## Carcinogenic Potency Database (CPDB) Plot of Aristlochic Acid

Chemical					CAS number							
Spe Strain Xpo+Xpt				Literature Reference								
	Sex	Ro	ute	RefNum				0Dose	1Dose			
Site	e N	lotes		DR	AuOr	þ	UpConf					
	Path		$\mathtt{TD}_{50}$	2Tailpv	L	LoConf	-	Cntrl	lInc			
ARIS	roloch	IC AC	ID, SOD	UM SALT	<b>(77</b> %	AA I, 2	21% AA I	I) mi	xture			
									Meng	<pre>gs;artx,51,107-119;1982/pers.comm.</pre>		
1	Rfw	is ga	v 52w69	2424				0	75.0ug			
for	mix A	e	14.1ug	P<.008	+	3.89ug	.254mg	0/4	4/5			
for	sqp A	e	24.7ug	P<.04		6.88ug	n.s.s.	0/4	3/5			
for	sqc A	e	.101mg	P<.3	+	16.3ug	n.s.s.	0/4	1/5			
2	Rmw	is ga	v 52w69	2424		-		0	75.0ug			
for	sqc A	e	noTD50	P<.02	+	n.s.s.	n.s.s.	0/5	4/4			
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**Abbreviations**: R = rat; f = female; m = male; wis = Wistar; gav = gavage; w = weeks; for = forestomach; sqp = squamous cell papilloma; sqc = squamous cell carcinoma

## **Appendix 6: Notecodes and Definitions**

Code	Definition
А	Serial sacrifice experiments of Aristolochic Acid in the same paper were evaluated as positive at additional sites by the
	author but did not meet inclusion rules of the CPDB. See table below.

## Notecode A: Aristolochic Acid

For the test of Aristolochic Acid (AA) in Wistar rats (Mengs, 1982), the CPDB includes only results of the chronic, 69 week experiment in which AA was administered at 0.1 mg/kg/day for 52 weeks. Other groups of rats were administered 1.0 or 10 mg/kg/day for only 13 weeks and were sacrificed at various times shown in the table below; this short dosing period and the short times to sacrifice do not meet the inclusion rules of the CPDB (at least 6 months dosing and 12 months experiment length). In the 69-week experiment that meets the inclusion rules, the only target site was forestomach. Kidney and bladder were additional target sites in the excluded groups that were administered higher doses for 13 weeks; tumor incidence data are given in the table below for each sacrifice time. The table reports the dose as administered for 13 weeks and not the CPDB daily dose-rate or a  $TD_{50}$  value, because the serial sacrifice experiments do not meet the CPDB inclusion rules.

					Administered dose			
			Exposure		by gavage (mg/kg/day)			
			duration in	Sacrifice time	0	0.1	1	10
Sex	Tissue	Tumor	weeks	in weeks	Incidences			
f	Forestomach	sqp	13	13	0/9	0/9	8/9	10/10
		sqp,sqc	13	26	0/10	0/5	7/10	13/13
		sqp,sqc	13	39 (52)	(0/7)	(2/6)	9/11	4/4
		sqp,sqc	52 <sup>a</sup>	69 <sup>a</sup>	0/4	4/5		
	Kidney cortex	coc	13	26	0/10	0/5	0/10	2/13
		coa	13	39 (52)	(0/7)	(0/6)	0/11	4/4
	Urinary bladder	tpp,tcc	13	26	0/10	0/5	0/10	2/13
		tpp	13	39 (52)	(0/7)	(0/6)	0/11	1/4
m	Forestomach	sqp	13	13	0/9	0/9	7/9	10/10
		sqp,sqc	13	26	0/10	0/5	9/11	18/18
		sqp,sqc	13	39 (52)	(0/6)	(4/7)	9/9	
		sqc	52 <sup>a</sup>	69 <sup>a</sup>	0/5	4/4		
	Kidney/pelvis	tcc	13	26	0/10	0/5	0/11	8/18
	Kidney cortex	coa	13	39 (52)	(0/6)	(0/7)	1/9	
	Urinary bladder	tpp,tcc	13	26	0/10	0/5	0/11	6/18

<sup>a</sup> Included in CPDB, since exposure and experiment length meet inclusion rules.

Tumor codes:coa = cortical adenoma; coc = cortical carcinoma; sqc = squamous-cell carcinoma; sqp = squamous cell papilloma; tcc = transitional-cell carcinoma; tpp = transitional-cell papilloma.

## Reference

Mengs, U., Lang, W., and Poch, J.-A. The carcinogenic action of aristolochic acid in rats. Arch. Toxicol. 51: 107-119(1982).