

**Experiment Number:** 20515 - 04  
**Test Type:** CHRONIC  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
Metal working fluids (CIMSTAR 3800)  
**CAS Number:** CIMSTAR3800

**Date Report Requested:** 03/08/2013  
**Time Report Requested:** 14:13:47  
**First Dose M/F:** 05/05/08 / 05/05/08  
**Lab:** BNW

F1\_M3

**NTP Study Number:** C20515  
**Lock Date:** 01/12/2011  
**Cage Range:** ALL  
**Date Range:** ALL  
**Reasons For Removal:** ALL  
**Removal Date Range:** ALL  
**Treatment Groups:** Include ALL  
**Study Gender:** Both  
**TDMSE Version:** 3.0.1.1\_001  
**PWG Approval Date:** NONE

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**HISTORICAL CONTROL STUDIES**  
**From May 2011 report**

**SAME ROUTE**

20011-06 -- 1-Bromopropane (INHALATION AIR)  
99017-06 -- Diethylamine (INHALATION AIR)  
93025-06 -- Tetralin (INHALATION AIR)

**ALL ROUTES**

99037-06 -- alpha/beta Thujone mixture (GAVAGE METHYLCELLULOSE)  
20011-06 -- 1-Bromopropane (INHALATION AIR)  
99017-06 -- Diethylamine (INHALATION AIR)  
99031-04 -- Ginkgo biloba extract (GAVAGE CORN OIL)  
20005-06 -- Ginseng (GAVAGE WATER)  
99007-06 -- Goldenseal root powder (ORAL FEED)  
20007-06 -- Kava kava extract (GAVAGE CORN OIL)  
95003-06 -- Methyl trans-styryl ketone (SKIN ETHANOL)  
20107-04 -- N,N-Dimethyl-p-toluidine (GAVAGE CORN OIL)  
20009-04 -- beta-Picoline (ORAL WATER)  
99032-04 -- Pyrogallol (SKIN ETHANOL)  
93025-06 -- Tetralin (INHALATION AIR)  
88133-08 -- Trimethylolpropane triacrylate (SKIN ACETONE)

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**FOR ALL DOSES THE TUMOR RATES IN THE FOLLOWING TISSUES/ORGANS ARE BASED ON NUMBER OF TISSUES EXAMINED.  
IN OTHER TISSUES/ORGANS RATES ARE BASED ON THE NUMBER OF ANIMALS NECROPSIED.**

Adrenal Cortex  
Adrenal Medulla  
Islets, Pancreatic  
Kidney  
Liver  
Lung  
Ovary  
Pituitary Gland  
Spleen  
Thyroid Gland

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## SUMMARY OF STATISTICALLY SIGNIFICANT ( $P \leq .05$ ) RESULTS IN THE ANALYSIS OF METAL WORKING FLUIDS (CIMSTAR 3800)

### MALE MICE

#### Organ

Harderian Gland

Liver  
All Organs

### FEMALE MICE

#### Organ

Harderian Gland  
Liver

Lung

Skin  
Thyroid Gland: Follicular Cell  
Uterus

#### Morphology

Carcinoma  
Carcinoma or Adenoma  
Hepatocellular Carcinoma or Hepatoblastoma  
Malignant Tumors

#### Morphology

Carcinoma or Adenoma  
Hepatocellular Carcinoma  
Hepatocellular Carcinoma or Hepatoblastoma  
Hepatocellular Carcinoma or Hepatocellular Adenoma  
Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma  
Alveolar/Bronchiolar Carcinoma  
Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma  
Hemangiosarcoma  
Carcinoma  
Polyp Stromal

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Adrenal Cortex Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	9/49 (18%)	4/50 (8%)	5/50 (10%)	10/50 (20%)
POLY-3 RATE (b)	9/46.05	4/43.62	5/44.45	10/46.86
POLY-3 PERCENT (g)	19.5%	9.2%	11.3%	21.3%
TERMINAL (d)	8/39 (21%)	3/31 (10%)	4/36 (11%)	9/40 (23%)
FIRST INCIDENCE	669	591	698	623
HC TUMORS SAME ROUTE	12/148 (8%)			
HC TUMORS ALL ROUTES	44/647 (7%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.212	P=0.136N	P=0.212N	P=0.517
POLY 1.5	P=0.200	P=0.123N	P=0.199N	P=0.517
POLY 6	P=0.228	P=0.159N	P=0.230N	P=0.514
COCH-ARM / FISHERS	P=0.188	P=0.109N	P=0.183N	P=0.520
MAX-ISO-POLY-3	P=0.230	P=0.088N	P=0.143N	P=0.414
HISTCONT SAME RTE	P=0.032*	P=1.000	P=0.433	P=0.051
HISTCONT ALL RTES	P=0.011*	P=0.482	P=0.298	P=0.005**
CURR VS HC SAME RTE	P=0.066			
CURR VS HC ALL RTES	P=0.005**			

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Adrenal Medulla</b>				
<b>Pheochromocytoma Benign</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	1/48 (2%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	1/44.92	0/43.16	1/44.33	0/46.48
POLY-3 PERCENT (g)	2.2%	0%	2.3%	0%
TERMINAL (d)	0/39 (0%)	0/31 (0%)	1/36 (3%)	0/40 (0%)
FIRST INCIDENCE	709	---	729 (T)	---
HC TUMORS SAME ROUTE	2/147 (1%)			
HC TUMORS ALL ROUTES	2/643 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Adrenal Medulla</b>				
<b>Pheochromocytoma: Benign, Complex, Malignant, NOS</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	1/48 (2%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	1/44.92	0/43.16	1/44.33	0/46.48
POLY-3 PERCENT (g)	2.2%	0%	2.3%	0%
TERMINAL (d)	0/39 (0%)	0/31 (0%)	1/36 (3%)	0/40 (0%)
FIRST INCIDENCE	709	---	729 (T)	---
HC TUMORS SAME ROUTE	2/147 (1%)			
HC TUMORS ALL ROUTES	3/643 (1%)			
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Harderian Gland Adenoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	7/50 (14%)	3/50 (6%)	4/50 (8%)	3/50 (6%)
POLY-3 RATE (b)	7/46.68	3/43.16	4/44.39	3/46.90
POLY-3 PERCENT (g)	15%	7%	9%	6.4%
TERMINAL (d)	7/39 (18%)	3/31 (10%)	3/36 (8%)	2/40 (5%)
FIRST INCIDENCE	729 (T)	729 (T)	715	607
HC TUMORS SAME ROUTE	13/150 (9%)			
HC TUMORS ALL ROUTES	80/650 (12%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.210N	P=0.191N	P=0.290N	P=0.156N
POLY 1.5	P=0.223N	P=0.176N	P=0.279N	P=0.157N
POLY 6	P=0.193N	P=0.215N	P=0.306N	P=0.154N
COCH-ARM / FISHERS	P=0.238N	P=0.159N	P=0.262N	P=0.159N
MAX-ISO-POLY-3	P=0.119N	P=0.122N	P=0.197N	P=0.090N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)
CURR VS HC SAME RTE	P=0.377			
CURR VS HC ALL RTES	P=0.840			



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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Harderian Gland Carcinoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	5/50 (10%)	5/50 (10%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	5/46.76	5/43.78	1/44.33	1/46.48
POLY-3 PERCENT (g)	10.7%	11.4%	2.3%	2.2%
TERMINAL (d)	4/39 (10%)	2/31 (7%)	1/36 (3%)	1/40 (3%)
FIRST INCIDENCE	709	632	729 (T)	729 (T)
HC TUMORS SAME ROUTE	10/150 (7%)			
HC TUMORS ALL ROUTES	26/650 (4%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.053N	P=0.588	P=0.114N	P=0.103N
POLY 1.5	P=0.055N	P=0.607	P=0.109N	P=0.103N
POLY 6	P=0.051N	P=0.562	P=0.121N	P=0.104N
COCH-ARM / FISHERS	P=0.058N	P=0.630N	P=0.102N	P=0.102N
MAX-ISO-POLY-3	P=0.064N	P=0.457	P=0.056N	P=0.046N*
HISTCONT SAME RTE	P=1.000	P=0.142	P=1.000	P=1.000
HISTCONT ALL RTES	P=0.689	P=0.012*	P=1.000	P=1.000
CURR VS HC SAME RTE	P=0.457			
CURR VS HC ALL RTES	P=0.054			

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Harderian Gland Carcinoma or Adenoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	12/50 (24%)	8/50 (16%)	5/50 (10%)	4/50 (8%)
POLY-3 RATE (b)	12/46.76	8/43.78	5/44.39	4/46.90
POLY-3 PERCENT (g)	25.7%	18.3%	11.3%	8.5%
TERMINAL (d)	11/39 (28%)	5/31 (16%)	4/36 (11%)	3/40 (8%)
FIRST INCIDENCE	709	632	715	607
HC TUMORS SAME ROUTE	23/150 (15%)			
HC TUMORS ALL ROUTES	106/650 (16%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.027N*	P=0.276N	P=0.065N	P=0.025N*
POLY 1.5	P=0.030N*	P=0.254N	P=0.060N	P=0.026N*
POLY 6	P=0.023N*	P=0.312N	P=0.073N	P=0.024N*
COCH-ARM / FISHERS	P=0.035N*	P=0.227N	P=0.054N	P=0.027N*
MAX-ISO-POLY-3	P=0.016N*	P=0.206N	P=0.041N*	P=0.012N*
HISTCONT SAME RTE	P=1.000	P=1.000	P=1.000	P=1.000
HISTCONT ALL RTES	(h)	(h)	(h)	(h)
CURR VS HC SAME RTE	P=0.230			
CURR VS HC ALL RTES	P=0.215			

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Intestine Small: Site Unspecified Carcinoma or Adenoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	1/50 (2%)	2/50 (4%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	1/46.68	2/43.60	2/44.33	1/46.48
POLY-3 PERCENT (g)	2.1%	4.6%	4.5%	2.2%
TERMINAL (d)	1/39 (3%)	1/31 (3%)	2/36 (6%)	1/40 (3%)
FIRST INCIDENCE	729 (T)	598	729 (T)	729 (T)
HC TUMORS SAME ROUTE	6/150 (4%)			
HC TUMORS ALL ROUTES	19/650 (3%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.514N	P=0.476	P=0.482	P=0.760
POLY 1.5	P=0.517N	P=0.487	P=0.489	P=0.760
POLY 6	P=0.511N	P=0.460	P=0.473	P=0.759
COCH-ARM / FISHERS	P=0.521N	P=0.500	P=0.500	P=0.753N
MAX-ISO-POLY-3	P=0.531	P=0.267	P=0.270	P=0.498
HISTCONT SAME RTE	P=1.000	P=1.000	P=1.000	P=1.000
HISTCONT ALL RTES	P=0.716	P=0.495	P=1.000	P=1.000
CURR VS HC SAME RTE	P=0.547			
CURR VS HC ALL RTES	P=0.653			

