

Source: USU Spreadsheet "Attachment 1.3 Reseach Jobs FY16"

First Name	Last Name	ID	Position De Index	USTAR Faculty	Annual Salary
Jaemin	Eun	A02012959	Lab Assistant	Lee, Young-Min	
Ashton	Frank	A01796290	Lab Assistant	Lee, Young-Min	
Jordan	Frank	A00385066	Lab Assistant	Lee, Young-Min	
Jin-Kyoung	Kim	A01923879	Post Doc	Lee, Young-Min	
Young-Min	Lee	A01579457	Associate Professor	Lee, Young-Mir	\$127,797.00
Byunghak	Song	A01967618	Researcher	Lee, Young-Min	
Lisa	Yamane	A01216063	Student Worker/Research Lab	Lee, Young-Min	
Sang-Im	Yun	A01762061	Research Assistant Professor	Lee, Young-Mir	\$60,693.00

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Zhiqiang	Fan	A01673814	Postdoctoral Fellow II	Polejaeva, Irina	\$42,158.00
Elizabeth	Floyd	A01750196	Lab Assistant	Polejaeva, Irina	
Kirsten	Gash	A00975589	Lab Animal Technician	Polejaeva, Irina	\$16,499.80
Kirsten	Gash	A00975589	Research Assistant	Polejaeva, Irina	
Iuri	Perisse	A02227270	Graduate Assistant	Polejaeva, Irina	\$3,000.00
Iuri	Perisse	A02227270	Research Assistant	Polejaeva, Irina	
Irina	Polejaeva	A00728025	Associate Professor	Polejaeva, Irina	\$103,328.00
Irina	Polejaeva	A00728025	0.3600 of 0.3600 Summer Mont	Polejaeva, Irina	\$49,596.00
Misha	Regouski	A01189349	Researcher I	Polejaeva, Irina	\$35,000.00
Min	Yang	A01807339	Graduate Research Assistant	Polejaeva, Irina	\$15,999.96

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Victoria	Holman	A01560481	Lab Assistant	Wang, Zhongde	
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Sang	Lee	A01777556	Postdoctoral Fellow II	Wang, Zhongde	\$40,890.00
Rong	Li	A02221708	Postdoctoral Fellow I	Wang, Zhongde	\$38,000.00
Dane	Rasmussen	A01976904	Graduate Research Assistant	Wang, Zhongde	\$6,499.98
Zhongde	Wang	A01672473	Associate Professor	Wang, Zhongde	\$102,256.00

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Autumn Slade		A01690571	Research As A25029	Abglevor, Foster	
Michael Castle		A01012626	Research As A33010	Abglevor, Foster	
Dallin Spear		A01090914	Research As A33010	Abglevor, Foster	
Kyle Christian		A01112809	Research As A33010	Abglevor, Foster	
Peter Hatvigsen		A01246366	Research As A33010	Abglevor, Foster	
Garrett Smith		A01247934	Research As A33010	Abglevor, Foster	
Brandon Sargent		A01385038	Research As A33010	Abglevor, Foster	
Jenna Rydalch		A01566139	Research As A33010	Abglevor, Foster	
Austin Buxton		A01816695	Research As A33010	Abglevor, Foster	
Skylar Hatch		A01424457	Research As A33098	Abglevor, Foster	
Bron Mccall		A01843233	Research As A33098	Abglevor, Foster	
Oleksandr Heitsoi		A01971971	Postdoctoral A33098	Abglevor, Foster	\$37,999.92
Sedat Beis		A02196846	Postdoctoral A33287	Abglevor, Foster	\$50,498.00
Byron Morales		A01696613	Research As A33287	Abglevor, Foster	
Ariel Taysom		A01212275	Research As A34345	Abglevor, Foster	
Angela Akude		A02050187	Research As A34641	Abglevor, Foster	\$19,200.00
Hossein Jahromi		A02052582	Research As A34641	Abglevor, Foster	\$22,800.00

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Ryan Bohm		A00305057	Research Er A27729	Zane, Regan	\$82,000.00
Joshua Rambo		A01364445	Program Co A27729	Zane, Regan	\$46,020.00

Muhammad Muneeb UR Rehmar	A01953852	Graduate R	A27729	Zane, Regan	\$19,407.92
Hongjie Wang	A02048556	Graduate R	A27729	Zane, Regan	\$19,407.92
Jacob Devitry-Smith	A00933926	Research A	A27729	Zane, Regan	
Carsten Christensen	A01382561	Research A	A27729	Zane, Regan	
Christoher Merrill	A01488892	Research A	A27729	Zane, Regan	
Allon Echols	A01503489	Research A	A27729	Zane, Regan	
Hayley Zilles	A01631137	Office Assis	A27729	Zane, Regan	
Paul Rau	A01962830	Research A	A27729	Zane, Regan	
Michael Evzelman	A02030725	Visiting Res	A27729	Zane, Regan	\$43,850.04
Kai Hartley	A02046350	Undergrad I	A27729	Zane, Regan	
Kyle Hovey	A02188949	Research A	A27729	Zane, Regan	
Donald Rice	A00309762	Research Te	A28878	Zane, Regan	
Justin Cox	A01163139	Research A	A30453	Zane, Regan	
Anindya Ray	A02181419	Graduate R	A34645	Zane, Regan	\$16,007.92
Anindya Chitta Bagchi	A02183477	Graduate R	A34645	Zane, Regan	\$16,007.92
Ahmed Azad	A01960670	Graduate R	A34645	Zane, Regan	\$19,207.92
David Christensen	A00302001	Director	A34646	Zane, Regan	\$116,979.96
Shijie Zhou	A02219644	Postdoctor	A34646	Zane, Regan	\$21,964.28
Ishmaal Erekson	A00787457	Graduate R	A34646	Zane, Regan	\$14,619.02
Braden Limb	A01353788	Graduate R	A34646	Zane, Regan	\$35,694.65
Tarak Saha	A02046673	Graduate R	A34646	Zane, Regan	\$19,407.92
Zachary Garrard	A00957532	Research A	A34646	Zane, Regan	
Daniel McGarry	A01020597	Research A	A34646	Zane, Regan	
Nathan Kunz	A01094955	Graduate R	A34646	Zane, Regan	
Austin Costley	A01210672	Graduate R	A34646	Zane, Regan	
Hunter Buxton	A01396163	Research A	A34646	Zane, Regan	
Tyler Travis	A01519795	Research A	A34646	Zane, Regan	
David Petrizze	A01625825	Research A	A34646	Zane, Regan	
Thomas Sego	A01701553	Research A	A34646	Zane, Regan	

Bryton Finlinson	A02071362	Research As	A34646	Zane, Regan	
Madison Mickelson	A01631260	Research As	A35651	Zane, Regan	
Vladimir Kulyukin	A00017600	Associate Pr	A35651	Zane, Regan	\$125,026.00
Zeljko Pantic	A01965192	Assistant Pr	A35651	Zane, Regan	\$97,472.96
Ehsan Allah Qiyassi	A02183444	Graduate R	A35651	Zane, Regan	\$12,807.92
Aleksandar Jovicic	A02206229	Graduate R	A35651	Zane, Regan	\$16,007.92
Eric Green	A01241209	Research As	A35651	Zane, Regan	
Niranjana Chandrappa	A01960123	Lab Assista	A35651	Zane, Regan	
Sai Kiran Reka	A01988379	Research As	A35651	Zane, Regan	
Samy Nashabe	A02076502	Research As	A35651	Zane, Regan	
Sarbajit Mukherjee	A02090429	Research As	A35651	Zane, Regan	
Seyed Tavakoli	A02183561	Graduate R	A35651	Zane, Regan	\$16,007.92
Ryan Gerdes	A01660911	Assistant Pr	A35652	Zane, Regan	\$103,890.93
Rajnikant Sharma	A01964761	Assistant Pr	A35652	Zane, Regan	\$119,053.96
Gregory Vernon	A00836194	Research As	A35652	Zane, Regan	
Marvin Halling	A00015657	Professor	A35653	Zane, Regan	\$145,958.04
Trevor Gardner	A01098987	Graduate R	A35653	Zane, Regan	
Ira Buckley	A01975866	Undergradu	A35653	Zane, Regan	
Jason Quinn	A01777396	Assistant Pr	A35654	Zane, Regan	\$125,386.00

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Agarraberes	Fernando	A02190586	Postdoctoral Fellow II	Lewis, Randy	\$46,020.00
Bhattacharyya	Gargi	A02184047	Postdoctoral Fellow II	Lewis, Randy	\$46,020.00
Jones	Justin	A01664334	Researcher SR	Lewis, Randy	\$69,045.00
Lewis	Randy	A01554092	Professor	Lewis, Randy	\$187,993.00
Morley	Jordan	A00805904	Researcher II	Lewis, Randy	\$42,540.00
Oliveira	Paula Elizabeth	A01893852	Postdoctoral Fellow II	Lewis, Randy	\$44,939.00
Wood	Jon	A01554468	Research Engineer I	Lewis, Randy	\$45,570.00

Berg	Kyle	A00934213	Graduate Research Assistant	Lewis, Randy	\$6,400.00
Gil	Dan	A01960155	Graduate Research Assistant	Lewis, Randy	\$7,600.00
Zhang	Xiaoli	A01901420	Graduate Research Assistant	Lewis, Randy	\$7,600.00
Zhang	Xiaoli	A01901420	Graduate Research Assistant	Lewis, Randy	\$20,900.00
Aguilar	Michelle	A01930903	Goat Herdsman	Lewis, Randy	\$20,800.80
Alhabib	Abood	A01659691	Undergraduate Researcher	Lewis, Randy	\$20,800.80
Bailey	Michael	A01564030	Undergraduate Researcher	Lewis, Randy	\$20,800.80
Bastian	Shawni	A01382586	Undergraduate Researcher WS	Lewis, Randy	\$10,800.00
Bastian	Shawni	A01382586	Undergraduate Researcher	Lewis, Randy	\$20,800.80
Boehme	Paul	A00762613	Goat Herdsman	Lewis, Randy	\$22,880.88
Brown	jake	A01428422	Goat Herdsman	Lewis, Randy	\$20,800.80
Christiansen	David	A01438070	Undergraduate Researcher	Lewis, Randy	\$20,800.80
Cook	Wes	A01684718	Undergraduate Researcher	Lewis, Randy	\$20,800.80
Copeland	Cameron	A00299384	Temporary Researcher	Lewis, Randy	\$45,761.76
Daniel	Josh	A01218823	Undergraduate Researcher	Lewis, Randy	\$20,800.80
Day	Breton	A01258919	Undergraduate Researcher	Lewis, Randy	\$20,800.80
Day	Brianna	A01635513	Undergraduate Researcher	Lewis, Randy	\$20,800.80
Dowdle	Travis	A01742058	Undergraduate Researcher	Lewis, Randy	\$20,800.80
Ecsedy	Colin	A01770010	HighBay Fermentation Tech	Lewis, Randy	\$20,800.80
Gaztambide	Danielle	A01658044	Undergrad Research Technician	Lewis, Randy	\$20,800.80
Ghazi Tabataba	amir	A01529422	Undergraduate Researcher	Lewis, Randy	\$20,800.80
Jensen	Zachary	A01204302	HighBay Fermentation Tech	Lewis, Randy	\$20,800.80
Licon	Ana Laura	A01647483	Undergraduate Researcher	Lewis, Randy	\$20,800.80
Memmott	Dylan	A01470805	Undergrad Research Technician	Lewis, Randy	\$20,800.80
Roberts	Charles	A01539524	HighBay Fermentation Tech	Lewis, Randy	\$21,840.84
Sampath	Sujatha	A01769727	Consulting Research Scientist	Lewis, Randy	\$104,004.00
Smuin	Deven	A01383812	Undergraduate Researcher	Lewis, Randy	\$20,800.80
Steadman	Jesse	A01961331	Undergraduate Researcher	Lewis, Randy	\$20,800.80
Sun	Yuan	A02222839	Undergraduate Researcher	Lewis, Randy	\$20,800.80

Taurone	Blake	A01859057	Undergraduate Researcher	Lewis, Randy	\$20,800.80
Thomas	Emily	A02048349	Undergraduate Researcher	Lewis, Randy	\$20,800.80
Turner	Jaden	A01824008	Laboratory Clerk	Lewis, Randy	\$20,800.80
Weller	Phillip	A01412409	Undergraduate Researcher	Lewis, Randy	\$20,800.80
Wendel	Hyrum	A01232544	Undergraduate Researcher	Lewis, Randy	\$20,800.80
Yazzie	Brandon	A01690588	Undergraduate Researcher	Lewis, Randy	\$20,800.80

Hourly Rate Hire Date Termination Date

\$14.00 5/28/15
\$12.00 6/6/16
\$10.00 10/16/15
\$10.00 7/1/15 6/30/16
\$61.44 1/1/12
\$10.00 7/1/15
\$10.00 8/27/13 7/31/15
\$29.18 1/1/12

\$20.27 9/15/14
\$9.00 11/1/15 12/15/15
\$10.58 2/1/16
\$9.00 9/16/14 1/31/16
\$1,500.00 5/1/16 6/30/16
\$12.00 4/12/16 5/15/16
\$49.68 4/1/11
\$23.84 11/1/15 11/30/15
\$16.83 8/1/13
\$1,333.33 7/1/15 6/30/16

\$10.00 11/1/15

\$19.66	3/1/12	6/16/16
\$18.27	9/21/15	
\$1,083.33	7/1/15	8/31/15
\$49.16	11/7/11	

Hire/Term Date

\$12.00 7/15-11/15 & 5/16-6/16

\$8.50 7/15-8/15

\$8.00 2/16-4/16

\$9.50 7/15-5/16

\$8.00 15-Jul

\$8.00 11/15-6/16

\$8.50 7/15-5/16

\$10.00 7/15-11/15

\$8.00 11/15-6/16

\$9.50 7/15-8/15

\$11.00 16-Jan

7/15-6/16

7/15-6/16

\$8.00 1/16-6/16

\$8.00 7/15-1/16

7/15-6/16

7/15-6/16

7/15-6/16

9/15-6/16

7/15-6/16
7/15-6/16
\$12.00 7/15-4/16
\$7.25 7/15-8/15
\$9.50 7/15-3/16
\$10.50 7/15-6/16
\$11.00 7/15-8/15
\$11.50 5/16-6/16
N/A 7/15-6/16
\$8.00 7/15-8/15 & 11/15-6/16
\$11.00 1/16-5/16
\$44.10 7/15-8/15
\$12.00 9/15-4/16
1/16-6/16
9/15-6/16
7/15-8/15 & 1/16-6/16
16-Jun
8/15-2/16
9/15-5/16
7/15-6/16
9/15-6/16
\$15.00 10/15-11/15 & 1/16 & 3/16
\$15.00 10/15-4/16
\$15.00 10/15-6/16
\$15.00 10/15-6/16
\$15.00 10/15-11/15 & 1/16-3/16 & 6/16
\$15.00 10/15-3/16
\$15.00 11/15 & 1/16 & 3/16
\$15.00 10/15-5/16

\$7.25 3/16-6/16
 \$10.00 1/16-6/16
 5/16-6/16
 9/15-6/16
 1/16-5/16
 1/16-6/16
 \$10.00 3/15-5/15
 \$15.00 1/16-3/16
 \$31.74 5/16-6/16
 \$11.00 1/16-6/16
 \$15.00 5/16-6/16
 5/16-6/16
 9/15-6/16
 9/15-6/16
 \$15.00 16-Jun
 3/16-6/16
 \$15.00 3/15-6/16
 \$12.00 16-Jun
 4/16-5/16

Labor Distribution Fund

\$22.13 2/1/15 Spider Silk MaSp1 and MaSp2 Protein
 \$22.13 1/1/15 1/31/16 Spider Silk MaSp1 and MaSp2 Protein
 \$33.20 6/1/11 5/31/16 FY16 USTAR
 \$90.38 7/1/11 FY16 USTAR
 \$20.45 9/1/15 FY16 USTAR
 \$21.61 8/20/12 PFI: Partnerships to Develop Spider
 \$21.91 9/1/15 FY16 USTAR

\$1,600.00	5/16/15	8/15/15	Spider Silk - Student Research
\$1,900.00	5/16/15	8/15/15	Spider Silk MaSp1 and MaSp2 Protein
\$1,900.00	5/16/15	8/15/15	Spider Silk MaSp1 and MaSp2 Protein
\$1,900.00	2/1/16	12/31/16	FY16 USTAR
\$10.00	4/27/16		Adhesive Spider Silks for Naval App
\$10.00	3/14/16		Adhesive Spider Silks for Naval App
\$10.00	5/16/16		Adhesive Spider Silks for Naval App
\$10.00	8/29/16		Adhesive Spider Silks for Naval App
\$10.00	6/1/16		Adhesive Spider Silks for Naval App
\$11.00	8/29/16		Adhesive Spider Silks for Naval App
\$10.00	3/14/16		Adhesive Spider Silks for Naval App
\$10.00	2/18/16		Adhesive Spider Silks for Naval App
\$10.00	9/14/15		Adhesive Spider Silks for Naval App
\$22.00	2/24/16		Adhesive Spider Silks for Naval App
\$10.00	5/9/16		Adhesive Spider Silks for Naval App
\$10.00	6/20/14		Adhesive Spider Silks for Naval App
\$10.00	5/5/16		Adhesive Spider Silks for Naval App
\$10.00	5/9/16		Adhesive Spider Silks for Naval App
\$10.00	7/1/15		Adhesive Spider Silks for Naval App
\$10.00	1/9/14		Adhesive Spider Silks for Naval App
\$10.00	6/6/16		Adhesive Spider Silks for Naval App
\$10.00	7/27/15		Adhesive Spider Silks for Naval App
\$10.00	5/4/16		Adhesive Spider Silks for Naval App
\$10.00	4/28/14		Adhesive Spider Silks for Naval App
\$10.50	7/1/15		Adhesive Spider Silks for Naval App
\$50.00	8/1/16		Adhesive Spider Silks for Naval App
\$10.00	9/16/15		Adhesive Spider Silks for Naval App
\$10.00	2/23/16		Adhesive Spider Silks for Naval App
\$10.00	11/23/15		Adhesive Spider Silks for Naval App

\$10.00	5/18/16	Adhesive Spider Silks for Naval App
\$10.00	9/10/15	Adhesive Spider Silks for Naval App
\$10.00	8/28/15	Adhesive Spider Silks for Naval App
\$10.00	5/4/15	Adhesive Spider Silks for Naval App
\$10.00	7/31/15	Adhesive Spider Silks for Naval App
\$10.00	5/19/14	Adhesive Spider Silks for Naval App

University of Utah

FY 2016

e. Research teams

USTAR Faculty & Researchers	Research Team	Position
ALTER,ORLY *	Margit M. Janat-Amsbury	Collaborator - Hospital
	Elke A Jarboe	Collaborator - Hospital
	Cheryl A. Palmer	Collaborator - Hospital
	Reha M. Toydemir	Collaborator - Hospital
	Carl T. Wittwer	Collaborator - Hospital
	Katherine A. Aiello	Graduate student
	Theodore E. Schomay	Graduate student
	Ying Wang	Graduate student
CALDWELL,CRAIG BERNREUTER	N/A	
Center for Genetic Discovery * - Yandell, Mark	Yandell, Mark	Professor
	Ence, Daniel	Graduate student
	Hernandez, Javier Edgar	Postdoctoral fellow
	Steven Flygare	Developer (employed in Utah by IDbyDNA/UU)

Holt, Carson	Research associate
Lemmon, Gordon	Software developer
Li, Qing	Graduate student
Moore, Marvin (Barry)	Director, Research and Science
Rynearson, Shawn	Software Developer
Singer, Jason	Senior research analyst
Kapusta, Aurelie	Research associate
Guang, Yang	Graduate student
Lin, Edwin	Graduate student
Li, Man	Postdoctoral fellow (now Assistant Professor)

CHOU,HUNG-CHIEH *

Bichlien Nguyen	PostDoc
Yuanziang Wang	PostDoc
Maria Mercedes Disotuar	Graduate Student
Jinze Li	Graduate Student

Computational Drug Discovery

Core * - Hariprasad Vankayalapati

Xiao-Hui Liu	Research Scientist
Gurusankar Ramamoorthy	Post Doctoral

DIAGNOSTIC IMAGING CLUSTER *

Renshaw, Perry & Yurgenlun-Todd

BOXER,DANIELLE JEANNE-MARIE	Study Coordinator
BUELER,CHARLES ELLIOTT	Clinical Research Coordinator
CHO,HAN BYUL	Post Doctoral Fellow (E)
CLINE,KIRSTEN ELISE	Research Analyst
CONNOLLY,HEIDI	Manager, Program
DiMuzio,Jennifer M.	Clinical Research Coordinator
EPSTEIN,DANIEL JONATHAN	Graduate Student

FISHER,NICOLE PAIGE	Research Analyst
HUBER,REBEKAH SUSAN	Post Doctoral Research Assoc
KANEKAR,SHAMI S	Research Assistant Professor
KIM,JIEUN E	Research Assistant Professor
KING,JACE B	Research Associate
KONDO,DOUGLAS GAVIN	Associate Professor (Clinical)
LYOO,IN KYOON	Research Associate Professor
MCGLADE,ERIN C	Research Assistant Professor
MORGAN,JUBEL F	Clinical Research Coordinator
PETERSEN,MATTHEW	Graduate Student
PRESCOT,ANDREW PAUL	Research Assistant Professor
RILEY,COLIN ANDREW	Study Coordinator
ROGERS,MALLORY MAY	Clinical Research Coordinator
Rogowska,Jadwiga	Research Associate
SABIC,HANA	Study Coordinator
SCHOLL,LINDSAY STORM	Study Coordinator
SHETH,CHANDNI SHAILESH	Post Doctoral Research Assoc
SHI,XIANFENG	Research Assistant Professor
STAGNARO,KAREN MARIE	Research Nurse
SUBRAMANIAM,PUNITHA	Graduate Student
SUNG,YOUNGHOON	Research Assistant Professor
TENNANT,MARGARET S	Manager, Accounting & Finance

DORVAL II,ALAN DALE

Heidi Febinger	Graduate Student
Katherine Lambert	Graduate Student
Nikhita Lanka	Graduate Student
Daria Nesterovich	Graduate Student
Christian Polar Cabrera	Graduate Student

FLETCHER,PRESTON THOMAS *

Michelle Hromatka	Fellowship
Eleanor Wong	Graduate Student

Miaomiao Zhang Graduate Student
Prasanna Muralidharan Graduate Student

FRANZINI,RAPHAEL *

Minghao Xu Post Doctoral

GHANDEHARI,HAMIDREZA S *

Azadeh Poursaid Graduate Student
Martin Jensen Graduate Student
Mostafa Yazdimamaghani Graduate Student
Nithya Subrahmanyam Graduate Student
Pouya Hadipour Graduate Student
Kyle Isaacson Graduate Student
Dallin Hubbard Graduate Student
Nicholas Frazier Graduate Student
Jiban, Saikai Post Doctoral
Darwin, Cheney Research Associate
Sugatha Sampath Research Associate
Steele, Ruby Administrative Assistant
Ayda, Nourbakhsh Work Study Assistant
Bista, Lloyd Work Study Assistant

JI,HAITAO *

J. Leon Catrow Graduate student
Wenxing (Toni) Guo Graduate student
Kevin B. Teuscher Graduate student

KIM,HANSEUP *

ADIBNAZARI,IMAN Undergraduate Student
BULBUL,A N M ASHRAFUZZAMAN Graduate student
FARHOUDI,NAVID Graduate student
GHOSH,CHAYANJIT Graduate student
HSIEH,HAO-CHIEH Graduate student

NOH,SEUNGBEOM Graduate student
RAHMAN,MD. MAHBUBUR Graduate student

KORENBERG,JULIE R *

Abdullah, Osama Mahmoud Research Associate
Angelucci, Alessandra Professor, Neuroscience
Brown, Leslie Research Associate
Burbach, Melissa Christine Project Coordinator
Chaturvedi, Swati Research Coordinator
Dai, Li Research Assistant Professor
Elhabian, Shireen Youssef Post Doctoral
Facelli, Julio Cesar Vice Chair, Department of Biomedical Ir
Fagatele, Siauto Lilly Study Coordinator
Healy, Connor P Graduate student
Hsu, Edward W Associate Professor
Joshi, Sarang Associate Professor
Prigge, Molly Beth Post Doctoral
Ramirez, Anna C Lab Technician
Rottman, Caleb Robert Graduate student
Sauer Michel Lab Technician
Tippetts, Jacob David Graduate student
Vachet, Clement Jean-Marie Lab Manager
Van Hoek, Alfred N Research Assistant Professor.
Weiss, Robert B Professor
Yeung, Irene Ho-Ting Lab Technician
Zimmerman, Blake Edwin Graduate student
Zygmunt, Kristen Marie Software Developer

LAZZI,GIANLUCA

Gamez Rodriguez, Erik Satunino Graduate student
Gilbert, Andrew David Undergraduate Research Assistant
Gamez Rodriguez, Erik Satunino Graduate student
Ram Rakhyani, Amil Kumar Post Doc

