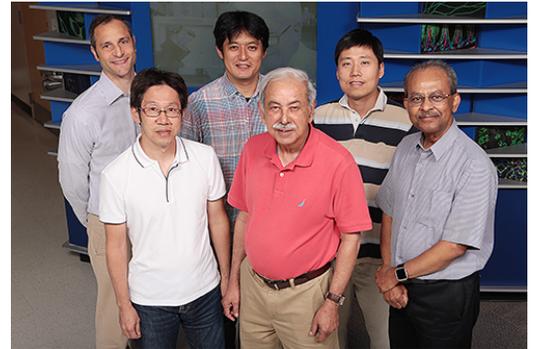


Reproductive Sciences

Division Details

RESEARCH AND TRAINING DETAILS

Faculty	7
Joint Appointment Faculty	1
Research Fellows and Post Docs	1
Research Graduate Students	10
Total Annual Grant Award Dollars	\$2,796,481



Row 1: Y Ogawa, S Dey, S Das

Row 2: T De Falco, S Namekawa, X Sun

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Division Highlights

SK Dey, PhD

NIH Study Section Reviewer: Cellular, Molecular and Integrative Reproduction (CMIR); October 2016, June 2017

Satoshi Namekawa, PhD

- Invited speaker: "Epigenetics in the male germline from stem cells to sperm." Hokkaido University, Japan. December 6, 2016.
- Invited speaker: "Chromatin structure and epigenome during spermatogenesis." Annual Meeting of the Molecular Biology Society of Japan. Yokohama Japan. December 2, 2016.
- Invited speaker: "Germ Cell Development and Epigenetics." Mie University Graduate of School of Medicine, Mie, Japan. October 31, 2016.
- Invited speaker: "Polycomb protein SCML2 is the germline-specific regulator of bivalent domains." Cold Spring Harbor Laboratory Meeting: Germ cells. October 4-8, 2016.
- Invited speaker: "Epigenetics in the male germline from stem cells to sperm." The Society for Reproduction and Fertility Annual meeting. UK. July, 2016.
- Award: Cincinnati Children's Research Achievement Award, 2016
- NIH Study Section reviewer: ZHD1 DSR-L
- Award: Joint Research Scheme Grant (ANR/RGC), France

Yuya Ogawa, PhD

NIH Study Section reviewer: CHHD-C

Tony DeFalco, PhD

- Invited speaker: “Macrophages and vasculature: an unlikely partnership in reproductive and stem cell biology.” University of Texas at San Antonio, San Antonio, TX. March 2017.
- Invited speaker: “Macrophages: unexpected players in reproductive and stem cell biology.” University of Texas Southwestern. Dallas, TX. September 2016.
- Invited speaker: “Macrophages and the spermatogonial niche.” 49th Annual Meeting of the Society for the Study of Reproduction. San Diego, CA. July 2016.
- NIH Study Section reviewer: Cellular, Molecular and Integrative Reproduction (CMIR); February 2017
- Award: Cincinnati Children's Hospital Medical Center Shared Facilities Discovery Award, 2016-2017
- Program Committee reviewer: 49th Annual Meeting of the Society for the Study of Reproduction. San Diego, July 2016

Sanjoy Das, PhD

NIH Study Section reviewer: Reproduction, Andrology, and Gynecology (RAG); October 2016, February 2017