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Islets, Pancreatic Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	2/50 (4%)	2/50 (4%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	2/46.68	2/43.16	1/44.94	1/46.48
POLY-3 PERCENT (g)	4.3%	4.6%	2.2%	2.2%
TERMINAL (d)	2/39 (5%)	2/31 (7%)	0/36 (0%)	1/40 (3%)
FIRST INCIDENCE	729 (T)	729 (T)	534	729 (T)
HC TUMORS SAME ROUTE	4/147 (3%)			
HC TUMORS ALL ROUTES	15/645 (2%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.385N	P=0.665	P=0.513N	P=0.502N
POLY 1.5	P=0.389N	P=0.678	P=0.508N	P=0.501N
POLY 6	P=0.380N	P=0.646	P=0.520N	P=0.503N
COCH-ARM / FISHERS	P=0.393N	P=0.691N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.430N	P=0.468	P=0.295N	P=0.282N
HISTCONT SAME RTE	P=1.000	P=0.493	P=1.000	P=1.000
HISTCONT ALL RTEs	P=0.719	P=0.350	P=1.000	P=1.000
CURR VS HC SAME RTE	P=0.698			
CURR VS HC ALL RTEs	P=0.508			

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**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Kidney: Renal Tubule Carcinoma or Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	0/46.68	0/43.16	2/44.94	1/46.48
POLY-3 PERCENT (g)	0%	0%	4.5%	2.2%
TERMINAL (d)	0/39 (0%)	0/31 (0%)	1/36 (3%)	1/40 (3%)
FIRST INCIDENCE	---	---	534	729 (T)
HC TUMORS SAME ROUTE	0/148 (0%)			
HC TUMORS ALL ROUTES	6/644 (1%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.389	(e)	P=0.229	P=0.499
POLY 1.5	P=0.383	(e)	P=0.232	P=0.499
POLY 6	P=0.397	(e)	P=0.224	P=0.499
COCH-ARM / FISHERS	P=0.377	(e)	P=0.247	P=0.500
MAX-ISO-POLY-3	P=0.169	(e)	P=0.076	P=0.159
HISTCONT SAME RTE	P=0.107	(e)	P=0.078	P=0.245
HISTCONT ALL RTES	P=0.170	(e)	P=0.047*	P=1.000
CURR VS HC SAME RTE	P=1.000			
CURR VS HC ALL RTES	P=0.434			

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 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Liver</b>				
<b>Hepatocellular Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	24/50 (48%)	24/50 (48%)	25/50 (50%)	30/49 (61%)
POLY-3 RATE (b)	24/48.51	24/46.46	25/45.46	30/48.29
POLY-3 PERCENT (g)	49.5%	51.7%	55%	62.1%
TERMINAL (d)	20/39 (51%)	14/31 (45%)	20/36 (56%)	25/40 (63%)
FIRST INCIDENCE	499	547	636	344
HC TUMORS SAME ROUTE	91/149 (61%)			
HC TUMORS ALL ROUTES	395/649 (61%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.110	P=0.497	P=0.370	P=0.145
POLY 1.5	P=0.097	P=0.531	P=0.419	P=0.140
POLY 6	P=0.129	P=0.456	P=0.324	P=0.153
COCH-ARM / FISHERS	P=0.081	P=0.579N	P=0.500	P=0.131
MAX-ISO-POLY-3	P=0.163	P=0.415	P=0.301	P=0.104
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)
CURR VS HC SAME RTE	P=0.050*			
CURR VS HC ALL RTES	P=0.018*			

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Liver</b>				
<b>Hepatocellular Carcinoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	11/50 (22%)	17/50 (34%)	8/50 (16%)	15/49 (31%)
POLY-3 RATE (b)	11/47.93	17/46.31	8/45.81	15/47.60
POLY-3 PERCENT (g)	23%	36.7%	17.5%	31.5%
TERMINAL (d)	5/39 (13%)	7/31 (23%)	4/36 (11%)	9/40 (23%)
FIRST INCIDENCE	565	547	438	572
HC TUMORS SAME ROUTE	46/149 (31%)			
HC TUMORS ALL ROUTES	244/649 (38%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.362	P=0.107	P=0.344N	P=0.239
POLY 1.5	P=0.346	P=0.118	P=0.328N	P=0.233
POLY 6	P=0.386	P=0.092	P=0.367N	P=0.249
COCH-ARM / FISHERS	P=0.333	P=0.133	P=0.306N	P=0.228
MAX-ISO-POLY-3	P=0.275	P=0.074	P=0.260N	P=0.175
HISTCONT SAME RTE	P=0.735	P=0.383	P=1.000	P=1.000
HISTCONT ALL RTES	(h)	(h)	(h)	(h)
CURR VS HC SAME RTE	P=0.248			
CURR VS HC ALL RTES	P=0.020*			

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Liver</b>				
<b>Hepatocellular Carcinoma or Hepatoblastoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	11/50 (22%)	18/50 (36%)	8/50 (16%)	15/49 (31%)
POLY-3 RATE (b)	11/47.93	18/46.31	8/45.81	15/47.60
POLY-3 PERCENT (g)	23%	38.9%	17.5%	31.5%
TERMINAL (d)	5/39 (13%)	8/31 (26%)	4/36 (11%)	9/40 (23%)
FIRST INCIDENCE	565	547	438	572
HC TUMORS SAME ROUTE	47/149 (32%)			
HC TUMORS ALL ROUTES	256/649 (39%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.403	P=0.071	P=0.344N	P=0.239
POLY 1.5	P=0.387	P=0.080	P=0.328N	P=0.233
POLY 6	P=0.428	P=0.060	P=0.367N	P=0.249
COCH-ARM / FISHERS	P=0.372	P=0.093	P=0.306N	P=0.228
MAX-ISO-POLY-3	P=0.276	P=0.048*	P=0.260N	P=0.175
HISTCONT SAME RTE	P=1.000	P=0.318	P=1.000	P=1.000
HISTCONT ALL RTES	(h)	(h)	(h)	(h)
CURR VS HC SAME RTE	P=0.218			
CURR VS HC ALL RTES	P=0.011*			



Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Liver</b>				
<b>Hepatocellular Carcinoma or Hepatocellular Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	32/50 (64%)	32/50 (64%)	31/50 (62%)	35/49 (71%)
POLY-3 RATE (b)	32/49.22	32/47.77	31/46.69	35/48.92
POLY-3 PERCENT (g)	65%	67%	66.4%	71.6%
TERMINAL (d)	23/39 (59%)	18/31 (58%)	23/36 (64%)	27/40 (68%)
FIRST INCIDENCE	499	547	438	344
HC TUMORS SAME ROUTE	115/149 (77%)			
HC TUMORS ALL ROUTES	498/649 (77%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.281	P=0.503	P=0.529	P=0.316
POLY 1.5	P=0.252	P=0.535	P=0.582	P=0.303
POLY 6	P=0.320	P=0.464	P=0.471	P=0.334
COCH-ARM / FISHERS	P=0.214	P=0.582N	P=0.500N	P=0.283
MAX-ISO-POLY-3	P=0.391	P=0.417	P=0.442	P=0.245
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)
CURR VS HC SAME RTE	P=0.019*			
CURR VS HC ALL RTES	P=0.014*			

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Liver</b>				
<b>Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	32/50 (64%)	33/50 (66%)	31/50 (62%)	35/49 (71%)
POLY-3 RATE (b)	32/49.22	33/47.77	31/46.69	35/48.92
POLY-3 PERCENT (g)	65%	69.1%	66.4%	71.6%
TERMINAL (d)	23/39 (59%)	19/31 (61%)	23/36 (64%)	27/40 (68%)
FIRST INCIDENCE	499	547	438	344
HC TUMORS SAME ROUTE	115/149 (77%)			
HC TUMORS ALL ROUTES	499/649 (77%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.315	P=0.416	P=0.529	P=0.316
POLY 1.5	P=0.283	P=0.450	P=0.582	P=0.303
POLY 6	P=0.357	P=0.376	P=0.471	P=0.334
COCH-ARM / FISHERS	P=0.242	P=0.500	P=0.500N	P=0.283
MAX-ISO-POLY-3	P=0.389	P=0.335	P=0.442	P=0.245
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)
CURR VS HC SAME RTE	P=0.019*			
CURR VS HC ALL RTES	P=0.013*			

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Liver</b>				
<b>Hepatocholangiocarcinoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	0/49 (0%)
POLY-3 RATE (b)	0/46.68	0/43.16	2/45.72	0/45.73
POLY-3 PERCENT (g)	0%	0%	4.4%	0%
TERMINAL (d)	0/39 (0%)	0/31 (0%)	0/36 (0%)	0/40 (0%)
FIRST INCIDENCE	---	---	438	---
HC TUMORS SAME ROUTE	1/149 (1%)			
HC TUMORS ALL ROUTES	10/649 (2%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.675N	(e)	P=0.233	(e)
POLY 1.5	P=0.680N	(e)	P=0.235	(e)
POLY 6	P=0.668N	(e)	P=0.229	(e)
COCH-ARM / FISHERS	P=0.684N	(e)	P=0.247	(e)
MAX-ISO-POLY-3	P=0.251	(e)	P=0.076	(e)
HISTCONT SAME RTE	P=0.379	(e)	P=0.138	(e)
HISTCONT ALL RTES	P=0.685	(e)	P=0.242	(e)
CURR VS HC SAME RTE	P=0.333			
CURR VS HC ALL RTES	P=0.326			