Kosta, Pragya	Graduate student
Wach, Zachary Allen	Graduate student
Cline, Jordan William	Graduate student
Loizos, Kyle Mark	Graduate student
Ram Rakhyani, Amil Kumar	Post Doc
Kosta, Pragya	Graduate student
Cline, Jordan William	Graduate student
Loizos, Kyle Mark	Graduate student

MARTH,GABOR T *

Di Sera, Tonya	Sr. Web Software Developer
Farrell, John A.	Research Associate
Lee, Dillon	Sr. Software Developer
Miller, Chase	Director, Research and Science
Qiao, Yi	Software Design Engineer
Ward, Alistair	Director, Research and Science
Karren, Mary Anne	Manager, Research
Benson, Nancy	Manager, Administrative

MASTRANGELO,CARLOS H *

BANERJEE,AISHWARYADEV	Graduate student
BANERJEE,NILADRI	Graduate student
GHOSH,TRIDIB	Post Doctoral Fellow (E)
HASAN,MEHEDY	Graduate student
HASAN,NAZMUL	Graduate student
KARKHANIS,MOHIT UDAY	Graduate student
LIKHITE,RUGVED	Graduate student
PANDEY,SHASHANK SHEKHAR	Graduate student

MCLENNAN,JOHN DAVID

Raili Taylor	Graduate student
Bryan Forbes	Graduate student
David Brown	Graduate student

Eric Brauser	Graduate student
Stephanie Prochaska	Graduate student
David Shaw	Graduate student
Dhrupadraghuveer Beti	Research Scientist
Jacob Bradford	Graduate student
John Fuertez Cordova	Graduate student
Josh Zannoni	Graduate student
Ning Bi	Graduate student
Shashank Tiwari	Graduate student
Thang Tran	Graduate student
Walter Glauser	Graduate student
James Schloss	Graduate student

MCPHERSON,BRIAN JAMES

Adam Olsen	Graduate student
Daniel Stout	Graduate student
Nathan Moodie	Graduate student
Ting Xiao	Graduate student
Wei Jia	Post Doc Research Associate
Yonas Tsegay	Graduate student

MENON,RAJESH *

Rust, Thomas	Research Scientist
Shen, Bing	Graduate student
Wan, Xiaowen	Graduate student
Wang, Peng	Graduate student
Shafran, Eyal	Research Scientist
Wang, Peng	Graduate student
Mohammad, Nabil	Graduate student
Shen, Bing	Graduate student
Wang, Peng	Graduate student
Majumder, Apratim	Graduate student
Masid, Farhana	Graduate student

Kim, Ganghun	Graduate student
Meiri, Amihai	Post Doc
Wan, Xiaowen	Graduate student
Masid, Farhana	Graduate student
Zudova, Alexandra	Graduate student
Kim, Ganghun	Graduate student

MEYER,MIRIAH DAWN *

Alex Bigelow	Graduate Student
Ethan Kerzner	Graduate Student
Nina McCurdy	Graduate Student
Sam Quinan	Graduate Student
Sean McKenna	Graduate Student

MINTEER,SHELLEY D *

David Hickey	PostDoc
Krysti Knoche	PostDoc
Sofiene Abdellaoui	PostDoc
Dayi Chen	Graduate Student
Lindsey Pelster	Graduate Student
Russell Reid	Graduate Student
Tao Wang	Graduate Student
Sara Koepke	Graduate Student
Timothy Quah	Graduate Student
Yaovi Holade	PostDoc
Lin Xia	Graduate Student
Matteo Grattieri	PostDoc
Kamrul Hasan	Graduate Student
Nicole Horbinski	Graduate Student
Erika Aoyama	Graduate Student
Rong Cai	Graduate Student
Koun (Kasha) Lim	Undergraduate Student

MISRA,MANORANJAN *

Prasad Kalvala	Research Professor
Jacob Salgado from Joint project	Research Scientist
James Nagel	Post-Doc
Nakul Dholu	Graduate Student
David Cohrs (joint project)	Research assistant
Jaclyn Ray	Graduate Student
Alexander Reifsnyder	Undergraduate Student
Krista Carlson	Research Scientist
David Fisher	Undergraduate Student
Mike People	Research assistant
Casey Elliot	Undergraduate Student
Ashey Timmerman	Undergraduate Student
Alec Mittelstadt	Undergraduate Student

PORTER,MARC D

Aleksander Skuratovsky	Graduate Student
China Lim	Graduate Student
Colin Young	NSF Graduate Fellow
Jason Beck	Graduate Student
Jooneon Park	Graduate Student
Nicholas Owens	Graduate Student
Ryan Robinson	Graduate Student
Alexis Crawford	Graduate Student
Lars Laurentius	Post-doctoral Research Fellow
Michael Granger	Research Assistant Professor
Jennifer Granger	Research Associate
Lorraine Siperko	Research Scientist
Beverly Warner	Research Scientist
Nicholas Schlotter	Visiting Associate Professor

Pre-Clinical Models Core * - David Lum

David Lum	Director
Brittni Smith	Associate Director
Guoying Wang	Laboratory Specialist
Oksana Kavetska	Senior Laboratory Specialist

QUINLAN,AARON *

Pedersen, Brent	Sr. Programmer/Analyst
Layer, Ryan	Research Associate
Tom Sasani	Graduate Student
Havrilla, James	Graduate Student
Pope, Michael	Student Researcher

SAFFARIAN,SAVEEZ

Mourad Bendjennat	Research assistant Professor
Peii Ku	Graduate Student
Xiaolin Tang	Graduate Student
Shilpa Gupta	Graduate Student

SAOUMA,CAROLINE T *

Fang Wang	Graduate Student
Leslie Mueller	Graduate Student
Moumita Bhattacharya	Graduate Student
Tatyana Elkin	PostDoc

SIGALA,PAUL ANDREW *

Rebecca Marvin	PostDoc
Megan Okada	Graduate Student

Synthetic Chemistry Core * -

LOOPER,RYAN

Looper, Ryan E.	Academic Director
Sebahar, Paul R.	Director

Testa, Charles A.	Director
VanderLinden, Ryan	Principle Scientist
Haussener, Travis J.	Staff Scientist
Grant, Seth W.	Staff Scientist
Luo, Shi	Staff Scientist
McAlexander, Ian	Staff Scientist
Kurek, Daniel	Staff Scientist

TABIB-AZAR, MASSOOD *

ALEMENT, TOMEY BROWN	Undergraduate Student
FAWOLE, OLUTOSIN CHARLES	Graduate Student
GAO, MING	Undergraduate Student
LI, RUN	Graduate Student
LIKHITE, RUGVED	Graduate Student
MELLOR, BRENT ROBERT	Graduate Student
ROMEROGONZALEZ, JORGE	Graduate Student
SALSBERY, GREGORY MATTHEW	Graduate Student
SINHA, KUSHAGRA	Graduate Student
TERRY, MITCHELL ANDREW	Undergraduate Student
WACH, ZACHARY ALLEN	Undergraduate Student
ZHU, WENYUAN	Undergraduate Student

TASDIZEN, TOLGA *

Cory Jones	Graduate Student
Fitsum Mesadi	Graduate Student
Mehran Javanmardi	Graduate Student
Sayed Mehdi	Graduate Student
Ting Liu	Graduate Student
Nisha Ramesh	Graduate Student

WACHOWIAK, DALE MATTHEW *

Isaac Youngstrom	Post Doctoral
Tom Eiting	Post Doctoral

Shaina Short	Post Doctoral
Yusuke Tsuno	Post Doctoral
Andrew Moran	Graduate Student
Jackson Ball	Technicians
Gustavo Vasquez	Technician
Tom Rust	Technician
Jenifer Einstein	Technician
Mia Wipfel	Undergraduate
Michael Guo	Undergraduate

YAMAGUCHI,AYAKO *

Malorie Jahn	Undergraduate
Ryota Inagaki	Graduate Student

YOUNG,DARRIN J *

Chen, Xing	Post Doc
Guo, Qingbo	Graduate Student
Hashemizadehkolowri, Seyyedkazem	Graduate Student
Deng, William	Undergraduate Research Assistant
Yu, Yuechuan	Graduate Student
Luo, Weijie	Graduate Student

YUKSEL,CEM *

Nghia Truong	Graduate Student
Ian Mallett	Graduate Student
Kui Wu	Graduate Student
Eleni (Elena) Vasiou Sivvopoulou	Graduate Student
Tim grant	Graduate Student

ZANG,LING

Jacob Daniels	Graduate Student
Jaimee-Ann Zang	Faculty

Benjamin Bunes
Chen Wang
Na Wu
Miao Xu
Yaqiong Zhang

Post Doc
Graduate Student
Graduate Student
Post Doc
Graduate Student

Source: College of Engineering USTAR Report

* Faculty Individual Reporting and Office of Budget and Institutional Analysis

Annual Salary

\$	174,070.00
\$	132,821.00
\$	303,860.00
\$	126,417.00
\$	288,569.00
\$	30,250.00
\$	30,250.00
\$	35,482.00

\$	301,600.00
\$	52,000.00
\$	44,000.00
\$	42,840.00

\$	93,275.00
\$	92,700.00
\$	52,000.00
\$	98,800.00
\$	74,624.00
\$	76,000.00
\$	67,500.00

\$	52,000.00
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\$	78,000.00
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\$	45,000.00

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\$	54,902.00
\$	54,002.00

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\$	70,000.00
\$	54,000.00
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\$	141,400.00
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\$	61,628.00
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\$	113,097.00
\$	38,123.00
\$	59,000.00
\$	116,699.00
\$	46,288.00
\$	38,123.00
\$	50,000.00
\$	60,392.00
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\$	107,500.00



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\$ 55,800.00

\$ 31,800.00

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\$	43,500.00
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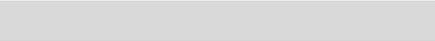
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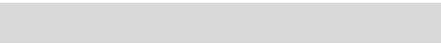
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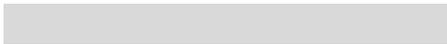


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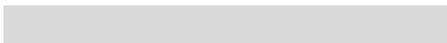
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\$	3,870.00



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\$	42,840.00
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\$	46,344.00
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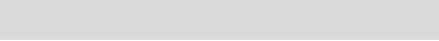
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\$	27,900.00
\$	24,412.50
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\$	65,000.00
\$	47,380.00
\$	47,380.00
\$	55,000.00
\$	46,000.00

	
\$	16,039,560.79

Source: USU Spreadsheets "Attachment 1.4a USTAR Funding FY16 July to Dec 2015" and "Attachment 1.4b USTAR Funding FY16 Jan to May 2016" and Attachment 1.4c USTAR Funding FY16 June 2016

USTAR Fiscal Year 2016 Summary

Start Date: 7/1/2015

End Date: 12/31/2015

Team	PI Name
Commercialization (Provost)	Cockett, Noelle
EPSCOR	Baker, Michelle
EPSCOR Match	Baker, Michelle
NA	Takemoto, Jon
NA	Takemoto, Jon
Provost Office	Cockett, Noelle
Synthetic Bio Manufacturing Institute	Agblevor, Foster
Synthetic Bio Manufacturing Institute	Agblevor, Foster
Synthetic Bio Manufacturing Institute	Agblevor, Foster
Synthetic Bio Manufacturing Institute	Cockett, Noelle
Synthetic Bio Manufacturing Institute	Lewis, Randy
Synthetic Bio Manufacturing Institute	Lewis, Randy
Synthetic Bio Manufacturing Institute	Lewis, Randy
USTAR Mini-Grants	Jones, Scott
USTAR Mini-Grants	Liu, Tianbiao
USTAR Mini-Grants	Sims, Ronald

Utah Advanced Transportation Institute	Zane, Regan
Utah Advanced Transportation Institute	Zane, Regan
Veterinary Diagnostics & Infectious Disease	Chen, Liaohai
Veterinary Diagnostics & Infectious Disease	Lee, Young-Min
Veterinary Diagnostics & Infectious Disease	Polejaeva, Irina
Veterinary Diagnostics & Infectious Disease	Wang, Zhongde
Veterinary Diagnostics & Infectious Disease	Wang, Zhongde
TOTALS	

USTAR Fiscal Year 2016 Summary

Start Date: 6/1/2016

End Date: 6/30/2016

Team

PI Name

Veterinary Diagnostics & Infectious Disease	Chen, Liaohai
Veterinary Diagnostics & Infectious Disease	Lee, Young-Min
Veterinary Diagnostics & Infectious Disease	Polejaeva, Irina
Veterinary Diagnostics & Infectious Disease	Wang, Zhongde
Veterinary Diagnostics & Infectious Disease	Wang, Zhongde
TOTALS	

USTAR Fiscal Year 2016 Summary

Start Date: 1/1/2016

End Date: 5/31/2016

Team	PI Name
Commercialization	Cockett, Noelle
Commercialization (Provost)	Cockett, Noelle
EPSCOR	Baker, Michelle
EPSCOR Match	Baker, Michelle
NA	Takemoto, Jon
NA	Takemoto, Jon
Provost Office	Cockett, Noelle
Synthetic Bio Manufacturing Institute	Agblevor, Foster
Synthetic Bio Manufacturing Institute	Agblevor, Foster
Synthetic Bio Manufacturing Institute	Cockett, Noelle
Synthetic Bio Manufacturing Institute	Lewis, Randy

Synthetic Bio Manufacturing Institute	Lewis, Randy
Synthetic Bio Manufacturing Institute	Lewis, Randy
USTAR Mini-Grants	Berreau, Lisa
USTAR Mini-Grants	Chang, Cheng Wei
USTAR Mini-Grants	Jones, Scott
USTAR Mini-Grants	Lee, Young-Min
USTAR Mini-Grants	Liu, Tianbiao
USTAR Mini-Grants	Sims, Ronald
USTAR Mini-Grants	Whitesides, Michael
Utah Advanced Transportation Institute	Zane, Regan
Utah Advanced Transportation Institute	Zane, Regan
Utah Advanced Transportation Institute	Zane, Regan
Utah Advanced Transportation Institute	Zane, Regan
Utah Advanced Transportation Institute	Zane, Regan
Utah Advanced Transportation Institute	Zane, Regan
Veterinary Diagnostics & Infectious Disease	Chen, Liaohai
Veterinary Diagnostics & Infectious Disease	Lee, Young-Min
Veterinary Diagnostics & Infectious Disease	Polejaeva, Irina
Veterinary Diagnostics & Infectious Disease	Wang, Zhongde
Veterinary Diagnostics & Infectious Disease	Wang, Zhongde
TOTALS	

Grant Title	Index	PI Salary	PI Benefits
USU USTAR Commercialization Support (Provost)	A34651	0	0
iUTAH CNR	A34648	0	0
iUTAH Biology	A34649	14,630.45	6,450.40
Novel Therapeutics	A34647	0	0
Novel Therapeutics - Match	A35659	0	0
USU USTAR Operations	A34652	0	0
Approved USTAR Project	A34641	54,423.22	24,007.50
Approved USTAR Project - Effort	A34828	7,406.38	3,265.40
Approved USTAR Project - Match	A34829	3,882.51	1,711.75
USU High Bay Facility	A35784	0	0
Approved USTAR Project	A34643	89,246.52	39,360.43
Approved USTAR Project - Match	A35658	4,749.96	2,094.20
Spider Silk	A34644	0	0
A Novel Multifunctional Energy and Mass Transport Sensor for Environmental Monitoring	A35812	0	0
Low Cost and Benign Aqueous Redox Flow Batteries (ARFBs) for Electrochemical Energy Storage (A35814	0	0
Bioreactor Application to Utah Industry for Existing Commercial Need for Petroleum Refining	A35816	0	0

Approved USTAR Project	A34645	59,433.68	26,214.62
Center for Sustainable Electrified Transportation (SELECT) Systems - Regan Zane	A34646	341.86	150.72
Approved USTAR Project	A3464C	78,065.49	34,426.73
Approved USTAR Project	A34637	63,898.50	28,180.74
Approved USTAR Project	A3463E	51,664.02	22,785.05
Approved USTAR Project	A34638	51,127.98	22,548.64
Genetically Engineered Golden Syrian Hamster Models for Human Disease	A34639	0	0
		478,870.57	211,196.18

Grant Title

Index

PI Salary

PI Benefits

USU USTAR Commercialization Personnel	A3465C	0.00	0.00
USU USTAR Commercialization Support (Provost)	A34651	0.00	0.00
iUTAH CNR	A34648	0.00	0.00
iUTAH Biology	A34649	2,438.53	965.05
Novel Therapeutics	A34647	0.00	0.00
USU USTAR Operations	A34652	0.00	0.00
Approved USTAR Project	A34641	13,855.38	5,483.19
Approved USTAR Project - Effort	A37254	429.45	170.03
Approved USTAR Project - Match	A34829	595.74	235.76
Production of Adhesives from Pinyon Juniper Catalytic Pyrolysis Oils	A34642	0.00	0.00
USU High Bay Facility	A35784	0.00	0.00
Approved USTAR Project	A34643	(6,003.12)	(2,375.79)
Approved USTAR Project - Effort	A37102	100.00	39.68
Approved USTAR Project - Effort	A37103	1,000.00	395.55
Approved USTAR Project - Effort	A37104	500.00	197.78
Approved USTAR Project - Effort	A37105	500.00	197.78
Approved USTAR Project - Match	A35173	0.00	0.00
Approved USTAR Project - Match	A35658	19,569.20	7,744.86
Spider Silk	A34644	0.00	0.00
A Solid In Situ CO Source for Palladium-catalyzed Carbonylation Reactions	A3581C	0.00	0.00
Treatment of Iron Chlorosis and Natural Nutrition for Plants	A35811	0.00	0.00
A Novel Multifunctional Energy and Mass Transport Sensor for Environmental Monitoring	A35812	0.00	0.00
Genetic and Phenotypic Characterization of Manufacturing Seeds for Japanese Encephalitis Virus	A35813	0.00	0.00
The Study of Zika Virus and Its Vaccine Candidates	A36815	0.00	0.00
Low Cost and Benign Aqueous Redox Flow Batteries (ARFBs) for Electrochemical Energy Storage (I	A35814	0.00	0.00
Bioreactor Application to Utah Industry for Existing Commercial Need for Petroleum Refining	A35816	0.00	0.00
Multi-state Learning Management System for Pesticide Training	A35815	0.00	0.00
Approved USTAR Project	A34645	13,448.57	5,322.27
Center for Sustainable Electrified Transportation (SELECT) Systems - Jason Quinn	A35654	0.00	0.00
Center for Sustainable Electrified Transportation (SELECT) Systems - Marv Halling/Paul Barr	A35653	0.00	0.00
Center for Sustainable Electrified Transportation (SELECT) Systems - Regan Zane	A34646	0.00	0.00
Center for Sustainable Electrified Transportation (SELECT) Systems - Ryan Gerdes	A35652	0.00	0.00
Center for Sustainable Electrified Transportation (SELECT) Systems - Zeljko Pantic	A35651	0.00	0.00

Approved USTAR Project	A3464C	0.00	0.00
Approved USTAR Project	A34637	10,649.75	4,214.64
Approved USTAR Project	A3463E	8,610.67	3,407.67
Approved USTAR Project	A34638	8,521.33	3,372.32
Genetically Engineered Golden Syrian Hamster Models for Human Disease	A34639	0.00	0.00
		74,215.50	29,370.79

Grant Title	Index	PI Salary	PI Benefits
USU USTAR Commercialization Personnel	A3465C	0	0
USU USTAR Commercialization Support (Provost)	A34651	0	0
iUTAH CNR	A34648	0	0
iUTAH Biology	A34649	12,192.65	4,935.32
Novel Therapeutics	A34647	0	0
Novel Therapeutics - Match	A35659	0	0
USU USTAR Operations	A34652	0	0
Approved USTAR Project	A34641	69,266.24	28,032.83
Approved USTAR Project - Match	A34829	2,917.32	1,180.49
USU High Bay Facility	A35784	0	0
Approved USTAR Project	A34643	78,330.40	31,706.42

Spider Silk	A34644	0	0
Approved USTAR Project	A35173	0	0
A Solid In Situ CO Source for Palladium-catalyzed Carbonylation Reactions	A35810	0	0
Treatment of Iron Chlorosis and Natural Nutrition for Plants	A35811	0	0
A Novel Multifunctional Energy and Mass Transport Sensor for Environmental Monitoring	A35812	0	0
Genetic and Phenotypic Characterization of Manufacturing Seeds for Japanese Encephalitis Virus	A35813	0	0
Low Cost and Benign Aqueous Redox Flow Batteries (ARFBs) for Electrochemical Energy Storage (A35814	0	0
Bioreactor Application to Utah Industry for Existing Commercial Need for Petroleum Refining	A35816	0	0
Multi-state Learning Management System for Pesticide Training	A35815	0	0
Approved USTAR Project	A34645	62,376.54	25,645.76
Center for Sustainable Electrified Transportation (SELECT) Systems - Jason Quinn	A35654	0	0
Center for Sustainable Electrified Transportation (SELECT) Systems - Marv Halling/Paul Barr	A35653	0	0
Center for Sustainable Electrified Transportation (SELECT) Systems - Regan Zane	A34646	22,963.50	9,275.74
Center for Sustainable Electrified Transportation (SELECT) Systems - Ryan Gerdes	A35652	0	0
Center for Sustainable Electrified Transportation (SELECT) Systems - Zeljko Pantic	A35651	0	0
Approved USTAR Project	A34640	0	0
Approved USTAR Project	A34637	53,248.75	21,553.93
Approved USTAR Project	A34636	43,053.35	17,427.04
Approved USTAR Project	A34638	42,606.65	17,246.25
Genetically Engineered Golden Syrian Hamster Models for Human Disease	A34639	0	0
		386,955.40	157,003.78

Non-PI Salary	Non-PI Benefits	Wages	Wages Benefits	Capital Equipment	Operating	Travel	Total
0	0	1,886.38	18.74	0	0	0	1,905.12
7,877.76	3,473.23	0	0	0	0	1,363.36	12,714.35
0	0	0	0	0	0	0	21,080.85
0	0	20,956.85	1,092.61	20,000.00	10,830.75	0	52,880.21
0	0	4,769.74	175.51	0	0	0	4,945.25
11,585.97	5,109.06	0	0	0	4,380.00	0	21,075.03
0	0	28,880.08	2,028.35	0	1,683.46	0	111,022.61
0	0	0	0	0	0	0	10,671.78
0	0	0	0	0	0	0	5,594.26
0	0	0	0	0	89,049.97	0	89,049.97
0	0	24,668.00	2,131.64	0	83,461.24	0	238,867.83
0	0	0	0	0	0	0	6,844.16
101,343.98	44,691.24	50,235.55	1,407.51	0	141,218.78	102.60	338,999.66
0	0	8,432.16	618.78	0	6,704.00	0	15,754.94
0	0	0	0	0	7,225.60	0	7,225.60
0	0	4,166.00	346.89	0	361.23	0	4,874.12

4,358.40	1,927.02	23,256.30	1,485.01	0	1,836.80	2,612.41	121,124.24
30,106.56	13,273.82	43,978.75	1,517.82	13,700.00	36,797.34	3,009.82	142,876.69
0	0	61,995.49	9,532.10	0	33,234.40	2,864.98	220,119.19
33,869.42	14,936.73	12,400.00	854.44	0	24,236.06	614.72	178,990.61
33,303.08	14,687.54	8,450.52	349.87	0	15,232.07	2,205.23	148,677.38
0	0	0	0	0	877.26	298.88	74,852.76
31,096.56	13,710.15	681.66	0.84	0	14,329.06	441.70	60,259.97
253,541.73	111,808.79	294,757.48	21,560.11	33,700.00	547,244.09	13,513.70	1,890,406.58