Division Publications

1. Deng W; Cha J; Yuan J; Haraguchi H; Bartos A; Leishman E; Viollet B; Bradshaw HB; Hirota Y; Dey SK. **p53 coordinates decidual sestrin 2/AMPK/mTORC1 signaling to govern parturition timing.** *Journal of Clinical Investigation.* 2016; 126:2941-2954.
2. Cha J; Dey SK. **Hunting for Fox(A2): Dual roles in female fertility.** *Proceedings of the National Academy of Sciences of the United States of America.* 2017; 114:1226-1228.
3. Yuan J; Cha J; Deng W; Bartos A; Sun X; Ho HYH; Borg JP; Yamaguchi TP; Yang Y; Dey SK. **Planar cell polarity signaling in the uterus directs appropriate positioning of the crypt for embryo implantation.** *Proceedings of the National Academy of Sciences of the United States of America.* 2016; 113:E8079-E8088.
4. Alavattam KG; Kato Y; Sin HS; Maezawa S; Kowalski IJ; Zhang F; Pang Q; Andreassen PR; Namekawa SH. **Elucidation of the Fanconi Anemia Protein Network in Meiosis and Its Function in the Regulation of Histone Modifications.** *Cell Reports.* 2016; 17:1141-1157.
5. Lin YT; Barske L; Defalco T; Capel B. **Numb regulates somatic cell lineage commitment during early gonadogenesis in mice.** *Development (Cambridge).* 2017; 144:1607-1618.
6. Zhang T; Du W; Wilson AF; Namekawa SH; Andreassen PR; Meetei AR; Pang Q. **Fancd2 in vivo interaction network reveals a non-canonical role in mitochondrial function.** *Scientific Reports.* 2017; 7:45626.
7. Lanekoff I; Cha J; Kyle JE; Dey SK; Laskin J; Burnum-Johnson KE. **Trp53 deficient mice predisposed to preterm birth display region-specific lipid alterations at the embryo implantation site.** *Scientific Reports.* 2016; 6:33023.
8. Bian F; Gao F; Kartashov AV; Jegga AG; Barski A; Das SK. **Polycomb repressive complex 1 controls uterine decidualization.** *Scientific Reports.* 2016; 6:26061.
9. Bolnick AD; Bolnick JM; Kilburn BA; Stewart T; Oakes J; Rodriguez-Kovacs J; Kohan-Ghadr HR; Dai J; Diamond MP; Hirota Y. **Reduced homeobox protein MSXI in human endometrial tissue is linked to infertility.** *Human Reproduction.* 2016; 31:2042-2050.
10. Sun X; Ito J; Potter SJ; Dey SK; DeFalco T. **Extragenital oocytes residing in the mouse ovarian hilum contribute to fertility.** *Biology of Reproduction.* 2017; 96.

11. Potter SJ; DeFalco T. [Role of the testis interstitial compartment in spermatogonial stem cell function](#). *Reproduction*. 2017; 153:R151-R162.

12. Kumar DL; Defalco T. [Of Mice and Men: In Vivo and In Vitro Studies of Primordial Germ Cell Specification](#). *Seminars in Reproductive Medicine*. 2017; 35:139-146.

Grants, Contracts, and Industry Agreements

Annual Grant Award Dollars

Investigator	Title	Sponsor	ID	Dates	Amount
Sudhansu K Dey, PhD	The Role of Bioactive Lipids in Inflammation and Cancer - Project 4	National Institutes of Health (Mayo Clinic)	P01 CA077839	12/01/2012 - 05/31/2018	\$237,917
Sudhansu K Dey, PhD	Endocannabinoid Signaling during Early Pregnancy	National Institutes of Health	R01 DA006668	04/01/2015 - 03/31/2020	\$427,496
Tony John De Falco, PhD	Macrophage Regulation of the Spermatogonial Stem Cell Niche	National Institutes of Health	R35 GM119458	09/01/2016 - 05/31/2021	\$780,000
Satoshi H Namekawa, PhD	Histone Lysine Crotonylation in Paternal Epigenetic Inheritance	National Institutes of Health	R21 ES027117	09/01/2016 - 08/31/2018	\$195,000
Sudhansu K Dey, PhD	Molecular Signaling in Uterine Receptivity to Implantation	National Institutes of Health	R01 HD068524	09/11/2016 - 06/30/2021	\$397,368
Satoshi H Namekawa, PhD	DNA Damage Response Pathways in Meiotic Sex Chromosome Inactivation	National Institutes of Health	R01 GM098605	02/01/2017 - 01/31/2021	\$468,000
Yuya Ogawa, PhD	Organization of the Inactive X-chromosome	National Institutes of Health	R01 GM102184	09/01/2016 - 08/31/2017	\$290,700
Total Annual Grant Award Dollars					\$2,796,481
