

SUPPLEMENTARY TABLE 1: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE IN MALE SD RATS

Site	Histotype	Dose Groups ^a																																
		0 (control)			Glyphosate (0.5 mg/kg bw/day)			Glyphosate (5 mg/kg bw/day)			Glyphosate (50 mg/kg bw/day)			Roundup Bioflow (0.5 mg/kg bw/day)			Roundup Bioflow (5 mg/kg bw/day)			Roundup Bioflow (50 mg/kg bw/day)			RangerPro (0.5 mg/kg bw/day)			RangerPro (5 mg/kg bw/day)			RangerPro (50 mg/kg bw/day)					
		No.	%	P-value	No.	%	P-value	No.	%	P-value	No.	%	P-value	No.	%	P-value	No.	%	P-value	No.	%	P-value	No.	%	P-value	No.	%	P-value	No.	%	P-value			
Skin	Squamous cell papilloma (Acanthoma)	0	-	* 0.0392	0	-		1	1.96		2	3.92		1	1.96		1	1.96		0	-		1	1.96		0	-		0	-		0	-	
	Keratoacanthoma	0	-	* 0.0419	0	-		0	-		1	1.96		0	-		1	1.96		0	-		0	-		0	-		0	-		1	1.96	
				§ 0.0419																														
	Benign Trichoepithelioma	0	-		0	-		0	-		0	0.0		0	-		0	-		0	-		1	1.96		0	-		0	-		0	-	
	Squamous cell carcinoma	0	-		1	1.96		0	-		1	1.96		0	-		1	1.96		0	-		0	-		0	-		0	-		0	-	
	Basal cell carcinoma	0	-	# 0.0419	0	-		0	-		0	-		0	-		0	-		1	1.96		0	-		0	-		0	-		0	-	
	Sebaceous carcinoma	0	-		1	1.96		0	-		0	-		0	-		0	-		0	-		0	-		0	-		0	-		0	-	
	Subcutaneous tissue, Fibroma	2	3.92		2	3.92		2 (3)	3.92		1	1.96		2	3.92		3	5.88		2	3.92		2	3.92		1	1.96		1	1.96		3	5.88	
	Subcutaneous tissue, Lipoma and fibrolipoma	0	-		1	1.96		3	5.88		0	-		1	1.96		1	1.96		2(3)	3.92		3(5)	5.88		2	3.92		2	3.92		0	-	
Subcutaneous tissue, Fibrosarcoma	2	3.92		1	1.96		0	-		0	-		0	-		0	-		0	-		0	-		0	-		1	1.96		0	-		
Mammary glands	Adenoma, fibroma and fibroadenoma	0	-	* 0.0419	0	-		0	-		1	1.96		0	-		0	-		1	1.96		1	1.96		1	1.96		1	1.96		1	1.96	
	Lipoma and fibrolipoma	0	-	* 0.0419	0	-		0	-		1	1.96		0	-		0	-		1	1.96		0	-		0	-		0	-		0	-	
				# 0.0419																														
Adenocarcinoma	0	-		0	-		0	-		0	-		0	-		0	-		0	-		2	3.92		0	-		0	-		1	1.96		
Zymbal glands	Carcinoma (sebaceous or squamous)	1	1.96		0	-		0	-		0	-		0	-		0	-		0	-		1	1.96		0	-		0	-		0	-	
Harderian gland	Carcinoma	0	-		1	1.96		0	-		0	-		0	-		0	-		0	-		0	-		0	-		0	-		0	-	