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Lung</b>				
<b>Alveolar/Bronchiolar Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	5/50 (10%)	2/50 (4%)	8/50 (16%)	9/50 (18%)
POLY-3 RATE (b)	5/46.68	2/43.16	8/44.90	9/47.33
POLY-3 PERCENT (g)	10.7%	4.6%	17.8%	19%
TERMINAL (d)	5/39 (13%)	2/31 (7%)	6/36 (17%)	7/40 (18%)
FIRST INCIDENCE	729 (T)	729 (T)	573	590
HC TUMORS SAME ROUTE	20/150 (13%)			
HC TUMORS ALL ROUTES	95/650 (15%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.068	P=0.249N	P=0.250	P=0.200
POLY 1.5	P=0.061	P=0.234N	P=0.261	P=0.197
POLY 6	P=0.079	P=0.272N	P=0.238	P=0.204
COCH-ARM / FISHERS	P=0.055	P=0.218N	P=0.277	P=0.194
MAX-ISO-POLY-3	P=0.082	P=0.151N	P=0.171	P=0.131
HISTCONT SAME RTE	P=0.310	P=1.000	P=0.389	P=0.299
HISTCONT ALL RTES	P=0.535	P=1.000	P=0.496	P=0.391
CURR VS HC SAME RTE	P=0.499			
CURR VS HC ALL RTES	P=0.288			

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Lung</b>				
<b>Alveolar/Bronchiolar Carcinoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	8/50 (16%)	8/50 (16%)	8/50 (16%)	10/50 (20%)
POLY-3 RATE (b)	8/47.50	8/44.51	8/46.52	10/47.79
POLY-3 PERCENT (g)	16.8%	18%	17.2%	20.9%
TERMINAL (d)	6/39 (15%)	4/31 (13%)	3/36 (8%)	6/40 (15%)
FIRST INCIDENCE	541	547	534	590
HC TUMORS SAME ROUTE	31/150 (21%)			
HC TUMORS ALL ROUTES	93/650 (14%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.354	P=0.552	P=0.590	P=0.403
POLY 1.5	P=0.340	P=0.576	P=0.596	P=0.399
POLY 6	P=0.375	P=0.517	P=0.583	P=0.408
COCH-ARM / FISHERS	P=0.323	P=0.607N	P=0.607N	P=0.398
MAX-ISO-POLY-3	P=0.484	P=0.443	P=0.481	P=0.307
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	P=0.398	P=0.454	P=1.000	P=0.257
CURR VS HC SAME RTE	P=0.352			
CURR VS HC ALL RTES	P=0.893			

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Lung</b>				
<b>Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	13/50 (26%)	9/50 (18%)	14/50 (28%)	17/50 (34%)
POLY-3 RATE (b)	13/47.50	9/44.51	14/46.57	17/48.17
POLY-3 PERCENT (g)	27.4%	20.2%	30.1%	35.3%
TERMINAL (d)	11/39 (28%)	5/31 (16%)	8/36 (22%)	12/40 (30%)
FIRST INCIDENCE	541	547	534	590
HC TUMORS SAME ROUTE	48/150 (32%)			
HC TUMORS ALL ROUTES	180/650 (28%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.120	P=0.288N	P=0.476	P=0.270
POLY 1.5	P=0.106	P=0.264N	P=0.484	P=0.262
POLY 6	P=0.141	P=0.326N	P=0.467	P=0.281
COCH-ARM / FISHERS	P=0.094	P=0.235N	P=0.500	P=0.257
MAX-ISO-POLY-3	P=0.173	P=0.219N	P=0.386	P=0.204
HISTCONT SAME RTE	P=0.512	P=1.000	P=1.000	P=1.000
HISTCONT ALL RTES	P=0.334	P=1.000	P=1.000	P=0.203
CURR VS HC SAME RTE	P=0.365			
CURR VS HC ALL RTES	P=0.608			

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Mammary Gland Carcinoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/46.68	0/43.16	0/44.33	0/46.48
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/39 (0%)	0/31 (0%)	0/36 (0%)	0/40 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	0/150 (0%)			
HC TUMORS ALL ROUTES	0/650 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Mammary Gland Carcinoma or Adenoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/46.68	0/43.16	0/44.33	0/46.48
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/39 (0%)	0/31 (0%)	0/36 (0%)	0/40 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	0/150 (0%)			
HC TUMORS ALL ROUTES	0/650 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			



Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Mammary Gland</b>				
<b>Fibroma, Fibroadenoma, Carcinoma, or Adenoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/46.68	0/43.16	0/44.33	0/46.48
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/39 (0%)	0/31 (0%)	0/36 (0%)	0/40 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	0/150 (0%)			
HC TUMORS ALL ROUTES	0/650 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Mesentery Hemangioma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	1/46.68	0/43.16	0/44.33	0/46.48
POLY-3 PERCENT (g)	2.1%	0%	0%	0%
TERMINAL (d)	1/39 (3%)	0/31 (0%)	0/36 (0%)	0/40 (0%)
FIRST INCIDENCE	729 (T)	---	---	---
HC TUMORS SAME ROUTE	0/150 (0%)			
HC TUMORS ALL ROUTES	0/650 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Pituitary Gland: Pars Distalis or Unspecified Site Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/48 (0%)
POLY-3 RATE (b)	0/46.68	0/43.16	0/44.33	0/44.48
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/39 (0%)	0/31 (0%)	0/36 (0%)	0/38 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	1/146 (1%)			
HC TUMORS ALL ROUTES	2/638 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Pituitary Gland: Pars Intermedia Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/48 (0%)
POLY-3 RATE (b)	0/46.68	0/43.16	0/44.33	0/44.48
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/39 (0%)	0/31 (0%)	0/36 (0%)	0/38 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	0/146 (0%)			
HC TUMORS ALL ROUTES	1/638 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Skin</b>				
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous Histiocytoma				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/46.68	0/43.16	2/44.33	0/46.48
POLY-3 PERCENT (g)	0%	0%	4.5%	0%
TERMINAL (d)	0/39 (0%)	0/31 (0%)	2/36 (6%)	0/40 (0%)
FIRST INCIDENCE	---	---	729 (T)	---
HC TUMORS SAME ROUTE	3/150 (2%)			
HC TUMORS ALL ROUTES	7/650 (1%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.671N	(e)	P=0.226	(e)
POLY 1.5	P=0.676N	(e)	P=0.230	(e)
POLY 6	P=0.666N	(e)	P=0.220	(e)
COCH-ARM / FISHERS	P=0.679N	(e)	P=0.247	(e)
MAX-ISO-POLY-3	P=0.245	(e)	P=0.076	(e)
HISTCONT SAME RTE	P=0.677	(e)	P=0.358	(e)
HISTCONT ALL RTES	P=0.455	(e)	P=0.053	(e)
CURR VS HC SAME RTE	P=0.251			
CURR VS HC ALL RTES	P=0.359			

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Skin</b>				
<b>Hemangiosarcoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/46.68	0/43.16	0/44.33	1/46.48
POLY-3 PERCENT (g)	0%	0%	0%	2.2%
TERMINAL (d)	0/39 (0%)	0/31 (0%)	0/36 (0%)	1/40 (3%)
FIRST INCIDENCE	---	---	---	729 (T)
HC TUMORS SAME ROUTE	3/150 (2%)			
HC TUMORS ALL ROUTES	10/650 (2%)			
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Spleen Hemangiosarcoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/49 (0%)	0/49 (0%)
POLY-3 RATE (b)	0/46.68	2/43.50	0/43.64	0/45.95
POLY-3 PERCENT (g)	0%	4.6%	0%	0%
TERMINAL (d)	0/39 (0%)	1/31 (3%)	0/36 (0%)	0/40 (0%)
FIRST INCIDENCE	---	632	---	---
HC TUMORS SAME ROUTE	6/147 (4%)			
HC TUMORS ALL ROUTES	23/638 (4%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.399N	P=0.222	(e)	(e)
POLY 1.5	P=0.395N	P=0.229	(e)	(e)
POLY 6	P=0.405N	P=0.212	(e)	(e)
COCH-ARM / FISHERS	P=0.391N	P=0.247	(e)	(e)
MAX-ISO-POLY-3	P=0.244N	P=0.076	(e)	(e)
HISTCONT SAME RTE	(h)	(h)	(e)	(e)
HISTCONT ALL RTES	P=1.000	P=1.000	(e)	(e)
CURR VS HC SAME RTE	P=0.097			
CURR VS HC ALL RTES	P=0.115			

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Thyroid Gland: Follicular Cell Carcinoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/49 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/46.68	0/43.16	0/43.33	0/46.48
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/39 (0%)	0/31 (0%)	0/35 (0%)	0/40 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	0/148 (0%)			
HC TUMORS ALL ROUTES	1/645 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			



Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>All Organs</b>				
<b>Hemangioma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	1/46.68	0/43.16	1/44.33	0/46.48
POLY-3 PERCENT (g)	2.1%	0%	2.3%	0%
TERMINAL (d)	1/39 (3%)	0/31 (0%)	1/36 (3%)	0/40 (0%)
FIRST INCIDENCE	729 (T)	---	729 (T)	---
HC TUMORS SAME ROUTE	1/150 (1%)			
HC TUMORS ALL ROUTES	7/650 (1%)			
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>All Organs</b>				
<b>Hemangiosarcoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	1/50 (2%)	4/50 (8%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	1/47.23	4/44.62	1/44.33	1/46.48
POLY-3 PERCENT (g)	2.1%	9%	2.3%	2.2%
TERMINAL (d)	0/39 (0%)	1/31 (3%)	1/36 (3%)	1/40 (3%)
FIRST INCIDENCE	559	547	729 (T)	729 (T)
HC TUMORS SAME ROUTE	13/150 (9%)			
HC TUMORS ALL ROUTES	69/650 (11%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.347N	P=0.162	P=0.746	P=0.757
POLY 1.5	P=0.345N	P=0.170	P=0.752	P=0.758
POLY 6	P=0.350N	P=0.151	P=0.739	P=0.755
COCH-ARM / FISHERS	P=0.343N	P=0.181	P=0.753N	P=0.753N
MAX-ISO-POLY-3	P=0.328N	P=0.080	P=0.482	P=0.495
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)
CURR VS HC SAME RTE	P=0.120			
CURR VS HC ALL RTES	P=0.033*			

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>All Organs</b>				
<b>Hemangiosarcoma or Hemangioma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	2/50 (4%)	4/50 (8%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	2/47.23	4/44.62	2/44.33	1/46.48
POLY-3 PERCENT (g)	4.2%	9%	4.5%	2.2%
TERMINAL (d)	1/39 (3%)	1/31 (3%)	2/36 (6%)	1/40 (3%)
FIRST INCIDENCE	559	547	729 (T)	729 (T)
HC TUMORS SAME ROUTE	14/150 (9%)			
HC TUMORS ALL ROUTES	76/650 (12%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.241N	P=0.311	P=0.671	P=0.506N
POLY 1.5	P=0.242N	P=0.323	P=0.680	P=0.504N
POLY 6	P=0.241N	P=0.294	P=0.659	P=0.509N
COCH-ARM / FISHERS	P=0.240N	P=0.339	P=0.691N	P=0.500N
MAX-ISO-POLY-3	P=0.265N	P=0.188	P=0.474	P=0.287N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)
CURR VS HC SAME RTE	P=0.224			
CURR VS HC ALL RTES	P=0.061			

