**Baltimore PKD Research and Clinical Core Center (P30 DK090868)**
**Please complete this form to request use of Baltimore PKD Center Resources**
**Return via Email: twatnick@som.umaryland.edu or Fax: 410-706-2830**

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|---|---|
| **Principal Investigator** | |
| **Institution** | |
| **Address** | |
| | |
| **Phone Number** | |
| **Fax Number** | |
| **Email Address** | |

**Indicate below the Core resources you would like to request:**

## CORE B – ANTIBODY VALIDATION AND VECTOROLOGY

***Please be specific about your request in the space provided on Page 2.***

- ☐ Antibodies to Polycystin1, Polycystin2 or Fibrocystin
- ☐ Antibody Validation Kit
- ☐ Tagged Expression Vectors: PKD1, PKD2, Fibrocystin
- ☐ Custom Expression Vector
- ☐ Technical Assistance (Western Interpretation, protocol interpretation)

**Cell Lines:**

- ☐ *Pkd1*$^{-/-}$ or *Pkd2*$^{-/-}$ Murine Embryonic Fibroblasts MEFs.
- ☐ MDCK/HEK Cell lines over-expressing PKD1, PKD2, Fibrocystin.

## CORE C – MURINE MODELS AND BIOBANK

***Please be specific about your request in the space provided on Page 2.***

- ☐ Request Murine Model/PKD1 conditional deletion and KSP-CRE
- ☐ Tissue Specimens. (*Specify murine model, tissue type, age of animal, blood or urine sample)*
- ☐ Pre-clinical therapeutic trial
- ☐ Assistance with tissue fixation. (*Specify staining protocol or histopathologic interpretation.)*

## CORE D – CELL ENGINEERING

***Please be specific about your request in the space provided on Page 2.***

A. Conditional KO immortalized renal epithelial cell lines:
   - ☐ *Pkd1* $^{cond/cond}$; ROSA26R+ (requires transfection with Cre for KO [Ad-CMV-Cre; see website for link])
   - ☐ *Pkd2* $^{cond/cond}$; ROSA26R+ (requires transfection with Cre for KO [Ad-CMV-Cre; see website for link])

## CORE D – CELL ENGINEERING (continued)

***Please be specific about your request in the space provided below.***

B. GPS cleavage mutant cell lines:
   - ☐ **Pkd1* $^{v/v}$ (knock in GPS cleavage mutant) with wild type matched control. Proximal tubule or distal tubule/collecting duct. *(Specify kidney tubule segment(s) in space provided.)*

C. Inducible Conditional KO renal epithelial cell lines; with mTmG reporter (double fluorescent Cre-reporter: Cre activation changes membrane localized Tomato signal to GFP) **Primary cells only.**
   - ☐Pax8rtTA; TetO-Cre; *Pkd1* $^{cond/cond}$ ; mTmG
   - ☐Pax8rtTA; TetO-Cre; *Pkd2* $^{cond/cond}$ ; mTmG

D. Custom Cell Engineering Project. (*Describe what is desired in space provided.)*

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## CORE E - CLINICAL & TRANSLATIONAL CORE

***Please be specific about your request in the space provided***

A. Repository Specimens *(In Process)*
B. Assistance with a PKD Clinical Research Proposal Including:
   - Protocol Design
   - GFR and Renal Volume Measurements
   - Participant Recruitment and Retention Strategies, biostatistics support

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**Please use this space to explain in more detail what you need:**

**If you are requesting animals, please specify. Shipping Costs are the responsibility of the investigator.**

| | |
|---|---|
| **Shipping Coordinator Name** | |
| **Phone Number** | |
| **Email Address** | |
| **Name of Shipping Veterinarian** | |
| **Phone Number** | |
| **Email Address** | |

**Expenses:**

The funding provided by the Center applies to services and technical support provided by the Center Cores. In addition, the Center will provide expert advice and assistance with data analysis, as well as training in relevant techniques. Other expenses (such as animals, laboratory supplies, transportation etc.) are the responsibility of the primary investigator.

**Acknowledgment of the Center:**

We ask that you agree to acknowledge Baltimore Polycystic Kidney Disease (PKD) Research and Clinical Core Center, NIH P30DK090868 on any publications and/or grant applicatons using resources provided by the center. Please use the following statement: "Studies utilized resources provided by the NIDDK sponsored Baltimore Polycystic Kidney Disease Research and Clinical Core Center, P30 DK090868".

**Please check the box below before submitting the request:**

☐ **YES**, I agree to acknowledge the Baltimore PKD Center on any publications and/or grant applications and provide the information to the Center.

The Center Director Dr. Terry Watnick can provide letters of Center resource availability, consultation or collaboration upon request.

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If you are not a member of our Research Base, please attach, with this request form, a copy of your Biosketch in NIH format including Other Support. Also, please provide a brief summary of your proposed studies for which you are requesting use of the Center resources. Please include a description of the relevance to polycystic kidney disease research.

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