Non-PI Salary	Non-PI Benefits	Wages	Wages Benefits	Capital Equipment	Operating	Travel	Total
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14,984.45	5,930.10	0.00	0.00	0.00	30,309.02	0.00	51,223.57
25,451.00	10,072.31	0.00	0.00	0.00	0.00	0.00	35,523.31
570.85	225.91	0.00	0.00	0.00	0.00	0.00	796.76
0.00	0.00	0.00	0.00	0.00	0.00	0.00	3,403.58
0.00	0.00	0.00	0.00	0.00	954.95	0.00	954.95
2,083.86	824.69	0.00	0.00	0.00	96.16	0.00	3,004.71
0.00	0.00	3,500.00	21.42	5,732.21	4,956.19	0.00	33,548.39
0.00	0.00	0.00	0.00	0.00	0.00	0.00	599.48
0.00	0.00	0.00	0.00	0.00	0.00	0.00	831.50
0.00	0.00	824.00	65.17	0.00	0.00	0.00	889.17
0.00	0.00	0.00	0.00	0.00	10,730.26	0.00	10,730.26
1,438.44	569.26	4,720.00	96.02	0.00	401.95	0.00	(1,153.24)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	139.68
0.00	0.00	0.00	0.00	0.00	0.00	0.00	1,395.55
0.00	0.00	0.00	0.00	0.00	0.00	0.00	697.78
0.00	0.00	0.00	0.00	0.00	0.00	0.00	697.78
4,350.00	1,721.52	(5,925.16)	(263.20)	0.00	2,151.11	0.00	2,034.27
0.00	0.00	0.00	0.00	0.00	0.00	0.00	27,314.06
12,080.45	4,780.84	29,737.20	1,741.75	0.00	29,744.13	225.42	78,309.79
0.00	0.00	4,357.50	1,296.64	0.00	7,055.24	0.00	12,709.38
0.00	0.00	6,009.74	213.84	0.00	2,352.25	0.00	8,575.83
0.00	0.00	9,448.41	475.21	0.00	1,254.19	0.00	11,177.81
0.00	0.00	30,576.00	2,418.30	0.00	115.40	0.00	33,109.70
9,270.47	3,668.79	0.00	0.00	0.00	8,884.28	0.00	21,823.54
0.00	0.00	10,208.08	281.39	0.00	4,517.82	0.00	15,007.29
0.00	0.00	6,655.98	402.38	0.00	7,077.42	0.00	14,135.78
3,666.75	1,451.12	1,834.75	13.77	0.00	872.00	0.00	7,838.39
0.00	0.00	3,846.99	217.58	0.00	1,545.18	6,246.97	30,627.56
0.00	0.00	1,509.20	9.24	0.00	8,149.00	0.00	9,667.44
3,003.29	1,188.55	981.00	77.58	0.00	3,280.13	0.00	8,530.55
8,488.99	3,359.52	5,726.16	219.39	0.00	57,424.00	2,472.78	77,690.84
985.55	390.03	9,219.00	729.12	0.00	753.94	3,587.23	15,664.87
7,824.49	3,056.98	15,089.13	928.83	8,074.28	10,879.28	1,903.02	47,756.01

0.00	0.00	7,333.34	1,531.98	0.00	4,156.23	652.40	13,673.95
(2,427.72)	(960.76)	(25,048.00)	(1,981.08)	0.00	2,696.44	0.00	(12,856.73)
3,677.78	1,676.68	666.67	4.08	0.00	2,410.99	0.00	20,454.54
0.00	0.00	0.00	0.00	0.00	880.00	0.00	12,773.65
5,051.85	1,999.26	50.00	3.95	0.00	957.03	0.00	8,062.09
100,500.50	39,954.80	121,319.99	8,503.36	13,806.49	204,604.59	15,087.82	600,555.07

Non-PI Salary	Non-PI Benefits	Wages	Wages Benefits	Capital Equipment	Operating	Travel	Total
71,981.45	28,485.79	0	0	0	47,597.85	0	148,065.09
1,125.00	445.23	4,265.00	21.04	0	0	0	5,856.27
2,854.25	1,155.32	0	0	0	17,397.75	0	21,407.32
0	0	0	0	0	0	0	17,127.97
0	0	7,440.00	158.90	41,425.00	4,963.51	0	53,987.41
0	0	46.55	4.81	0	0	0	51.36
10,419.29	4,217.51	0	0	0	3,094.04	0	17,730.84
0	0	17,500.00	1,446.09	16,810.00	3,122.49	1,201.94	137,379.59
0	0	0	0	0	0	0	4,097.81
0	0	0	0	0	117,619.02	0	117,619.02
0	0	34,720.00	2,691.48	0	-93,767.19	0	53,681.11

56,121.65	23,081.70	114,044.36	3,718.14	36,438.78	59,571.34	1,567.34	294,543.31
17,400.00	6,886.08	5,925.16	263.20	0	13,450.47	0	43,924.91
0	0	11,134.81	1,360.50	0	4,367.83	0	16,863.14
0	0	22,075.77	1,684.48	0	16,829.88	0	40,590.13
0	0	50,723.80	2,719.56	0	8,208.70	0	61,652.06
0	0	2,500.00	197.73	0	30,211.85	0	32,909.58
0	0	28,161.72	2,272.20	6,948.75	44,322.98	0	81,705.65
0	0	29,487.97	1,754.37	0	15,001.13	0	46,243.47
18,333.75	7,421.10	2,169.85	37.37	0	541.25	0	28,503.32
-4,358.40	-1,921.57	25,964.21	2,427.15	0	9,963.12	2,017.42	122,114.23
19,690.00	7,791.73	21,238.84	130.02	0	4,106.84	0	52,957.43
9,009.87	3,565.65	3,560.50	69.42	0	5,122.89	0	21,328.33
-14,486.23	-5,329.24	-5,000.42	-162.90	6,774.41	36,734.28	4,299.00	55,068.14
8,869.95	3,510.27	34,161.77	1,696.41	0	7,957.98	0	56,196.38
39,064.78	15,582.83	41,198.73	2,882.25	0	13,835.64	0	112,564.23
0	0	35,815.02	7,577.43	0	11,326.69	1,508.15	56,227.29
25,288.75	10,236.31	34,400.00	2,696.57	0	9,245.86	0	156,670.17
28,789.26	12,182.25	3,886.85	398.75	0	12,903.41	138.71	118,779.62
0	0	0	0	0	1,808.84	50.00	61,711.74
32,870.85	13,305.40	730.00	7.73	44,736.80	11,756.43	0	103,407.21
322,974.22	130,616.36	526,150.49	36,052.70	153,133.74	417,294.88	10,782.56	2,140,964.13

University of Utah
FY 2016
f. USTAR Funded Expenses

USTAR Faculty / Clusters / Cores	Total Invoiced FY16	Total Expenses (upon GA approval)	Salary and benefits USTAR Faculty and Staff
SAOUMA,CAROLINE T	182,203.00	236,879.97	159,989.89
MINTEER,SHELLEY D	204,290.09	204,290.09	197,336.49
DORVAL II,ALAN DALE	111,033.25	111,033.25	110,814.74
GHANDEHARI,HAMIDREZA S	194,880.70	194,880.70	194,880.70
WHITE,JOHN A	51,461.34	11,237.16	11,305.24
KORENBERG,JULIE R	532,529.63	219,807.88	219,807.88
YURGELUN-TODD,DEBORAH ANN	96,105.61	96,105.61	96,105.61
RENSHAW,PERRY FRANKLIN	162,500.00	162,500.00	162,500.00
DIAGNOSTIC IMAGING CLUSTER SUPPORT	325,761.60	325,761.60	315,822.76
YUKSEL,CEM	272,297.28	272,297.28	169,746.30
CALDWELL,CRAIG BERNREUTER	7,769.74	7,769.74	0.00
MCPHERSON,BRIAN JAMES	191,920.86	191,920.86	191,920.86
MCLENNAN,JOHN DAVID	140,178.03	140,178.03	140,178.03
MISRA,MANORANJAN	295,052.52	295,052.52	294,129.41
CHOU,HUNG-CHIEH	150,920.00	153,567.72	124,282.82
SIGALA,PAUL ANDREW	211,312.28	211,312.28	37,504.55

Synthetic Chemistry Core	285,616.00	285,616.00	264,959.48
MARTH,GABOR T	232,160.00	240,403.03	208,128.23
Center for Genetic Discovery	208,800.00	211,290.30	174,031.27
QUINLAN,AARON	200,107.88	200,107.88	147,505.72
FRANZINI,RAPHAEL	201,890.43	201,890.43	79,776.34
Computational Drug Discovery Core	33,333.82	33,333.82	33,333.82
Pre-Clinical Models Core	99,913.81	99,913.81	55,633.42
HSC RECRUITING	33,664.09	33,664.09	-
MEYER,MIRIAH DAWN	4,733.65	4,733.65	-
ALTER,ORLY	87,174.37	87,174.37	87,174.37
TASDIZEN,TOLGA	240,168.14	240,168.14	215,715.52
FLETCHER,PRESTON THOMAS	154,282.57	154,282.57	145,951.42
IMAGING CLUSTER SUPPORT	62,340.91	62,340.91	62,340.91
KIM,HANSEUP	121,967.36	121,967.36	113,310.62
MENON,RAJESH	158,806.47	158,806.47	119,649.17
YAMAGUCHI, AYAKO	36,351.94	36,351.94	35,592.94
WACHOWIAK,DALE MATTHEW	162,651.09	162,651.09	158,101.04
JI,HAITAO	152,080.02	139,492.67	139,492.67
SAFFARIAN,SAVEEZ	161,468.22	154,063.90	113,243.62
PORTER,MARC D	225,619.98	211,100.28	211,100.28
MASTRANGELO,CARLOS H	290,600.06	290,600.06	225,111.96
YOUNG,DARRIN J	271,643.47	271,643.47	219,037.26
LAZZI,GIANLUCA	140,299.19	140,299.19	133,613.07
TABIB-AZAR,MASSOOD	350,276.79	350,276.79	180,739.79
TECH SUMMITS	0.00	0.00	-
NANOFAB STUDENTS	7,653.76	7,653.76	-

NANOFAB SUPPORT	91,755.97	91,755.97	-
USTAR ADMINISTRATION/Programmatic	175,530.19	175,530.19	156,418.65
MRSEC	402,650.00	402,650.00	-
LEAN CANVAS	89,536.45	89,536.45	13,349.51
POSTDOC ENTREPRENEUR	100,157.26	100,157.26	100,157.26
Nanosynth	345,000.00	345,000.00	-
SmartPack	0.00	0.00	-
USTAR COMMERCIALIZATION/Consulting	9,555.09	9,555.09	-
Applied BioSensors	0.00	0.00	-
Solefire	87,000.00	87,000.00	-
CSTEC	99,749.08	99,749.08	72,335.28
Management Fee 5% O&M Building	102,396.29	102,396.29	
F/A 10% (All - EQT OVER \$5,000)	801,849.23	801,849.23	
TOTAL Funds	9,358,999.51	9,039,600.23	5,892,128.90

* Expenditures over the FY16 budget requested for approval at next GA

Operational expenses	Capital Equipment	Travel
53,133.12	16,613.45	7,143.51
6,557.60		396.00
218.51	-	0
0.00		0
(68.08)		0
0.00		0
0.00		0
		0
9,938.84		0
101,180.50		1,370.48
2,332.58		5,437.16
0.00		0
0.00		0
923.11		0
149,188.67		4,379.05
10,690.19	160,756.88	2,360.66

285,616.00		0
24,224.70		8,050.10
37,259.03		0
41,060.19		11,541.97
56,274.00	57,794.17	8,045.92
0.00		0
44,280.39		0
12,007.41		21,656.68
2,839.97		1,893.68
0.00		0
11,432.02		5,505.65
7,651.95		679.20
0.00		0
6,370.35		2,286.39
23,850.46		15,306.84
759.00		
(8486.00)	13,036.05	
0.00		0
31,544.34		9,275.94
0.00		0
53,800.46		11,687.64
33,784.57	4,883.74	13,937.90
671.44		6,014.68
18,294.35	146,796.84	4,445.81
0.00		0
7,653.76		0

91,755.97		0
18,767.42		344.12
123,753.32	278,896.68	0
64,232.19		11,954.75
0.00		0
345,000.00		0
0.00		0
9,555.09		0
0.00		0
87,000.00		0
22,773.56		4,640.24
102,396.29		
801,849.23		
2,692,066.50	678,777.81	158,354.37

Source: USTAR/ State of Utah FinNet			
USTAR Principal Researcher Expenditures			
FY2016 Annual Report Source Data			
CATEGORY / PRINCIPAL RESEARCHER	START UP	SALARY & BENEFITS	PROGRAMMATIC
Energy			
Foster Agblevor	\$86,882	\$216,863	\$889
John McLennan	\$0	\$140,178	\$0
BrIan McPherson	\$0	\$191,921	\$0
Shelley Minter	\$6,954	\$197,336	\$0
Manoranjan Misra	\$923	\$294,129	\$0
Caroline Saouma	\$182,203	\$0	\$0
Regan Zane	\$81,598	\$192,934	\$599,826
Life Science			
Danny Chou	\$150,920	\$0	\$0
Chuck Dorval	\$9,114	\$101,919	\$0
Raphael Franzini	\$201,890	\$0	\$0
Hamid Ghandehari	\$0	\$194,881	\$0
Julie Korenberg	\$312,722	\$219,808	\$0
Young Min Lee	\$141,058	\$181,746	\$0
Randy Lewis	\$119,671	\$267,354	\$862,338
David Lum	\$99,914	\$0	\$0
Gabor Marth	\$232,160	\$0	\$0
Irina Polejaeva	\$140,964	\$146,948	\$0

Source: USU Spreadsheet "Attachment 1.5 NonUSTAR Salary and Benefits.FY16"

Foster Agblevor - nonUSTAR Salary and Benefits for FY16

Grant	Index	Salary	Benefits	Total
		26,378.30	10,551.32	36,929.62
		<u>26,378.30</u>	<u>10,551.32</u>	<u>36,929.62</u>

Randy Lewis - nonUSTAR Salary and Benefits for FY16

Grant	Index	Salary	Benefits	Total
130109	A31828	20,229.68	8,922.06	29,151.74
140480	A34157	5,999.08	2,646.12	8,645.20
160148	A35183	13,694.26	5,456.19	19,150.45
140713	A35555	5,103.42	2,250.04	7,353.46
200113	A35808	17,637.92	7,179.25	24,817.17
		<u>62,664.36</u>	<u>26,453.66</u>	<u>89,118.02</u>

Irina Polejaeva - nonUSTAR Salary and Benefits for FY16

Grant	Index	Salary	Benefits	Total
	A29040	4,133.00	1,822.20	5,955.20
		<u>4,133.00</u>	<u>1,822.20</u>	<u>5,955.20</u>

Zhonda Wang - nonUSTAR Salary and Benefits for FY16

Grant	Index	Salary	Benefits	Total
	A35930	982.00	388.64	1,370.64
	A36152	2,272.36	899.29	3,171.65
		<u>3,254.36</u>	<u>1,287.93</u>	<u>4,542.29</u>

Regan Zane - nonUSTAR Salary and Benefits for FY16

Grant	Index	Salary	Benefits	Total
		39,023.58	15,609.44	54,633.02
		<u>39,023.58</u>	<u>15,609.44</u>	<u>54,633.02</u>

FY 2016

g. Compensation of USTAR Faculty and Researchers

Publicly funded sources if any (other than USTAR)		
USTAR Faculty and Researcher	State Funds	Federal Grants
ALTER,ORLY	74,874.65	51,631.77
(blank)		
CALDWELL,CRAIG BERNREUTER	176,367.56	
CHOU,HUNG-CHIEH		43,670.54
DORVAL II,ALAN DALE	35,109.79	32,841.01
FLETCHER,PRESTON THOMAS		44,788.85
FRANZINI,RAPHAEL	22,547.65	
GHANDEHARI,HAMIDREZA S		14,157.90
JI,HAITAO		
KIM,HANSEUP	5,340.46	68,946.41
KONDO,DOUGLAS GAVIN **		59,306.82
KORENBERG,JULIE R		57,933.06
LAZZI,GIANLUCA	163,950.42	19,881.32
LOOPER,RYAN E *	143,354.15	6,228.68
LOPEZ-LARSON,MELISSA **		45,348.40
LUM,DAVID H *		47,182.26
Marth,Gabor T		120,922.96
MASTRANGELO,CARLOS H		67,837.23
MCLENNAN,JOHN DAVID	12,165.24	12,941.94
MCPHERSON,BRIAN JAMES	22,076.84	38,594.90
MENON,RAJESH	5,229.79	83,253.25
MEYER,MIRIAH DAWN	135,976.11	47,007.26
MINTEER,SHELLEY D	641.29	64,175.49
MISRA,MANORANJAN	1.02	98,398.34

TABIB-AZAR,MASSOOD		120,492.97
YOUNG,DARRIN J		15,412.87
ZANG,LING	149,252.09	26,699.69
YAMAGUCHI,AYAKO	128,204.08	6,787.22
SAOUMA,CAROLINE T	23,232.54	
PORTER,MARC D		73,023.46
TASDIZEN,TOLGA		38,099.41
SAFFARIAN,SAVEEZ	129,941.25	43,368.81
WACHOWIAK,DALE MATTHEW	4,903.32	108,746.79
SIGALA,PAUL ANDREW		32,682.72
VANKAYALAPATI,HARIPRASAD *		89,022.23
PRESCOT,ANDREW PAUL **		51,081.95
Quinlan,Aaron		86,657.63
RENSHAW,PERRY FRANKLIN		118,103.01
YANDELL,MARK *	49,615.56	155,253.24
YURGELUN-TODD,DEBORAH ANN		73,547.69
YUKSEL,CEM		13,590.27
Total	1,282,783.81	2,077,618.35

* Cluster Directors

** Diagnostic Imaging Faculty

Source: University of Utah Office of Budget & Institutional Analysis (OBIA)

Utah State University
FY 2016
a. Collaborations

USTAR Faculty & Researchers	Collaborators / Institutions
LEWIS, RANDY	Hollan, Gregory Jones, Justin Teule, Florence Varger, Jeffrey Utah State University Utah State University Utah State University Utah State University
ZANE, REGAN	Barr, P Bohm, Ryan Ezvelman, M Maksimovic, D Pantic, Zeljko Rehman, M Thummala, Prasanth Utah State University Utah State University Utah State University Utah State University Utah State University Utah State University Utah State University
WANG, ZHONGDE	David Safronet Raviprakash Kanakatte Yaohe Wang Bradford K. Berges Kenneth Thornburg Lee Rickords Allen Young Tom Bunch Esmail Zanjani Eddie Hamilton Justin Julander Randy Lewis Irina Polejaeva Hong Wei Irina Polejaeva Romana Nowak Ken White Eddie Sullivan Brian Gowen Howard Urnovitz Rockville, MD 20852 (301-496-2644 Navy Medical Research Center Zhengzhou University Brigham Young University Knight Cardiovascular Institute, Oregon Health and Science University Heart Research Center Utah State University Utah State University Utah State University University of Nevada BioDak Utah State University Utah State University Utah State University TransOva genetics and Chronix Biomedical Utah State University University of Illinois at Urbana Utah State University BioDak Utah State University TransOva genetics and Chronix Biomedical
POLEJAEVA, IRINA	Bunch, T Davies, Chris Marrouche, Nassir Olsen, Aaron Panter, Kip Ranjan, Ravi Rutigliano, Heloisa Stott, Rusty Van Wetter, Arnaud White, Ken Zhongde, Wang Utah State University Utah State University University of Utah Utah State University USDA/ARS University of Utah Utah State University Utah State University Utah State University Utah State University Utah State University
LEE, YOUNG-MIN	Sheng-Bo Cao Liaohai (Leo) Chen Kyung (Kay) H. Choi Douglas LaCount Jong-Su Eun Charles M. Rice John D. Morrey Chan-Hee Lee Sung-June Byun Kyung-Min Chung Kul Li Soon-Young Paik Shien-Young Kang Huazhong Agricultural University Utah State University University of Texas Medical Branch Purdue University Utah State University Utah State University Rockefeller University Utah State University Chungbuk National University National Institute of Animal Science Chonbuk National University University of Tennessee Health Science Center The Catholic University of Korea Chungbuk National University
AGBLEVOR, FOSTER	Kamel Halouani Waleed El Zawawy Francine Battaglia Mohammed El-Shall Tze-Chi Jao Sfax University National Research Center, Virginia Tech Virginia Commonwealth University Afton Chemical Inc

University of Utah

FY 2016

a. Collaborations

Researchers

Collaborators / Institutions

ALTER,ORLY *

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Randy L. Jensen - Department of Neurosurgery
Heidi A. Hanson - Utah Population Database
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Reha M. Toydemir - UofU Department of Pathology
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CALDWELL,CRAIG

none

**Center for Genetic
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Mark**

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Simon Fisher (Utah)
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Seung Kim (Stanford)
Michael Lawrence (Australia)
Carol Lim (Utah)
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Jared Rutter (Utah)
Helena Safavi (Utah)
Eric Schmidt (Utah)
Sunil Sharma (Utah)

**Computational Drug
Discovery Core - Hari
Vankavalanati ***

Ongoing CIT Projects:

Salarius Pharmaceuticals Sponsored/Collaborative project - an active and ongoing projects with Dr. Sharma Lab and 6 other academic lab (Drs. Lessnick, Michael Engle, Joshi, Kapil, Lessnick, Trudy, Josh Schiffman Lab, HCI, Andrea Bild Lab, and Dan Von Hoff/TGen etc.)

Collaborations both internally and externally - On going.

LSD1: 2nd generation – Non-Provisional application filed through Salarius Pharmaceuticals.

LSD1: 4th generation – Project lead optimization initiated - Salarius Pharmaceuticals - On going.

LSD1: 5th generation – HCI/Italy/Salarius Pharmaceuticals - On going.

Gli1: Salarius Pharmaceuticals.

ILK: Salarius Pharmaceuticals.

b-Catenin & TBL1: BetaCat Pharmaceutical Sponsored Project – Completed.

BTK: LSK Bioscience – Licensed/Sponsored program –On going.

Ras Inhibitors: Dr. Sunil & Andria Bild Collaborative project – On going.

STING, ENPP1: HCI/CIT/Dr. Sharma Lab - an active and ongoing project.

Amuvatinib/MP-470 – Dr. Young-Soon GIST project, Seoul, Korea - On going

Ongoing External Projects:

Design and Synthesis of RPN13 inhibitors. Collaborative Group PI: Chris Hill & Sunil

To improve the activities of the validated GalT inhibitors, in vitro and in cell-based assays. Collaborative Group PI: Kent Lai Group Associate Professor of Pediatrics, University of Utah and Co-PI Hari

Targeting ABCD1 for X-linked adrenoleukodystrophy (ALD) and its adult form, adrenomyeloneuropathy (AMN). Collaborative Group PI: Josh Bonkowsky, MD, PhD Program Director, Pediatric Neurology Residency Director and Co-PI Hari – R21/33 Not Funded and resubmitting for Q4 2016 -

G6PD - Computational Study on the G6PD V68M, N126D, N135T, S188F Mutations and the effect of binding of NADP+ and G6P Substrates - Collaborative Group PI: Scott, N Reading, PhD & Mahmoud Sirdah, PhD., Arup Laboratories

Targeting RAGE for Small Molecule Inhibitors. Collaborative Group PI: Dr. John Hoidal and Dr. Sunil

NR4A1 – Hit 2 Leads – Bryan Welm Laboratory

RON Kinase - Hit 2 Leads – Alana Welm Laboratory – To be discussed

In search for novel inhibitors of Sulfotransferases. Collaborative Group PI: Dr. Kuby Balagurunathan, School of Pharmacy, U of U and Co-PI Hari

Novel series of aryl substituted sulfonamide series of inhibitors of Nrf2 and Keap1 protein-protein interactions. Collaborative Group PI: Raj Soorappan, former U of U Cardiovascular division and now at U of Alabama & Co-PI Hari – No communication from this PI, on hold and Completed

DIAGNOSTIC IMAGING

CLUSTER * : Renshaw,

Principal Collaboration Partners within the University of Utah:

Department of Athletics (PAC-12 Grant)

Utah Center for Advanced Imaging Research (UCAIR)

Assessment and Referral Services

Utah Addiction Center

Pharmacology and Toxicology

Small Animal Imaging Core

Center for Human Toxicology

Center for High Performance Computing

University Neuropsychiatric Institute

Veteran Health Administration, Veteran Integrated Service Network 19, Mental Illness Research Education and Clinical Center (VHA VISN 19 MIRECC)

Principal Collaboration Partners outside the University of Utah:

Medical University of South Carolina (MUSC), Boston Children's Hospital, University of Colorado, University of New Mexico, University of Cambridge, University of Sydney
Stanford University, University of Texas Southwestern
Kyowa Hakko Kirin
Lifetree Contract Research Organization (CRO), now PRA Health Sciences (PRA)
Ridge Diagnostics, Inc.
NuSkin-NSE Products, Inc.
Otsuka America Pharmaceutical, Inc.
Takeda Development Center Americas, Inc.
Catalyst Pharmaceutical
Technical University of Warsaw
European Union Human Brain Frontiers Project
University of Hawaii (Adolescent Brain Cognitive Development, Magnetic Resonance Spectroscopy (ABCD MRS)
Ewha Women's University (Longitudinal Neuroimaging)
Chung Ahn University (Internet Gaming Addiction)
McLean Hospital, Harvard Medical School (Veteran Affairs and Department of Defense)
Medical University of South Carolina (2D JR MRS)

DORVAL II,ALAN DALE

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Darrin J Young
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DN Anderson

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MJ Cardoso
BM Fleishman
M Lorenzi
PM Thompson
N Lange
BG Travers
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AL Froehlich
JA Nielsen
AN Cariello
BA Zielinski
JS Anderson
AA Alexander
JE Lainhart
PM Tromp
N Adluru
D Destiche
C Ennis

FRANZINI,RAPHAEL * none to report

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CO Yun
SH Kim
IC Kwon
H Herd
J Gustafson
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MARTH,GABOR T *

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Lynn Jorde, PhD, Professor and Chair of Human Genetics

Andrea Bild, PhD, Associate Professor of Pharmacology and Toxicology

Michael Deininger, MD/PhD, Professor of Internal Medicine

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Robert Knudsen
Alan Dorval

MCLENNAN,JOHN DAVID * Brian McPherson - Civil Engineering
Carey Smith - Sound Geothermal
Dave Swenson et al. - Reaction Engineering Incorporated
David Burnett - Texas A&M/GPRI
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Joseph Moore - EGI
Lauren Birgenheier - Geology and Geophysics
Mano Misra and York Smith - Metallurgy
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Mikhail Skliar - Chemical Engineering
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B&W Tek, Inc. (Newark, DE)
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University of Colorado – Boulder
USANA (Salt Lake City, UT)
BARD Access Systems (Salt Lake City, UT)
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SAFFARIAN,SAVEEZ Wes Sundquist

SAOUMA,CAROLINE T * None to report

SIGALA,PAUL ANDREW * None to report

Synthetic Chemistry Core, UofU

Randall Olson / D. Krizaj - Moran Eye

Perry Renshaw - Neuroscience

Anandh Velayutham - Nutrition

Vicente Planelles - Pathology

Vahe Bandarian - Chemistry

Elizabeth Hartnett - Moran Eye

Sankar Swaminathan - Health Science

Anandh Velayutham - Nutrition

Ka Chon Lei/Dean Li - Genetics

Jessie Rowley - Pulmonary Med.