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>All Organs</b>				
<b>Histiocytic Sarcoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	1/46.76	0/43.16	1/44.33	0/46.48
POLY-3 PERCENT (g)	2.1%	0%	2.3%	0%
TERMINAL (d)	0/39 (0%)	0/31 (0%)	1/36 (3%)	0/40 (0%)
FIRST INCIDENCE	709	---	729 (T)	---
HC TUMORS SAME ROUTE	1/150 (1%)			
HC TUMORS ALL ROUTES	4/650 (1%)			
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>All Organs</b>				
<b>Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or Undifferentiated Cell Type</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	3/50 (6%)	5/50 (10%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	3/46.70	5/43.77	1/44.33	1/46.48
POLY-3 PERCENT (g)	6.4%	11.4%	2.3%	2.2%
TERMINAL (d)	2/39 (5%)	3/31 (10%)	1/36 (3%)	1/40 (3%)
FIRST INCIDENCE	724	628	729 (T)	729 (T)
HC TUMORS SAME ROUTE	6/150 (4%)			
HC TUMORS ALL ROUTES	30/650 (5%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.125N	P=0.321	P=0.324N	P=0.307N
POLY 1.5	P=0.126N	P=0.337	P=0.317N	P=0.307N
POLY 6	P=0.123N	P=0.299	P=0.334N	P=0.308N
COCH-ARM / FISHERS	P=0.128N	P=0.357	P=0.309N	P=0.309N
MAX-ISO-POLY-3	P=0.122N	P=0.210	P=0.174N	P=0.156N
HISTCONT SAME RTE	P=0.686	P=0.050*	P=1.000	P=1.000
HISTCONT ALL RTES	P=1.000	P=0.024*	P=1.000	P=1.000
CURR VS HC SAME RTE	P=0.562			
CURR VS HC ALL RTES	P=0.730			

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>All Organs</b>				
<b>Benign Tumors</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	39/50 (78%)	33/50 (66%)	33/50 (66%)	38/50 (76%)
POLY-3 RATE (b)	39/48.95	33/47.31	33/46.70	38/49.50
POLY-3 PERCENT (g)	79.7%	69.8%	70.7%	76.8%
TERMINAL (d)	32/39 (82%)	21/31 (68%)	25/36 (69%)	31/40 (78%)
FIRST INCIDENCE	499	547	534	344
HC TUMORS SAME ROUTE	111/150 (74%)			
HC TUMORS ALL ROUTES	469/650 (72%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.478	P=0.182N	P=0.211N	P=0.458N
POLY 1.5	P=0.436	P=0.159N	P=0.177N	P=0.474N
POLY 6	P=0.523	P=0.217N	P=0.251N	P=0.447N
COCH-ARM / FISHERS	P=0.375	P=0.133N	P=0.133N	P=0.500N
MAX-ISO-POLY-3	P=0.326N	P=0.129N	P=0.153N	P=0.362N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	P=0.721	P=1.000	P=1.000	P=1.000
CURR VS HC SAME RTE	P=0.720			
CURR VS HC ALL RTES	P=0.624			

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>All Organs</b>				
<b>Malignant Tumors</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	26/50 (52%)	31/50 (62%)	17/50 (34%)	23/50 (46%)
POLY-3 RATE (b)	26/49.32	31/47.91	17/47.75	23/49.03
POLY-3 PERCENT (g)	52.7%	64.7%	35.6%	46.9%
TERMINAL (d)	16/39 (41%)	16/31 (52%)	9/36 (25%)	15/40 (38%)
FIRST INCIDENCE	541	547	438	572
HC TUMORS SAME ROUTE	92/150 (61%)			
HC TUMORS ALL ROUTES	408/650 (63%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.170N	P=0.159	P=0.066N	P=0.355N
POLY 1.5	P=0.179N	P=0.178	P=0.059N	P=0.355N
POLY 6	P=0.159N	P=0.137	P=0.076N	P=0.353N
COCH-ARM / FISHERS	P=0.187N	P=0.210	P=0.053N	P=0.345N
MAX-ISO-POLY-3	P=0.064N	P=0.117	P=0.046N*	P=0.285N
HISTCONT SAME RTE	P=1.000	P=1.000	P=1.000	P=1.000
HISTCONT ALL RTES	(h)	(h)	(h)	(h)
CURR VS HC SAME RTE	P=0.231			
CURR VS HC ALL RTES	P=0.081			

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Males			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>All Organs</b>				
<b>Malignant and Benign Tumors</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	46/50 (92%)	46/50 (92%)	40/50 (80%)	44/50 (88%)
POLY-3 RATE (b)	46/50.00	46/49.22	40/48.62	44/49.92
POLY-3 PERCENT (g)	92%	93.5%	82.3%	88.1%
TERMINAL (d)	35/39 (90%)	28/31 (90%)	28/36 (78%)	35/40 (88%)
FIRST INCIDENCE	499	547	438	344
HC TUMORS SAME ROUTE	142/150 (95%)			
HC TUMORS ALL ROUTES	597/650 (92%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.306N	P=0.542	P=0.122N	P=0.379N
POLY 1.5	P=0.319N	P=0.577	P=0.101N	P=0.375N
POLY 6	P=0.302N	P=0.518	P=0.146N	P=0.386N
COCH-ARM / FISHERS	P=0.353N	P=0.643N	P=0.074N	P=0.370N
MAX-ISO-POLY-3	P=0.181N	P=0.389	P=0.073N	P=0.261N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	P=1.000	P=1.000	P=1.000	P=1.000
CURR VS HC SAME RTE	P=0.342			
CURR VS HC ALL RTES	P=0.720			



Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Adrenal Cortex</b>				
<b>Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	0/49 (0%)	2/50 (4%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/44.40	2/45.68	2/45.92	0/43.61
POLY-3 PERCENT (g)	0%	4.4%	4.4%	0%
TERMINAL (d)	0/39 (0%)	2/37 (5%)	2/37 (5%)	0/33 (0%)
FIRST INCIDENCE	---	731 (T)	731 (T)	---
HC TUMORS SAME ROUTE	1/150 (1%)			
HC TUMORS ALL ROUTES	3/649 (1%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.385N	P=0.244	P=0.245	(e)
POLY 1.5	P=0.377N	P=0.245	P=0.245	(e)
POLY 6	P=0.397N	P=0.239	P=0.242	(e)
COCH-ARM / FISHERS	P=0.370N	P=0.253	P=0.253	(e)
MAX-ISO-POLY-3	P=0.291	P=0.081	P=0.082	(e)
HISTCONT SAME RTE	P=0.343	P=0.139	P=0.139	(e)
HISTCONT ALL RTEs	P=0.162	P=0.006**	P=0.006**	(e)
CURR VS HC SAME RTE	P=0.350			
CURR VS HC ALL RTEs	P=0.498			

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Adrenal Medulla</b>				
<b>Pheochromocytoma Benign</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	1/49 (2%)	2/50 (4%)	1/49 (2%)	0/50 (0%)
POLY-3 RATE (b)	1/44.40	2/45.68	1/45.11	0/43.61
POLY-3 PERCENT (g)	2.3%	4.4%	2.2%	0%
TERMINAL (d)	1/39 (3%)	2/37 (5%)	1/37 (3%)	0/33 (0%)
FIRST INCIDENCE	731 (T)	731 (T)	731 (T)	---
HC TUMORS SAME ROUTE	3/150 (2%)			
HC TUMORS ALL ROUTES	9/649 (1%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.244N	P=0.510	P=0.757N	P=0.504N
POLY 1.5	P=0.240N	P=0.512	P=0.757N	P=0.500N
POLY 6	P=0.251N	P=0.504	P=0.759N	P=0.510N
COCH-ARM / FISHERS	P=0.234N	P=0.508	P=0.753N	P=0.495N
MAX-ISO-POLY-3	P=0.247N	P=0.291	P=0.495N	P=0.164N
HISTCONT SAME RTE	P=1.000	P=0.423	P=1.000	P=1.000
HISTCONT ALL RTES	P=0.644	P=0.172	P=1.000	P=1.000
CURR VS HC SAME RTE	P=0.945			
CURR VS HC ALL RTES	P=0.725			

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Adrenal Medulla</b>				
<b>Pheochromocytoma: Benign, Complex, Malignant, NOS</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	1/49 (2%)	2/50 (4%)	2/49 (4%)	0/50 (0%)
POLY-3 RATE (b)	1/44.40	2/45.68	2/45.11	0/43.61
POLY-3 PERCENT (g)	2.3%	4.4%	4.4%	0%
TERMINAL (d)	1/39 (3%)	2/37 (5%)	2/37 (5%)	0/33 (0%)
FIRST INCIDENCE	731 (T)	731 (T)	731 (T)	---
HC TUMORS SAME ROUTE	4/150 (3%)			
HC TUMORS ALL ROUTES	13/649 (2%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.254N	P=0.510	P=0.505	P=0.504N
POLY 1.5	P=0.248N	P=0.512	P=0.506	P=0.500N
POLY 6	P=0.262N	P=0.504	P=0.503	P=0.510N
COCH-ARM / FISHERS	P=0.240N	P=0.508	P=0.500	P=0.495N
MAX-ISO-POLY-3	P=0.249N	P=0.291	P=0.287	P=0.164N
HISTCONT SAME RTE	P=1.000	P=1.000	P=1.000	P=1.000
HISTCONT ALL RTEs	P=0.655	P=0.314	P=0.307	P=1.000
CURR VS HC SAME RTE	P=0.848			
CURR VS HC ALL RTEs	P=0.993			