Lung	Adenoma	0	-		1	1.96		0	-		0	-		0	-		0	-		0	-		0	-		0	-		0	-		0	-	
	Squamous cell Papilloma (Acanthoma)	0	-	* 0.0419	0	-		0	-		1	1.96		0	-		0	-		0	-		0	-		0	-		0	-		0	-	
	Fibroma	0	-	# 0.0419	0	-		0	-		0	-		0	-		0	-		1	1.96		0	-		0	-		0	-		0	-	
	Osteoma	0	-	* 0.0419	0	-		0	-		1	1.96		0	-		0	-		0	-		0	-		0	-		0	-		0	-	
Salivary gland	Adenocarcinoma	0	-		0	-		0	-		0	-		0	-		0	-		0	-		1	1.96		0	-		0	-				
Stomach	- Forestomach																																	
	Squamous cell Papilloma (Acanthoma)	1	1.96		2	3.92		0	-		2	3.92		0	-		0	-		0	-		0	-		0	-		0	-				
- Glandular stomach	Polyp, adenomatous	0	-		0	-		0	-		0	-		1	1.96		0	-		0	-		0	-		0	-		0	-		0	-	
Intestine	Polyp, adenomatous	0	-		1	1.96		0	-		0	-		1	1.96		0	-		1	1.96		0	-		0	-		0	-		0	-	
	Leiomyoma	0	-		0	-		0	-		0	-		1	1.96		0	-		0	-		0	-		0	-		0	-				
Liver	Hepatocellular adenoma	0	-		1	1.96		1	1.96		0	-		0	-		0	-		0	-		0	-		0	-		0	-				
	Hepatocellular carcinoma	1	1.96		2	3.92		1	1.96		2	3.92		1	1.96		0	-		0	-		2	3.92		0	-							
Pancreas	Exocrine adenoma	0	-		0	-		1	1.96		0	-		0	-		0	-		0	-		0	-		0	-		0	-				
	Exocrine carcinoma	1	1.96		0	-		1	1.96		0	-		0	-		0	-		0	-		0	-		0	-		0	-				
Kidneys	Tubular cell carcinoma	0	-		0	-		0	-		0	-		0	-		0	-		0	-		1 (2)	1.96		0	-		0	-		1	1.96	
	Malignant mesenchymal tumor	0	-	# 0.0419	0	-		0	-		0	-		0	-		0	-		1	1.96		0	-		0	-		0	-				
Pelvis	Papilloma, transitional cell	1	1.96		0	-		0	-		0	-		0	-		0	-		0	-		0	-		0	-		0	-				
	Carcinoma transitional cell	0	-		0	-		0	-		0	-		0	-		0	-		0	-		0	-		1	1.96		0	-				
Bladder	Papilloma, transitional cell	0	-		0	-		0	-		0	-		0	-		0	-		0	-		1	1.96		0	-		0	-				
	Carcinoma, transitional cell	0	-	# 0.0419	0	-		0	-		0	-		0	-		0	-		1	1.96		0	-		0	-							
Testes	Interstitial cell adenoma	1	1.96		0	-		0	-		1	1.96		1	1.96		1	1.96		1	1.96		1	1.96		0	-		0	-				
Pituitary gland	Adenoma	18	35.29		18	35.29		16	31.37		16	31.37		20	39.22		16	31.37		18	35.29		15	29.41		18	35.29		19	37.25				
	Adenocarcinoma	1	1.96		1	1.96		1	1.96		2	3.92		2	3.92		1	1.96		0	-		1	1.96		1	1.96		1	1.96				
Thyroid gland	Follicular adenoma	0	-		0	-		0	-		0	-		0	-		0	-		0	-		0	-		0	-		0	-				