Danny Chou - Biochemistry

Jeff Horn - Anesthesiology
Rober Fujinami - Pathology
Chris Hill - Biochemistry
UofU Spin offs
Ryan Davies - Curza
Joe Passman - Viderebox
Chris Hopkins - Axumbio
Kirill Ostentan - Navigen
Mark Parnell - Vettore
Kirill Ostentan/ Dean Li - Navigen
Joe Passman - Viderebox
Oustide UofU
Kyle lane - KP bioscience
Brendan Walker - DrinkSavvy
Amir Pesyan - Aurimmed
Christopher Hendrickson - AquaYield
Katherine Leibman - DesignMedix

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Bryan Jones
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Mark Ellisman, UCSD

WACHOWIAK,DALE MATT

NSF Multi-investigator award, NSF IDEAS Lab project title, " Collaborative Research: Analysis of the Mammalian Olfactory Code". Co-Investigators are: Hiro Matsunami, Duke University; Sri Kotsuri, UCLA; Lisa Stowers, Scripps Institute; Marcelo Maganasco, Rockefeller University; Vladimir Itskov, Penn State

co-PI with Michael Shipley, Department of Anatomy and Neurobiology, University of Maryland School of Medicine, R01 award. Project title, "Modulation of Glomerular Function".

co-Investigator with Massood Tabib-Azar (U of U, USTAR) and Adam Douglass (U of U, Neurobiology and Anatomy), NSF BRAIN EAGER award and U of U Seed Grant. Project title, "Electrogenetic reporters of neural activity"

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Zhen Wang
Zhengping Liu

**Source: College of
Faculty individual**

SOURCE: USU spreadsheet "Attachement I.1 NonUSUTAR Funding.FY16 Revised

ALL FUNDING IN FY2016

Award Number	Funding Sponsor/PTE	Prime Sponsor	Department/ Unit	Principal Investigator	Co-Investigator(s)	Award Action Type	Original Award Date
130107-00001	U.S. Department		Electrical & C	Regan Zane		Allotment (In	2013-01-01
130109-00001	U.S. Dept. of Def.		Biology	Randy Lewis		Allotment (In	2014-06-15
130109-00001	U.S. Dept. of Def.		Biology	Randy Lewis		Allotment (In	2014-06-15
130500-00001	Gyeongsang Natic		Animal Dairy	Zhongde Wa		Correction	2013-02-01
140418-00001	Intelligent Autom	U.S. Department of Ti	Electrical & C	Regan Zane		No Cost Exte	2013-12-16
140713-00001	U.S. Department		Biology	Randy Lewis		Allotment (In	2014-10-01
150447-00001	Battelle Energy Al	U.S. Dept. of Energy -	Biological Eni	Foster Aryi A		Allotment (In	2014-12-02
151056-00001	Velozzi		Biology	Randy Lewis		New	2015-07-29
151152-00001	Raytheon		Electrical & C	Regan Zane		New	2015-08-17
160141-00001	Technology Holdi		Biology	Randy Lewis		New	2015-08-10
160141-00001	Technology Holdi		Biology	Randy Lewis		Continuation	2015-08-10
160148-00001	U.S. Dept. of Def.		Biology	Randy Lewis		Allotment (In	2015-08-01
160148-00001	U.S. Dept. of Def.		Biology	Randy Lewis		New	2015-08-01
160148-00001	U.S. Dept. of Def.		Biology	Randy Lewis	Justin A Jones	Correction	2015-08-01
160148-00001	U.S. Dept. of Def.		Biology	Randy Lewis	Justin A Jones	Allotment (In	2015-08-01
160148-00001	U.S. Dept. of Def.		Biology	Randy Lewis	Justin A Jones	Allotment (In	2015-08-01
200056-00001	Intelligent Autom	U.S. Department of D	Electrical & C	Regan Zane		New	2015-10-26
200060-00001	UT Sys. of High. E	Intermountain Resear	Animal Dairy	Irina Polejaev	Kenneth L White	New	2015-10-23
200113-00001	Technology Holdi		Biology	Randy Lewis	Justin A Jones	New	2015-12-08
200136-00001	UT Sys. of High. E		Animal Dairy	Irina Polejaev		New	2015-12-16
200136-00001	UT Sys. of High. E	St. Jude Children's Re	Animal Dairy	Irina Polejaev		New	2015-12-16
200157-00001	U.S. Department		Animal Dairy	Irina Polejaev	Chris Davies	New	2016-01-01
200232-00001	University of Colc		Electrical & C	Regan Zane		New	2012-08-01
200294-00001	Albert Einstein Cc		Animal Dairy	Zhongde Wa		New	2016-04-01
200410-00001	Auratus Bio, LLC	U.S. Dept. of Hlth. and	Animal Dairy	Zhongde Wa	Brian B Gowen	New	2016-06-01
200421-00001	Raytheon		Electrical & C	Regan Zane		New	2016-06-27

Award Date (This Action)	Title	Awarded Funding (This Action)
2016-04-05	Robust cell-level modeling and control of large battery packs	\$400,000.00
2016-02-18	SPIDER WEB GLUE PROTEINS	\$40,000.00
2016-04-07	SPIDER WEB GLUE PROTEINS	\$80,000.00
2015-10-20	Developing a novel transgenic strategy for the production of recoml	\$0.00
2015-09-03	A NOVEL MULTI-SENSOR WIRELESS NETWORK FOR BRIDGE STRUCTI	\$0.00
2015-10-01	Spider Silk MaSp1 and MaSp2 Proteins as Carbon Fiber Precursors	\$440,584.00
2016-06-22	In situ Catalytic Pyrolysis of biomass to produce stable biomass pyrc	\$174,997.00
2015-07-29	Spider silk materials	\$22,000.00
2015-08-18	Analysis and design of series resonant converter (SRC) prototype wi	\$91,927.00
2015-09-14	Technology Holding/Synthetic Biomanufacturing Institute -- USU Co	\$1,080.00
2015-11-13	Technology Holding/Synthetic Biomanufacturing Institute -- USU Co	\$2,160.00
2015-09-02	Adhesive Spider Silks for Naval Applications	-\$408,896.00
2015-08-28	Adhesive Spider Silks for Naval Applications	\$488,004.00
2015-12-08	Adhesive Spider Silks for Naval Applications	\$0.00
2015-12-08	Adhesive Spider Silks for Naval Applications	\$26,692.00
2016-03-22	Adhesive Spider Silks for Naval Applications	\$120,114.00
2015-10-28	Pulse Generator for Extended Period Excitation of Ultrasonic Sensor	\$10,350.00
2015-10-29	The Effect of Exercise on Atrial Fibrillation in a Novel Transgenic Mo	\$0.00
2015-12-08	SBIR Phase II: Spider silk materials	\$299,868.00
2015-12-29	Correlation of Electroanatomical Mapping and Histological Assessm	\$0.00
2015-12-29	Correlation of Electroanatomical Mapping and Histological Assessm	\$34,256.00
2016-01-11	Inaugural Conference on Large Animal Genetic Engineering for Biom	\$6,000.00
2016-03-10	Center for Innovative Drivetrains in Electric Automotive Technology	\$52,608.00
2016-04-18	To create a genetically engineered Syrian hamster model of hantavi	\$9,000.00
2016-06-28	STTR: Development of a STAT2 knock-out hamster model for wild-ty	\$68,785.00
2016-06-28	Analysis and Design of Series Resonant Converter (SRC) Prototype w	\$149,044.00

NEW FUNDING IN FY2016

Award Number	Funding Sponsor/PTE	Prime Sponsor	Department/ Unit	Principal Investigator	Co-Investigator(s)	Award Action Type	Original Award Date	Award Date (This Action)
151056-000C	Velozzi		Biology	Randy Lewis		New	2015-07-29	2015-07-29
151152-000C	Raytheon		Electrical & C	Regan Zane		New	2015-08-17	2015-08-18
160141-000C	Technology I		Biology	Randy Lewis		New	2015-08-10	2015-09-14
160141-000C	Technology I		Biology	Randy Lewis		Continuation	2015-08-10	2015-11-13
160148-000C	U.S. Dept. of		Biology	Randy Lewis		Allotment (In	2015-08-01	2015-09-02
160148-000C	U.S. Dept. of		Biology	Randy Lewis	Justin A Jone	New	2015-08-01	2015-08-28
160148-000C	U.S. Dept. of		Biology	Randy Lewis	Justin A Jone	Allotment (In	2015-08-01	2015-12-08
200056-000C	Intelligent At	U.S. Departm	Electrical & C	Regan Zane		New	2015-10-26	2015-10-28
200060-000C	UT Sys. of Hig	Intermounta	Animal Dairy	Irina Polejaev	Kenneth L W	New	2015-10-23	2015-10-29
200113-000C	Technology I		Biology	Randy Lewis	Justin A Jone	New	2015-12-08	2015-12-08
200136-000C	UT Sys. of Hig	St. Jude Chilc	Animal Dairy	Irina Polejaev		New	2015-12-16	2015-12-29
200157-000C	U.S. Departm		Animal Dairy	Irina Polejaev	Chris Davies	New	2016-01-01	2016-01-11
200294-000C	Albert Einste		Animal Dairy	Zhongde Wa		New	2016-04-01	2016-04-18
200410-000C	Auratus Bio,	U.S. Dept. of	Animal Dairy	Zhongde Wa	Brian B Gow	New	2016-06-01	2016-06-28
200421-000C	Raytheon		Electrical & C	Regan Zane		New	2016-06-27	2016-06-28

Title	Awarded Funding (This Action)
Spider silk m	\$22,000.00
Analysis and	\$91,927.00
Technology t	\$1,080.00
Technology t	\$2,160.00
Adhesive Spi	#####
Adhesive Spi	#####
Adhesive Spi	\$26,692.00
Pulse Genera	\$10,350.00
The Effect of	\$26,406.00
SBIR Phase II	\$299,868.00
Correlation c	\$34,256.00
Inaugural Coi	\$6,000.00
To create a g	\$9,000.00
STTR: Develo	\$68,785.00
Analysis and	\$149,044.00

University of Utah

FY 2016

b. Expenditures

Expenditures	
Manager	Funding Category
ALTER,ORLY	Federal Grants
	Federal Grants
	Federal Grants
	Federal Grants Total
ALTER,ORLY Total	
CHOU,HUNG-CHIEH	Federal Grants
	Federal Grants Total
	Philanthropic and Nonprofit Funds
	Philanthropic and Nonprofit Funds Total
CHOU,HUNG-CHIEH Total	
DORVAL II,ALAN DALE	Federal Grants
	Federal Grants
	Federal Grants
	Federal Grants Total
	Philanthropic and Nonprofit Funds
	Philanthropic and Nonprofit Funds Total
DORVAL II,ALAN DALE Total	
FLETCHER,PRESTON THOMAS	Federal Grants
	Federal Grants

	Federal Grants Total
FLETCHER,PRESTON THOMAS Total	
FRANZINI,RAPHAEL	Philanthropic and Nonprofit Funds
	Philanthropic and Nonprofit Funds Total
FRANZINI,RAPHAEL Total	
GHANDEHARI,HAMIDREZA S	Federal Grants
	Federal Grants
	Federal Grants Total
	Philanthropic and Nonprofit Funds
	Philanthropic and Nonprofit Funds Total
GHANDEHARI,HAMIDREZA S Total	
JI,HAITAO	Federal Grants
	Federal Grants Total
	Philanthropic and Nonprofit Funds
	Philanthropic and Nonprofit Funds Total
	State Funds
	State Funds Total
JI,HAITAO Total	
KIM,HANSEUP	Federal Grants
	Federal Grants Total
	Philanthropic and Nonprofit Funds
	Philanthropic and Nonprofit Funds Total
KIM,HANSEUP Total	
KORENBERG,JULIE R	Federal Grants
	Federal Grants
	Federal Grants Total

	Industry
	Industry
	Industry Total
KORENBERG,JULIE R Total	
LAZZI,GIANLUCA	Federal Grants
	Federal Grants
	Federal Grants Total
	Industry
	Industry Total
	Philanthropic and Nonprofit Funds
	Philanthropic and Nonprofit Funds Total
LAZZI,GIANLUCA Total	
LOOPER, RYAN	Federal Grants
	Federal Grants
	Federal Grants
	Federal Grants Total
	Industry
	Industry
	Industry Total
	Philanthropic and Nonprofit Funds
	Philanthropic and Nonprofit Funds Total
	State Funds
	State Funds Total
LOOPER, RYAN Total	
MARTH,GABOR T	Federal Grants
	Federal Grants Total

MARTH,GABOR T Total	
MASTRANGELO,CARLOS H	Federal Grants
	Federal Grants Total
	Industry
	Industry Total
MASTRANGELO,CARLOS H Total	
MCLENNAN,JOHN DAVID	Federal Grants
	Federal Grants Total
	Industry
	Industry Total
	Philanthropic and Nonprofit Funds
	Philanthropic and Nonprofit Funds Total
	State Funds
	State Funds Total
MCLENNAN,JOHN DAVID Total	
MCPHERSON,BRIAN JAMES	Federal Grants
	Federal Grants
	Federal Grants Total
	Philanthropic and Nonprofit Funds
	Philanthropic and Nonprofit Funds Total
MCPHERSON,BRIAN JAMES Total	
MENON,RAJESH	Federal Grants

	Federal Grants
	Federal Grants Total
	Philanthropic and Nonprofit Funds
	Philanthropic and Nonprofit Funds Total
MENON,RAJESH Total	
MEYER,MIRIAH DAWN	Federal Grants
	Federal Grants Total
	Philanthropic and Nonprofit Funds
	Philanthropic and Nonprofit Funds Total
MEYER,MIRIAH DAWN Total	
MINTEER,SHELLEY D	Federal Grants
	Federal Grants Total
	Philanthropic and Nonprofit Funds
	Philanthropic and Nonprofit Funds Total
	State Funds

	State Funds Total
MINTEER,SHELLEY D Total	
MISRA,MANORANJAN	Federal Grants
	Federal Grants Total
	Philanthropic and Nonprofit Funds
	Philanthropic and Nonprofit Funds Total
	State Funds
	State Funds Total
MISRA,MANORANJAN Total	
PORTER,MARC D	Federal Grants
	Federal Grants Total
	Philanthropic and Nonprofit Funds
	Philanthropic and Nonprofit Funds Total
	State Funds
	State Funds Total
PORTER,MARC D Total	
QUINLAN,AARON	Federal Grants
	Federal Grants Total
QUINLAN,AARON Total	
RENSHAW,PERRY FRANKLIN	Federal Grants
	Federal Grants
	Federal Grants
	Federal Grants Total

	Industry
	Industry
	Industry Total
	Philanthropic and Nonprofit Funds
	Philanthropic and Nonprofit Funds Total
RENSHAW,PERRY FRANKLIN Total	
SAFFARIAN,SAVEEZ	Federal Grants
	Federal Grants
	Federal Grants Total
SAFFARIAN,SAVEEZ Total	
SAOUMA,CAROLINE T	State Funds
	State Funds Total
SAOUMA,CAROLINE T Total	
SIGALA,PAUL ANDREW	Philanthropic and Nonprofit Funds
	Philanthropic and Nonprofit Funds Total
SIGALA,PAUL ANDREW Total	
TABIB-AZAR,MASSOOD	Federal Grants
	Federal Grants
	Federal Grants Total
TABIB-AZAR,MASSOOD Total	
TASDIZEN,TOLGA	Federal Grants
	Federal Grants
	Federal Grants
	Federal Grants Total
TASDIZEN,TOLGA Total	
WACHOWIAK,DALE MATTHEW	Federal Grants
	Federal Grants
	Federal Grants
	Federal Grants

	Federal Grants Total
WACHOWIAK,DALE MATTHEW Total	
WHITE,JOHN A	Philanthropic and Nonprofit Funds
	Philanthropic and Nonprofit Funds Total
WHITE,JOHN A Total	
YAMAGUCHI,AYAKO	Federal Grants
	Federal Grants Total
	Philanthropic and Nonprofit Funds
	Philanthropic and Nonprofit Funds Total
YAMAGUCHI,AYAKO Total	
YANDELL,MARK	Federal Grants
	Federal Grants
	Federal Grants
	Federal Grants Total
	Industry
	Industry Total
	Philanthropic and Nonprofit Funds
	Philanthropic and Nonprofit Funds Total
YANDELL,MARK Total	
YOUNG,DARRIN J	Federal Grants
	Federal Grants Total
YOUNG,DARRIN J Total	
YUKSEL,CEM	Federal Grants
	Federal Grants Total
YUKSEL,CEM Total	
YURGELUN-TODD,DEBORAH ANN	Federal Grants
	Federal Grants
	Federal Grants Total
	Industry

	Industry
	Industry
	Industry Total
	Philanthropic and Nonprofit Funds
	Philanthropic and Nonprofit Funds Total
YURGELUN-TODD,DEBORAH ANN Total	
ZANG,LING	Federal Grants
	Federal Grants
	Federal Grants
	Federal Grants Total
	Philanthropic and Nonprofit Funds
	Philanthropic and Nonprofit Funds Total
ZANG,LING Total	
Grand Total	
	Federal Grants Total

Source: University of Utah Office of Budget & Institutional Analysis (OBIA)

Note: Project expenditures as co-PI or co-I might not be reflected in this data for each investigator

Note: Negative balances are recoveries. Fletcher's recovery upon close-out of the award, the f&a budgeted was refunded s

Sources of Fundings	Total
Department of Health and Human Services Other	424,253.31
Department of Health and Human Services Researcher	377.32
National Science Foundation	(987.67)
	423,642.96
	423,642.96
AMERICAN DIABETES ASSOCIATION	88,288.94
	88,288.94
	232,869.35
	232,869.35
	321,158.29
European Commission	102,467.85
National Science Foundation	109,876.75
NIH National Inst Biomedical Imaging & Bioeng	(2,854.28)
	209,490.32
	(8.85)
	(8.85)
	209,481.47
Department of Health and Human Services National Institutes of Health	(83,447.23)
National Science Foundation	183,115.76

	99,668.53
	99,668.53
	37,175.33
	37,175.33
	37,175.33
Department of Health and Human Services Fellowships	24,352.48
Department of Health and Human Services Researcher	373,495.31
	397,847.79
	29,831.78
	29,831.78
	427,679.57
Department of Defense	203,646.49
	203,646.49
	5,061.98
	5,061.98
	44,570.93
	44,570.93
	253,279.40
Department of Defense	82,611.43
Department of Health and Human Services National Institutes of Health	14,648.24
Department of Health and Human Services Other	244.14
National Science Foundation	148,840.21
	246,344.02
	25,510.54
	25,510.54
	271,854.56
Department of Health and Human Services Other	482,396.40
Department of Health and Human Services Researcher	554,325.30
	1,036,721.70

INC RESEARCH INC	44,750.55
Not available	(47,251.01)
	(2,500.46)
	1,034,221.24
Department of Health and Human Services Other	354,260.74
National Science Foundation	45,506.88
	399,767.62
Second Sight	46,792.54
	46,792.54
	57,179.82
	57,179.82
	503,739.98
American Chemical Association	16,474.33
Department of Defense	9,381.32
Department of Health and Human Services Researcher	73,108.41
	98,964.06
Curza Global LLC	610,139.36
Drinksavvy	29,952.58
	640,091.94
	65,129.40
	65,129.40
	2,702.09
	2,702.09
	806,887.49
Department of Health and Human Services National Institutes of Health	14,127.95
Department of Health and Human Services Other	877,721.97
Department of Health and Human Services Researcher	155,696.48
Jackson Laboratory from Department of Health and Human Services	221,490.14
	1,269,036.54

	1,269,036.54
Department of Defense	111,240.07
Department of Health and Human Services Other	22,371.85
Dept of Economic & Community Development	8,611.64
National Science Foundation	176,758.71
	318,982.27
Versana Micro Inc	47,103.60
	47,103.60
	366,085.87
Reaction Engineering from Department of Energy	8,637.35
	8,637.35
Far East Energy Corporation	(60,293.69)
British Petroleum	62,198.51
EGI Consortium	62,700.95
Midstates Petroleum	15,656.84
Western Energy Consultants LLC	21,650.77
	101,913.38
	4,814.12
	4,814.12
	39,948.62
	39,948.62
	155,313.47
Department of Energy	567,549.15
National Science Foundation	4,497.64
	572,046.79
	6,102.12
	6,102.12
	578,148.91
Department of Defense	122,729.74

Department of Energy	124,578.72
Lumarray from Department of Defense	0.01
NASA	82,727.01
National Science Foundation	397,236.80
	727,272.28
	14,986.25
	14,986.25
	742,258.53
Department of Defense	596.55
Department of Health and Human Services National Institutes of Health	11,234.90
Kitware from Department of Defense	176,092.41
National Endowment for the Humanities	10,243.64
National Science Foundation	96,879.85
	295,047.35
	59.24
	59.24
	295,106.59
CFD Research Corp from Department of Defense	35,739.90
Department of Agriculture	110,424.82
Department of Defense	1,186,363.53
European Commission	27,249.36
Fulcrum Biosciences from Department of Defense	86,063.42
National Research Foundation of Korea	62,939.28
National Science Foundation	34,592.50
Proton on site from Department of Agriculture	32,936.00
	1,576,308.81
	(7,871.05)
	(7,871.05)
	14,441.95

	14,441.95
	1,582,879.71
Department of Energy	243,069.19
Dept of Economic & Community Development	67,424.89
Nanosynth Materials and Sensor from National Science Foundation	49,932.08
National Science Foundation	19,791.05
	380,217.21
	425,770.44
	425,770.44
	180,000.00
	180,000.00
	985,987.65
Department of Health and Human Services Other	83,371.37
Department of Health and Human Services Researcher	868,841.18
GATES FOUNDATION	197,058.68
National Science Foundation	10,537.80
	1,159,809.03
	32,757.58
	32,757.58
	4,285.93
	4,285.93
	1,196,852.54
Department of Health and Human Services Researcher	642,589.44
	642,589.44
	642,589.44
Department of Health and Human Services Researcher	796,144.64
Department of Health and Human Services Training	127,606.63
Veterans Administration	244,154.25
	1,167,905.52

LifeTree Clinical Research flowed from PRA International	286,599.99
QUINTILES TRANSNATIONAL	76,265.55
	362,865.54
	354,008.16
	354,008.16
	1,884,779.22
Department of Health and Human Services Researcher	217,956.70
National Science Foundation	100,679.12
	318,635.82
	318,635.82
	1,119.61
	1,119.61
	1,119.61
	91,606.15
	91,606.15
	91,606.15
Department of Defense	349,229.32
National Science Foundation	49,814.62
	399,043.94
	399,043.94
Department of Health and Human Services	(1,849.84)
Dept of Economic & Community Development	(727.54)
National Science Foundation	185,571.27
	182,993.89
	182,993.89
Department of Health and Human Services	123,060.66
Department of Health and Human Services Fellowships	14,474.34
Department of Health and Human Services Researcher	626,023.53
National Science Foundation	197,070.94

	960,629.47
	960,629.47
	21.68
	21.68
	21.68
National Science Foundation	21,734.88
	21,734.88
	18,674.75
	18,674.75
	40,409.63
Department of Agriculture	(19.34)
Department of Health and Human Services Researcher	622,532.13
National Science Foundation	836,594.03
	1,459,106.82
Regeneron Genetics Center LLC	52,541.64
	52,541.64
	25,941.77
	25,941.77
	1,537,590.23
National Science Foundation	51,019.51
	51,019.51
	51,019.51
National Science Foundation	26,073.99
	26,073.99
	26,073.99
Department of Health and Human Services Other	362,849.82
Veterans Administration	110,862.51
	473,712.33
NSE PRODUCTS, INC	269,549.08

OTSUKA AMERICA PHARMACEUTICAL INC	402,093.36
TAKEDA PHARMACEUTICALS NORTH AMERICA INC	776,286.27
	1,447,928.71
	5,140.62
	5,140.62
	1,926,781.66
Department of Defense	236,878.66
NASA	6,913.57
National Science Foundation	96,488.93
	340,281.16
	17,368.80
	17,368.80
	357,649.96
	19,981,402.83

since the project was f&a exempt.