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Harderian Gland Adenoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	2/50 (4%)	6/50 (12%)	3/50 (6%)	1/50 (2%)
POLY-3 RATE (b)	2/45.30	6/45.89	3/45.92	1/43.92
POLY-3 PERCENT (g)	4.4%	13.1%	6.5%	2.3%
TERMINAL (d)	2/39 (5%)	5/37 (14%)	3/37 (8%)	0/33 (0%)
FIRST INCIDENCE	731 (T)	677	731 (T)	644
HC TUMORS SAME ROUTE	7/150 (5%)			
HC TUMORS ALL ROUTES	47/650 (7%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.160N	P=0.137	P=0.506	P=0.511N
POLY 1.5	P=0.155N	P=0.139	P=0.507	P=0.505N
POLY 6	P=0.168N	P=0.132	P=0.502	P=0.519N
COCH-ARM / FISHERS	P=0.150N	P=0.134	P=0.500	P=0.500N
MAX-ISO-POLY-3	P=0.183N	P=0.072	P=0.330	P=0.292N
HISTCONT SAME RTE	P=0.561	P=0.061	P=1.000	P=1.000
HISTCONT ALL RTES	P=1.000	P=0.113	P=1.000	P=1.000
CURR VS HC SAME RTE	P=0.781			
CURR VS HC ALL RTES	P=0.380			

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Harderian Gland Carcinoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	1/50 (2%)	2/50 (4%)
POLY-3 RATE (b)	0/45.30	1/45.68	1/46.23	2/43.61
POLY-3 PERCENT (g)	0%	2.2%	2.2%	4.6%
TERMINAL (d)	0/39 (0%)	1/37 (3%)	0/37 (0%)	2/33 (6%)
FIRST INCIDENCE	---	731 (T)	644	731 (T)
HC TUMORS SAME ROUTE	5/150 (3%)			
HC TUMORS ALL ROUTES	15/650 (2%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.189	P=0.502	P=0.504	P=0.229
POLY 1.5	P=0.194	P=0.503	P=0.504	P=0.233
POLY 6	P=0.182	P=0.498	P=0.503	P=0.222
COCH-ARM / FISHERS	P=0.200	P=0.500	P=0.500	P=0.247
MAX-ISO-POLY-3	P=0.124	P=0.161	P=0.164	P=0.076
HISTCONT SAME RTE	P=0.304	P=1.000	P=1.000	P=1.000
HISTCONT ALL RTES	P=0.287	P=1.000	P=1.000	P=0.310
CURR VS HC SAME RTE	P=0.116			
CURR VS HC ALL RTES	P=0.238			

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Harderian Gland Carcinoma or Adenoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	2/50 (4%)	7/50 (14%)	4/50 (8%)	3/50 (6%)
POLY-3 RATE (b)	2/45.30	7/45.89	4/46.23	3/43.92
POLY-3 PERCENT (g)	4.4%	15.3%	8.7%	6.8%
TERMINAL (d)	2/39 (5%)	6/37 (16%)	3/37 (8%)	2/33 (6%)
FIRST INCIDENCE	731 (T)	677	644	644
HC TUMORS SAME ROUTE	12/150 (8%)			
HC TUMORS ALL ROUTES	62/650 (10%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.428N	P=0.082	P=0.347	P=0.486
POLY 1.5	P=0.417N	P=0.083	P=0.347	P=0.493
POLY 6	P=0.443N	P=0.078	P=0.344	P=0.475
COCH-ARM / FISHERS	P=0.405N	P=0.080	P=0.339	P=0.500
MAX-ISO-POLY-3	P=0.275	P=0.041*	P=0.210	P=0.314
HISTCONT SAME RTE	P=0.659	P=0.125	P=1.000	P=1.000
HISTCONT ALL RTES	P=1.000	P=0.137	P=1.000	P=1.000
CURR VS HC SAME RTE	P=0.283			
CURR VS HC ALL RTES	P=0.181			

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Intestine Small: Site Unspecified Carcinoma or Adenoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	1/50 (2%)	1/50 (2%)	1/50 (2%)	0/50 (0%)
POLY-3 RATE (b)	1/45.47	1/45.68	1/45.92	0/43.61
POLY-3 PERCENT (g)	2.2%	2.2%	2.2%	0%
TERMINAL (d)	0/39 (0%)	1/37 (3%)	1/37 (3%)	0/33 (0%)
FIRST INCIDENCE	686	731 (T)	731 (T)	---
HC TUMORS SAME ROUTE	0/150 (0%)			
HC TUMORS ALL ROUTES	5/650 (1%)			
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Islets, Pancreatic Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	1/50 (2%)	1/50 (2%)	1/50 (2%)	1/49 (2%)
POLY-3 RATE (b)	1/45.30	1/45.68	1/45.92	1/43.29
POLY-3 PERCENT (g)	2.2%	2.2%	2.2%	2.3%
TERMINAL (d)	1/39 (3%)	1/37 (3%)	1/37 (3%)	0/33 (0%)
FIRST INCIDENCE	731 (T)	731 (T)	731 (T)	688
HC TUMORS SAME ROUTE	0/150 (0%)			
HC TUMORS ALL ROUTES	7/643 (1%)			
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			



Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Kidney: Renal Tubule Carcinoma or Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/45.30	0/45.68	0/45.92	0/43.61
POLY-3 PERCENT (g)	0%	0%	0%	0%
TERMINAL (d)	0/39 (0%)	0/37 (0%)	0/37 (0%)	0/33 (0%)
FIRST INCIDENCE	---	---	---	---
HC TUMORS SAME ROUTE	0/150 (0%)			
HC TUMORS ALL ROUTES	0/647 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Liver</b>				
<b>Hepatocellular Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	14/50 (28%)	14/50 (28%)	14/50 (28%)	10/50 (20%)
POLY-3 RATE (b)	14/46.93	14/47.18	14/46.95	10/44.04
POLY-3 PERCENT (g)	29.8%	29.7%	29.8%	22.7%
TERMINAL (d)	11/39 (28%)	10/37 (27%)	10/37 (27%)	7/33 (21%)
FIRST INCIDENCE	527	583	576	669
HC TUMORS SAME ROUTE	47/150 (31%)			
HC TUMORS ALL ROUTES	258/649 (40%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.239N	P=0.582N	P=0.588N	P=0.297N
POLY 1.5	P=0.212N	P=0.574N	P=0.579N	P=0.270N
POLY 6	P=0.272N	P=0.581	P=0.576	P=0.335N
COCH-ARM / FISHERS	P=0.177N	P=0.588N	P=0.588N	P=0.241N
MAX-ISO-POLY-3	P=0.381N	P=0.493N	P=0.499N	P=0.228N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)
CURR VS HC SAME RTE	P=0.454			
CURR VS HC ALL RTES	P=0.106			

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Liver</b>				
<b>Hepatocellular Carcinoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	10/50 (20%)	9/50 (18%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	10/45.73	9/47.01	2/46.23	1/43.61
POLY-3 PERCENT (g)	21.9%	19.2%	4.3%	2.3%
TERMINAL (d)	9/39 (23%)	5/37 (14%)	1/37 (3%)	1/33 (3%)
FIRST INCIDENCE	605	552	644	731 (T)
HC TUMORS SAME ROUTE	16/150 (11%)			
HC TUMORS ALL ROUTES	105/649 (16%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.002N**	P=0.473N	P=0.012N*	P=0.005N**
POLY 1.5	P=0.002N**	P=0.476N	P=0.012N*	P=0.004N**
POLY 6	P=0.003N**	P=0.478N	P=0.013N*	P=0.006N**
COCH-ARM / FISHERS	P=0.002N**	P=0.500N	P=0.014N*	P=0.004N**
MAX-ISO-POLY-3	P=0.004N**	P=0.374N	P=0.005N**	P=0.002N**
HISTCONT SAME RTE	P=1.000	P=0.110	P=1.000	P=1.000
HISTCONT ALL RTES	P=1.000	P=0.492	P=1.000	P=1.000
CURR VS HC SAME RTE	P=0.106			
CURR VS HC ALL RTES	P=0.544			

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Liver</b>				
<b>Hepatocellular Carcinoma or Hepatoblastoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	10/50 (20%)	9/50 (18%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	10/45.73	9/47.01	2/46.23	1/43.61
POLY-3 PERCENT (g)	21.9%	19.2%	4.3%	2.3%
TERMINAL (d)	9/39 (23%)	5/37 (14%)	1/37 (3%)	1/33 (3%)
FIRST INCIDENCE	605	552	644	731 (T)
HC TUMORS SAME ROUTE	16/150 (11%)			
HC TUMORS ALL ROUTES	108/649 (17%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.002N**	P=0.473N	P=0.012N*	P=0.005N**
POLY 1.5	P=0.002N**	P=0.476N	P=0.012N*	P=0.004N**
POLY 6	P=0.003N**	P=0.478N	P=0.013N*	P=0.006N**
COCH-ARM / FISHERS	P=0.002N**	P=0.500N	P=0.014N*	P=0.004N**
MAX-ISO-POLY-3	P=0.004N**	P=0.374N	P=0.005N**	P=0.002N**
HISTCONT SAME RTE	P=1.000	P=0.110	P=1.000	P=1.000
HISTCONT ALL RTES	P=1.000	P=1.000	P=1.000	P=1.000
CURR VS HC SAME RTE	P=0.106			
CURR VS HC ALL RTES	P=0.604			

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Liver</b>				
<b>Hepatocellular Carcinoma or Hepatocellular Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	20/50 (40%)	19/50 (38%)	15/50 (30%)	10/50 (20%)
POLY-3 RATE (b)	20/46.93	19/48.01	15/46.95	10/44.04
POLY-3 PERCENT (g)	42.6%	39.6%	32%	22.7%
TERMINAL (d)	17/39 (44%)	12/37 (32%)	11/37 (30%)	7/33 (21%)
FIRST INCIDENCE	527	552	576	669
HC TUMORS SAME ROUTE	60/150 (40%)			
HC TUMORS ALL ROUTES	304/649 (47%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.024N*	P=0.463N	P=0.195N	P=0.034N*
POLY 1.5	P=0.019N*	P=0.466N	P=0.190N	P=0.028N*
POLY 6	P=0.032N*	P=0.466N	P=0.205N	P=0.043N*
COCH-ARM / FISHERS	P=0.014N*	P=0.500N	P=0.201N	P=0.024N*
MAX-ISO-POLY-3	P=0.039N*	P=0.382N	P=0.142N	P=0.023N*
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)
CURR VS HC SAME RTE	P=0.769			
CURR VS HC ALL RTES	P=0.344			

