DCRI COMMERCIAL RELATIONSHIPS TRACKING FORM

Year:	2018
Name:	Karan R. Kumar, MD MS
Title:	Assistant Professor of Pediatrics
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Please complete the applicable rows in the following table. Monetary amounts are on an annual basis.

Company:	(1) A Research Grant or Contract from this Company Partially Supports My	(2) A Research Grant or Contract from this Company Supports My	Lecture	cational Ac es for this (rates <i>Reve</i> <i>Duke</i>	Company	Servi CME) fo	sulting of ces (Incl or this Co rates Per Income	uding ompany rs <i>onal</i>	Otl Ser Comp	Consultiner non- rvices for bany Ger sonal Ind	CME this nerates	(6) I Receive Significant Personal Royalties from this	Equi) I Have ity in this ompany
	University Salary	Research Projects	<\$5K	\$5K- \$25K	>\$25K	<\$5K	\$5K- \$25K	>\$25K	<\$5K	\$5K- \$25K	>\$25K	Company	<\$5 K	>\$5K/1%
Abbott Laboratories														
Abbott Nutrition														
Abbott Vascular Business (formerly Abbott Vascular Devices)														
AbbVie Inc														
Abiomed														
Acceleron Pharma Inc														
Acerta Pharma														
ACIST Medical Systems Inc														
Actelion Ltd														
Actus Biotherapeutics														
AegisCN LLC														

Aimmune Therapeutics							
Aires Pharmaceuticals							
Akili Interactive Labs Inc							
Akros Pharmaceuticals							
Alexion Pharmaceuticals Inc							
Allena Pharmaceuticals							
Amarin Corporation							
Amgen GmbH							
Amgen Inc							
Amicus Therapeutics							
Amylin Pharmaceuticals, Inc.							
ARCA biopharma							
Armis Biopharma							
Astellas Pharma US Inc							
Astellas Scientific and Medical Affairs Inc							
AstraZeneca							
Baseline Study LLC							
Basilea Pharmaceutica International Ltd							

Bayer AG							
Bayer HealthCare Pharmaceuticals Inc (formerly Berlex Labs)							
Bayer Pharmaceutical Division							
Bellerophon (formerly Ikaria)							
Biosensors Research USA Inc							
Biostat amd Bioinformatics Chairs Office							
Boehringer Ingleheim Pharmaceuticals Inc							
Boston Scientific Corporation							
Bristol Myers Squibb							
Caladrius Biosciences Inc							
Cardinal Health							
Cardiovascular Systems Inc							
CARRA INC							
Cempra Pharmaceuticals Inc							
Chiesi USA Inc							
Claret Medical							

ContraFect Corporation							
CPC Clinical Research							
CryoLife Inc							
CSL Behring (formerly Aventis Behring)							
CVRx							
Cytokinetics Inc							
Daiichi Pharma							
DAIICHI SANKYO COMPANY, LIMITED							
Datavant Inc							
David H Murdock Inst for Business and Culture							
Deloitte Consulting LLP							
Duke Clinical Research Institute							
Durata Therapeutics							
Eidos Therapeutics Inc							
Eiger BioPharmaceutical s Inc							
Einstein HC Network Philadelphia							
Elesvier							
Eli Lilly & Company							

EnDyna Inc							
Eureka Therapeutics							
Evalve Inc							
Ferring Pharmaceuticals							
Filament BioSolutions							
Galectin Therapeutic							
Genentech							
General Electric Company							
General Electric Healthcare							
General Electric Medical Systems							
Genetic Alliance							
Genzyme Corporation							
Gilead							
GlaxoSmithKline plc							
Grifols							
HeartFlow							
Intarcia Therapeutics, Inc.							
Intracellular Therapies Inc							
Ironwood Pharmaceuticals							
Jacobus Pharmaceutical Company Inc							

Janssen Pharmaceutica Products, L.P.							
Janssen Research and Development							
Janssen Scientific Affairs, LLC							
Japanese Org for Med Device Devlpt							
Jazz Pharmaceuticals							
Johnson & Johnson							
Johnson and Johnson Pharmaceutical Research and Development							
Karius Inc							
Kem Pharm Inc							
Ligand Pharmaceuticals							
Luitpold Pharmaceuticals Inc							
Lundbeck Pharmaceuticals							
Mallinckrodt							
Marinus Pharmaceuticals Inc							
Medical Device Innovation Consortium							
Medtronic AVE							