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Site	Histotype	Dose Groups ^a																													
		0 (control)			Glyphosate (0.5 mg/kg bw/day)			Glyphosate (5 mg/kg bw/day)			Glyphosate (50 mg/kg bw/day)			Roundup Bioflow (0.5 mg/kg bw/day)			Roundup Bioflow (5 mg/kg bw/day)			Roundup Bioflow (50 mg/kg bw/day)			RangerPro (0.5 mg/kg bw/day)			RangerPro (5 mg/kg bw/day)			RangerPro (50 mg/kg bw/day)		
		No.	%	P-value	No.	%	P-value	No.	%	P-value	No.	%	P-value	No.	%	P-value	No.	%	P-value	No.	%	P-value	No.	%	P-value	No.	%	P-value	No.	%	P-value
	C-cell adenoma	2	3.92		2	3.92		1	1.96		0	-		3	5.88		1	1.96		1	1.96		3	5.88		2	3.92		3	5.88	
	Follicular adenocarcinoma	0	-	* 0.0419	0	-		0	-		1	1.96		0	-		0	-		0	-		0	-		0	-		0	-	
	C-cell carcinoma	1	1.96		0	-		0	-		0	-		1	1.96		0	-		0	-		0	-		0	-		0	-	
Adrenal glands																															
	Cortical adenoma	0	-		0	-		0	-		0	-		1	1.96		0	-		0	-		2	3.92		0	-		0	-	
	Pheochromocytoma	10(12)	19.61		5	9.80		4	7.84		4(6)	7.84		5(6)	9.80		4(6)	7.84		6	11.76		4(6)	7.84		4(5)	7.80		9(10)	17.65	
	Cortical adenocarcinoma	0	-	§ 0.0071	0	-		0	-		0	-		0	-		1	1.96		0	-		0	-		0	-		2	3.92	
	Pheochromoblastoma	0	-		0	-		1	1.96		0	-		0	-		0	-		0	-		0	-		1	1.96		0	-	
Endocrine Pancreas																															
	Islet cell adenoma	1	1.96		5	5.88		3	5.88		1	1.96		1	1.96		2	3.92		2	3.92		2	3.92		5	9.8		1	1.96	
	Islet cell carcinoma	0	-	§ 0.0419	0	-		0	-		0	-		0	-		0	-		0	-		0	-		0	-		1	1.96	
Central nervous system																															
- Brain																															
	Oligodendroglioma malignant	0	-		1	1.96		0	-		0	-		0	-		0	-		0	-		0	-		0	-		0	-	
	Astrocytoma malignant	1	1.96		0	-		0	-		0	-		1	1.96		0	-		0	-		1	1.96		0	-		1	1.96	
- Meninges																															
	Benign granular cell tumour	0	-		1	1.96		0	-		0	-		0	-		0	-		0	-		0	-		0	-		0	-	
	Benign meningioma	0	-		0	-		0	-		0	-		0	-		0	-		0	-		1	1.96		0	-		0	-	
	Malignant granular cell tumor	0	-	* 0.0071	0	-		0	-		2	3.92		0	-		0	-		0	-		0	-		1	1.96		0	-	
Peripheral nervous system																															
- Others peripheral nerves																															
	Malignant schwannoma	0	-	# 0.0071	0	-		2	3.92		0	-		0	-		0	-		2	3.92		0	-		0	-		0	-	
Bones																															
- Head																															
	Condroma	0	-	* 0.0419	0	-		0	-		1	1.96		0	-		0	-		0	-		0	-		0	-		0	-	
	Osteoma	0	-	* 0.0419	0	-		0	-		1	1.96		0	-		0	-		0	-		0	-		0	-		1	1.96	
	Osteosarcoma	0	-	§ 0.0419	0	-		0	-		0	-		0	-		0	-		0	-		1	1.96		2	3.92		0	-	
- Other																															
	Osteosarcoma	0	-		1	1.96		1	1.96		0	-		0	-		0	-		0	-		0	-		0	-		0	-	
Soft tissues																															
	Fibroma	0	-	§ 0.0419	0	-		0	-		0	-		0	-		0	-		0	-		0	-		0	-		1	1.96	
	Lipoma	0	-		0	-		0	-		0	-		1	1.96		0	-		0	-		0	-		0	-		0	-	
Skeletal muscle																															
	Rhabdomyosarcoma	0	-		0	-		0	-		0	-		0	-		1	1.96		0	-		0	-		0	-		0	-	
Heart																															
	Malignant Schwannoma	0	-		1	1.96		0	-		0	-		0	-		0	-		0	-		1	1.96		0	-		0	-	
Spleen																															
	Haemangioma	0	-		0	-		1	1.96		0	-		0	-		0	-		0	-		0	-		0	-		0	-	
	Haemangiosarcoma	0	-	§ 0.0419	0	-		0	-		0	-		0	-		0	-		0	-		0	-		0	-		1	1.96	
Thymus																															
	Benign Thymoma	0	-		0	-		2	3.92		0	-		0	-		0	-		0	-		1	1.96		0	-		0	-	
Haemolymphoreticular tissues																															
	Lymphomas	5	9.8		4	7.84		5	9.80		6	11.76		0	-		2	3.92		4	7.84		5	9.80		5	9.80		5	9.80	
	Leukaemias	0	-	# 0.0071	1	1.96		1	1.96		1	1.96		0	-		0	-		2	3.92		1	1.96		1	1.96		3	5.88	
	Histiocytic sarcoma	2	3.9	§ 0.0313	1	1.96		0	-		1	1.96		0	-		0	-		1	1.96		0	-		0	-		1	1.96	
	All types of hemolymphoreticular tumors	7	13.73		6	11.76		6	11.76		8	15.69		0	-		2	3.92		7	13.73		6	11.76		6	11.76		9	17.65	