Source:USU Document: "USTAR Report for FY 2016 (July 1, 2015 to June 30, 2016)
Utah State University"

**Technology disclosures and license agreements based on technology developed by
USTAR Principal Researchers:
Attachment I.6 (Technology Disclosures and License Agreements.FY16)**

USTAR Principal Researchers

Foster Agblevor: 4 disclosures, 0 licenses

Young-Min Lee: 0 disclosures, 0 licenses

Randy Lewis: 2 disclosures, 1 terminated license (Araknitek)

Irina Polejaeva: 0 disclosures, 0 licenses

Zhongde Wang: 2 disclosures, 0 licenses

Regan Zane: 0 disclosures, 0 licenses

University of Utah

FY 2016

c. Technology & Venture Commercialisation Report

FY2016 USTAR Inventions

TECH ID	TITLE	TECH STATUS	DISCLOSURE DATE	USTAR INVENTOR(S)
U-6023	High-sensitivity Parametrically Amplified Chemo-Mechanical Vapor Sensor	Internal Review	9/17/15	Mastrangelo, Carlos
U-6027	Silk-Elastinlike Protein Polymer for the Embolization of Aneurysm and Arteriovenous Malformation	Hold For More Data From Inventor(s)	9/24/15	Ghandehari, Hamidreza
U-6030	Surface Plasmon Resonance (SPR) based label-free detection of electro-osmosis enhanced Microchip Capillary Electrophoresis (MCE) in real-time.	IP Protection Filed/Secured	9/29/15	Mastrangelo, Carlos
U-6037	Power Efficient Electronic Switches	IP Protection Filed/Secured	10/12/15	Tabib-Azar, Massood
U-6038	Chemical Percolation Switch	IP Protection Filed/Secured	10/13/15	Kim, Hanseup
U-6046	Interfacial Donor-Acceptor Nanofibril Composite for Selective Alkane Vapor Detection	IP Protection Filed/Secured	10/28/15	Zang, Ling
U-6049	Encapsulation and Time Release of Microbe Loaded Porous Proppant	Hold For More Data From Inventor(s)	11/2/15	McLennan, John
U-6055	Chemical Self-doping of One-dimensional Organic Nanomaterials for High Conductivity and Application in Chemiresistive Sensing Oxidant Gas or Vapor	IP Protection Filed/Secured	11/10/15	Zang, Ling
U-6059	Glucose-responsive insulin analog	IP Protection Filed/Secured	11/12/15	Chou, Danny
U-6063	Laterally Actuated Amplified Capacitive Vapor Sensor	Hold For More Data From Inventor(s)	11/18/15	Mastrangelo, Carlos and Kim, Hanseup
U-6076	Smartphone sensor system to monitor calorie intake and output	Closure Requested	12/4/15	Tabib-Azar, Massood
U-6079	Methods and composition of 4-substituted benzoylpiperazine-1-substituted carbonyls as beta-catenin/B-cell lymphoma 9 inhibitors	IP Protection Filed/Secured	12/4/15	Ji, Haitao (Mark)
U-6081	gene.iobio	Licensed: Exclusive	12/10/15	Marth, Gabor

U-6085	Low-Power Large Aperture Adaptive Lenses for Smart Eyeglasses	IP Protection Filed/Secured	12/18/15	Mastrangelo, Carlos and Kim, Hanseup
U-6086	GEMINI: A software platform for disease discovery	Copyright/Trademark	1/15/16	Quinlan, Aaron
U-6103	Creatine analogs for Treatment Resistant Depression and Anxiety Associated With Hypoxia	IP Protection Filed/Secured	2/4/16	Renshaw, Perry
U-6110	Porous proppant for delivering bacteria	Hold For More Data From Inventor(s)	2/22/16	McLennan, John
U-6116	Fluorescence Assisted Portable Cell Counting System	Internal Review	2/11/16	Minteer, Shelley
U-6141	Benzonorbornadiene Derivatives and Reactions Thereof	Hold For More Data From Inventor(s)	4/1/16	Franzini, Raphael
U-6146	Active digital metamaterials	Hold For More Data From Inventor(s)	4/11/16	Menon, Rajesh
U-6166	Enzyme/Redox Polymer Supercapacitor Device	IP Protection Filed/Secured	5/4/16	Minteer, Shelley
U-6190	GROUPER: Software for High-Level Prognostic Health Summary of WES or WGS Contents.	IP Protection Filed/Secured	6/10/16	Yandell, Mark
U-6193	System and Method for Imaging with Only an Image Sensor	Internal Review	6/21/16	Menon, Rajesh

TVC NOTES
Done (No IP)
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Done (IP)
Done (No IP)

Source UofU Spreadsheet "USTAR FY16 Researchers Report v3"

Source Documents on file with USTAR

FY2016 USTAR Agreements

AGREEMENT ID	PARTY	EFFECTIVE DATE	TECH ID	AGREEMENT TYPE	USTAR INVENTOR(S)
2194	Navigen, Inc.	7/31/15	U-5872	Exclusive Option	Chou, Danny
2007.B/2198	Solefire, Inc.	9/9/15	U-5031 U-5484	Amendment - Exclusive	Kim, Hanseup
1821.B/2231	Applied Biosensors, LLC	9/10/15	U-5555	Amendment - Exclusive	Mastrangelo, Carlos
1895.A/2207	PointSpectrum Corporation; Massachusetts Institute of Technology (MIT)	9/22/15	U-4912	Amendment - Exclusive	Menon, Rajesh
1379.C/2254	Blackrock Microsystems, LLC; I2S Micro Implantable Systems LLC	12/22/15	U-5555	Amendment - Exclusive	Mastrangelo, Carlos
2263	Vaporsens, Inc. (Amended and Restated)	1/1/16	U-5878 U-6046 U-5149 U-4558 U-6055 U-5669 U-4881 U-4799 U-4774 U-4728 U-5150	Exclusive License	Zang, Ling
2292	Frameshift Labs, LLC	4/18/16	U-6081	Exclusive License	Marth, Gabor

Source UofU Spreadsheet "USTAR FY16 Researchers Report v3"

FY2016 USTAR Filed Applications

TECH ID	PATENT TITLE	APPLICATION TYPE	COUNTRY	PATENT STATUS	FILE DATE	SERIAL NO
U-4453	Radiation Enhanced Macromolecular Delivery of Therapeutic Agents for Chemotherapy Technology	Continuation [CN]	United States	Pending	2/22/16	15/049,198
U-4648	Targeted Combination Drug Delivery and Photothermal Therapy for the Treatment of Cancer (this can be potentially used for other diseases as well)	Continuation-in-Part [CIP]	United States	Published	1/15/16	14/996,419
U-4912	Ultra-High Efficiencyolor MIXing and Color Separation	Divisional [DIV]	United States	Published	7/13/15	14/797,677
U-5079	Virtual Electrodes for High-Density Electrode Arrays	Divisional [DIV]	United States	Published	9/11/15	14/852,147
U-5234	Nervous System Interface Device	Parent/Utility	United States	Published	11/11/15	14/938,634
U-5285	SUBSTITUED 1H-INDAZOL-1-OL ANALOGS AS INHIBITORS OF BETA CATENIN/TCF PROTEIN-PROTEIN INTERACTIONS	Continuation [CN]	United States	Pending	2/5/16	15/017,296
U-5458	Systems and Methods for Friction Spot Welding and Friction Seam Welding	Nationalized PCT-US	United States	Published	7/22/15	14/762,705
U-5503	Coherent Fluorescence Super-Resolution Microscopy	Nationalized PCT-US	United States	Published	9/2/15	14/772,219
U-5505	Silk-Elastin Like Protein Polymers For Embolization and Chemoembolization To Treat Cancer	Divisional [DIV]	United States	Published	3/8/16	15/064,142
U-5530	Sub-Diffraction-Limited Patterning and Imaging	Parent/Utility	United States	Published	10/16/15	14/885,657
U-5535	Stent with Embedded Pressure Sensors	Nationalized PCT-US	United States	Published	9/2/15	14/772,191
U-5555	Sensor Systems	Nationalized PCT-US	United States	Published	9/9/15	14/774,070
U-5669	Optoelectronic Vapor Sensing of Amines, Phosphines, Peroxides, Hydrocarbons (Aromatic & ALiphatic, Phenols (Potentially Alcohols & Thiols), Acids & Other compounds Acting as Reductants or Capable of Disrupting Integrity of the Nanstructure Using Pho	Provisional	United States	Expired (full term ends)	7/9/15	62/190,609
U-5687	Methods of Detecting Analytes and Diagnosing Tuberculosis	PCT	PCT	Pending	2/10/16	PCT/US2016/017287

U-5695	Micro Circulatory Gas Chromatography System and Method	Provisional	United States	Pending	2/22/16	62/298,055
U-5703	Genetic Alterations in Ovarian Cancer	PCT	PCT	Pending	4/14/16	PCT/US2016/027641
U-5704	Advanced Tensor Decompositions for Computational Assessment and Prediction from Data	PCT	PCT	Pending	4/14/16	PCT/US2016/027642
U-5727	Water Treatment Device	PCT	PCT	Published	8/6/15	PCT/US2015/044035
U-5743	Computational Microscopy Through A Cannula	Parent/Utility	United States	Published	11/24/15	14/950,371
U-5753	Systems and Methods for Image Classification	Parent/Utility	United States	Pending	2/5/16	15/017,257
U-5812	Substituted N-([1,1'-Biphenyl]-3-YL)-[1,1'-Biphenyl]-3-Carboxamide Analogs As Inhibitors For Beta-Catenin/B-Cell Lymphoma 9 Interactions	PCT	PCT	Pending	4/14/16	PCT/US2015/27640
U-5819	Dual-Gate Chemical Field Effect Transistor Sensor	Parent/Utility	United States	Pending	7/23/15	14/807,527
U-5820	Discrete Magnetic Nanoparticles	Parent/Utility	United States	Published	1/15/16	14/996,383
U-5864	Imaging Device	Provisional	United States	Pending	11/4/15	62/251,010
U-5864	Imaging Device with Image Dispersing to Create a Spatially Coded Image	PCT	PCT	Pending	3/24/16	PCT/US2016/024029
U-5871	Use of Creatine/SHTP for treatment of Psychiatric Disorders	Provisional	United States	Pending	1/21/16	62/388,290
U-5872	Thiol-Ene Based Peptide Stapling and Used Thereof	PCT	PCT	Pending	6/22/16	PCT/US2016/38788
U-5875	Insulin Analogs Having Shortened B Chain Peptides And Associated Methods	PCT	PCT	Pending	4/20/16	PCT/US2016/28526
U-5887	Variable Frequency Eddy Current Scrap Metal Sorter	Provisional	United States	Pending	9/10/15	62/217,005
U-5887	Variable Frequency Eddy Current Scrap Metal Sorter	Provisional	United States	Pending	2/26/16	62/300,429
U-5897	Microprobe Device for Non-Destructive Measurement of Electrical and Thermal Properties of Nano and Micro Scale Materials and Method for Fabricating the Same	Provisional	United States	Pending	4/26/16	62/327,535
U-5916	Ultra-Low Power (<10 nW) Micro-Electro-Mechanical Sensing Systems and Processors	Provisional	United States	Pending	11/23/15	62/258,898
U-5939	5H-[1,2,5]oxadiazolo[3',4':5,6]pyrazino[2,3-b]indole Derivatives as New Beta-Catenin/T-Cell Factor Inhibitors	PCT	PCT	Pending	5/13/16	PCT/US2016/32482
U-5949	Smartpack: System to monitor the fluid level in a portable hydration pack or similar fluid container	Provisional	United States	Pending	11/23/15	62/258,904
U-5949	Liquid Level Sensor	Parent/Utility	United States	Pending	5/26/16	15/166,053

U-5953	Remote Power Transfer Using Magneto-Electric Devices	Provisional	United States	Pending	12/2/15	62/262,088
U-6037	Power Efficient Electronic Switches	Provisional	United States	Pending	11/20/15	62/386,226
U-6038	Chemical Percolation Switch	Provisional	United States	Pending	10/13/15	62/284,929
U-6046	Interfacial Donor-Acceptor Nanofibril Composite for Selective Alkane Vapor Detection	Provisional	United States	Pending	11/3/15	62/285,628
U-6055	Chemical Self-doping of One-dimensional Organic Nanomaterials for High Conductivity and Application in Chemiresistive Sensing Oxidant Gas or Vapor	Provisional	United States	Pending	12/2/15	62/386,489
U-6079	Substitued N-(3-(Pyrimidin-4-YL)Phenyl)Acrylamide Analogs As Tyrosine Receptor Kinase BTK Inhibitors	Provisional	United States	Pending	3/25/16	62/313,604
U-6085	Low-Power Large Aperture Adaptive Lenses for Smart Eyeglasses	Provisional	United States	Pending	1/6/16	62/387,854
U-6103	Creatine Analogs for Treatment Resistant Depression and Anxiety Associated with Hypoxia	Provisional	United States	Pending	4/7/16	62/319,743
U-6190	Predicting Disease Burden From Genome Variants	Provisional	United States	Pending	9/18/15	62/220,908

FY2016 USTAR Issued Patents

TECH ID	PATENT TITLE	APPLICATION TYPE	COUNTRY	PATENT STATUS	FILE DATE	SERIAL NO
U-4774	Photoconductive Sensor Materials for Detection of Explosive Vapor	Nationalized PCT	China	Issued	12/23/10	2010800646112
U-4912	Ultra-High Efficiency Color Mixing and Color Separation	Nationalized PCT	China	Issued	9/16/11	201180056979.9
U-4912	Ultra-High Efficiency Color Mixing and Color Separation	Nationalized PCT-US	United States	Issued	4/30/13	13/825,991
U-4964	Nanoelectromechanical Logic Devices	Divisional [DIV]	United States	Issued	12/20/13	14/137,613
U-5026	Apparatus, System and Method for Multicoil Telemetry	Parent/Utility	United States	Issued	3/9/12	13/417,145

U-5064	Maskless Nanoimprint Lithography	Nationalized PCT-US	United States	Issued	5/12/14	14/232,185
U-5079	Virtual Electrodes for High-Density Electrode Arrays	Parent/Utility	United States	Issued	4/5/12	13/440,925
U-5184	Methods and Systems to Produce Continuous Trajectories From Discrete Anatomical Shapes	Parent/Utility	United States	Issued	9/13/12	13/613,850
U-5193	Application of 5-HT ₆ Receptor Antagonists for the Alleviation of Cognitive Deficits of Down Syndrome	Nationalized PCT	Australia	Issued	10/3/12	2012321345
U-5230	Micro-Plasma Field Effect Transistors	Continuation-in-Part [CIP]	United States	Issued	1/29/15	14/608,298
U-5285	Substituted 1H-Indazol-1-OL Analogs as Inhibitors of Beta Catenin/TCF Protein-Protein Interactions	Nationalized PCT-US	United States	Issued	8/8/14	14/377,839
U-5328	Microscopy Visualization	Parent/Utility	United States	Issued	3/18/13	13/846,737

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Kim, Hanseup and Mastrangelo, Carlos
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PATENT NO	ISSUE DATE	USTAR INVENTOR(S))
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9,269,521	2/23/16	Tabib-Azar, Massood
9,284,299	3/15/16	Ji, Haitao (Mark)
9,104,903	8/11/15	Tasdizen, Tolga

Source: USU Spreadsheet "Attachment 1.2 Publications FY16"

First Name	Last Name	STATUS	TITLE
Foster	Agblevor	Submitted	Biocrude oil from fast pyrolysis of poultry litter and hardwood Catalyst and Feedstock Effects in the Thermochemical Conversion of Biomass to Liquid Transportation Fuels
Foster	Agblevor	Submitted	Liquid Transportation Fuels
Foster	Agblevor	Published	Characterization and fermentation of steam exploded cotton gin waste
Foster	Agblevor	Published	Composition and ethanol production potential of cotton gin residues Compositional analysis of biomass feedstocks by Near Infrared Reflectance Spectroscopy
Foster	Agblevor	Published	Distinction between bioethanol and synthetic ethanol in a mixture of fasoline using low leve liquid scintillation counting
Foster	Agblevor	Published	Ethanol production of semi-simultaneous saccharification and fermentation from mixture of cotton gin waste and recycled paper sludge
Foster	Agblevor	Published	Fast pyrolysis of chicken litter and turkey lietter in fluidized bed reactor
Foster	Agblevor	Published	Fluid catalytic cracking of biomass pyrolysis vapors
Foster	Agblevor	Published	Fractional Catalytic pyrolysis of hybrid poplar wood
Foster	Agblevor	Published	Fractional pyrolysis of biomass for high-valued products Identification of inhibitory compounds in corn stover hydrolysate using 13C-NMR spectroscopy
Foster	Agblevor	Published	Mcmillan Applied Biochemistry and Biotechnology 119 97-120
Foster	Agblevor	Published	Improved HPLC method of biomass carbohydrate analysis Influence of Hemicellulosic Sugars on the Conversion of Xylose to Xylitol by Candida tropicalis
Foster	Agblevor	Published	Influence of nutrient, pH and dissolved oxygen on the production of Metarhizium flavoviride Mf189 blastospores in submerged batch cluture
Foster	Agblevor	Published	Influence of pine wood shavings on the pyrolysis of poultry litter

Foster	Agblevor	Published	Isolation and characterization of cellulose and lignin isolated from steam-exploded lignocellulosic biomass
Foster	Agblevor	Published	Kinetics of enzymatic hydrolysis of steam exploded cotton gin waste
Foster	Agblevor	Published	Microbubble fermentation of <i>Pichia pastoris</i> for Human serum
Foster	Agblevor	Published	Microbubble fermentation of <i>Trichoderma reesei</i> for cellulase enzyme production
Foster	Agblevor	Published	Model compound studies: influence of aeration and hemicellulosic sugars on xylitol production
Foster	Agblevor	Accepted	Modeling of semi-simultaneous saccharification and fermentation of ethanol production from cellulose
Foster	Agblevor	Published	Optimization of enzyme loading and hydrolytic time in the hydrolysis of the mixtures of cotton gin waste and recycled paper sludge for the maximum profit rate
Foster	Agblevor	Published	Parametric study on the pyrolysis of manure and wood shavings
Foster	Agblevor	Published	Parametric study on the pyrolysis of manure and wood shavings
Foster	Agblevor	Published	Production of Oxygenated Fuels from Biomass: Impact of Feedstock Storage
Foster	Agblevor	Published	Production of stable pyrolysis oils using fractional catalytic pyrolysis
Foster	Agblevor	Published	Pyrolysis as a technique for separating heavy metals from hyperaccumulators. Part II: Lab-scale pyrolysis of synthetic hyperaccumulator biomass
Foster	Agblevor	Published	Rapid Hydrothermolysis of Poplar Wood: Comparison of Sapwood, Heartwood and Bark Isolated Lignin
Foster	Agblevor	Published	Scale-up of microbubble dispersion generator for aerobic fermentation
Foster	Agblevor	Published	Screening of Facultatively Anaerobic Bacteria for Xylitol Production
Foster	Agblevor	Published	Some physical properties of acetosolv lignins from bagasse
Foster	Agblevor	Published	Storage and characterization of cotton gin waste for ethanol production
Foster	Agblevor	Published	The effect of detoxification method on the production of xylitol from corn fiber
Foster	Agblevor	Published	The operable modeling of simultaneous saccharification and fermentation of ethanol production from cellulose
Foster	Agblevor	Published	Thermochemical Conversion: A dual tool for bio-oil production and a solution of environmental waste disposal

Foster	Agblevor	Published	2015. Biofuels, Bio-power and Bioproducts from sustainable biomass: coupling energy crops and wastes for clean energy technologies
Foster	Agblevor	Published	Biofuels, bio-power, and bio-products from sustainable biomass: coupling energy crops and waste with clean energy technologies
Foster	Agblevor	Published	New rapid method for the determination of total acid number (TAN) of bio-oils
Foster	Agblevor	Accepted	New rapid method for determination of total acid number(TAN) for bio-oils
Foster	Agblevor	Published	Catalytic pyrolysis for the production of refinery-ready biocrude oils from six different biomass sources
Young-Min Lee		In Preparati	Viral genetic factors involved in promoting Japanese encephalitis virus-induced cell death: E, NS1/1', NS2A, and NS3
Young-Min Lee		In Preparati	Viral genetic factors involved in promoting Japanese encephalitis virus-induced cell death: E, NS1/1', NS2A, and NS3
Young-Min Lee		In Preparati	Cis-acting replication elements located at the 3'-terminal region of the Japanese encephalitis virus genome
Young-Min Lee		In Preparati	Cis-acting replication elements located at the 3'-terminal region of the Japanese encephalitis virus genome
Young-Min Lee		In Preparati	Viral genetic determinants of Japanese encephalitis virus virulence in mice
Young-Min Lee		In Preparati	Viral genetic determinants of Japanese encephalitis virus virulence in mice
Young-Min Lee		Published	Infectious bacterial artificial chromosomes: a functional genomics tool for the study of positive-strand RNA viruses
Young-Min Lee		Published	Infectious bacterial artificial chromosomes: a functional genomics tool for the study of positive-strand RNA viruses
Young-Min Lee		Published	Japanese encephalitis
Young-Min Lee		Published	Japanese encephalitis
Young-Min Lee		Published	Profiling of viral proteins expressed from the genomic RNA of Japanese encephalitis virus using a panel of 15 region-specific polyclonal rabbit antisera: implications for viral gene expression

Young-Min	Lee	Published	Profiling of viral proteins expressed from the genomic RNA of Japanese encephalitis virus using a panel of 15 region-specific polyclonal rabbit antisera: implications for viral gene expression
Young-Min	Lee	Published	A molecularly cloned, live-attenuated Japanese encephalitis vaccine SA14-14-2 virus
Young-Min	Lee	Published	A molecularly cloned, live-attenuated Japanese encephalitis vaccine SA14-14-2 virus
Randy	Lewis	Published	Combining flagelliform and dragline spider silk motifs to produce tunable synthetic biopolymer fibers
Randy	Lewis	Published	Effect of Loading Rate on Mechanical Properties and Fracture Morphology of Spider Silk
Randy	Lewis	Published	Elucidating Metabolic Pathways for Amino Acid Incorporation Into Dragline Spider Silk using ¹³ C Enrichment and Solid State NMR
Randy	Lewis	Published	Inducing β -Sheets Formation in Synthetic Spider Silk Fibers by Aqueous Post-Spin Stretching
Randy	Lewis	Published	Introducing a rigid loop structure from deer into mouse prion protein increases its propensity for misfolding in vitro
Randy	Lewis	Published	Nanoscale investigations of synthetic spider silk fibers modified by physical and chemical processes
Randy	Lewis	Published	Nephila clavipes Flagelliform Silk-like GGX Motifs Contribute to Extensibility and Spacer Motifs Contribute to Strength in Synthetic Spider Silk Fibers
Randy	Lewis	Accepted	Reproducing Natural Spider Silks' Co-Polymer Behavior in Synthetic Silk Mimics
Randy	Lewis	Published	Silkworms Transformed with ChimericSilkworm/ Spider Silk Genes Spin Composite Silk Fibers with Improved Mechanical Properties
Randy	Lewis	Published	The absence of detectable fetal microchimerism in nontransgenic goats (<i>Capra aegagrus hircus</i>) bearing transgenic offspring
Randy	Lewis	Published	Development of a Process for the Spinning of Synthetic Spider Silk
Randy	Lewis	Published	More Than Just Fibers: An Aqueous Method for the Production of Innovative Recombinant Spider Silk Protein Materials

Randy	Lewis	Published	Physical and biological regulation of neuron regenerative growth and network formation on recombinant dragline silks.
Randy	Lewis	Published	E-spun composite fibers of collagen and dragline silk protein: fiber mechanics, biocompatibility, and application in stem cell differentiation.
Irina	Polejaeva	Published	Livestock in biomedical research: history, current status and future prospective
Irina	Polejaeva	Published	Livestock in biomedical research: history, current status and future prospective
Irina	Polejaeva	Published	Cytokine gene expression at the maternal?fetal interface after somatic cell nuclear transfer pregnancies in small ruminants.
Irina	Polejaeva	Submitted	Increased Susceptibility to Atrial Fibrillation Secondary to Myocardial Fibrosis in Transgenic Goats Expressing Transforming Growth Factor- β 1 in the Heart
Irina	Polejaeva	Published	Method for transgenic bovidae expressing cardiac fibrosis and associated pathology
Zhongde	Wang	Submitted	Increased Susceptibility to Atrial Fibrillation Secondary to Myocardial Fibrosis in Transgenic Goats Expressing Transforming Growth Factor- β 1 in the Heart
Zhongde	Wang	Published	STAT2 Knockout Syrian Hamsters Support Enhanced Replication and Pathogenicity of Human Adenovirus, Revealing an Important Role of Type I Interferon Response in Viral Control.
Zhongde	Wang	Published	Effect of peroxiredoxin II on the quality and mitochondrial activity of pre-implantation bovine embryos.
Zhongde	Wang	Published	Functional roles of single nucleotide polymorphism genetic markers in bovine mastitis resistance
Zhongde	Wang	Published	Effects of co-culture of cumulus oocyte complexes with denuded oocytes during in vitro maturation on the developmental competence of cloned bovine embryos.
Zhongde	Wang	Published	Effective cryopreservation of golden Syrian hamster embryos by open pulled straw vitrification.
Zhongde	Wang	Published	Genome engineering in cattle: recent technological advancements.
Zhongde	Wang	Published	Method for transgenic bovidae expressing cardiac fibrosis and associated pathology

