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| **VT Center for Drug Discovery Grant Application Form** |
| **PRINCIPAL INVESTIGATOR** |  | **TITLE** |  |
| **DEPARTMENT** |  |
| **PROJECT TITLE** |  |
| **GRANT TYPE** | \_\_\_High-Throughput Screening (requested amount: $\_\_\_\_\_) \_\_\_Seed Grant (up to $50k) |
| *Please address the items below.* ***Not to exceed three (3) pages,*** *including budget.*  |

| 1. **Project Type**
 | \_\_\_ Small  molecule\_\_\_ Biologic | \_\_\_ High-Throughput Screening \_\_\_ Med Chem/SAR \_\_\_ In Vivo Proof of Concept \_\_\_ ADME/Pharmacokinetics \_\_\_ Other - please specify: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  |
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| 1. **Therapeutic**

 **hypothesis** | What coherent and supportable hypothesis is expected to convey therapeutic benefit?What data link the pathway/target to human disease? |  |
| 1. **Target defined**
 | What is the drug target and understanding of the type of intervention desired?  |  |
| 1. **Project status & enabling expertise**
 | What is the current project status? What know-how, experience and/or expertise do you have that is not readily available to others? |  |
| 1. **Competitor(s) or Partner(s)**
 | What is the current standard and what is being developed? What is your unfair advantage? What downstream partners might have interest in your work?  |  |
| 1. **Proposed Investigation & Milestone(s)**
 | What work will be done? What are key points that serve as go/no go points along the way? |  |

1. **Budget & Milestones (Example shown below – delete and replace with own text)**

| **Tranche # /** **Prerequisite** | **Specific activity** | **Funds required** | **Milestone Deliverable & Success Criterion** | **Delivery by** |
| --- | --- | --- | --- | --- |
| Tranche 1 / no prerequisite | Single Drug Dose Response in ABC model with Drug 1, Drug 2, Drug 3, Drug 4 | $10,000 | At least two drugs which show 15% reduction in liver ABC accumulation at non-toxic doses | 6 mo from NoA |
| Tranche 2 / pre-requisite: success in Tranche 1 and Quotes from CRO for PK | Drug pair testing of ideal concentrations in ABC model to assess synergy (Drug 1 and Drug 2, Drug 1 and Drug 2, Drug 3 and Drug 4) | $20,000 | At least one drug combination with a combination index of <1.0 via isobologram analysis and lack of toxicity | 10 mo from NoA |
| Tranche 3 / pre-requisite: success in Tranche 2 | Regulatory Analysis & Commercialization strategy for re-purposing pathway | $20,000 | Identification of a viable regulatory & commercial strategy leveraging IP to navigate clinical trials | 12 mo from NoA |
| ***Total (up to $50,000)*** | $50,000 |  |

**Submit completed application along with a current biosketch or CV to** **racheldd@vt.edu****.**

*-Eligibility criteria:* Investigators with a faculty appointment at VT who are affiliated members of the VTCDD

-*Submission deadline/notification:* Applications are accepted on a rolling basis with notification within 4 weeks.

-*Award term:* The funds are available **until 6/30/2023.**

-*Pre-consultation:* Applicants are strongly advised to consult with VTCDD prior to submission.