



DEVELOPMENTAL & REPRODUCTIVE TOXICOLOGY (DART)

Comprehensive Reproductive Safety Assessment for Global Drug Development

Supporting reproductive risk assessment across fertility, embryonic & fetal development, postnatal development, developmental neurotoxicity, and developmental immunotoxicity studies.

End-to-End DART Solutions

Fertility & Early Embryonic Development (FEED)

ICH S5(R3) – Segment I

- Estrous cyclicity assessment
- Male and female fertility evaluation
- Sperm analysis (CASA)
- Mating and fertility indices
- Implantation assessments
- Early embryonic development endpoints

Embryo-Fetal Development (EFD)

ICH S5(R3) – Segment II | OECD TG 414

- Maternal toxicity evaluation
- Maternal-fetal assessment
- Embryo-fetal survival assessment
- External examinations
- Visceral examinations (Staples/Wilson Technique)
- Skeletal staining and evaluation (bone and cartilage development)
- Teratogenicity assessment
- Placental investigations

Pre- & Postnatal Development (PPND)

ICH S5(R3) – Segment III

- Parturition and lactation assessments
- Offspring growth and development
- Neurobehavioral evaluations
- Sexual maturation assessments
- Reproductive performance of offspring



Advanced DART Capabilities

Developmental Neurotoxicity (DNT)

- Auditory Startle Response
- Morris Water Maze
- Radial Arm Maze
- T-Maze Assessments
- Motor Activity Testing
- Learning & Memory Evaluation
- Neuropathology Assessments

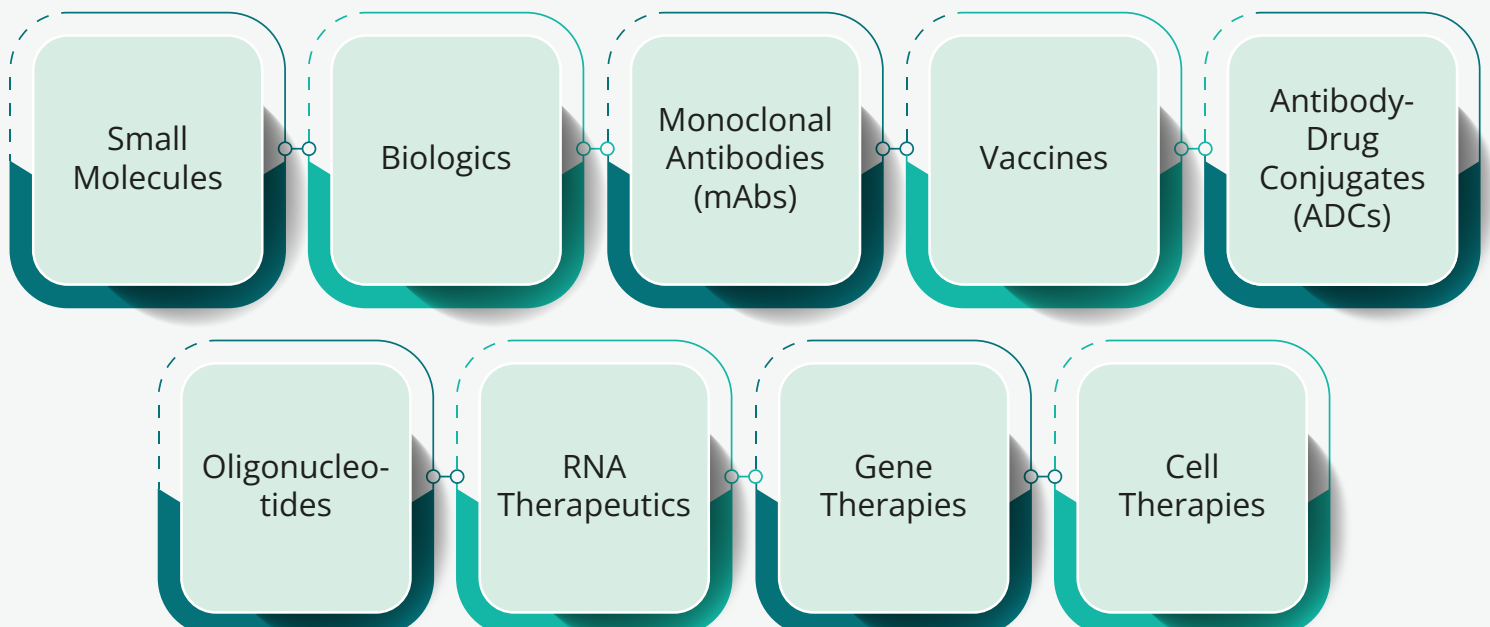
Developmental Immunotoxicity (DIT)