Zhongde	Wang		Species-Specific Chromosome Engineering Greatly Improves Fully Human Polyclonal Antibody Production Profile in Cattle.
Regan	Zane	Published	Active balancing system for electric vehicles with incorporated low voltage bus
Regan	Zane	Published	Burst mode control and switched-capacitor converter losses
Regan	Zane	Not Accepted	Optimization of Circular Couplers for Wireless Swarm Power Transfer with Multi-Objective Real Particle Optimization
Regan	Zane	Published	Design of Hybrid Energy Storage Systems for Wirelessly Charged Electric Vehicles
Regan	Zane	Published	Improved steady-state model of the dual-active-bridge converter
Regan	Zane	Published	A Practical Implementation of Wireless Power Transfer Systems for Socially Interactive Robots
Regan	Zane	Published	Application of three-phase unfolded in electric vehicle drivetrain
Regan	Zane	Published	Control of a series-input, parallel-output, cell balancing system for electric vehicle battery packs
Regan	Zane	Published	Digital Control of High-Frequency Switched-Mode Power Converters
Regan	Zane	Published	SIMULINK based hardware-in-the-loop rapid prototyping of an electric vehicle battery balancing controller
Regan	Zane	Published	State-of-charge estimation based on microcontroller-implemented sigma-point Kalman filter in a modular cell balancing systems for Lithium-Ion battery packs
Regan	Zane	Published	Feasibility of Wireless Power Transfer for Electrification of Transportation: Techno-economics and Life Cycle Assessment
Regan	Zane	Published	On/off control of a modular DC-DC converter based on active-clamp LLC modules
Regan	Zane	Published	Techno-economic feasibility and environmental impact of wireless power transfer roadway electrification
Regan	Zane	Published	Multi-Objective Particle Swarm Optimization Applied to the Design of Wireless Power Transfer Systems
Regan	Zane	Published	Circuit-oriented treatment of nonlinear capacitances in switched-mode power supplies

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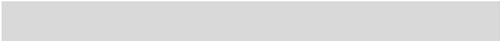
Source UofU Spreadsheet "USTAR FY16 Res

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CALDWELL, CRAIG BERNREUTER *

**Center for Genetic Discovery * -
Yandell, Mark**

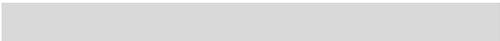


CHOU, HUNG-CHIEH *



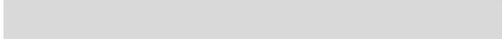
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*** - Hari Vankayalapati**



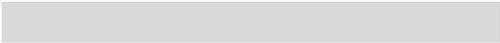
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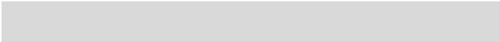


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Renshaw, Perry



DORVAL II, ALAN DALE



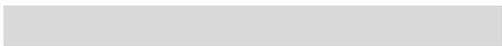
FLETCHER, PRESTON THOMAS



FRANZINI, RAPHAEL *



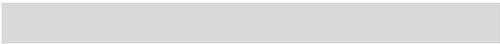
GHANDEHARI, HAMIDREZA S



JI, HAITAO *



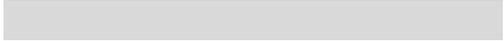
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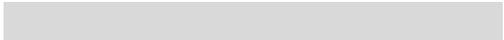
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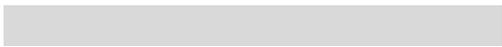
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MASTRANGELO, CARLOS H



MCLENNAN, JOHN DAVID



MCPHERSON, BRIAN JAMES



MENON, RAJESH *



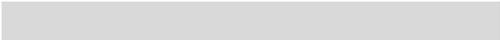
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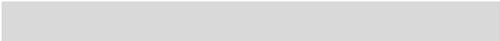
MINTEER, SHELLEY D *



MISRA, MANORANJAN *



PORTER, MARC D *



**Pre-Clinical Models Core * - David
Lum**



QUINLAN, AARON *

SAFFARIAN, SAVEEZ *

SAOUMA, CAROLINE T *

SIGALA, PAUL ANDREW *

**Synthetic Chemistry Core * - Looper,
Ryan**

TABIB-AZAR, MASSOOD



TASDIZEN, TOLGA

WACHOWIAK, DALE MATTHEW *

YAMAGUCHI, AYAKO *

YOUNG, DARRIN J

YUKSEL, CEM *



ZANG, LING



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University of Utah

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d. Publications

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Source: USU Documents "Attachement II.1 Building 650 Researcher Contacts Fy16 and "Attachement II Building 650 room assignments FY16"

(Attachment II)

Building 177 - USTAR - 650 Building

Room	Description	Program	Occupant	Owner Group
100J	VESTIBULE	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
100K	ANIMAL FACILITIES	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
100L	ANIMAL FACILITIES SERVIC	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
100M	ANIMAL FACILITIES SERVIC	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
100N	ANIMAL FACILITIES SERVIC	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
100P	ANIMAL FACILITIES SERVIC	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
100R	LOBBY	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
100T	ANIMAL FACILITIES SERVIC	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
100U	ANIMAL FACILITIES SERVIC	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
100Z	ANIMAL FACILITIES SERVIC	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
104A	BUILDING STORAGE ROOM	N/A	N/A	DPPROV
104B	CT SCANNER PREP	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
104C	CT SCANNER IMAGING	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
105	CT IMAGING	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
109B	LOADING DOCK	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
110A	STORAGE	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
110B	STORAGE	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC

110C	STAGING	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
111	CENTRAL STORAGE	N/A	N/A	000000
112	ANTE	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
113	ANIMAL RECEIVING	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
114	QUARANTINE	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
115	QUARANTINE	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
116	QUARANTINE	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
117	DE-CONTAMINATION	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
119	W.I.C.	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
120A	NECROPSY	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
120B	DISPOSAL	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
121	ANIMAL FACILITIES	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
122	LAUNDRY	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
123	SUPPLY STORAGE	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
124	FEED STORAGE	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
125	BOTTLE STORAGE	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
126	CAGE WASH CLEAN	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
127	CAGE WASH DIRTY	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
128	WOMEN RESTROOM	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
129	MEN RESTROOM	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
130B	JANITOR	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
131	RECYCLING	N/A	N/A	000000
132	MAIL	BUILDING MAIL ROOM-Provost	N/A	DPPROV
133	FACILITY MAINTENANCE	N/A	N/A	000000
134	DATA	N/A	N/A	000000
135	MEN	N/A	N/A	000000
136	WOMEN	N/A	N/A	000000
137	STORAGE	Applied Nutrition Research (ANR)– Lefevre	N/A	DPCADN
138	PROCEDURE ROOM	Applied Nutrition Research (ANR)– Lefevre	N/A	DPCADN
139	EXAM ROOM	Applied Nutrition Research (ANR)– Lefevre	N/A	DPCADN
140	OFFICE	Applied Nutrition Research (ANR)– Lefevre	Vacant	DPCADN
141	OFFICE	Applied Nutrition Research (ANR)– Lefevre	Sheryl Aguilar	DPCADN
142	OFFICE	Applied Nutrition Research (ANR)– Lefevre	Vacant	DPCADN

143	OFFICE	Applied Nutrition Research (ANR)– Lefevre	Nancie Hergert	DPCADN
144	OFFICE	Applied Nutrition Research (ANR)– Lefevre	Lars Bergeson	DPCADN
145	OFFICE	Applied Nutrition Research (ANR)– Lefevre	Clinical Studies Staff	DPCADN
146	OFFICE	Applied Nutrition Research (ANR)– Lefevre	Janet Bergeson	DPCADN
147	Phlebotomy Lab	Applied Nutrition Research (ANR)– Lefevre	N/A	DPCADN
148	RESTROOM	Applied Nutrition Research (ANR)– Lefevre	N/A	000000
149	OFFICE SERVICE	Applied Nutrition Research (ANR)– Lefevre	N/A	DPCADN
150	WAITING ROOM	Applied Nutrition Research (ANR)– Lefevre	N/A	DPCADN
151	CONFERENCE ROOM	Common – Provost	N/A	DPPROV
152	LOBBY	N/A	N/A	000000
154	INTERVIEW	Applied Nutrition Research (ANR)– Lefevre	N/A	DPCADN
155	EXAM	Applied Nutrition Research (ANR)– Lefevre	N/A	DPCADN
156	EXAM	Applied Nutrition Research (ANR)– Lefevre	N/A	DPCADN
157	EXAM	Applied Nutrition Research (ANR)– Lefevre	N/A	DPCADN
158	CONFERENCE	Common – Provost	N/A	DPPROV
158A	CONFERENCE	Common – Provost	N/A	DPPROV
158B	STORAGE	Common – Provost	N/A	DPPROV
159	DINING	Applied Nutrition Research (ANR)– Lefevre	N/A	DPCADN
159A	MEN	N/A	N/A	000000
159B	WOMEN	N/A	N/A	000000
160	KITCHEN	Applied Nutrition Research (ANR)– Lefevre	N/A	DPCADN
160B	STORAGE	Applied Nutrition Research (ANR)– Lefevre	N/A	DPCADN
160C	OFFICE	Applied Nutrition Research (ANR)– Lefevre	N/A	DPCADN
160D	RESTROOM	Applied Nutrition Research (ANR)– Lefevre	N/A	DPCADN
160E	LOCKERROOM	Applied Nutrition Research (ANR)– Lefevre	N/A	DPCADN
200I	LOBBY	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
200J	LOBBY	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
200L	ELEVATOR	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
200O	Elevator	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
200P	ANIMAL FACILITIES SERVICE	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
200R	HALL	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
201	SOUND BOOTH	ThermoFisher - Vargis	N/A	DPVPRS
202	BIO INFORMATION	ThermoFisher - Vargis	N/A	DPVPRS

203	FREEZER ROOM	Core Shared Rooms	N/A	?
204	WET LAB	VDID - Lee / Spider Silk Group - Lewis	N/A	DPVPRS
	Bay A	Spider Silk – Lewis	N/A	DPBIOL
	Bay B	Spider Silk – Lewis	N/A	DPBIOL
	Bay C	Spider Silk – Lewis	N/A	DPBIOL
	Bay D	Spider Silk – Lewis	N/A	DPBIOL
	Bay E	Spider Silk – Lewis	N/A	DPBIOL
	Bay F	VDID - Lee / Spider Silk Group - Lewis	N/A	DPVPRS
	Bay G	Veterinary Diagnostics and Infectious Disease (VDID) – Lee	N/A	DPADVS
	Bay H	Veterinary Diagnostics and Infectious Disease (VDID) – Lee	N/A	DPADVS
	Bay J	Veterinary Diagnostics and Infectious Disease (VDID) – Lee	N/A	DPADVS
	Bay K	Spider Silk – Lewis	N/A	DPADVS
	Bay L	Spider Silk – Lewis	N/A	DPADVS
	Bay M	Spider Silk – Lewis	N/A	DPADVS
	Bay N	VDID - Lee / Spider Silk Group - Lewis	N/A	DPVPRS
	Bay P	Veterinary Diagnostics and Infectious Disease (VDID) – Lee	N/A	DPBIOL
	Bay Q	Veterinary Diagnostics and Infectious Disease (VDID) – Lee	N/A	DPBIOL
	Bay R	Veterinary Diagnostics and Infectious Disease (VDID) – Lee	N/A	DPBIOL
204A	AUTO CLAVE	Core Shared Rooms	N/A	DPPROV
204B	CENTRAL STORAGE	Core Shared Rooms	N/A	DPPROV
204C	CONT. TEMPERATURE ROC	Veterinary Diagnostics and Infectious Disease (VDID) – Lee	N/A	DPADVS
204D	HOOD ALCOVE	Spider Silk – Lewis	N/A	DPBIOL
204E	CON. MICRO	Spider Silk – Lewis	N/A	DPBIOL
204F	CON. MICRO	Spider Silk – Lewis	N/A	DPBIOL
204G	IMAGING MICRO	Spider Silk – Lewis	N/A	DPBIOL
204H	IMAGING MICRO	Spider Silk – Lewis	N/A	DPBIOL
204J	RESEARCH/NON-CLASS LAI	Spider Silk – Lewis	N/A	DPBIOL
204K	RESEARCH/NON-CLASS LAI	Core Shared Rooms	N/A	DPPROV
204L	RESEARCH/NON-CLASS LAI	Core Shared Rooms	N/A	DPPROV
204M	RESEARCH/NON-CLASS LAI	Veterinary Diagnostics and Infectious Disease (VDID) – Lee	N/A	DPADVS
204N	RESEARCH/NON-CLASS LAI	Veterinary Diagnostics and Infectious Disease (VDID) – Lee	N/A	DPADVS
204O	RESEARCH/NON-CLASS LAI	Veterinary Diagnostics and Infectious Disease (VDID) – Lee	N/A	DPADVS
204P	HOOD ALCOVE	Veterinary Diagnostics and Infectious Disease (VDID) – Lee	N/A	DPADVS

204Q	CLASS LABORATORY SERVICE	Spider Silk – Lewis	N/A	DPBIOL
205	CUBICLES	VDID - Lee / Spider Silk	N/A	DPVPRS
	Cubical S	Spider Silk – Lewis	N/A	DPBIOL
	Cubical T	Veterinary Diagnostics and Infectious Disease (VDID) – Lee	N/A	DPADVS
	Cubical U	Spider Silk – Lewis	N/A	DPBIOL
	Cubical V	Veterinary Diagnostics and Infectious Disease (VDID) – Lee	N/A	DPADVS
205A	STORAGE	Electrical and Computer Engineering - Hinton	N/A	DPEECE
205B	CONFERENCE	Common – Provost	N/A	DPPROV
205C	OFFICE	Electrical and Computer Engineering - Hinton	H. Scott Hinton	DPEECE
205D	OFFICE	Spider Silk – Lewis	Justin Jones	DPBIOL
205E	CONFERENCE	Common – Provost	N/A	DPPROV
205F	FAX	Common – Provost	N/A	DPPROV
205G	OFFICE	Spider Silk – Lewis	Randolph Lewis	DPBIOL
205H	OFFICE	Spider Silk – Lewis	Paula Farias-EOliveira	DPBIOL
205I	OFFICE	Spider Silk – Lewis	Fernando Agarraberes	DPBIOL
205J	OFFICE	Veterinary Diagnostics and Infectious Disease (VDID) – Lee	Byunghak Song	DPADVS
205K	OFFICE	Veterinary Diagnostics and Infectious Disease (VDID) – Lee	Sang-Im Yun	DPADVS
205L	OFFICE	Veterinary Diagnostics and Infectious Disease (VDID) – Lee	Young-Min Lee	DPADVS
205M	OFFICE	Institute for Anti-viral Research (IAR) - Morrey	Luci Wandersee	DPADVS
205N	OFFICE	ThermoFisher - Vargis Grad Student Office	Vargis Grad Student Office	DPVPRS
206	BREAK ROOM	Common – Provost	N/A	DPPROV
207	LOUNGE	Common – Provost	N/A	DPPROV
210	WOMEN	N/A	N/A	000000
211	MEN	N/A	N/A	000000
212	DATA	N/A	N/A	000000
213	LARC RECEPTION	Laboratory Animal Research Center (LARC) – Olsen	?	DPLARC
213A	OFFICE	Laboratory Animal Research Center (LARC) – Olsen	Lisa DeSoi	DPLARC
213B	OFFICE	Laboratory Animal Research Center (LARC) – Olsen	Aaron Olsen	DPLARC
213C	COMMUNICATIONS CLOSURE	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
213D	OFFICE	Laboratory Animal Research Center (LARC) – Olsen	?	DPLARC
214	MEN	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
214C	JANITOR	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
215	WOMEN	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC

215B	LOCKER	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
216	BREAK ROOM	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
217	STORAGE	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
218	JANITOR	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
220	PRE-LAB	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
220A	LAB	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
220B	OR	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
220C	OR	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
220D	LAB	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
220E	STORAGE	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
220F	SUPPLY	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
220G	LAB	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
220H	LAB	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
221	BREEDING	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
221A	TEST	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
221B	BREEDING	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
221C	BREEDING	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
222	LAB SERVICE	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
222A	AHR	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
222B	AHR	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
222C	AHR	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
222D	TESTING	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
222E	AHR	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
222F	AHR	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
222G	AHR	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
223	AHR	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
223A	AHR	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
223B	AHR	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
223C	TESTING	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
223D	AHR	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
223E	STORAGE	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
223F	AHR	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
223G	AHR	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC

223H	AHR	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
223I	AHR	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
224	LAB SERVICE	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
224A	AHR	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
224B	AHR	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
224C	TESTING	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
224D	AHR	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
224E	AHR	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
225	LAB SERVICE	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
225A	AHR	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
225B	AHR	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
225C	AHR	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
225D	AHR	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
225E	STORAGE	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
225F	AHR	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
225G	AHR	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
225H	AHR	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
225I	AHR	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
300I	LOBBY	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
300J	ELEVATOR	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
300K	HALL	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
300L	STAIRS	N/A	N/A	000000
300M	HALL	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
300N	VESTIBULE	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
300O	LOBBY	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
300P	ELEVATOR	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
300R	HALL	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
300T	VESTIBULE	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
301	LAB	Unassigned Area	N/A	DPPROV
302	DARK ROOM	Core Shared Rooms	N/A	DPPROV
303	FREEZERS	Core Shared Rooms	N/A	DPPROV
304	WET LAB	Psychology – Buhusi, VDID – Wang, ANR– Lefevre	N/A	DPVPRS
	Bay A	Psychology – Buhusi	N/A	DPPSYC

	Bay B	Psychology – Buhusi	N/A	DPPSYC
	Bay C	Psychology – Buhusi	N/A	DPPSYC
	Bay D	Unassigned Area	N/A	DPPROV
	Bay E	Veterinary Diagnostics and Infectious Disease (VDID) – Wa	N/A	DPADVS
	Bay F	Veterinary Diagnostics and Infectious Disease (VDID) – Wa	N/A	DPADVS
	Bay G	VDID - Wang / ANR	N/A	DPADVS
	Bay H	Applied Nutrition Research (ANR)– Lefevre	N/A	DPCADN
	Bay J	Applied Nutrition Research (ANR)– Lefevre	N/A	DPCADN
	Bay K	Psychology – Buhusi	N/A	DPPSYC
	Bay L	Psychology – Buhusi	N/A	DPPSYC
	Bay M	VDID - Wang	N/A	DPADVS
	Bay N	Veterinary Diagnostics and Infectious Disease (VDID) – Wa	N/A	DPADVS
	Bay P	VDID - Wang / ANR	N/A	DPVPRS
	Bay Q	Applied Nutrition Research (ANR)– Lefevre	N/A	DPCADN
	Bay R	Applied Nutrition Research (ANR)– Lefevre	N/A	DPCADN
304A	LAB	Veterinary Diagnostics and Infectious Disease (VDID) – Wa	N/A	DPADVS
304B	LAB	Applied Nutrition Research (ANR)– Lefevre	N/A	DPCADN
304C	LAB	Core Shared Rooms	N/A	DPPROV
304D	LAB	Psychology – Buhusi, ANR– Lefevre	N/A	DPPSYC
304E	LAB	Core Shared Rooms	N/A	DPPROV
304F	LAB	Psychology – Buhusi	N/A	DPPSYC
304G	LAB	Unassigned Area	N/A	DPPROV
304H	LAB	Unassigned Area	N/A	DPPROV
304I	HOOD	Core Shared Rooms	N/A	DPPROV
304J	LAB	Core Shared Rooms	N/A	DPPROV
304K	LAB	Psychology – Buhusi	N/A	DPPSYC
304L	LAB	Psychology – Buhusi	N/A	DPPSYC
304M	LAB	50:50 ANR-Lefevre & VDID-Wang	N/A	DPBIOL
304N	LAB	Veterinary Diagnostics and Infectious Disease (VDID) – Wa	N/A	DPBIOL
304O	LAB	50:50 ANR-Lefevre & VDID-Wang	N/A	DPBIOL
304P	HOOD	Applied Nutrition Research (ANR) – Lefevre	N/A	DPBIOL
305	CUBICLES	Psychology & EPSCoR	N/A	DPPSYC
	Cubical S	Psychology – Buhusi	?	DPPSYC

	Cubical T	Unassigned Area	?	DPPROV
	Cubical U	Psychology – Buhusi	?	DPPSYC
	Cubical V	Experimental Program to Stimulate Competitive Research (EPSCoR) – Baker	Areg Haytayan	DPVPRS
305A	STORAGE	Experimental Program to Stimulate Competitive Research (EPSCoR) – Baker	N/A	DPVPRS
305B	CONFERENCE	Common – Provost	N/A	DPPROV
305C	OFFICE	Experimental Program to Stimulate Competitive Research (EPSCoR) – Baker	Michelle Baker	DPVPRS
305D	OFFICE	Experimental Program to Stimulate Competitive Research (EPSCoR) – Baker	Andreas Leidolf / Terra Huff	DPVPRS
305E	CONFERENCE	Common – Provost	N/A	DPPROV
305F	COPY	Common – Provost	N/A	DPPROV
305G	OFFICE	Applied Nutrition Research (ANR)– Lefevre	Michael Lefevre	DPCADN
305H	OFFICE	Applied Nutrition Research (ANR)– Lefevre	Vacant	DPCADN
305I	OFFICE	Experimental Program to Stimulate Competitive Research (EPSCoR) – Baker	Mark Brunson / Jennine Huener	DPVPRS
305J	OFFICE	Veterinary Diagnostics and Infectious Disease (VDID) – Wa	Sang Lee	DPADVS
305K	OFFICE	Veterinary Diagnostics and Infectious Disease (VDID) – Wa	Zhongde Wang	DPADVS
305L	OFFICE	Unassigned Area	?	DPPROV
305M	OFFICE	Psychology – Buhusi	Mona Buhusi	DPPSYC
305N	OFFICE	Psychology – Buhusi	Catalin Buhusi	DPPSYC
306	BREAK ROOM	Common – Provost	N/A	DPPROV
307	LOUNGE	Common – Provost	N/A	DPPROV
310	WOMEN	N/A	N/A	000000
311	MEN	N/A	N/A	000000
312	DATA	N/A	N/A	000000
313	LOCKER	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
314	LOCKER	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
315	STORAGE	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
315A	STORAGE	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
316	STORAGE	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC

318	STORAGE	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
318A	SHOWER	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
318B	SHOWER	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
318C	SHOWER	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
319	LAB	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
320	LAB	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
321	LAB	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
322	LAB	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
323	LAB	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
324	LAB	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
325	LAB	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
326	JANITOR	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC
327	LAB	Laboratory Animal Research Center (LARC) – Olsen	N/A	DPLARC

(Attachment II.1)

650 Building Researcher Contacts

PI Vivarium

Aaron Olsen

LARC

Aaron.olsen@usu.edu

435-797-8141

435-881-7763

Lab Manger Vivarium

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LARC

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804-503-5027

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Vivarium Contact

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Biological Engineering

Working in the ThermoFisher Lab

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PI

Catalin Buhusi

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919-270-1772

PI

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Psychology

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435-797-8974

PI – Assistant for the Buhusi's

Alexander Matthews

Psychology

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315-430-8477

PI

Michelle Baker

EPSCoR

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435-797-0886

PI – Assistant for EPSCoR

Andreas Leidolf

EPSCoR

Andreas.leidolf@usu.edu

435-797-1612

Description3	Confirmation
LOBBY	Confirmed via Olsen on 2/19/16
ANIMAL FACILITIES	Confirmed via Olsen on 2/19/16
ANIMAL FACILITIES SERVICE	Confirmed via Olsen on 2/19/16
ANIMAL FACILITIES SERVICE	Confirmed via Olsen on 2/19/16
ANIMAL FACILITIES SERVICE	Confirmed via Olsen on 2/19/16
ANIMAL FACILITIES SERVICE	Confirmed via Olsen on 2/19/16
LOBBY	Confirmed via Olsen on 2/19/16
ANIMAL FACILITIES SERVICE	Confirmed via Olsen on 2/19/16
ANIMAL FACILITIES SERVICE	Confirmed via Olsen on 2/19/16
ANIMAL FACILITIES SERVICE	Confirmed via Olsen on 2/19/16
STORAGE	Confirmed via Monica Lewis on 5/3/16
ANIMAL FACILITIES SERVICE	Confirmed via Olsen on 2/19/16
ANIMAL FACILITIES SERVICE	Confirmed via Olsen on 2/19/16
DIAGNOSTIC SERVICE LABORATORY	Confirmed via Olsen on 2/19/16
LOADING DOCK	Confirmed via Olsen on 2/19/16
ANIMAL FACILITIES SERVICE	Confirmed via Olsen on 2/19/16
ANIMAL FACILITIES SERVICE	Confirmed via Olsen on 2/19/16

