibody	Winter bee	21.02.2007	1 2 4	Pic 3 and pic 5 Pic 10 Pic 100	3.10A and B 3.10D 4.6D
1	Immuno with NR1-mab363 primary antibody	Spring bee	23.04.2007			
2	Immuno with NR1-mab363 primary antibody	Spring bee	23.04.2007			

3	Immuno with NR1-mab363 primary antibody	Spring bee	26.04.2007			
4	Immuno with NR1-mab363 primary antibody	Spring bee	26.04.2007			
5	Immuno with NR1-mab363 primary antibody	Spring bee	02.05.2007	1 4	Pic 66 and pic 65 Pic 64	4.7A and C 4.7D
6	Immuno with NR1-mab363 primary antibody	Spring bee	02.05.2007	3	Pic 60	4.7B
1	Immuno with NR1-mab363 primary antibody	Summer bee	10.07.2007			
2	Immuno with NR1-mab363 primary antibody	Summer bee	10.07.2007	3 1	Pic 109 Pic 101	4.8B 4.8D
3	Immuno with NR1-mab363 primary antibody	Summer bee	11.07.2007			
4	Immuno with NR1-mab363 primary antibody	Summer bee	11.07.2007			
5	Immuno with NR1-mab363 primary antibody	Summer bee	12.07.2007			
	Immuno with					

6	NR1-mab363 primary antibody	Summer bee	12.07.2007	4	Pic 104 and pic 103	4.8A and C
1	Immuno with NR1-mab363 primary antibody	Gr-hive B and Fl-hive A	14.02.2007	2 1	Pic 111 Pic 112	4.10D 4.11D
2	Immuno with NR1-mab363 primary antibody	Gr-hive B and Fl-hive A	14.02.2007			
3	Immuno with NR1-mab363 primary antibody	Gr-hive B and Fl-hive B	27.02.2007			
4	Immuno with NR1-mab363 primary antibody	Gr-hive B and Fl-hive B	28.02.2007			
5	Immuno with NR1-mab363 primary antibody	Gr-hive A, B and Fl-hive A, B	06.03.2007	2 1 1 2 3	Pic 16 Pic 11 Pic 75 and pic 76 Pic 78, pic 14 and pic 15 Pic 28	3.10C 4.9A 4.9B and C 4.10A-C 4.12D
6	Immuno with NR1-mab363 primary antibody	Gr-hive A, B and Fl-hive A, B	07.03.2007	3 1 2	Pic 22 Pic 34, pic 29 and pic 33 Pic 37, pic 36 and pic 39	4.9D 4.11A-C 4.12A-C