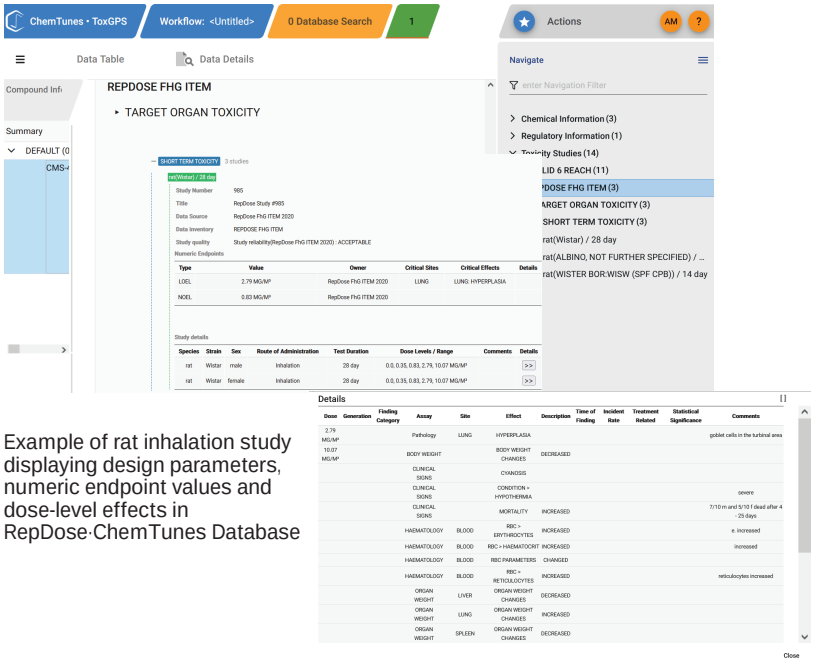
RepDose·ChemTunes **Database**

Navigating Chemical Safety

Fraunhofer ITEM and Molecular Networks Altamira (MN-AM) jointly integrate the RepDose Database (repdose.item.fraunhofer.de) developed, maintained and owned by Fraunhofer into the ChemTunes platform from MN-AM to further support the safety and risk assessment of chemicals. This collaboration offers the comprehensive content of RepDose within ChemTunes·ToxGPS®. The RepDose Database has a high profile known for its data quality compatible to the standard of ChemTunes.



Example of rat inhalation study displaying design parameters, numeric endpoint values and dose-level effects in RepDose·ChemTunes Database

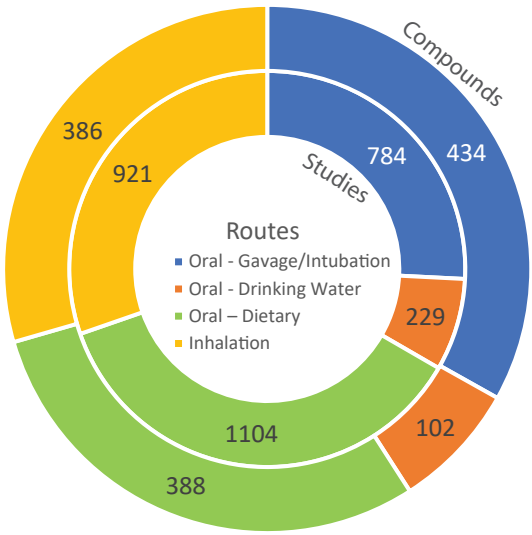
RepDose Database

- Constructed by Fraunhofer ITEM
  - Initiated from CEFIC LRI to house highly selective, reliable NOEL or LOEL values with accompanying effects from repeated dose toxicity studies [Bitsch A. *et al*., Reg. Toxicol. Pharmacol. 2006, 46(3), 202-210]
  - Provides study reliability measures
  - Data sources include German MAK-documentations, EHC, EU RAR, reports from German BG Chemie, HPV-chemicals, and NTP reports

Database Statistics

- Over 3,000 studies for more than 970 compounds
- Updated annually

		Compounds	Studies	NOEL / LOEL
Study Types	Short Term	591	972	439 / 903
	Sub-Chronic	633	1107	543 / 1010
	Chronic	438	960	263 / 874
Species	Rat	946	2200	956 / 2055
	Mouse	405	771	289 / 732
	Dog	35	67	67 / 67



- **Oral**: 911 NOELs & 1,938 LOELs
- **Inhalation**: 334 NOELs & 849 LOELs

Fraunhofer ITEM

Molecular Networks & Altamira
Molecular Networks GmbH, Neumeyerstraße 22-34, 90411 Nuremberg, Germany
Altamira LLC, 470 W Broad St, Unit 5007, OH 43215, USA

+49 (0)911 597 424 00
www.mn-am.com
info@mn-am.com