
◆ BRL BULLETIN ◆

Volume 33 No. 1

2018

This is the "White Paper" issue of the *BRL Bulletin*, which is used to announce the new per diem schedule that went into effect on February 1, 2018. In addition predicted rates for 2019, 2020, and 2021 are provided.

An Overview of the Rate Setting Process

The process of setting rates requires a review of costs and an allocation of those costs to specific activities. This process is accomplished at the BRL by using cost centers and internal accounts to track income and expenses. The key to this system is that most transactions are assigned to a cost center at the time they are initiated. The other key element is tracking activity for internal recharges, such as the cost of cage washing, feed, and labor. Labor, as is the case with any service or manufactured product, makes up a significant portion of the cost of doing business. To facilitate the tracking of labor, supervisors submit daily labor activity reports, which include regular and overtime hours and the animal species to which employees are assigned for each respective work day. These reports are submitted to the BRL business office staff, audited against payroll, and the total direct labor for each species is determined. The total direct labor for each species is then divided by the number of animal days or other appropriate allocation method in order to determine the labor cost per day associated with maintaining the respective animal. Essential to the process is having an efficient system in place and having historical records that allow trends to be tracked and recognize early in the process when circumstances arise that either directly or indirectly impact the cost of performing a certain activity.

Factors that Impact the Rates and/or Services Charged

There are many factors, both direct and indirect, that may have a positive and/or negative impact on per diem rates. These factors include everything from state and federal support to the costs associated with labor, labor contracts, feed, bedding, fuel, plastics, stainless steel, environmental enrichment, program improvements, and economies of scale. The factors that impact per diem rates are generally easy to track

and usually relatively easy to predict especially now that the state is operating under an approved budget.

Program Scope and Growth

The BRL staff provide support to approximately 275 investigators with approximately 650 active protocols. The average daily animal census in FY17 (excluding fish) was 36,728, which represents an approximate 3% increase over the FY16 average daily census of 35,694 animals. Over the last five years the average daily animal census has increased by approximately 28%. Thus a 3% increase in the average daily census in FY17 is a slightly lower growth rate than the average we have seen during the last five years. Note fish are not included in the daily census figures because most fish on campus are maintained by investigators' laboratory staff, and as a result, fish have little impact on BRL staff labor and expenses.

Another simple metric to look at that demonstrates both program growth and scope is the total number of animal husbandry support days (animal care days). In FY16 the BRL provided support for 4.1 million animal care days; whereas, in FY17 the BRL provided support for 4.27 million animal care days, which represents an increase of approximately 4%.

The Rates for 2018

Of note, beginning in 2018 the per diem rate for rats will be based upon the cage and not the individual animal. The reason behind this change in inventory accounting is to facilitate a new animal inventory management program that the BRL will implement this summer. To minimize the impact on investigators, the rat box charge will be set at 1.8 times the 2017 per diem rate for an individual rat. The rationale behind the "1.8" factor is that it takes into account that the average cage density of rats is less than two animals per cage. Using this factor as we change from an individual animal charge to a cage charge, it will cost \$0.92/day/rat cage whether one, two, or three rats are housed in a cage. We know this is philosophically and operationally a major change, and we will closely monitor the

impact of this change on both BRL revenue and investigator expenses during the transition period.

Of the 24 per diem categories from 2017 (excluding rat categories) that will carry over to 2018, none will increase above the predicted rates published in last year's rate setting *BRL Bulletin*. As a result, if you have been using the BRL published per diem schedule to develop your budgets for sponsored research, there should be no surprises.

The 2018 per diem rate increase will range between 0 and 9%. Of the 24 per diem categories from 2017 that will carry over to 2018, 14 will not increase. The primary beneficiaries of the 14 per diem categories that will not increase this year are users of mice in the BRL and COMRB, rabbits, dogs, swine, mouse quarantine, and BRL mice and guinea pigs maintained in biological and chemical hazard rooms. Nonhuman primate, turtle, and non-biohazard guinea pig users will realize a 4.5%, 7.1%, and 7.7% increase in per diems, respectively. It should be noted that there is a \$0.06 per diem rate differential between mouse and rat per diem rates for the MBRB and BBC as compared to the BRL and COMRB. This differential takes into account the transportation costs of shipping equipment from the MBRB and the BBC satellite facilities to the BRL for cleaning. This differential was increased by \$0.02 for 2018 because of an increase in FM transportation costs.

The BRL will continue to use a three tier per diem schedule for investigators. The lowest per diem rate is for UIC investigators. The middle tier is for Illinois Medical District (IMD) users. The per diem rate for IMD users includes a 20% surcharge to take into account that the animal care program is only 80% cost recovery. The per diem rate for non-UIC investigators outside the IMD will continue to be subject to a 59% surcharge, which takes into account the institution's indirect cost formula. Investigators with adjunct UIC appointments for whom salary and/or grants are not administered through UIC will be subject to the IMD per diem schedule.