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Liver</b>				
<b>Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	20/50 (40%)	19/50 (38%)	15/50 (30%)	10/50 (20%)
POLY-3 RATE (b)	20/46.93	19/48.01	15/46.95	10/44.04
POLY-3 PERCENT (g)	42.6%	39.6%	32%	22.7%
TERMINAL (d)	17/39 (44%)	12/37 (32%)	11/37 (30%)	7/33 (21%)
FIRST INCIDENCE	527	552	576	669
HC TUMORS SAME ROUTE	60/150 (40%)			
HC TUMORS ALL ROUTES	304/649 (47%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.024N*	P=0.463N	P=0.195N	P=0.034N*
POLY 1.5	P=0.019N*	P=0.466N	P=0.190N	P=0.028N*
POLY 6	P=0.032N*	P=0.466N	P=0.205N	P=0.043N*
COCH-ARM / FISHERS	P=0.014N*	P=0.500N	P=0.201N	P=0.024N*
MAX-ISO-POLY-3	P=0.039N*	P=0.382N	P=0.142N	P=0.023N*
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)
CURR VS HC SAME RTE	P=0.769			
CURR VS HC ALL RTES	P=0.344			

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Liver</b>				
<b>Hepatocholangiocarcinoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
POLY-3 RATE (b)	0/45.30	0/45.68	0/45.92	1/43.61
POLY-3 PERCENT (g)	0%	0%	0%	2.3%
TERMINAL (d)	0/39 (0%)	0/37 (0%)	0/37 (0%)	1/33 (3%)
FIRST INCIDENCE	---	---	---	731 (T)
HC TUMORS SAME ROUTE	0/150 (0%)			
HC TUMORS ALL ROUTES	0/649 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Lung</b>				
<b>Alveolar/Bronchiolar Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	1/50 (2%)	4/50 (8%)	2/50 (4%)	4/50 (8%)
POLY-3 RATE (b)	1/45.30	4/45.68	2/46.12	4/43.68
POLY-3 PERCENT (g)	2.2%	8.8%	4.3%	9.2%
TERMINAL (d)	1/39 (3%)	4/37 (11%)	1/37 (3%)	3/33 (9%)
FIRST INCIDENCE	731 (T)	731 (T)	677	712
HC TUMORS SAME ROUTE	9/150 (6%)			
HC TUMORS ALL ROUTES	37/650 (6%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.245	P=0.181	P=0.506	P=0.168
POLY 1.5	P=0.254	P=0.183	P=0.506	P=0.174
POLY 6	P=0.234	P=0.176	P=0.504	P=0.159
COCH-ARM / FISHERS	P=0.264	P=0.181	P=0.500	P=0.181
MAX-ISO-POLY-3	P=0.148	P=0.086	P=0.288	P=0.081
HISTCONT SAME RTE	P=0.542	P=0.473	P=1.000	P=0.445
HISTCONT ALL RTES	P=0.447	P=0.345	P=1.000	P=0.313
CURR VS HC SAME RTE	P=0.338			
CURR VS HC ALL RTES	P=0.265			



Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Lung</b>				
<b>Alveolar/Bronchiolar Carcinoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	4/50 (8%)	1/50 (2%)	4/50 (8%)	8/50 (16%)
POLY-3 RATE (b)	4/45.30	1/45.68	4/46.67	8/44.09
POLY-3 PERCENT (g)	8.8%	2.2%	8.6%	18.2%
TERMINAL (d)	4/39 (10%)	1/37 (3%)	3/37 (8%)	6/33 (18%)
FIRST INCIDENCE	731 (T)	731 (T)	460	644
HC TUMORS SAME ROUTE	3/150 (2%)			
HC TUMORS ALL ROUTES	23/650 (4%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.021*	P=0.176N	P=0.627N	P=0.163
POLY 1.5	P=0.022*	P=0.175N	P=0.628N	P=0.171
POLY 6	P=0.019*	P=0.181N	P=0.630N	P=0.152
COCH-ARM / FISHERS	P=0.025*	P=0.181N	P=0.643N	P=0.178
MAX-ISO-POLY-3	P=0.033*	P=0.083N	P=0.482N	P=0.101
HISTCONT SAME RTE	P=0.020*	P=1.000	P=0.120	P=0.032*
HISTCONT ALL RTES	P=0.002**	P=1.000	P=0.126	P<0.001**
CURR VS HC SAME RTE	P=0.112			
CURR VS HC ALL RTES	P=0.126			

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Lung</b>				
<b>Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	4/50 (8%)	5/50 (10%)	6/50 (12%)	12/50 (24%)
POLY-3 RATE (b)	4/45.30	5/45.68	6/46.87	12/44.17
POLY-3 PERCENT (g)	8.8%	10.9%	12.8%	27.2%
TERMINAL (d)	4/39 (10%)	5/37 (14%)	4/37 (11%)	9/33 (27%)
FIRST INCIDENCE	731 (T)	731 (T)	460	644
HC TUMORS SAME ROUTE	12/150 (8%)			
HC TUMORS ALL ROUTES	59/650 (9%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.006**	P=0.505	P=0.391	P=0.021*
POLY 1.5	P=0.007**	P=0.509	P=0.388	P=0.023*
POLY 6	P=0.005**	P=0.495	P=0.391	P=0.018*
COCH-ARM / FISHERS	P=0.009**	P=0.500	P=0.370	P=0.027*
MAX-ISO-POLY-3	P=0.010**	P=0.368	P=0.275	P=0.011*
HISTCONT SAME RTE	P=0.029*	P=0.483	P=0.338	P=0.041*
HISTCONT ALL RTEs	P=0.005**	P=1.000	P=0.350	P=0.002**
CURR VS HC SAME RTE	P=0.935			
CURR VS HC ALL RTEs	P=0.787			

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Mammary Gland Carcinoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	2/50 (4%)	0/50 (0%)	2/50 (4%)	1/50 (2%)
POLY-3 RATE (b)	2/45.92	0/45.68	2/46.04	1/43.68
POLY-3 PERCENT (g)	4.4%	0%	4.3%	2.3%
TERMINAL (d)	1/39 (3%)	0/37 (0%)	1/37 (3%)	0/33 (0%)
FIRST INCIDENCE	527	---	698	712
HC TUMORS SAME ROUTE	7/150 (5%)			
HC TUMORS ALL ROUTES	11/650 (2%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.609N	P=0.238N	P=0.693N	P=0.517N
POLY 1.5	P=0.604N	P=0.236N	P=0.690N	P=0.509N
POLY 6	P=0.615N	P=0.243N	P=0.690	P=0.529N
COCH-ARM / FISHERS	P=0.594N	P=0.247N	P=0.691N	P=0.500N
MAX-ISO-POLY-3	P=0.444N	P=0.077N	P=0.498N	P=0.300N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	P=0.486	P=1.000	P=0.258	P=1.000
CURR VS HC SAME RTE	P=0.792			
CURR VS HC ALL RTES	P=0.267			

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Mammary Gland Carcinoma or Adenoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	2/50 (4%)	0/50 (0%)	2/50 (4%)	2/50 (4%)
POLY-3 RATE (b)	2/45.92	0/45.68	2/46.04	2/43.68
POLY-3 PERCENT (g)	4.4%	0%	4.3%	4.6%
TERMINAL (d)	1/39 (3%)	0/37 (0%)	1/37 (3%)	1/33 (3%)
FIRST INCIDENCE	527	---	698	712
HC TUMORS SAME ROUTE	7/150 (5%)			
HC TUMORS ALL ROUTES	12/650 (2%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.413	P=0.238N	P=0.693N	P=0.676
POLY 1.5	P=0.420	P=0.236N	P=0.690N	P=0.685
POLY 6	P=0.405	P=0.243N	P=0.690	P=0.664
COCH-ARM / FISHERS	P=0.433	P=0.247N	P=0.691N	P=0.691N
MAX-ISO-POLY-3	P=0.436	P=0.077N	P=0.498N	P=0.479
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	P=0.273	P=1.000	P=0.282	P=0.263
CURR VS HC SAME RTE	P=0.792			
CURR VS HC ALL RTES	P=0.318			

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Mammary Gland</b>				
<b>Fibroma, Fibroadenoma, Carcinoma, or Adenoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	2/50 (4%)	0/50 (0%)	2/50 (4%)	2/50 (4%)
POLY-3 RATE (b)	2/45.92	0/45.68	2/46.04	2/43.68
POLY-3 PERCENT (g)	4.4%	0%	4.3%	4.6%
TERMINAL (d)	1/39 (3%)	0/37 (0%)	1/37 (3%)	1/33 (3%)
FIRST INCIDENCE	527	---	698	712
HC TUMORS SAME ROUTE	8/150 (5%)			
HC TUMORS ALL ROUTES	13/650 (2%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.413	P=0.238N	P=0.693N	P=0.676
POLY 1.5	P=0.420	P=0.236N	P=0.690N	P=0.685
POLY 6	P=0.405	P=0.243N	P=0.690	P=0.664
COCH-ARM / FISHERS	P=0.433	P=0.247N	P=0.691N	P=0.691N
MAX-ISO-POLY-3	P=0.436	P=0.077N	P=0.498N	P=0.479
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	P=0.367	P=1.000	P=0.337	P=0.318
CURR VS HC SAME RTE	P=0.691			
CURR VS HC ALL RTES	P=0.374			

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Mesentery Hemangioma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/45.30	2/45.68	0/45.92	0/43.61
POLY-3 PERCENT (g)	0%	4.4%	0%	0%
TERMINAL (d)	0/39 (0%)	2/37 (5%)	0/37 (0%)	0/33 (0%)
FIRST INCIDENCE	---	731 (T)	---	---
HC TUMORS SAME ROUTE	0/150 (0%)			
HC TUMORS ALL ROUTES	0/650 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.391N	P=0.239	(e)	(e)
POLY 1.5	P=0.387N	P=0.241	(e)	(e)
POLY 6	P=0.397N	P=0.235	(e)	(e)
COCH-ARM / FISHERS	P=0.387N	P=0.247	(e)	(e)
MAX-ISO-POLY-3	P=0.270N	P=0.078	(e)	(e)
HISTCONT SAME RTE	P=0.418	P=0.076	(e)	(e)
HISTCONT ALL RTES	P=0.203	P<0.001**	(e)	(e)
CURR VS HC SAME RTE	P=1.000			
CURR VS HC ALL RTES	P=1.000			