^a Between brackets the number of tumours (one animal can bear more than one tumour)

* Statistically significant increased trend in incidence of tumors among groups treated with Glyphosate and control (Cochran-Armitage trend test)

Statistically significant increased trend in incidence of tumors among groups treated with Roundup Bioflow and control (Cochran-Armitage trend test)

§ Statistically significant increased trend in incidence of tumors among groups treated with RangerPro and control (Cochran-Armitage trend test)

SUPPLEMENTARY TABLE 2: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE IN FEMALE SD RATS

Site	Histotype	Dose Groups a																																
		0 (control)			Glyphosate (0.5 mg/kg bw/day)			Glyphosate (5 mg/kg bw/day)			Glyphosate (50 mg/kg bw/day)			Roundup Bioflow (0.5 mg/kg bw/day)			Roundup Bioflow (5 mg/kg bw/day)			Roundup Bioflow (50 mg/kg bw/day)			RangerPro (0.5 mg/kg bw/day)			RangerPro (5 mg/kg bw/day)			RangerPro (50 mg/kg bw/day)					
		No.	%	P-value	No.	%	P-value	No.	%	P-value	No.	%	P-value	No.	%	P-value	No.	%	P-value	No.	%	P-value	No.	%	P-value	No.	%	P-value	No.	%	P-value			
Skin	Squamous cell papilloma (Acanthoma)	0	0.0		0	-		0	-		0	-		0	-		0	-		0	-		0	-		1	1.96		0	-		0	-	
	Benign Trichoepithelioma	0	0.0	# 0.0419	0	-		0	-		0	-		0	-		0	-		1	1.96		0	-		0	-		0	-		0	-	
	Squamous cell carcinoma	0	0.0		1	1.96		0	-		0	-		1	1.96		0	-		0	-		0	-		0	-		2	3.92		0	-	
	Basal cell carcinoma	0	0.0		0	-		1	1.96		0	-		0	-		0	-		0	-		0	-		0	-		0	-		0	-	
	Sebaceous carcinoma	0	0.0		0	-		0	-		0	-		0	-		0	-		0	-		0	-		0	-		1	1.96		0	-	
	Subcutaneous tissue, Fibroma	1	2.0		0	-		0	-		0	-		0	-		0	-		0	-		0	-		0	-		0	-		0	-	
	Subcutaneous tissue, Lipoma and fibrolipoma	1	2.0		0	-		3(4)	5.88		1	1.96		1	1.96		1	1.96		2	3.92		1	1.96		3	5.88		2	3.92				
	Subcutaneous tissue, Hemangioma	0	0.0		0	-		0	-		0	-		0	-		0	-		0	-		0	-		1	1.96		0	-				
	Subcutaneous tissue, Liposarcoma	0	0.0	* 0.0419	0	-		0	-		1	1.96		0	-		0	-		0	-		0	-		0	-		0	-		0	-	
Subcutaneous tissue, Fibrosarcoma	0	0.0		0	-		0	-		0	-		0	-		0	-		0	-		0	-		0	-		1	1.96		0	-		
Mammary glands	Adenoma, fibroma and fibroadenoma	22(31)	43.14		32(44)	62.75		21(32)	41.18		29(40)	56.86		23(36)	45.10		22(30)	43.14		27(37)	52.94		33(46)	64.71	° 0.0465	28(38)	54.90		26(33)	50.98				
	Lipoma and fibrolipoma	0	-		3	5.88		0	-		1	1.96		1	1.96		2	3.92		0	-		1	1.96		1	1.96		0	-				
	Adenocarcinoma	14(20)	27.45		11(15)	21.57		16(20)	31.37		11	21.57		11	21.57		14(18)	27.45		20(24)	39.22		14(17)	27.45		14(21)	27.45		13(19)	25.49				
	Fibrosarcoma	0	-		0	-		1	1.96		0	-		0	-		1	1.96		0	-		2	3.92		0	-		0	-				