A listing of the 2018 per diem rates (all three tiers) is included in this *Bulletin* and is available on the BRL website at <http://www.brl.uic.edu/>. If you need assistance developing a budget, do not hesitate to contact a member of the veterinary staff.

Animal Facility Benchmarking

In order to give some perspective to the UIC mouse

box charge, which impacts the greatest number of UIC investigators, a comparison was made with other academic institutions in both the Chicago area and the Big Ten. In 2018, the per diem cost for a static sterile mouse microisolator cage at the BRL/COMRB is \$0.85/day. This per diem rate is the same and/or less than most comparable housing scenarios at the following institutions: Northwestern University (\$0.87/day), Loyola (\$1.15/day), University of Chicago (\$0.74/day), University of Minnesota (\$1.37/day), The University of Ohio (\$1.52/day), Indiana University (\$0.88/day), University of Michigan (\$1.53/day), University of Iowa (\$0.75/day), Purdue University (\$0.95/day), Michigan State (\$0.84/day), and the University of Illinois at Champaign/Urbana (\$1.03/day). The new BRL rat box per diem, which will be \$0.92 per box at COMRB and \$0.98 per box at BBC and MBRB, is less than the rat box per diem charged by all of the institutions listed above, which range from a low of \$1.09 per day/box (Michigan State) to a high of \$2.90 per day/box (University of Minnesota).

Miscellaneous Fees

The cost to rederive (eliminate murine pathogens) a mouse or rat strain from a non-approved vendor in 2018 will remain \$1200 per strain. This cost does not include the per diem for animals maintained in quarantine during the rederivation process. Due to the health status of the UIC rodent colonies, most mouse and rat strains obtained from non-approved vendors require rederivation. This cost is the investigator's responsibility. If you have questions, please contact Dr. Jeanette Purcell at 6-7051.

Separating overcrowded cages will remain \$20 per box this year. It should be noted that investigators and their laboratory managers have complete control as to whether they are charged an overcrowded cage separation fee.

The BRL space rental fee will remain \$17.50/sq. ft. per annum. This fee only affects investigators renting laboratory or animal space for specialized purposes and/or surgery space to store equipment.

In 2018, staff will provide an euthanasia service for mice maintained in the BRL and COMRB animal facilities. Research staff need only to bring mouse cages identified for euthanasia to a designated rack within the BRL and COMRB barrier, and BRL staff will euthanize the animals. The cost to use the service is \$0.35/cage.

The administrative fee for shipping mice to non-UIC facilities will remain \$50 for domestic and \$100 for international shipments. The administrative fee includes arrangement of the shipment, completion of health certificate paperwork, and for international shipments, USDA and other customs documentation, which can be quite extensive. The administrative charge does not cover the cost of the crate, air transportation, serologic testing, or other miscellaneous charges. The BRL will make a reasonable attempt within the confines of the department's and the University's billing system to charge the recipient institution for costs incurred by the animal shipment; however, historically it has been difficult to recoup the administrative fee. If this is the case, the investigator's account will be charged, and it will be the investigator's responsibility to recoup the administrative fee from the recipient institution.

The Predicted Rates for 2019, 2020, and 2021

The BRL has published predicted rates for over 25 years, and investigators are strongly encouraged to use these rates when calculating budgets for grants and contracts. Historically, the predicted rates have been based upon the average increase over the previous four years. This figure is used to arrive at the starting point for the predicted rates after which other factors are considered such as budget cuts and union negotiated wage increases. Note, every effort is made by the staff of the BRL to minimize costs in order to keep future increases below the projections, while at the same time ensuring regulatory compliance and maintaining a high level of service.

Announcements

Congratulations are in order for the following members of the BRL staff who were recently recognized through the department and/or the Chicago Branch of AALAS (CBAALAS) for their exemplary work in providing both animal care and research support. If you happen to see them in the BRL or another animal facility, please take a moment to acknowledge them for the service they provide and their well-deserved recognition.