ANIMAL FACILITIES SERVICE	Confirmed via Olsen on 2/19/16
CENTRAL STORAGE	No confirmation needed
ANIMAL FACILITIES	Confirmed via Olsen on 2/19/16
ANIMAL FACILITIES	Confirmed via Olsen on 2/19/16
ANIMAL FACILITIES	Confirmed via Olsen on 2/19/16
ANIMAL FACILITIES	Confirmed via Olsen on 2/19/16
ANIMAL FACILITIES	Confirmed via Olsen on 2/19/16
ANIMAL FACILITIES	Confirmed via Olsen on 2/19/16
ANIMAL FACILITIES	Confirmed via Olsen on 2/19/16
ANIMAL FACILITIES SERVICE	Confirmed via Olsen on 2/19/16
ANIMAL FACILITIES	Confirmed via Olsen on 2/19/16
ANIMAL FACILITIES SERVICE	Confirmed via Olsen on 2/19/16
ANIMAL FACILITIES SERVICE	Confirmed via Olsen on 2/19/16
ANIMAL FACILITIES SERVICE	Confirmed via Olsen on 2/19/16
ANIMAL FACILITIES SERVICE	Confirmed via Olsen on 2/19/16
ANIMAL FACILITIES SERVICE	Confirmed via Olsen on 2/19/16
ANIMAL FACILITIES SERVICE	Confirmed via Olsen on 2/19/16
RESEARCH/NON-CLASS LAB SERVICE	Confirmed via Olsen on 2/19/16
RESEARCH/NON-CLASS LAB SERVICE	Confirmed via Olsen on 2/19/16
RESEARCH/NON-CLASS LAB SERVICE	Confirmed via Olsen on 2/19/16
RECYCLING	No confirmation needed
OFFICE SERVICE	Confirmed via Skousen 4/5/16
BUILDING SERVICE AREA	No confirmation needed
MECHANICAL AREA	No confirmation needed
PUBLIC RESTROOM	No confirmation needed
PUBLIC RESTROOM	No confirmation needed
FOOD FACILITY SERVICE	Confirmed via Lefevre on 2/29/16
CLINIC	Confirmed via Lefevre on 2/29/16
CLINIC	Confirmed via Lefevre on 2/29/16
OFFICE	Confirmed via Lefevre on 2/29/16
OFFICE	Confirmed via Lefevre on 2/29/16
OFFICE	Confirmed via Lefevre on 2/29/16

OFFICE	Confirmed via Lefevre on 2/29/16
OFFICE	Confirmed via Lefevre on 2/29/16
OFFICE	Confirmed via Lefevre on 2/29/16
OFFICE	Confirmed via Lefevre on 2/29/16
CLINIC	Confirmed via Lefevre on 2/29/16
CLINIC SERVICE	Confirmed via Lefevre on 2/29/16
OFFICE SERVICE	Confirmed via Lefevre on 2/29/16
CLINIC SERVICE	Confirmed via Lefevre on 2/29/16
CONFERENCE ROOM	Confirmed via Skousen 4/5/16
LOBBY	No confirmation needed
CLINIC	Confirmed via Lefevre on 2/29/16
CLINIC	Confirmed via Lefevre on 2/29/16
CLINIC	Confirmed via Lefevre on 2/29/16
CLINIC	Confirmed via Lefevre on 2/29/16
CONFERENCE ROOM	Confirmed via Skousen 4/5/16
CONFERENCE ROOM	Confirmed via Skousen 4/5/16
CONFERENCE ROOM SERVICE	Confirmed via Skousen 4/5/16
FOOD FACILITY	Confirmed via Lefevre on 2/29/16
PUBLIC RESTROOM	No confirmation needed
PUBLIC RESTROOM	No confirmation needed
FOOD FACILITY SERVICE	Confirmed via Lefevre on 2/29/16
FOOD FACILITY SERVICE	Confirmed via Lefevre on 2/29/16
OFFICE	Confirmed via Lefevre on 2/29/16
FOOD FACILITY SERVICE	Confirmed via Lefevre on 2/29/16
FOOD FACILITY SERVICE	Confirmed via Lefevre on 2/29/16
LOBBY	Confirmed via Olsen on 2/19/16
LOBBY	Confirmed via Olsen on 2/19/16
ELEVATOR	Confirmed via Olsen on 2/19/16
ELEVATOR	Confirmed via Olsen on 2/19/16
ANIMAL FACILITIES SERVICE	Confirmed via Olsen on 2/19/16
ANIMAL FACILITIES SERVICE	Confirmed via Olsen on 2/19/16
RESEARCH/NON-CLASS LAB	Program confirmed via McCabe.
RESEARCH/NON-CLASS LAB	Program confirmed via McCabe.

RESEARCH/NON-CLASS LAB SERVICES Houses freezers used by both groups in the 204 lab (VDID and Spider Silk).

RESEARCH/NON-CLASS LAB Confirmed via Lewis on 2/15/16, Confirmed via Lee on 3/7/16

RESEARCH/NON-CLASS LAB Confirmed via Lewis on 2/15/16

RESEARCH/NON-CLASS LAB Confirmed via Lewis on 2/15/16, Confirmed via Lee on 3/7/16

RESEARCH/NON-CLASS LAB Changed to match floorplan, confirmed via Lewis on 2/15/16, confirmed via Lee 3/7/16

RESEARCH/NON-CLASS LAB Changed to match floorplan, confirmed via Lewis on 2/15/16, confirmed via Lee 3/7/16

RESEARCH/NON-CLASS LAB Changed to match floorplan, confirmed via Lewis on 2/15/16, confirmed via Lee 3/7/16

RESEARCH/NON-CLASS LAB Confirmed via Lewis on 2/15/16, confirmed via Lee on 3/7/16

RESEARCH/NON-CLASS LAB Changed to match floorplan, confirmed via Lewis on 2/15/16, confirmed via Lee 3/7/16

RESEARCH/NON-CLASS LAB Changed to match floorplan, confirmed via Lewis on 2/15/16, confirmed via Lee 3/7/16

RESEARCH/NON-CLASS LAB Changed to match floorplan, confirmed via Lewis on 2/15/16, confirmed via Lee 3/7/16

RESEARCH/NON-CLASS LAB SERVICES Confirmed with Andi on 4/21/16.

RESEARCH/NON-CLASS LAB SERVICES Confirmed with Andi on 4/21/16.

RESEARCH/NON-CLASS LAB Confirmed via Lee on 3/7/16

RESEARCH/NON-CLASS LAB SERVICES Confirmed via Lewis on 2/15/16

RESEARCH/NON-CLASS LAB Confirmed via Lewis on 2/15/16

RESEARCH/NON-CLASS LAB Confirmed with Andi on 4/21/16.

RESEARCH/NON-CLASS LAB Confirmed with Andi on 4/21/16.

RESEARCH/NON-CLASS LAB Confirmed via Lee on 3/7/16

RESEARCH/NON-CLASS LAB	Confirmed via Lewis on 2/15/16
OFFICE	Confirmed via Lewis on 2/15/16, Confirmed via Lee on 3/7/16
OFFICE	Confirmed via Lewis on 2/15/16
OFFICE	Confirmed via Lee on 3/7/16
OFFICE	Confirmed via Lewis on 2/15/16
OFFICE	Confirmed via Lee on 3/7/16
OFFICE SERVICE	Confirmed via McCabe 4/5/16
CONFERENCE ROOM	Confirmed via Skousen 4/5/16
OFFICE	Confirmed via McCabe 4/5/16
OFFICE	Confirmed via Lewis on 2/15/16
CONFERENCE ROOM	Confirmed via Skousen 4/5/16
OFFICE SERVICE	Confirmed via Skousen 4/5/16
OFFICE	Confirmed via Lewis on 2/15/16
OFFICE	Confirmed via Lewis on 2/15/16
OFFICE	Confirmed via Lewis on 2/15/16
OFFICE	Confirmed via Lee on 3/7/16
OFFICE	Confirmed via Lee on 3/7/16
OFFICE	Confirmed via Lee on 3/7/16
OFFICE	Confirmed via Morrey on 3/2/16
OFFICE	Confirmed via McCabe 4/5/16
OFFICE SERVICE	Confirmed via Skousen 4/5/16
Lounge	Confirmed via Skousen 4/5/16
PUBLIC RESTROOM	No confirmation needed
PUBLIC RESTROOM	No confirmation needed
UTILITY/MECHANICAL SPACE	No confirmation needed
LARC OFFICE	Confirmed via Olsen on 2/19/16
OFFICE	Confirmed via Olsen on 2/19/16
OFFICE	Confirmed via Olsen on 2/19/16
UTILITY/MECHANICAL SPACE	Confirmed via Olsen on 2/19/16, used for computers supporting vivarium equipment
OFFICE	Confirmed via Olsen on 2/19/16
LARC RESTROOM	Confirmed via Olsen on 2/19/16
LARC JANITOR ROOM	Confirmed via Olsen on 2/19/16
LARC RESTROOM	Confirmed via Olsen on 2/19/16

ANIMAL FACILITIES SERVICE	Confirmed via Olsen on 2/19/16
ANIMAL FACILITIES SERVICE	Confirmed via Olsen on 2/19/16
ANIMAL FACILITIES SERVICE	Confirmed via Olsen on 2/19/16
ANIMAL FACILITIES SERVICE	Confirmed via Olsen on 2/19/16
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ANIMAL FACILITIES SERVICE	Confirmed via Olsen on 2/19/16
ANIMAL FACILITIES SERVICE	Confirmed via Olsen on 2/19/16
LOBBY	Confirmed via Olsen on 2/19/16
ELEVATOR	Confirmed via Olsen on 2/19/16
ANIMAL FACILITIES SERVICE	Confirmed via Olsen on 2/19/16
STAIRWAY	No confirmation needed
ANIMAL FACILITIES SERVICE	Confirmed via Olsen on 2/19/16
ANIMAL FACILITIES SERVICE	Confirmed via Olsen on 2/19/16
LOBBY	Confirmed via Olsen on 2/19/16
ELEVATOR	Confirmed via Olsen on 2/19/16
ANIMAL FACILITIES SERVICE	Confirmed via Olsen on 2/19/16
ANIMAL FACILITIES SERVICE	Confirmed via Olsen on 2/19/16
RESEARCH/NON-CLASS LAB	Confirmed via McCabe 4/5/16
RESEARCH/NON-CLASS LAB SERVICE	Confirmed via Monica Lewis on 3/3/16.
RESEARCH/NON-CLASS LAB SERVICE	Confirmed via Lefevre on 2/29/16.
RESEARCH/NON-CLASS LAB	Confirmed via Buhusi on 2/18/16, Confirmed via Lefevre on 2/29/16
RESEARCH/NON-CLASS LAB	Confirmed via Buhusi on 2/18/16

RESEARCH/NON-CLASS LAB	Confirmed via Buhusi on 2/18/16
RESEARCH/NON-CLASS LAB	Confirmed via Buhusi on 2/18/16
RESEARCH/NON-CLASS LAB	What DP code should be associated with this room?
RESEARCH/NON-CLASS LAB	Confirmed via Wang on 3/2/16
RESEARCH/NON-CLASS LAB	Confirmed via Wang on 3/2/16
RESEARCH/NON-CLASS LAB	Confirmed via Wang on 3/2/16
RESEARCH/NON-CLASS LAB	Confirmed via Lefevre on 2/29/16
RESEARCH/NON-CLASS LAB	Confirmed via Lefevre on 2/29/16
RESEARCH/NON-CLASS LAB	Confirmed via Buhusi on 2/18/16
RESEARCH/NON-CLASS LAB	Confirmed via Buhusi on 2/18/16
RESEARCH/NON-CLASS LAB	Confirmed via Wang on 3/2/16
RESEARCH/NON-CLASS LAB	Confirmed via Wang on 3/2/16
RESEARCH/NON-CLASS LAB	Confirmed via Lefevre on 2/29/16
RESEARCH/NON-CLASS LAB	Confirmed via Lefevre on 2/29/16
RESEARCH/NON-CLASS LAB	Confirmed via Wang on 3/2/16
RESEARCH/NON-CLASS LAB	Confirmed via Lefevre on 2/29/16
RESEARCH/NON-CLASS LAB	Confirmed with Andi on 4/21/16.
RESEARCH/NON-CLASS LAB	Confirmed via Lefevre on 2/29/16
RESEARCH/NON-CLASS LAB	Confirmed with Andi on 4/21/16.
RESEARCH/NON-CLASS LAB	Confirmed via Buhusi on 2/18/16
RESEARCH/NON-CLASS LAB	Confirmed via McCabe 4/5/16
RESEARCH/NON-CLASS LAB	Confirmed via McCabe 4/5/16
RESEARCH/NON-CLASS LAB SERVICE	Confirmed with Andi on 4/21/16.
RESEARCH/NON-CLASS LAB	Confirmed with Andi on 4/21/16.
RESEARCH/NON-CLASS LAB	Confirmed via Buhusi on 2/18/16
RESEARCH/NON-CLASS LAB	Confirmed via Buhusi on 2/18/16
RESEARCH/NON-CLASS LAB	Confirmed via Lefevre on 2/29/16
RESEARCH/NON-CLASS LAB	Confirmed via Lefevre on 2/29/16
RESEARCH/NON-CLASS LAB	Confirmed via Lefevre on 2/29/16
RESEARCH/NON-CLASS LAB	Confirmed via Lefevre on 2/29/16
OFFICE	Confirmed via Baker on 2/12/16, confirmed, confirmed via Wang on 3/2/16
OFFICE	Confirmed via Buhusi on 2/18/16

OFFICE	
OFFICE	Confirmed via Buhusi on 2/18/16
OFFICE	Confirmed via Baker on 2/12/16
OFFICE SERVICE	Confirmed via Baker on 2/12/16
CONFERENCE ROOM	Confirmed via Skousen 4/5/16
OFFICE	Confirmed via Baker on 2/12/16
OFFICE	Confirmed via Baker on 2/12/16
CONFERENCE ROOM	Confirmed via Skousen 4/5/16
OFFICE SERVICE	Confirmed via Skousen 4/5/16
OFFICE	Confirmed via Lefevre on 2/29/16
OFFICE	Confirmed via Lefevre on 2/29/16
OFFICE	Confirmed via Baker on 2/12/16
OFFICE	Confirmed via Wang on 3/2/16
OFFICE	Confirmed via Wang on 3/2/16
OFFICE	Confirmed via McCabe 4/5/16
OFFICE	Confirmed via Buhusi on 2/18/16
OFFICE	Confirmed via Buhusi on 2/18/16
OFFICE SERVICE	Confirmed via Skousen 4/5/16
Lounge	Confirmed via Skousen 4/5/16
PUBLIC RESTROOM	No confirmation needed
PUBLIC RESTROOM	No confirmation needed
UTILITY/MECHANICAL SPACE	No confirmation needed
ANIMAL FACILITIES SERVICE	Confirmed via Olsen on 2/19/16
ANIMAL FACILITIES SERVICE	Confirmed via Olsen on 2/19/16
ANIMAL FACILITIES SERVICE	Confirmed via Olsen on 2/19/16
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ANIMAL FACILITIES SERVICE	Confirmed via Olsen on 2/19/16
ANIMAL FACILITIES	Confirmed via Olsen on 2/19/16

Source: UofU Excel File: "USTAR FY16 Building Report"

FY16 Nanofab On-Campus PIs

Anderson, Scott	Mohanty, Swomitra
Bachus, Kent	Nahata, Ajay
Bae, You Han	Nash, Barbara
Balaji, A.K.	Ostafin, Agnes
Belnap, David	Park, Keunhan
Blair, Steve	Phillips, John
Boehme, Christoph	Porter, Marc
Bordelon, Amanda	Prestwich, Glenn
Brunelle, Andrea	Raeymaekers, Bart
Carrell, Doug	Rieth, Loren
Chandran, Ravi	Ring, Terry
Chang, Jiyoung	Rosenblatt, Jody
Czabaj, Michael	Roundy, Shadrach
Deans, Tara	Saffarian, Saveez
Deo, Milind	Saouma, Caroline
Deshpande, Vikram	Scarpulla, Michael
Eddings, Eric	Sensale-Rodriguez, Berardi
Fang, Zak	Shetty, Dinesh
Fernandez, Diego	Shumaker-Parry, Jennifer
Francoeur, Mathieu	Smith, Philip
Free, Michael	Sohn, H.Y.
Fry, Andrew	Solzbacher, Florian
Gaillardon, Pierre-Emmanuel	Sparks, Taylor
Gale, Bruce	Spear, Ashley
Ghandehari, Hamid	Stang, Peter
Grainger, David	Stewart, Russell
Harvey, Ian	Sundquist, Wesley
Heemstra, Jennifer	Tabib-Azar, Massood

Hoepfner, Michael
Hotaling, Jim
Irmis, Randall
Jevremovic, Tatjana
Jones, Greg
Kelly, Kerry
Kim, Hanseup
Kim, Sun Wan
Kopecek, Jindrich
Leang, Kam
Li, Sarah
Liu, Feng
Looper, Ryan
Louderback, Lisbeth
Louie, Janis
Mastrangelo, Carlos
McDonald, Luther
Menon, Rajesh
Minteer, Shelley
Misra, Mano

Tan, Wenda
Tathireddy, Prashant
Tiwari, Ashutosh
Tresco, Patrick
Trujillo, Edward
Vardeny, Zeev Valy
Virkar, Anil
Warren, David
Warren, Roseanne
Weiss, Jeff
Werner, Liliana
White, Henry
Whittaker-Brooks, Luisa
Whitty, Kevin
Williams, Clayton
Wittwer, Carl
Yoon, Heayoung
Young, Darin
Yu, Michael
Zang, Ling

PIs

3DSIM LLC
5N Plus Semiconductors
Amedica
Aqua Yield
ASTS
Attostat
Bard Access
BD Dental
Benergy LLC
Blackrock

Lumos Imaging Inc
Maxtec
Merit Medical
Merit Sensor Systems
ML3 Scientific
Moxtek
MSRI
New Path Research
Orbital ATK
Ortho Development

Boise State University	Precision Membranes
BYU Physics/Chemistry	Reaction Engineering International
CAO Group	Seerstone
Catheter Connections	SLCC
Ceramatec	Spectra Symbol
CoorsTek	Synchronicity Microfluidics
Diamond Analytics	T.D. Williamson
E-SENS	Ultradent
EmiSense	Utah State University
Fuze Fiber	Veteran's Affairs
Group VIII	Varian Medical Systems
HiFunda LLC	Wasatch Microfluidics
H ₂ O, Inc.	Westinghouse Electric Co
James Stanfield Off-Campus	

FY16 Electron Microscope Users Pis

Scripps Clinic	Josh Leitch Bonkowsky
Tricore	Julie Korenberg
Aqua Yield	Jun Yang
Huntsman Corporation	June Round
Adam Frost	Kelly Hughes
Agnes Ostafin	Ken Spitzer
Almut Vollmer Utah State Universit	Kenneth Woycechowsky
Andrea Bild	Kim O'Neill Brigham Young University
Andy Weyrich	Mark Daniel University of Virginia
Anil Virkar	Megan Williams
Anthea Letsou	Micah Drummond
Barry Willardson Brigham Young Ur	Michael Barber
Bradley Cairns	Michael Yu
Brenda L Bass	Mike Dahlby Benergy
Brittany Coats	Milind Deo

Bruce Gale	Monica Vetter
Carol von Dohlen Utah State Univer	Nabil Youssef Terrah Tek
Christopher Hill	Oleksandr Shcheglovitov
David Grainger	Olga Baker
Dean Li	Otakuye Conroy-Ben
Edward Hsu	Peter Shen
Electron Microscopy ARUP	Primary Childrens Medical Center
Elizabeth Leibold	Russell Stewart
Erhu Cao	Saint Johns
Erik Jorgensen	Saveez Saffarian
Glenn Prestwich	Sherwood Casjens
Hamidreza Ghandehari	Sungjin Park
Ilya Zharov	Susan Bock
Jan Miller	Theodore Liou
Jared Rutter	Trudy Oliver
Jason Shepherd	Wesley Sundquist
Jayant Agarwal	William Niedermeyer Attostat
Jennifer Shumaker-Parry	You Bae
Jon Rainier	

FY16 Small Animal Imaging Users PIs

Adam Huttenlocker	Julia Clarke University of Texas-Austin
Agnes Ostafin	Julie Korenberg
Alexey Zaitsev	Ken Monson
Brooks Britt Brigham Young Univer	Kevin B. Jones
Colleen Farmer	Kevin Brennan
Dean Li	Kevin Whitehead
Donna Cross	Lindsey Cahoon Brigham Young University
Ed Dudek	Lindsey Reader
Edward Hsu	Mark Ratcliffe University of California-San Francisco
Franz Goller	Michael Kimball Actavis Laboratories

Hamidreza Ghandehari	Michael Shapiro
Helena Safavi-Hemami	Michael Yu
Jan Christian	Ravi Ranjan
Jeff Mason Utah State University	Robert Askin HZO
Jeffrey Ekstrand	Sheri Holmen
Jeffrey Yap	Thomas Miller
Jindrich Kopecek	Tobias Riede
Josh Leitch Bonkowsky	Yan-Ting Shiu
Joshua Lively University of Texas-Austin	

Source: USU document "Attachment II.2 Building 650 Business Contacts FY16"

650 Building Business Contacts

William Jenkins
Vice President, Real Estate Americas
ThermoFisher Scientific Inc.
168 Third Avenue
Waltham, MA 02451
(781) 622-1000
www.thermofisher.com

Elizabeth Vargis
Department of Biological Engineering
4105 Old Main Hill
Logan, UT 84322-4105
(435) 797-0618
Elizabeth.vargis@usu.edu
Working in the ThermoFisher Lab in Building 650

UofU Spreadsheet "USTAR FY16 Building Report"

University of Utah
FY 2016
USTAR Research Building
2. Private Entities

T3S Technologies, Incorporated - Dan

Wee

BioUtah - Kelly Sloan

Source: Text

quoted below from USU Document "USTAR Report FY16"

Amount charged for use of the USTAR Building:

ThermoFisher has been assigned two laboratory rooms (rooms 201 and 202) and a graduate office (room 205N) in the 650 Building. This space is used by Dr. Elizabeth Vargis, a faculty member in the Biological Engineering Department, who has a collaborative project with ThermoFisher. The company is not charged for the space because it is willing to share space and equipment with USU researchers, including

University of Utah
FY 2016
USTAR Research Building

3. Fees

T3S Technologies, Incorporated - TBD based on the SMBB space
evaluation study

BioUtah - TBD

Source: USU Excel File: "Attachment II.4Building 650 External Funding.FY16

All Funding in FY2016

Award Number	Funding Sponsor/PTE	Prime Sponsor Department/Unit	Principal Investigator
140267-000	NATIONAL ECOLOGICAL OBSERVATORY NETWORK (NE	U.S. National Biology	Michelle A. Baker
140267-000	NATIONAL ECOLOGICAL OBSERVATORY NETWORK (NE	U.S. National Biology	Michelle A. Baker
151123-000	Verum TCS	Animal Dairy & Veterinar	Aaron L Olsen
151150-000	NSE Products, Inc. (Nu Skin)	Nutrition Dietetics & Foo	Michael Lefevre
151161-000	Oak Ridge Associated Universities, Inc.	Biological Engineering	Elizabeth Ann Var
160154-000	Bard Access Systems	Animal Dairy & Veterinar	Aaron L Olsen
160221-000	Bard Access Systems	Animal Dairy & Veterinar	Aaron L Olsen
200080-000	Bard Access Systems	Animal Dairy & Veterinar	Aaron L Olsen
200142-000	Bard Access Systems	Animal Dairy & Veterinar	Aaron L Olsen
200148-000	Talon Surgical	Animal Dairy & Veterinar	Aaron L Olsen
200210-000	Brigham Young University	Animal Dairy & Veterinar	Aaron L Olsen
200248-000	Verum TCS	Animal Dairy & Veterinar	Aaron L Olsen
200262-000	U.S. Dept. of Hlth. and Hum. Svcs. - National Institutes	Vice President - Research	Aaron L Olsen
200268-000	NSE Products, Inc. (Nu Skin)	Nutrition Dietetics & Foo	Michael Lefevre
200300-000	Verum TCS	Animal Dairy & Veterinar	Aaron L Olsen
200429-000	NATIONAL ECOLOGICAL OBSERVATORY NETWORK (NE	Biology	Michelle A Baker

NEW FUNDING IN FY2016

Award Number	Funding Sponsor/PTE	Prime Sponsor Department/Unit	Principal Investigator
151123-000	Verum TCS	Animal Dairy & Veterinar	Aaron L Olsen
151150-000	NSE Products, Inc. (Nu Skin)	Nutrition Dietetics & Foo	Michael Lefevre
151161-000	Oak Ridge Associated Universities, Inc.	Biological Engineering	Elizabeth Ann Var
160154-000	Bard Access Systems	Animal Dairy & Veterinar	Aaron L Olsen
160221-000	Bard Access Systems	Animal Dairy & Veterinar	Aaron L Olsen
200080-000	Bard Access Systems	Animal Dairy & Veterinar	Aaron L Olsen
200142-000	Bard Access Systems	Animal Dairy & Veterinar	Aaron L Olsen
200148-000	Talon Surgical	Animal Dairy & Veterinar	Aaron L Olsen