	Liposarcoma	0	-		0	-		0	-		0	-		1	1.96		0	-		0	-		0	-		0	-		0	-				
Zymbal gland	Carcinoma	0	-		0	-		0	-		0	-		0	-		0	-		0	-		0	-		1	1.96		0	-				
	Olfactory adenoma	0	-		0	-		0	-		0	-		0	-		0	-		0	-		0	-		1	1.96		0	-				
Nasal cavity	Olfactory adenoma	0	-		0	-		0	-		0	-		0	-		0	-		0	-		0	-		1	1.96		0	-				
		0	-		0	-		0	-		0	-		0	-		0	-		0	-		0	-		0	-		0	-				
Lung	Leiomyoma	0	-		0	-		0	-		0	-		0	-		1	1.96		0	-		0	-		0	-		0	-				
	Fibrosarcoma	0	-	§ 0.0419	0	-		0	-		0	-		0	-		0	-		0	-		0	-		0	-		1	1.96				
Oral cavity	Squamous cell carcinoma	1	1.96		0	-		0	-		0	-		0	-		1	1.96		0	-		0	-		1	1.96		0	-				
		1	1.96		0	-		0	-		0	-		0	-		1	1.96		0	-		0	-		1	1.96		0	-				
Stomach - Forestomach	Squamous cell Papilloma (Acanthoma)	1	1.96		0	-		0	-		1	1.96		0	-		0	-		0	-		0	-		0	-		0	-				
		1	1.96		0	-		0	-		1	1.96		0	-		0	-		0	-		0	-		0	-		0	-				
Intestine	Adenomatous polyp	1	1.96		0	-		0	-		0	-		0	-		0	-		0	-		0	-		0	-		0	-				
	Leiomyoma	0	-		0	-		1	1.96		0	-		0	-		0	-		0	-		0	-		0	-		0	-				
	Adenocarcinoma	0	-		0	-		0	-		0	-		1	1.96		0	-		0	-		0	-		0	-		0	-				
Liver	Hepatocellular adenoma	0	-		0	-		0	-		0	-		0	-		0	-		0	-		0	-		0	-		0	-				
	Hemangiosarcoma	1	1.96		0	-		0	-		0	-		0	-		0	-		0	-		0	-		0	-							
Pancreas	Exocrine adenoma	0	-		0	-		1	1.96		0	-		0	-		1	1.96		1	1.96		0	-		0	-		0	-				
	Exocrine carcinoma	0	-		0	-		0	-		0	-		0	-		0	-		0	-		0	-		0	-		0	-				
Ovary	Fibroma	0	-	* 0.0419	0	-		0	-		1	1.96		0	-		0	-		0	-		0	-		0	-		0	-				
	Leiomyoma	0	-		1	1.96		0	-		0	-		0	-		0	-		0	-		0	-		0	-		0	-				
	Adenocarcinoma	1(2)	1.96		0	-		0	-		0	-		1	1.96		0	-		0	-		0	-		1	1.96		0	-				
	Malignant tumor granulosa cell	0	-	# 0.0419	1	1.96		0	-		0	-		0	-		0	-		1	1.96		0	-		0	-		0	-				
Uterus	Polyp (glandular or stromal)	11	21.57		4	7.84		7	13.73		8	15.69		11	21.57		5	9.80		3	5.88		6	11.76		9	17.65		2	3.92				
	Benign Schwannoma	0	-	* 0.0419	0	-		0	-		1	1.96		0	-		0	-		0	-		0	-		0	-		0	-				
	Adenocarcinoma	0	-		0	-		0	-		0	-		1	1.96		0	-		1	1.96		0	-		1	1.96		0	-				
	Leiomyosarcoma	1	1.96		0	-		0	-		0	-		0	-		0	-		0	-		2	3.92		1	1.96		0	-				
	Malignant Schwannoma	0	-		1	1.96		2	3.92		2	3.92		0	-		1	1.96		0	-		0	-		1	1.96		1	1.96				
	Hemangiosarcoma	0	-	§ 0.0419	0	-		0	-		0	-		0	-		0	-		0	-		0	-		0	-		1	1.96				
	Squamous cell carcinoma	0	-		1	1.96		0	-		0	-		0	-		0	-		0	-		0	-		0	-		0	-				
	Stromal sarcoma	0	-		0	-		0	-		0	-		0	-		0	-		0	-		1	1.96		1	1.96		0	-				
Vagina	Polyp	0	-		1	1.96		0	-		0	-		1	1.96		0	-		0	-		0	-		0	-		0	-				
	Benign granular cell tumor	1	1.96		0	-		0	-		0	-		0	-		1	1.96		0	-		0	-		0	-		0	-				
	Fibroma	0	-		0	-		1	1.96		0	-		0	-		0	-		0	-		0	-		0	-		0	-				