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Ovary</b>				
<b>Cystadenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	2/50 (4%)	1/50 (2%)	0/48 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/45.40	1/45.68	0/45.10	0/43.61
POLY-3 PERCENT (g)	4.4%	2.2%	0%	0%
TERMINAL (d)	1/39 (3%)	1/37 (3%)	0/37 (0%)	0/33 (0%)
FIRST INCIDENCE	705	731 (T)	---	---
HC TUMORS SAME ROUTE	8/149 (5%)			
HC TUMORS ALL ROUTES	35/640 (6%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.189N	P=0.498N	P=0.239N	P=0.246N
POLY 1.5	P=0.188N	P=0.495N	P=0.240N	P=0.242N
POLY 6	P=0.190N	P=0.504N	P=0.239N	P=0.253N
COCH-ARM / FISHERS	P=0.184N	P=0.500N	P=0.258N	P=0.247N
MAX-ISO-POLY-3	P=0.093N	P=0.279N	P=0.078N	P=0.085N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)
CURR VS HC SAME RTE	P=0.599			
CURR VS HC ALL RTES	P=0.646			

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Pituitary Gland: Pars Distalis or Unspecified Site Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	5/50 (10%)	4/50 (8%)	6/49 (12%)	9/50 (18%)
POLY-3 RATE (b)	5/45.30	4/45.68	6/45.42	9/44.35
POLY-3 PERCENT (g)	11%	8.8%	13.2%	20.3%
TERMINAL (d)	5/39 (13%)	4/37 (11%)	5/37 (14%)	5/33 (15%)
FIRST INCIDENCE	731 (T)	731 (T)	681	634
HC TUMORS SAME ROUTE	21/145 (15%)			
HC TUMORS ALL ROUTES	50/638 (8%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.076	P=0.495N	P=0.502	P=0.180
POLY 1.5	P=0.080	P=0.491N	P=0.500	P=0.187
POLY 6	P=0.073	P=0.505N	P=0.501	P=0.170
COCH-ARM / FISHERS	P=0.087	P=0.500N	P=0.486	P=0.194
MAX-ISO-POLY-3	P=0.123	P=0.358N	P=0.376	P=0.116
HISTCONT SAME RTE	P=0.281	P=1.000	P=1.000	P=0.313
HISTCONT ALL RTES	P=0.037*	P=1.000	P=0.241	P=0.026*
CURR VS HC SAME RTE	P=0.352			
CURR VS HC ALL RTES	P=0.615			



Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Pituitary Gland: Pars Intermedia Adenoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	0/50 (0%)	0/50 (0%)	2/49 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/45.30	0/45.68	2/45.23	0/43.61
POLY-3 PERCENT (g)	0%	0%	4.4%	0%
TERMINAL (d)	0/39 (0%)	0/37 (0%)	2/37 (5%)	0/33 (0%)
FIRST INCIDENCE	---	---	731 (T)	---
HC TUMORS SAME ROUTE	3/145 (2%)			
HC TUMORS ALL ROUTES	6/638 (1%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.693N	(e)	P=0.237	(e)
POLY 1.5	P=0.687N	(e)	P=0.237	(e)
POLY 6	P=0.700N	(e)	P=0.236	(e)
COCH-ARM / FISHERS	P=0.679N	(e)	P=0.242	(e)
MAX-ISO-POLY-3	P=0.262	(e)	P=0.077	(e)
HISTCONT SAME RTE	P=0.683	(e)	P=0.396	(e)
HISTCONT ALL RTES	P=0.417	(e)	P=0.044*	(e)
CURR VS HC SAME RTE	P=0.254			
CURR VS HC ALL RTES	P=0.490			

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Skin</b>				
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous Histiocytoma				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	0/45.30	1/46.03	1/46.59	1/43.68
POLY-3 PERCENT (g)	0%	2.2%	2.2%	2.3%
TERMINAL (d)	0/39 (0%)	0/37 (0%)	0/37 (0%)	0/33 (0%)
FIRST INCIDENCE	---	635	502	713
HC TUMORS SAME ROUTE	13/150 (9%)			
HC TUMORS ALL ROUTES	36/650 (6%)			
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Skin</b>				
<b>Hemangiosarcoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	2/45.30	0/45.68	0/45.92	0/43.61
POLY-3 PERCENT (g)	4.4%	0%	0%	0%
TERMINAL (d)	2/39 (5%)	0/37 (0%)	0/37 (0%)	0/33 (0%)
FIRST INCIDENCE	731 (T)	---	---	---
HC TUMORS SAME ROUTE	1/150 (1%)			
HC TUMORS ALL ROUTES	9/650 (1%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.262N	P=0.235N	P=0.234N	P=0.246N
POLY 1.5	P=0.263N	P=0.234N	P=0.234N	P=0.241N
POLY 6	P=0.260N	P=0.239N	P=0.236N	P=0.252N
COCH-ARM / FISHERS	P=0.260N	P=0.247N	P=0.247N	P=0.247N
MAX-ISO-POLY-3	P=0.042N*	P=0.076N	P=0.076N	P=0.084N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTEs	(h)	(h)	(h)	(h)
CURR VS HC SAME RTE	P=0.105			
CURR VS HC ALL RTEs	P=0.156			

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Spleen</b>				
<b>Hemangiosarcoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	1/50 (2%)	1/50 (2%)	0/50 (0%)	0/49 (0%)
POLY-3 RATE (b)	1/45.30	1/45.68	0/45.92	0/42.92
POLY-3 PERCENT (g)	2.2%	2.2%	0%	0%
TERMINAL (d)	1/39 (3%)	1/37 (3%)	0/37 (0%)	0/33 (0%)
FIRST INCIDENCE	731 (T)	731 (T)	---	---
HC TUMORS SAME ROUTE	4/150 (3%)			
HC TUMORS ALL ROUTES	11/640 (2%)			
<b>STATISTICAL TESTS</b>				
POLY 3	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)
HISTCONT SAME RTE	(n)	(n)	(n)	(n)
HISTCONT ALL RTES	(n)	(n)	(n)	(n)
CURR VS HC SAME RTE	(n)			
CURR VS HC ALL RTES	(n)			

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Thyroid Gland: Follicular Cell Carcinoma</b>				
<b>TUMOR RATES</b>				
OVERALL (a)	0/50 (0%)	0/48 (0%)	0/50 (0%)	3/50 (6%)
POLY-3 RATE (b)	0/45.30	0/44.18	0/45.92	3/43.68
POLY-3 PERCENT (g)	0%	0%	0%	6.9%
TERMINAL (d)	0/39 (0%)	0/36 (0%)	0/37 (0%)	2/33 (6%)
FIRST INCIDENCE	---	---	---	712
HC TUMORS SAME ROUTE	1/149 (1%)			
HC TUMORS ALL ROUTES	2/643 (0%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.008**	(e)	(e)	P=0.112
POLY 1.5	P=0.008**	(e)	(e)	P=0.116
POLY 6	P=0.007**	(e)	(e)	P=0.107
COCH-ARM / FISHERS	P=0.009**	(e)	(e)	P=0.121
MAX-ISO-POLY-3	P=0.010**	(e)	(e)	P=0.038*
HISTCONT SAME RTE	P=0.049*	(e)	(e)	P=0.066
HISTCONT ALL RTEs	P<0.001**	(e)	(e)	P<0.001**
CURR VS HC SAME RTE	P=0.375			
CURR VS HC ALL RTEs	P=0.474			

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>Uterus</b>				
<b>Polyp Stromal</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	0/50 (0%)	3/50 (6%)	2/50 (4%)	0/50 (0%)
POLY-3 RATE (b)	0/45.30	3/45.68	2/46.43	0/43.61
POLY-3 PERCENT (g)	0%	6.6%	4.3%	0%
TERMINAL (d)	0/39 (0%)	3/37 (8%)	1/37 (3%)	0/33 (0%)
FIRST INCIDENCE	---	731 (T)	576	---
HC TUMORS SAME ROUTE	2/150 (1%)			
HC TUMORS ALL ROUTES	14/650 (2%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.293N	P=0.120	P=0.243	(e)
POLY 1.5	P=0.286N	P=0.121	P=0.242	(e)
POLY 6	P=0.305N	P=0.117	P=0.242	(e)
COCH-ARM / FISHERS	P=0.280N	P=0.121	P=0.247	(e)
MAX-ISO-POLY-3	P=0.245	P=0.039*	P=0.081	(e)
HISTCONT SAME RTE	P=0.414	P=0.083	P=0.216	(e)
HISTCONT ALL RTES	P=0.526	P=0.045*	P=0.319	(e)
CURR VS HC SAME RTE	P=0.257			
CURR VS HC ALL RTES	P=0.275			

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>All Organs</b>				
<b>Hemangioma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)
POLY-3 RATE (b)	0/45.30	2/45.68	0/45.92	0/43.61
POLY-3 PERCENT (g)	0%	4.4%	0%	0%
TERMINAL (d)	0/39 (0%)	2/37 (5%)	0/37 (0%)	0/33 (0%)
FIRST INCIDENCE	---	731 (T)	---	---
HC TUMORS SAME ROUTE	0/150 (0%)			
HC TUMORS ALL ROUTES	3/650 (1%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.391N	P=0.239	(e)	(e)
POLY 1.5	P=0.387N	P=0.241	(e)	(e)
POLY 6	P=0.397N	P=0.235	(e)	(e)
COCH-ARM / FISHERS	P=0.387N	P=0.247	(e)	(e)
MAX-ISO-POLY-3	P=0.270N	P=0.078	(e)	(e)
HISTCONT SAME RTE	P=0.418	P=0.076	(e)	(e)
HISTCONT ALL RTES	P=0.439	P=0.005**	(e)	(e)
CURR VS HC SAME RTE	P=1.000			
CURR VS HC ALL RTES	P=0.487			

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>All Organs</b>				
<b>Hemangiosarcoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	3/50 (6%)	2/50 (4%)	1/50 (2%)	3/50 (6%)
POLY-3 RATE (b)	3/45.30	2/45.68	1/46.43	3/43.73
POLY-3 PERCENT (g)	6.6%	4.4%	2.2%	6.9%
TERMINAL (d)	3/39 (8%)	2/37 (5%)	0/37 (0%)	2/33 (6%)
FIRST INCIDENCE	731 (T)	731 (T)	576	699
HC TUMORS SAME ROUTE	11/150 (7%)			
HC TUMORS ALL ROUTES	32/650 (5%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.483	P=0.496N	P=0.297N	P=0.646
POLY 1.5	P=0.490	P=0.493N	P=0.297N	P=0.655
POLY 6	P=0.475	P=0.504N	P=0.298N	P=0.634
COCH-ARM / FISHERS	P=0.501	P=0.500N	P=0.309N	P=0.661N
MAX-ISO-POLY-3	P=0.480	P=0.321N	P=0.151N	P=0.482
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	P=0.592	P=1.000	P=1.000	P=0.481
CURR VS HC SAME RTE	P=0.680			
CURR VS HC ALL RTES	P=0.754			



Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>All Organs</b>				
<b>Hemangiosarcoma or Hemangioma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	3/50 (6%)	4/50 (8%)	1/50 (2%)	3/50 (6%)
POLY-3 RATE (b)	3/45.30	4/45.68	1/46.43	3/43.73
POLY-3 PERCENT (g)	6.6%	8.8%	2.2%	6.9%
TERMINAL (d)	3/39 (8%)	4/37 (11%)	0/37 (0%)	2/33 (6%)
FIRST INCIDENCE	731 (T)	731 (T)	576	699
HC TUMORS SAME ROUTE	11/150 (7%)			
HC TUMORS ALL ROUTES	35/650 (5%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.576N	P=0.505	P=0.297N	P=0.646
POLY 1.5	P=0.569N	P=0.508	P=0.297N	P=0.655
POLY 6	P=0.585N	P=0.496	P=0.298N	P=0.634
COCH-ARM / FISHERS	P=0.559N	P=0.500	P=0.309N	P=0.661N
MAX-ISO-POLY-3	P=0.429N	P=0.352	P=0.151N	P=0.482
HISTCONT SAME RTE	P=1.000	P=1.000	P=1.000	P=1.000
HISTCONT ALL RTES	P=0.682	P=0.311	P=1.000	P=1.000
CURR VS HC SAME RTE	P=0.680			
CURR VS HC ALL RTES	P=0.866			

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>All Organs</b>				
<b>Histiocytic Sarcoma</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	2/50 (4%)	1/50 (2%)	1/50 (2%)	1/50 (2%)
POLY-3 RATE (b)	2/45.71	1/46.35	1/45.92	1/43.61
POLY-3 PERCENT (g)	4.4%	2.2%	2.2%	2.3%
TERMINAL (d)	1/39 (3%)	0/37 (0%)	1/37 (3%)	1/33 (3%)
FIRST INCIDENCE	613	508	731 (T)	731 (T)
HC TUMORS SAME ROUTE	4/150 (3%)			
HC TUMORS ALL ROUTES	14/650 (2%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.515N	P=0.495N	P=0.498N	P=0.516N
POLY 1.5	P=0.509N	P=0.494N	P=0.496N	P=0.508N
POLY 6	P=0.521N	P=0.501N	P=0.504N	P=0.529N
COCH-ARM / FISHERS	P=0.499N	P=0.500N	P=0.500N	P=0.500N
MAX-ISO-POLY-3	P=0.441N	P=0.278N	P=0.280N	P=0.298N
HISTCONT SAME RTE	(h)	(h)	(h)	(h)
HISTCONT ALL RTES	(h)	(h)	(h)	(h)
CURR VS HC SAME RTE	P=0.674			
CURR VS HC ALL RTES	P=0.415			

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>All Organs</b>				
<b>Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or Undifferentiated Cell Type</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	18/50 (36%)	18/50 (36%)	17/50 (34%)	20/50 (40%)
POLY-3 RATE (b)	18/45.40	18/46.09	17/47.51	20/45.79
POLY-3 PERCENT (g)	39.7%	39.1%	35.8%	43.7%
TERMINAL (d)	17/39 (44%)	16/37 (43%)	12/37 (32%)	13/33 (39%)
FIRST INCIDENCE	705	655	460	536
HC TUMORS SAME ROUTE	37/150 (25%)			
HC TUMORS ALL ROUTES	157/650 (24%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.348	P=0.562N	P=0.433N	P=0.429
POLY 1.5	P=0.348	P=0.557N	P=0.449N	P=0.428
POLY 6	P=0.354	P=0.580N	P=0.421N	P=0.430
COCH-ARM / FISHERS	P=0.354	P=0.582N	P=0.500N	P=0.418
MAX-ISO-POLY-3	P=0.474	P=0.476N	P=0.352N	P=0.347
HISTCONT SAME RTE	P=0.115	P=0.142	P=0.214	P=0.084
HISTCONT ALL RTES	P=0.038*	P=0.071	P=0.136	P=0.025*
CURR VS HC SAME RTE	P=0.193			
CURR VS HC ALL RTES	P=0.060			

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>All Organs</b>				
<b>Benign Tumors</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	26/50 (52%)	30/50 (60%)	28/50 (56%)	23/50 (46%)
POLY-3 RATE (b)	26/48.10	30/47.18	28/47.35	23/45.10
POLY-3 PERCENT (g)	54.1%	63.6%	59.1%	51%
TERMINAL (d)	20/39 (51%)	26/37 (70%)	22/37 (60%)	15/33 (46%)
FIRST INCIDENCE	345	583	576	634
HC TUMORS SAME ROUTE	71/150 (47%)			
HC TUMORS ALL ROUTES	366/650 (56%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.256N	P=0.228	P=0.384	P=0.465N
POLY 1.5	P=0.219N	P=0.257	P=0.408	P=0.414N
POLY 6	P=0.292N	P=0.189	P=0.357	P=0.517N
COCH-ARM / FISHERS	P=0.163N	P=0.273	P=0.421	P=0.345N
MAX-ISO-POLY-3	P=0.367N	P=0.172	P=0.309	P=0.385N
HISTCONT SAME RTE	P=0.383	P=0.062	P=0.147	P=1.000
HISTCONT ALL RTES	P=1.000	P=0.438	P=1.000	P=1.000
CURR VS HC SAME RTE	P=0.866			
CURR VS HC ALL RTES	P=0.380			

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>All Organs</b>				
<b>Malignant Tumors</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	30/50 (60%)	31/50 (62%)	28/50 (56%)	34/50 (68%)
POLY-3 RATE (b)	30/46.87	31/48.54	28/49.14	34/46.94
POLY-3 PERCENT (g)	64%	63.9%	57%	72.4%
TERMINAL (d)	26/39 (67%)	22/37 (60%)	19/37 (51%)	22/33 (67%)
FIRST INCIDENCE	527	508	460	536
HC TUMORS SAME ROUTE	83/150 (55%)			
HC TUMORS ALL ROUTES	341/650 (53%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.175	P=0.579N	P=0.310N	P=0.254
POLY 1.5	P=0.187	P=0.575	P=0.335N	P=0.260
POLY 6	P=0.173	P=0.577N	P=0.291N	P=0.254
COCH-ARM / FISHERS	P=0.219	P=0.500	P=0.420N	P=0.266
MAX-ISO-POLY-3	P=0.221	P=0.493N	P=0.245N	P=0.188
HISTCONT SAME RTE	P=0.154	P=0.346	P=1.000	P=0.113
HISTCONT ALL RTES	P=0.198	P=0.276	P=0.480	P=0.112
CURR VS HC SAME RTE	P=0.619			
CURR VS HC ALL RTES	P=0.305			

Experiment Number: 20515 - 04  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: MICE/B6C3F1

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
 Metal working fluids (CIMSTAR 3800)  
 CAS Number: CIMSTAR3800

Date Report Requested: 03/08/2013  
 Time Report Requested: 14:13:47  
 First Dose M/F: 05/05/08 / 05/05/08  
 Lab: BNW

**STATISTICAL ANALYSIS OF PRIMARY TUMORS IN MICE(B6C3F1)  
 TERMINAL SACRIFICE AT 105 WEEKS**

DOSE	Females			
	Control	10 mg/m3	30 mg/m3	100 mg/m3
<b>All Organs</b>				
<b>Malignant and Benign Tumors</b>				
<b>TUMOR RATES</b>	#	#	#	#
OVERALL (a)	41/50 (82%)	42/50 (84%)	43/50 (86%)	40/50 (80%)
POLY-3 RATE (b)	41/48.51	42/49.20	43/49.54	40/47.10
POLY-3 PERCENT (g)	84.5%	85.4%	86.8%	84.9%
TERMINAL (d)	34/39 (87%)	31/37 (84%)	31/37 (84%)	27/33 (82%)
FIRST INCIDENCE	345	508	460	536
HC TUMORS SAME ROUTE	123/150 (82%)			
HC TUMORS ALL ROUTES	515/650 (79%)			
<b>STATISTICAL TESTS</b>				
POLY 3	P=0.569N	P=0.567	P=0.486	P=0.592
POLY 1.5	P=0.507N	P=0.564	P=0.470	P=0.585N
POLY 6	P=0.545	P=0.566	P=0.505	P=0.568
COCH-ARM / FISHERS	P=0.378N	P=0.500	P=0.393	P=0.500N
MAX-ISO-POLY-3	P=0.656	P=0.451	P=0.372	P=0.476
HISTCONT SAME RTE	P=1.000	P=1.000	P=1.000	P=1.000
HISTCONT ALL RTES	P=0.617	P=0.412	P=0.343	P=0.438
CURR VS HC SAME RTE	P=0.725			
CURR VS HC ALL RTES	P=0.747			

**Experiment Number:** 20515 - 04  
**Test Type:** CHRONIC  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**P08: STATISTICAL ANALYSIS OF PRIMARY TUMORS**  
Metal working fluids (CIMSTAR 3800)  
**CAS Number:** CIMSTAR3800

**Date Report Requested:** 03/08/2013  
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**Lab:** BNW

## **LEGEND**

- (a) Number of tumor-bearing animals/number of animals examined at site.
- (b) Number of tumor-bearing animals/Poly-3 number
- (d) Observed incidence at terminal kill.
- (e) Value of statistic cannot be computed.
- (f) Beneath the control incidence are the P-values associated with the trend test. Beneath the dosed group incidence are the P-values corresponding to pairwise comparisons between the controls and that dosed group.
- (g) Poly-3 adjusted lifetime tumor incidence.
- (h) Historical Controls statistic is not calculated when the HC Poly-3 rate is higher than the Poly-3 rates for all dose groups.
- (n) No statistics are calculated if all dose groups have fewer than two tumors.
- (I) Interim sacrifice
- (T) Terminal sacrifice
- # Tumor rates based on numbers of animals necropsied.
- \* To the right of any statistical result, indicates significance at ( $P \leq 0.05$ ).
- \*\* To the right of any statistical result, indicates significance at ( $P \leq 0.01$ ).
- N Indicates a negative trend for all tests  
The Cochran-Armitage and Fishers exact tests compare directly the overall incidence rates.

\*\*\* END OF REPORT \*\*\*