Medtronic PLC							
Medtronic Vascular Inc(formerly Medtronic AVE)							
Mercator MedSystems Inc							
Merck and Company Inc							
Merck Sharp & Dohme I.A. Corporation							
Minnetronix Medical Inc							
Momenta Pharmaceuticals							
Murdock							
MyoKardia Inc							
National Evaluation System for health Technology Coordinating Center							
Neogia Technologies							
Novartis Consumer Health Inc							
Novartis Pharmaceutical Company							
Novo Nordisk							
NS Pharma Inc							

Oasis Pharmaceuticals LLC							
Olympus Corporation							
Oncternal Therapeutics							
Ophthotech Corporation							
OrbusNeich							
Otsuka America Pharmaceutical, Inc							
Oxygen Biotherapeutics (formerly Synthetic Blood International)							
PATH							
PENTAX Medical							
Pfizer							
Portola Pharmaceuticals							
PRA International							
Protestasis Pharmaceuticals Inc							
Purdue Pharma							
Reata Pharmaceuticals Inc.							
Reflexion Health							
Regeneron Pharmaceuticals Inc							

ReNeuron							
Renovion Inc							
Research Triangle Institute							
ResMed Corp							
Respiratory Compromise Institute							
Rhythm Pharmaceuticals							
Robertson Clinical and Translation Cell Therapy Program							
Roche Diagnostics							
Roche Diagnostics Corp							
Roche Group							
Roche Labs							
Sanifit							
Sanofi Genzyme							
Sanofi US Services Inc							
Sanofi-Aventis							
Sanofi-Synthelabo							
Savara Pharmaceuticals							
scPharmaceuticals Inc							
SCYNEXIS, Inc							
Shire Human Genetic Therapies Inc							

Society of Thoracic Surgeons							
Stanford University							
Stealth Peptides							
Summit							
Svelte Medical Systems Inc.							
Swedish Orphan Biovitrum AB							
T3D Therapeutics Inc							
Tacere Therapeutics							
Taiwanj Pharmaceuticals Company Ltd							
Takeda Pharmaceutical North America Inc							
TESARO Inc							
TEVA Pharmaceuticals Industries							
Theravance Biopharma							
Thrombosis Research Institute							
TRIPHASE Pharma Solutions LLC							
UCB							
Ultragenyx Pharmaceuticals							
uMETHOD Health Inc							

Uniformed Services Univ of the Health Sciences							
United Health Network							
University of Michigan							
University of Oxford							
Vertex Pharmaceuticals Inc							
Volcano Corporation							
VoluMetrix LLC							
Zimmer Biomet Holdings Inc (formerly Zimmer Holdings)							
uMETHOD Health Inc							

Column Explanations:

- (1) Funding is provided for my effort in research grants or contracts for multi-center projects in which I serve as either the Chairman, Co-Chairman, Executive or Steering Committee member or I am involved as a DCRI faculty leader for specific aspects in a project. A check in this column denotes that I am involved in such a research contract. Payments for the work performed for these contracts are made to the University. A portion of my salary as a faculty member, representative of % effort on the project, is supported by these funds.
- (2) A research grant from this company supports the expenses associated with projects in the DUHS that are under my direction.

- (3) I provide educational activities or deliver occasional lectures that generate revenue from this company. All revenues from these activities are paid to the University. None of it is taken for personal income. The three columns represent annual payments of more than \$5,000, between \$5,000 and \$25,000, and in excess of \$25,000 per year from this company.
- (4) I receive personal income outside of my University salary for consulting or other services (Including CME) from this company. The three columns represent annual payments of more than \$5,000, between \$5,000 and \$25,000, and in excess of \$25,000 per year from this company.
- (5) I receive personal income outside of my University salary for consulting or other non-CME services from this company. The three columns represent annual payments of more than \$5,000, between \$5,000 and \$25,000, and in excess of \$25,000 per year from this company.
- **(6)** I personally receive royalties in excess of \$5,000 per year from this company.
- (7) I, or an immediate member of my family, have equity (with shareholder voting privileges) in this company of either > \$5,000 or > 1%.