SUPPLEMENTARY TABLE 2: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE IN FEMALE SD RATS

Site	Histotype	Dose Groups a																																		
		0 (control)			Glyphosate (0.5 mg/kg bw/day)			Glyphosate (5 mg/kg bw/day)			Glyphosate (50 mg/kg bw/day)			Roundup Bioflow (0.5 mg/kg bw/day)			Roundup Bioflow (5 mg/kg bw/day)			Roundup Bioflow (50 mg/kg bw/day)			RangerPro (0.5 mg/kg bw/day)			RangerPro (5 mg/kg bw/day)			RangerPro (50 mg/kg bw/day)							
		No.	%	P-value	No.	%	P-value	No.	%	P-value	No.	%	P-value	No.	%	P-value	No.	%	P-value	No.	%	P-value	No.	%	P-value	No.	%	P-value	No.	%	P-value					
Clitoral gland	Adenoma	0	-		0	-		0	-		0	-		0	-		0	-		0	-		0	-		1	1.96		0	-		0	-			
Pituitary gland	Adenoma	20	39.22		22	43.14		18	35.29		20	39.22		20	39.22		21	41.18		23	45.10		23	45.10		18	35.29		17	33.33						
	Adenocarcinoma	2	3.92		0	-		0	-		2	3.92		1	1.96		0	-		1	1.96		1	1.96		1	1.96		3	5.88						
Thyroid gland	Follicular adenoma	0	-		0	-		0	-		0	-		1	1.96		1	1.96		2	3.92		0	-		0	-		0	-		0	-			
	C-cell adenoma	1	1.96		3	5.88		0	-		0	-		2	3.92		0	-		2	3.92		2	3.92		2	3.92		0	-		0	-			
	Follicular adenocarcinoma	0	-		0	-		0	-		0	-		0	-		0	-		0	-		0	-		0	-		0	-		0	-			
	C-cell carcinoma	0	-	§ 0.0419	2	3.92		1	1.96		1	1.96		0	-		1	1.96		0	-		0	-		0	-		0	-		1	1.96			
Adrenal glands	Cortical adenoma	2	3.92		1	1.96		1	1.96		2	3.92		3	5.88		0	-		2	3.92		3	5.88		1	1.96		1	1.96		1	1.96			
	Pheochromocytoma	4	7.84		3	5.88		3	5.88		3	5.88		0	-		3	5.88		4(5)	7.84		1	1.96		1	1.96		4(5)	7.84						
	Complex pheochromocytoma	0	-		0	-		0	-		0	-		0	-		1	1.96		0	-		0	-		0	-		0	-		0	-			
	Cortical adenocarcinoma	0	-		0	-		0	-		0	-		1	1.96		0	-		2	3.92		0	-		2	3.92		0	-		0	-			
	Pheochromoblastoma	1	1.96		0	-		0	-		1(2)	1.96		1	1.96		1	1.96		1	1.96		0	-		0	-		0	-		0	-			
Endocrine Pancreas	Islet cell adenoma	0	-		1	2.0		0	-		1	1.96		0	-		1	1.96		1	1.96		2	3.92		1	1.96		2	3.92						
	Islet cell carcinoma	1	1.96		0	-		0	-		0	-		0	-		0	-		0	-		0	-		0	-		0	-		0	-			
Central nervous system	- Brain																																			