200210-000C Brigham Young University
200248-000C Verum TCS
200262-000C U.S. Dept. of Hlth. and Hum. Svcs. - National Institutes
200268-000C NSE Products, Inc. (Nu Skin)
200300-000C Verum TCS
200429-000C NATIONAL ECOLOGICAL OBSERVATORY NETWORK (NE

Animal Dairy & Veterinar Aaron L Olsen
Animal Dairy & Veterinar Aaron L Olsen
Vice President - Research Aaron L Olsen
Nutrition Dietetics & Foo Michael Lefevre
Animal Dairy & Veterinar Aaron L Olsen
Biology Michelle A Baker



Co-Investigator(s)	Award Action Type	Original Award Date	Award Date (This A
	Allotment (Increment)	2013-10-31	2015-10-15
	Allotment (Increment)	2013-10-31	2015-10-07
	New	2015-07-10	2015-07-30
	New	2015-07-01	2015-07-10
	New	2015-07-01	2015-07-01
	New	2015-09-04	2015-09-14
	New	2015-10-05	2015-10-15
	New	2015-10-26	2015-11-09
	New	2016-01-01	2016-01-07
	New	2016-01-25	2016-01-08
	New	2016-02-22	2016-02-22
	New	2016-03-16	2016-03-16
Joseph T Beck	New	2016-03-21	2016-03-23
Robert E Ward	New	2016-03-31	2016-03-28
	New	2016-04-01	2016-04-20
	New	2016-03-31	2016-06-30

Co-Investigator(s)	Award Action Type	Original Award Date	Award Date (This A
	New	2015-07-10	2015-07-30
	New	2015-07-01	2015-07-10
	New	2015-07-01	2015-07-01
	New	2015-09-04	2015-09-14
	New	2015-10-05	2015-10-15
	New	2015-10-26	2015-11-09
	New	2016-01-01	2016-01-07
	New	2016-01-25	2016-01-08

	New	2016-02-22	2016-02-22
	New	2016-03-16	2016-03-16
Joseph T Beck	New	2016-03-21	2016-03-23
Robert E Ward	New	2016-03-31	2016-03-28
	New	2016-04-01	2016-04-20
	New	2016-03-31	2016-06-30

Title	Awarded Funding (This Action)
Laboratory Services Agreement - SF6 (Gas) Lab Analyses	-\$64,591.00
Laboratory Services Agreement - SF6 (Gas) Lab Analyses	\$76,250.00
Intravascular Fiber Optic Sensor evaluation	\$2,059.00
An Open-Label Study to Determine Safety and Effects of Novel Nut	\$278,765.00
Examining the Role of Spatial Organization on Retinal Degeneratio	\$5,000.00
Ultrasound Guided Catheter Placement	\$4,935.00
Ultrasound Guided Catheter Placement	\$4,252.00
Ultrasound Guided Catheter Placement	\$4,252.00
Ultrasound Guided Catheter Placement	\$4,254.00
Ultrasound Guided Catheter Placement	\$2,889.00
Vascular Catheter Sensors- BYU Capstone Project	\$2,889.00
Inceptio Medical Technologies is a medical device firm evaluating r	\$2,776.00
Laboratory Animal Resource Improvements	\$213,443.00
Analysis of fecal volatile organic compounds by GC-MS headspace ;	\$31,788.00
Intravascular Fiber Optic Sensor Evaluation	\$8,328.00
NEON Reaeration Analyses	\$8,235.00

Title	Awarded Funding (This Action)
Intravascular Fiber Optic Sensor evaluation	\$2,059.00
An Open-Label Study to Determine Safety and Effects of Novel Nut	\$278,765.00
Examining the Role of Spatial Organization on Retinal Degeneratio	\$5,000.00
Ultrasound Guided Catheter Placement	\$4,935.00
Ultrasound Guided Catheter Placement	\$4,252.00
Ultrasound Guided Catheter Placement	\$4,252.00
Ultrasound Guided Catheter Placement	\$4,254.00
Ultrasound Guided Catheter Placement	\$2,889.00

Vascular Catheter Sensors- BYU Capstone Project	\$2,889.00
Inceptio Medical Technologies is a medical device firm evaluating r	\$2,776.00
Laboratory Animal Resource Improvements	\$213,443.00
Analysis of fecal volatile organic compounds by GC-MS headspace ;	\$31,788.00
Intravascular Fiber Optic Sensor Evaluation	\$8,328.00
NEON Reaeration Analyses	\$8,235.00

University of Utah

FY 2016

4. Fundings

USTAR Building Researcher	Funding Source	Funding expenditures
DORVAL II,ALAN DALE	Federal Grants	209,481.47
DORVAL II,ALAN DALE Total		209,481.47
DOSDALL,DEREK JAMES	Federal Grants	551,022.51
DOSDALL,DEREK JAMES Total		551,022.51
GALE,BRUCE K	Federal Grants	205,086.72
	Industry	123,735.44
	Philanthropic and Nonprofit Funds	(3,802.79)
GALE,BRUCE K Total		325,019.37
GHANDEHARI,HAMIDREZA S	Federal Grants	397,847.79
	Philanthropic and Nonprofit Funds	29,831.78
GHANDEHARI,HAMIDREZA S Total		427,679.57
HARVEY,IAN R	Federal Grants	296.00
	Industry	36,842.46
	State Funds	285,389.80
	Philanthropic and Nonprofit Funds	123,521.08
HARVEY,IAN R Total		446,049.34
HITCHCOCK,ROBERT W	Federal Grants	206,477.20
	Industry	-
	Philanthropic and Nonprofit Funds	2,819.07
HITCHCOCK,ROBERT W Total		209,296.27

HSU,EDWARD W	Federal Grants	20,154.60
	Philanthropic and Nonprofit Funds	22,662.55
HSU,EDWARD W Total		42,817.15
KIM,HANSEUP	Federal Grants	271,854.56
KIM,HANSEUP Total		271,854.56
KORENBERG,JULIE R	Federal Grants	1,034,221.24
KORENBERG,JULIE R Total		1,034,221.24
MASTRANGELO,CARLOS H	Federal Grants	318,982.27
	Industry	47,103.60
MASTRANGELO,CARLOS H Total		366,085.87
OSTAFIN,AGNES	Federal Grants	-
	Philanthropic and Nonprofit Funds	6,526.18
OSTAFIN,AGNES Total		6,526.18
PORTER,MARC D	Federal Grants	1,159,809.03
	State Funds	4,285.93
	Philanthropic and Nonprofit Funds	32,757.58
PORTER,MARC D Total		1,196,852.54
RABBITT,RICHARD D	Federal Grants	387,394.28
	Philanthropic and Nonprofit Funds	350.88
RABBITT,RICHARD D Total		387,745.16
SHEPHERD,JASON DENNIS	Federal Grants	315,097.34
SHEPHERD,JASON DENNIS Total		315,097.34
SOLZBACHER,FLORIAN	Federal Grants	56,663.99
SOLZBACHER,FLORIAN Total		56,663.99
TABIB-AZAR,MASSOOD	Federal Grants	399,043.94
TABIB-AZAR,MASSOOD Total		399,043.94
TRESCO,PATRICK A	Federal Grants	273,998.36
TRESCO,PATRICK A Total		273,998.36
WACHOWIAK,DALE MATTHEW	Federal Grants	960,629.47

WACHOWIAK,DALE MATTHEW Total		960,629.47
WILCOX,KAREN S	Federal Grants	3,942,532.94
	Philanthropic and Nonprofit Funds	103,435.46
	State Funds	250,000.00
WILCOX,KAREN S Total		4,295,968.40
YOUNG,DARRIN J	Federal Grants	51,019.51
YOUNG,DARRIN J Total		51,019.51
YU,MICHAEL SEUNGCHU	Federal Grants	839,528.77
YU,MICHAEL SEUNGCHU Total		839,528.77
ZANG,LING	Federal Grants	357,154.96
	Philanthropic and Nonprofit Funds	495.00
ZANG,LING Total		357,649.96
MONSON,KENNETH L	Federal Grants	89,662.02
MONSON,KENNETH L Total		89,662.02
Grand Total		13,113,912.99

Source: University of Utah Office of Budget & Institutional Analysis (OBIA)

Note: Project expenditures as co-PI or co-I might not be reflected in this data for each investigator

Source: USU Document "USTAR BioInnovations 650 Occupants"

USTAR BioInnovations 650 Occupants

Michelle Baker: 0 disclosures, 0 licenses

Catalin Buhusi: 0 disclosures, 0 licenses

Mona Buhusi: 0 disclosures , 0 licenses

Michael Lefevre: 1 disclosure, 0 licenses

Aaron Olson: 0 disclosures, 0 licenses

Elizabeth Vargis: 0 disclosures, 0 licenses

Source: University of Utah Technology and Venture
UofU file "USTAR FY16 Building Report"

FY2016 USTAR Bldg Inventions

TECH ID	TITLE	STATUS	DISCLOSURE DATE	USTAR BUILDING USER/RESEARCHER
U-5997	Collagen targeted protein therapeutics	Hold For More Data From Inventor(s)	8/14/15	Michael S. Yu
U-6002	A Die to aid in self-alignment of two patterned PDMS layers to aid in the fabrication of microfluidic devices	Internal Review	8/19/15	Bruce Gale
U-6023	High-sensitivity Parametrically Amplified Chemo-Mechanical Vapor Sensor	Internal Review	9/17/15	Carlos Mastrangelo
U-6027	Silk-Elastinlike Protein Polymer for the Embolization of Aneurysm and Arteriovenous Malformation	Hold For More Data From Inventor(s)	9/24/15	Hamidreza Ghadehari
U-6030	Surface Plasmon Resonance (SPR) based label-free detection of electro-osmosis enhanced Microchip Capillary Electrophoresis (MCE) in real-time.	IP Protection Filed/Secured	9/29/15	Carlos Mastrangelo
U-6037	Power Efficient Electronic Switches	IP Protection Filed/Secured	10/12/15	Massood Tabib-Azar
U-6038	Chemical Percolation Switch	IP Protection Filed/Secured	10/13/15	Hanseup Kim
U-6042	Hyperstable collagen hybridizing peptides for targeting degraded and unfolded collagen	IP Protection Filed/Secured	10/22/15	Michael S. Yu
U-6046	Interfacial Donor-Acceptor Nanofibril Composite for Selective Alkane Vapor Detection	IP Protection Filed/Secured	10/28/15	Ling Zang
U-6055	Chemical Self-doping of One-dimensional Organic Nanomaterials for High Conductivity and Application in Chemiresistive Sensing Oxidant Gas or Vapor	IP Protection Filed/Secured	11/10/15	Ling Zang
U-6063	Laterally Actuated Amplified Capacitive Vapor Sensor	Hold For More Data From Inventor(s)	11/18/15	Carlos Mastrangelo, Hanseup Kim,
U-6071	SnowPixel	IP Protection Filed/Secured	12/2/15	Florian Solzbacher

U-6076	Smartphone sensor system to monitor calorie intake and output	Closure Requested	12/4/15	Massood Tabib-Azar
U-6085	Low-Power Large Aperture Adaptive Lenses for Smart Eyeglasses	IP Protection Filed/Secured	12/18/15	Carlos Mastrangelo, Hanseup Kim,
U-6135	Collagen targeting nanofiber and nanosheet	IP Protection Filed/Secured	3/28/16	Michael S. Yu
U-6161	Rising Toilet Seat	IP Protection Filed/Secured	4/27/16	Bruce Gale
U-6163	Thermal Gradient Plug Flow Microfluidic Chip for Extreme PCR	Hold For More Data From Inventor(s)	5/2/16	Bruce Gale
U-6183	Bioresorbable Drug Delivery Peripheral Nerve Wrap	Internal Review	6/3/16	Bruce Gale

TVC NOTES
Done (IP)
Done (No IP)
USTAR Faculty (No IP)
USTAR Faculty (No IP)
USTAR Faculty (No IP)
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USTAR Faculty (IP)
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Done (IP)
Done (No IP)
Done (No IP)

Source: University of Utah Technology and Venture
UofU file

FY2016 USTAR Bldg Filed Apps

TECH ID	PATENT TITLE	APPLICATION TYPE	COUNTRY	PATENT STATUS
U-4365	Nanocomposite Gels with Dynamically Adjusting Refractive Index	Divisional [DIV]	United States	Published
U-4453	Radiation Enhanced Macromolecular Delivery of Therapeutic Agents for Chemotherapy Technology	Continuation [CN]	United States	Pending
U-4526	Water Soluble pH Responsive Fluorescence Gold Nanoparticles	Divisional [DIV]	United States	Pending
U-4648	Targeted Combination Drug Delivery and Photothermal Therapy for the Treatment of Cancer (this can be potentially used for other diseases as well)	Continuation-in-Part [CIP]	United States	Published
U-5234	Nervous System Interface Device	Parent/Utility	United States	Published
U-5505	Silk-Elastin Like Protein Polymers For Embolization and Chemoembolization To Treat Cancer	Divisional [DIV]	United States	Published
U-5535	Stent with Embedded Pressure Sensors	Nationalized PCT-US	United States	Published
U-5555	Sensor Systems	Nationalized PCT-US	United States	Published
U-5653	Methods and Systems for Electrochemically Detecting or Quantifying an Analyte	Nationalized PCT-US	United States	Pending
U-5664	Vascular Coupling Device	Nationalized PCT-US	United States	Pending
U-5669	Optoelectronic Vapor Sensing of Amines, Phosphines, Peroxides, Hydrocarbons (Aromatic & Aliphatic), Phenols (Potentially Alcohols & Thiols), Acids & Other compounds Acting as Reductants or Capable of Disrupting Integrity of the Nanstructure Using Pho	Provisional	United States	Expired (full term ends)

U-5687	Methods of Detecting Analytes and Diagnosing Tuberculosis	PCT	PCT	Pending
U-5695	Micro Circulatory Gas Chromatography System and Method	Provisional	United States	Pending
U-5702	System, Device, and Method for Measuring Net load on a Lower Extremity	Provisional	United States	Pending
U-5742	Tissue Sample Processing System and Associated Methods	PCT	PCT	Published
U-5795	Conformable Biomechanical Force Sensor and Method of Fabrication	Provisional	United States	Pending
U-5819	Dual-Gate Chemical Field Effect Transistor Sensor	Parent/Utility	United States	Pending
U-5820	Discrete Magnetic Nanoparticles	Parent/Utility	United States	Published
U-5886	Dimeric Collagen Hybridizing Peptides and Methods of Using	PCT	PCT	Pending
U-5896	Microscopic Characterization and Ablation of Substrate to Treat Cardiac Arrhythmias	Provisional	United States	Expired (full term ends)
U-5897	Microprobe Device for Non-Destructive Measurement of Electrical and Thermal Properties of Nano and Micro Scale Materials and Method for Fabricating the Same	Provisional	United States	Pending
U-5916	Ultra-Low Power (<10 nW) Micro-Electro-Mechanical Sensing Systems and Processors	Provisional	United States	Pending
U-5953	Remote Power Transfer Using Magneto-Electric Devices	Provisional	United States	Pending
U-5997	Collagen targeted protein therapeutics	Provisional	United States	Expired (full term ends)
U-6037	Power Efficient Electronic Switches	Provisional	United States	Pending
U-6038	Chemical Percolation Switch	Provisional	United States	Pending
U-6042	Modified Collagen Hybridizing Peptides and Uses Thereof	Provisional	United States	Pending
U-6042	Hyperstable collagen hybridizing peptides for targeting degraded and unfolded collagen	Provisional	United States	Pending
U-6046	Interfacial Donor-Acceptor Nanofibril Composite for Selective Alkane Vapor Detection	Provisional	United States	Pending

U-6055	Chemical Self-doping of One-dimensional Organic Nanomaterials for High Conductivity and Application in Chemiresistive Sensing Oxidant Gas or Vapor	Provisional	United States	Pending
U-6071	SnowPixel	Provisional	United States	Pending
U-6085	Low-Power Large Aperture Adaptive Lenses for Smart Eyeglasses	Provisional	United States	Pending
U-6135	Collagen targeting nanofiber and nanosheet	Provisional	United States	Pending
U-6161	Rising Toilet Seat	Provisional	United States	Pending

FY2016 USTAR Bldg Iss Patents

TECH ID	PATENT TITLE	APPLICATION TYPE	COUNTRY	PATENT STATUS
U-4404	Intraocular Drug Delivery Device and Associated Methods	Continuation-in-Part [CIP]	United States	Issued
U-4774	Photoconductive Sensor Materials for Detection of Explosive Vapor	Nationalized PCT	China	Issued
U-4964	Nanoelectromechanical Logic Devices	Divisional [DIV]	United States	Issued
U-5193	Application of 5-HT6 Receptor Antagonists for the Alleviation of Cognitive Deficits of Down Syndrome	Nationalized PCT	Australia	Issued
U-5230	Micro-Plasma Field Effect Transistors	Continuation-in-Part [CIP]	United States	Issued

FILE DATE	SERIAL NO	USTAR BUILDING USER/INVENTOR
10/7/15	14/877,520	Ostafin, Agnes
2/22/16	15/049,198	Ghandehari, Hamidreza
4/6/16	15/092,271	Ostafin, Agnes
1/15/16	14/996,419	Ghandehari, Hamidreza
11/11/15	14/938,634	Tabib-Azar, Massood
3/8/16	15/064,142	Ghandehari, Hamidreza
9/2/15	14/772,191	Kim, Hanseup
9/9/15	14/774,070	Solzbacher, Florian; Mastrangelo, Carlos
4/5/16	15/027,405	Gale, Bruce
6/27/16	15/108,365	Gale, Bruce
7/9/15	62/190,609	Zang, Ling

2/10/16	PCT/US2016/017287	Porter, Marc
2/22/16	62/298,055	Kim, Hanseup
11/18/15	62/257,114	Hitchcock, Robert
10/20/15	PCT/US2015/056494	Gale, Bruce
11/18/15	62/257,118	Hitchcock, Robert
7/23/15	14/807,527	Zang, Ling
1/15/16	14/996,383	Porter, Marc
2/29/16	PCT/US2016/015816	Yu, Michael
7/31/15	62/199,585	Hitchcock, Robert
4/26/16	62/327,535	Tabib-Azar, Massood
11/23/15	62/258,898	Tabib-Azar, Massood
12/2/15	62/262,088	Tabib-Azar, Massood
8/14/15	62/282,902	Yu, Michael
11/20/15	62/386,226	Tabib-Azar, Massood
10/13/15	62/284,929	Kim, Hanseup
3/21/16	62/310,937	Yu, Michael
10/23/15	62/285,258	Yu, Michael
11/3/15	62/285,628	Zang, Ling

Appendix: Source Data for USTAR FY2016 Annual Report 10.01.2016*

Reporting Requirement	Description of Requirement	Statutory Language	Location in Statute	Source Data and Location in Workbook		
				Utah State University	University of Utah	USTAR
Part 1	Reporting requirements for higher education institutions.	Statutory Language	Citation			
		(1) Except as provided in Subsection (3), on or before September 1 each year, a higher education institution employing a USTAR researcher shall submit a written report to the governing authority. (2) A report under Subsection (1) shall contain information on:				
1	Researcher Collaborations	(a) collaborations established by a USTAR researcher with other researchers	63M-2-702.	x	x	x
2	Federal Funding Leveraged	(b) the amount and source of funding, other than USTAR funding, expended on a USTAR researcher's research program, including: (i) federal funds;	63M-2-702(2)(a)	1.1a	1.1b	x
3	Philanthropic or Nonprofit Funding Leveraged	expended on a USTAR researcher's research program, including (ii) philanthropic or nonprofit funds;	63M-2-702(2)(b)(i)	1.2a	1.2b	x
4	Industry Funding Leveraged	(iii) industry funds; and,	63M-2-702(2)(b)(ii)	1.2a	1.2b	x
5	State of Utah Funds Leveraged	(iv) state funds other than USTAR funds, including funds from a higher education institution;	63M-2-702(2)(b)(iii)	1.2a	1.2b	x
6	Documentation of all Technology Disclosures	(c) a copy of each (i) technology disclosure that a USTAR researcher files with a higher education institution	63M-2-702(2)(b)(iv)	1.2a	1.2b	x
7	Documentation of all License Agreements	(ii) license agreement that the higher education institution enters into with respect to a technology developed by a USTAR researcher, including any current, expired, or breached license; and	63M-2-702(2)(c)(i)	1.6a	1.6b	x
8	Documentation of Patents	(iii) patent filed by the higher education institution based on technology developed by a USTAR researcher;	63M-2-702(2)(c)(ii)	1.6a	1.7b	x
9	List of Publications	(d) publications in which a USTAR researcher participated, including a citation for each peer reviewed publication;	63M-2-702(2)(c)(iii)	1.6a	1.8b	x
10	Research Jobs Maintained	(e) the number of research jobs maintained by a USTAR researcher's research program and average wages paid to those holding those jobs;	63M-2-702(2)(d)	1.9a	1.9b	x
11	Salary and Benefits for USTAR Researchers and Staff Reimbursed by USTAR	(f) expenses for holding those jobs, including: (i) salary and benefits for a USTAR researcher or staff;	63M-2-702(2)(e)	1.10a	1.10b	x
12	Operational Expenses Reimbursed by USTAR	(ii) operational expenses;	63M-2-702(2)(f)	1.11a	1.11b	1.11c
13	Capital Equipment Expenses Reimbursed by USTAR	(iii) capital equipment expenses; and	63M-2-702(2)(f)(i)	1.11a	1.11b	1.11c
14	Travel Expenses Reimbursed by USTAR	(iv) travel; and	63M-2-702(2)(f)(ii)	1.11a	1.11b	1.11c
15	Salary, Benefits, and Other Compensation for USTAR Researchers Paid for with non-USTAR funds	A report under Subsection (1) shall contain information on compensation, including salary and benefits, that a USTAR researcher received from a publicly funded source other than USTAR funds.	63M-2-702(2)(e)	1.15a	1.15b	x
Part 2	Reporting requirements for private entities. (Companies receiving grants or 20 + hours of other USTAR services, licensing USTAR Researcher IP)	Statutory Language	Citation	3rd party survey		
		Subsection (2) from each private entity that:		See USTAR Private Sector Economic Impact Study 2016 for complete data and methodology used to collect the required reporting for private entities who have received USTAR support.		
1	Public or private investment obtained after receipt of USTAR grant or other services	(a) receives USTAR support;	63M-2-703			
2	Public or private investment obtained after licensing a technology developed by a USTAR researcher	(b) receives more than 20 hours of training from USTAR;	63M-2-703(a)(i)			
3	Public or private investment obtained after purchasing a company that previously received USTAR support	(i) begins to receive USTAR support;	63M-2-703(a)(ii)			
4	Sales or revenue generated following receipt of USTAR support	(ii) licenses a technology from a USTAR researcher	63M-2-703(a)(iii)			
5	Number of jobs created following receipt of USTAR support	iii) purchases a private entity that previously received USTAR support	63M-2-703(b)			
6	Average wage for positions created following receipt of USTAR support	(b) sales or revenue generated by the product or technology;	63M-2-703(c)			
7	Current location of the entity receiving USTAR support	(c) the number of jobs created by the private entity and the average wage for each position; and	63M-2-703(d)			
		(d) the location of the private entity.	63M-2-703(d)			
Part 3	Reporting on use of research buildings	Statutory Language	Citation	Utah State University	University of Utah	
		On or before September 1 of each year, a research university shall submit a report to the governing authority concerning the use, during the immediately preceding fiscal year, of the research building located on the research university's campus, including:				
1	Name of each individual who has used the building for research	(1) the name of each individual who conducts research in the research building;	63M-2-705	x	x	
2	Name of each company or private entity who has used the USTAR building	(2) the name of each private entity that uses the research building;	63M-2-705(1)	3.1a	3.1b	
3	Amount university charged for use of the USTAR building	(3) the total amount charged by the research university for the use of space or facilities in the research building;	63M-2-705(2)	3.2a	3.2b	
4	Amount of federal funding expended by each researcher housed in the USTAR building	(4) the amount and source of funding, other than USTAR funding, received by a researcher, other than a researcher	63M-2-705(3)	3.3a	3.3b	
			63M-2-705(4)	3.4a	3.4b	

5	Amount of state grant funding expended by each researcher housed in the USTAR building	(b) state funding, including institutional funding;	63M-2-705(4)(b)	3.4a	3.4b
6	Amount of nonprofit funding expended by each researcher housed in the USTAR building	(c) private philanthropic or nonprofit funding; and	63M-2-705(4)(b)	3.4a	3.4b
7	Amount of industry funding expended by each researcher housed in the USTAR building	(d) industry funding; and	63M-2-705(4)(b)	3.4a	3.4b
8	Technology disclosures produced by each researcher housed in the USTAR building	5) the number of disclosures,	63M-2-705(5)	3.8a	3.8b
9	Patents (filed and issued) by each researcher housed in the USTAR building	patents	63M-2-705(5)	3.8a	3.9b
10	Licenses from IP produced by each researcher housed in the USTAR building	and licenses resulting from research conducted in the research building.	63M-2-705(5)	3.8a	3.10b

*Includes data received by USTAR as required by statute to provide information to the Legislature and Governor for the USTAR Annual Report.