- T-Cell Dependent Antibody Response (TDAR)
- Splenic Lymphocyte Profiling
- CD4+, CD8+, B Cell & NK Cell Analysis
- Immune Function Assessment

Extended One-Generation Reproductive Toxicity Studies (EOGRTS) OECD TG 443

- Reproductive Toxicity
- Developmental Neurotoxicity
- Developmental Immunotoxicity
- Multi-Cohort Assessment Strategy

Supported Therapeutic Modalities



Species Expertise

Rodents

- Sprague Dawley Rat
- Wistar Rat

Non-Rodents

- New Zealand White Rabbit

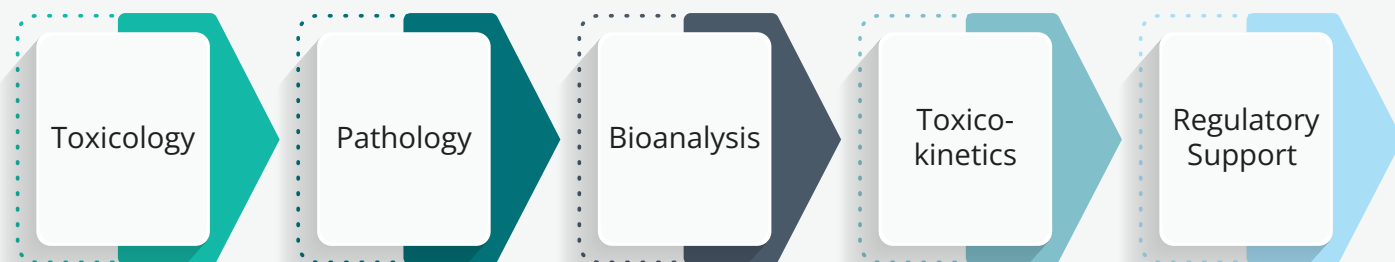
Alternative Models

- Zebrafish Developmental Screening

Scientific & Operational Strengths

Integrated DART Programs

Seamless coordination across:



Advanced Infrastructure

- AAALAC-Compliant Vivarium
- OLAW-Compliant Facility
- Dedicated Foetal Dissection Suites
- Behavioral Testing Facilities
- Histopathology & Neuropathology Laboratories
- Inhalation Exposure Capabilities

Regulatory Alignment

- | | |
|---------------|---------------|
| ➤ ICH S5(R3) | ➤ OECD TG 416 |
| ➤ ICH S6(R1) | ➤ OECD TG 421 |
| ➤ ICH S9 | ➤ OECD TG 422 |
| ➤ ICH S11 | ➤ OECD TG 426 |
| ➤ OECD TG 414 | ➤ OECD TG 443 |



Why Veeda?

Scientific Expertise

Experienced multidisciplinary teams supporting reproductive safety assessment across diverse therapeutic modalities.

Integrated Development Support

One-stop solution encompassing toxicology, pathology, bioanalysis, and regulatory support.

Quality & Compliance

Studies conducted under globally accepted quality systems and regulatory standards.

Flexible Study Design

Customized, science-driven strategies aligned with product-specific development needs.

Accelerating Reproductive Safety Assessment for Global Development Programs

Connect with Veeda's DART Experts



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From Fertility Assessment to Developmental Risk Characterization Supporting Every Stage of Reproductive Safety Evaluation



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**Excellence
In Everything**