	Oligodendroglioma malignant	0	-		0	-		0	-		0	-		0	-		0	-		0	-		0	-		0	-		0	-		0	-			
	Astrocytoma malignant	0	-		0	-		0	-		0	-		0	-		0	-		0	-		0	-		1	1.96		1	1.96						
Central nervous system	- Meninges																																			
	Benign granular cell tumour	1	1.96		0	-		0	-		0	-		0	-		1	1.96		0	-		0	-		0	-		0	-		0	-			
	Malignant granular cell tumor	1	1.96		0	-		0	-		0	-		0	-		0	-		1	1.96		0	-		0	-		0	-		1	1.96			
Peripheral nervous system	- Others peripheral nerves																																			
	Benign Paraganglioma	0	-		1	1.96		0	-		0	-		0	-		0	-		0	-		0	-		0	-		0	-		0	-			
	Malignant Schwannoma	0	-		1	1.96		0	-		0	-		0	-		0	-		0	-		0	-		0	-		0	-		0	-			
Bones	- Head																																			
	Osteoma	1	1.96		1	1.96		0.0	-		0.0	-		0	-		0	-		0	-		0	-		0	-		0	-		0	-			
	Osteosarcoma	0	-	# 0.0419	0	-		0.0	-		0.0	-		0	-		0	-		1	1.96		0	-		0	-		0	-		0	-			
	- Other																																			
	Osteosarcoma	0	-		1	1.96		0.0	-		0.0	-		0	-		0	-		0	-		0	-		0	-		0	-		0	-			
Soft tissues	Fibroma	0	-		0	-		0.0	-		0.0	-		1	1.96		0	-		0	-		0	-		0	-		0	-		0	-			
	Lipoma	1	1.96		0	-		0.0	-		0.0	-		0	-		0	-		0	-		1	1.96		0	-		0	-		0	-			
	Hemangiosarcoma	0	-		0	-		0.0	-		0.0	-		1	1.96		0	-		0	-		0	-		0	-		0	-		0	-			
Spleen	Hemangioma	0	-		0	-		0.0	-		0.0	-		0	-		1	1.96		0	-		0	-		0	-		0	-		0	-			
Thymus	Benign thymoma	2	3.92		0	-		0.0	-		1.0	1.96		0	-		0	-		0	-		0	-		0	-		0	-		1	1.96			
Lymph nodes	Fibroma	0	-		1	1.96		0	-		0.0	-		0	-		0	-		0	-		0	-		0	-		0	-		0	-			
	Hemangioma	0	-		1	1.96		0	-		0.0	-		0	-		0	-		0	-		0	-		0	-		0	-		0	-			
Haemolymphoreticular tissues	Lymphomas	3	5.90		1	1.96		5	9.80		3	5.88		0	-		1	1.96		2	3.92		3	5.88		3	5.88		2	3.92						
	Leukaemias	0	-	# 0.0419	1	1.96		0	-		1	1.96		0	-		0	-		1	1.96		0	-		1	1.96		1	1.96						
	Histiocytic sarcoma	0	-		0	-		0	-		0	-		0	-		0	-		0	-		2	3.92		0	-		0	-		0	-			
	All types of hemolymphoreticular tumors	3	5.88		2	3.92		5	9.80		4	7.84		0	-		1	1.96		3	5.88		5	9.80		4	7.84		3	5.88						

