

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
Adrenal Cortex Adenoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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
Adrenal Medulla				
Pheochromocytoma Benign				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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
Adrenal Medulla				
Pheochromocytoma: Benign, Complex, Malignant, NOS				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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
Harderian Gland Adenoma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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
Harderian Gland Carcinoma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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
Harderian Gland Carcinoma or Adenoma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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
Intestine Small: Site Unspecified Carcinoma or Adenoma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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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**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
Islets, Pancreatic Adenoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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
Kidney: Renal Tubule Carcinoma or Adenoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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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**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
Liver				
Hepatocellular Adenoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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
Liver				
Hepatocellular Carcinoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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
Liver				
Hepatocellular Carcinoma or Hepatoblastoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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
Liver				
Hepatocellular Carcinoma or Hepatocellular Adenoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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
Liver				
Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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
Liver				
Hepatocholangiocarcinoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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
Lung				
Alveolar/Bronchiolar Adenoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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
Lung				
Alveolar/Bronchiolar Carcinoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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
Lung				
Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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
Mammary Gland Carcinoma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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
Mammary Gland Carcinoma or Adenoma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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
Mammary Gland				
Fibroma, Fibroadenoma, Carcinoma, or Adenoma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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
Mesentery Hemangioma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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
Pituitary Gland: Pars Distalis or Unspecified Site Adenoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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
Pituitary Gland: Pars Intermedia Adenoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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
Skin				
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous Histiocytoma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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
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 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
Skin				
Hemangiosarcoma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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
Spleen				
Hemangiosarcoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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
Thyroid Gland: Follicular Cell Carcinoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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
All Organs				
Hemangioma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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
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 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
All Organs				
Hemangiosarcoma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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
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 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
All Organs				
Hemangiosarcoma or Hemangioma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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
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 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
All Organs				
Histiocytic Sarcoma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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
All Organs				
Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or Undifferentiated Cell Type				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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
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 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
All Organs				
Benign Tumors				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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
All Organs				
Malignant Tumors				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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
All Organs				
Malignant and Benign Tumors				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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
Adrenal Cortex				
Adenoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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
Adrenal Medulla				
Pheochromocytoma Benign				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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
Adrenal Medulla				
Pheochromocytoma: Benign, Complex, Malignant, NOS				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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
Harderian Gland Adenoma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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
Harderian Gland Carcinoma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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
Harderian Gland Carcinoma or Adenoma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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
Intestine Small: Site Unspecified Carcinoma or Adenoma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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
Islets, Pancreatic Adenoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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
Kidney: Renal Tubule Carcinoma or Adenoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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
Liver				
Hepatocellular Adenoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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
Liver				
Hepatocellular Carcinoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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
Liver				
Hepatocellular Carcinoma or Hepatoblastoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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
Liver				
Hepatocellular Carcinoma or Hepatocellular Adenoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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
Liver				
Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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
Liver				
Hepatocholangiocarcinoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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
Lung				
Alveolar/Bronchiolar Adenoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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
Lung				
Alveolar/Bronchiolar Carcinoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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
Lung				
Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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
Mammary Gland Carcinoma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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
Mammary Gland Carcinoma or Adenoma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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
Mammary Gland				
Fibroma, Fibroadenoma, Carcinoma, or Adenoma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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
Mesentery Hemangioma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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
Ovary				
Cystadenoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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
Pituitary Gland: Pars Distalis or Unspecified Site Adenoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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
Pituitary Gland: Pars Intermedia Adenoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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
Skin				
Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Fibrous Histiocytoma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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
Skin				
Hemangiosarcoma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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
Spleen				
Hemangiosarcoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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
Thyroid Gland: Follicular Cell Carcinoma				
TUMOR RATES				
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%)			
STATISTICAL TESTS				
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

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 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
Uterus				
Polyp Stromal				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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
All Organs				
Hemangioma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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
All Organs				
Hemangiosarcoma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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
All Organs				
Hemangiosarcoma or Hemangioma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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
All Organs				
Histiocytic Sarcoma				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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
All Organs				
Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or Undifferentiated Cell Type				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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
All Organs				
Benign Tumors				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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
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 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
All Organs				
Malignant Tumors				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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
All Organs				
Malignant and Benign Tumors				
TUMOR RATES	#	#	#	#
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%)			
STATISTICAL TESTS				
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

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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 ***