^a Between brackets the number of tumours (one animal can bear more than one tumour)

* Statistically significant increased trend in incidence of tumors among groups treated with Glyphosate and control (Cochran-Armitage trend test)

Statistically significant increased trend in incidence of tumors among groups treated with Roundup Bioflow and control (Cochran-Armitage trend test)

§ Statistically significant increased trend in incidence of tumors among groups treated with RangerPro and control (Cochran-Armitage trend test)

° Statistically significant with Fisher exact test

SUPPLEMENTARY TABLE 3: INCIDENCE RATES OF LYMPHOMAS BY HISTOTYPE IN MALE SD RATS

Site	Histotype	Dose groups																			
		0 (control)		Glyphosate (0.5 mg/kg bw/day)		Glyphosate (5 mg/kg bw/day)		Glyphosate (50 mg/kg bw/day)		Roundup Bioflow (0.5 mg/kg bw/day)		Roundup Bioflow (5 mg/kg bw/day)		Roundup Bioflow (50 mg/kg bw/day)		RangerPro (0.5 mg/kg bw/day)		RangerPro (5 mg/kg bw/day)		RangerPro (50 mg/kg bw/day)	
		No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Haemolymphoreticular tissues (Lymphomas)																					
	All type of Lymphomas	5	9.80	4	7.84	5	9.80	6	11.76	0	-	2	3.92	4	7.84	5	9.80	5	9.80	5	9.80
	Lymphocytic lymphomas	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-
	Lymphoblastic lymphomas	0	-	0	-	2	1.96	0	-	0	-	0	-	1	1.96	1	1.96	1	1.96	1	1.96
	Immunoblastic lymphomas	5	9.80	4	7.84	5	9.80	6	11.76	0	-	2	3.92	3	5.88	4	7.84	4	7.84	4	7.84

SUPPLEMENTARY TABLE 4: INCIDENCE RATES OF LYMPHOMAS BY HISTOTYPE IN FEMALE SD RATS

Site	Histotype	Dose groups																																						
		0 (control)						Glyphosate (0.5 mg/kg bw/day)						Glyphosate (5 mg/kg bw/day)						Glyphosate (50 mg/kg bw/day)						Roundup Bioflow (0.5 mg/kg bw/day)		Roundup Bioflow (5 mg/kg bw/day)		Roundup Bioflow (50 mg/kg bw/day)		RangerPro (0.5 mg/kg bw/day)		RangerPro (5 mg/kg bw/day)		RangerPro (50 mg/kg bw/day)				
		No.	%	val	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%								
Haemolymphoreticular tissues (Lymphomas)	All type of Lymphomas	3	5.90		1	1.96	5	9.80	3	5.88	0	-	1	1.96	2	3.92	3	5.88	3	5.88	2	3.92	0	-	0	-	1	1.96	0	-	2	3.92	0	-	1	1.96	0	-	1	1.96
	Lymphocytic lymphomas	0	-		0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	2	3.92	0	-	0	-	1	1.96	0	-	0	-	0	-	0	-	0	-	0	-
	Lymphoblastic lymphomas	1	1.96		0	-	0	-	0	-	0	-	1	1.96	1	1.96	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-
	Immunoblastic lymphomas	2	3.92		1	1.96	5	9.80	3	5.88	0	-	0	-	1	2.0	3	5.88	1	2.0	1	1.96	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-