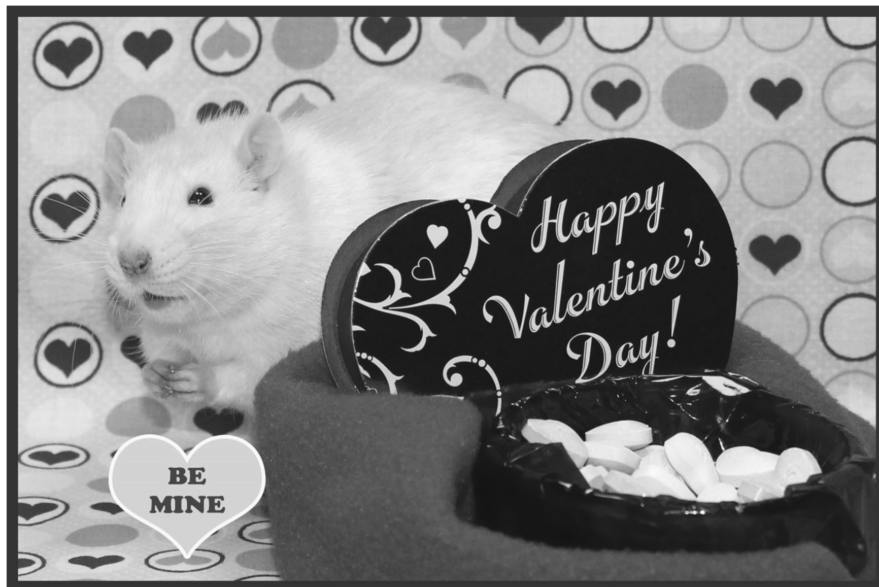
BRL Animal Care Technician of the Year
Jose Campos

BRL Animal Care Technician of the Year
Honorable Mention
Lawrence Brown
Jose Lopez
Greta Nekrasova
Mike Smith

CBAALAS Animal Health Technician of the Year
Award
Betty Jo Vick

CBAALAS George R. Collins Animal Technician
Award
Jose Lopez

CBAALAS Leadership Award
Kim Lampa



BIOLOGIC RESOURCES LABORATORY
2018 UIC PER DIEM RATES AND THREE YEAR FORECAST

CODE	BRL	2018	2019	2020	2021
	PRIMATE	\$13.98	\$14.68	\$15.41	\$16.18
	PRIMATE SPECIAL*	\$15.63	\$16.33	\$17.06	\$17.83
CO	COW/CALF	\$25.00	\$25.50	\$26.01	\$26.53
PG	PIG/SWINE	\$18.76	\$19.14	\$19.52	\$19.91
SP	PIG SPECIAL**	\$24.25	\$24.74	\$25.23	\$25.73
DO	DOG	\$12.64	\$13.02	\$13.41	\$13.81
GP	GUINEA PIG	\$1.68	\$1.81	\$1.96	\$2.12
GS	GUINEA PIG SPECIAL***	\$2.06	\$2.19	\$2.34	\$2.50
MB	MOUSE BOX	\$0.85	\$0.88	\$0.92	\$0.96
MSP	MOUSE BOX SPECIAL*	\$0.88	\$0.91	\$0.95	\$0.99
RA	RABBIT	\$3.21	\$3.37	\$3.54	\$3.72
RSD	DIABETIC RAT BOX	\$1.99	\$1.04	\$1.09	\$1.16
RT	RAT BOX	\$0.92	\$0.98	\$1.03	\$1.10
TO	TOAD	\$0.59	\$0.62	\$0.65	\$0.68
TU	TURTLE	\$0.45	\$0.47	\$0.50	\$0.52
BGP	BIO/CHEMICAL GUINEA PIG	\$2.48	\$2.60	\$2.73	\$2.87
BZM	BIO/CHEMICAL HAZARD MOUSE BOX	\$1.12	\$1.18	\$1.23	\$1.30
BZR	BIO/CHEMICAL HAZARD RAT BOX	\$1.29	\$1.37	\$1.45	\$1.54
QMI	QUARANTINE MOUSE BOX	\$1.12	\$1.14	\$1.17	\$1.19
QRT	QUARANTINE RAT BOX	\$1.29	\$1.32	\$1.36	\$1.39

BRL ANNEX

	PRIMATE	\$24.00	\$25.20	\$26.46	\$27.78
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BBC FACILITY

BBMI	MOUSE BOX	\$0.91	\$0.95	\$0.98	\$1.02
BBRT	RAT BOX	\$0.98	\$1.04	\$1.09	\$1.16

COMRB FACILITY

CMI	MOUSE BOX	\$0.85	\$0.88	\$0.92	\$0.96
CBZ	BIO/CHEMICAL HAZARD MOUSE BOX	\$1.08	\$1.18	\$1.23	\$1.30
CMSP	MOUSE BOX SPECIAL*	\$0.88	\$0.91	\$0.95	\$0.99

DENTISTRY

DMI	MOUSE BOX	\$0.91	\$0.95	\$0.98	\$1.02
DRT	RAT BOX	\$0.98	\$1.04	\$1.09	\$1.16

ILF

ILMB	MOUSE BOX	\$0.91	\$0.95	\$0.98	\$1.02
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MBRB FACILITY

MMI	MOUSE BOX	\$0.91	\$0.95	\$0.98	\$1.02
MRT	RAT BOX	\$0.98	\$1.04	\$1.09	\$1.16

* Special husbandry practices may include bio,chemical hazard, and/or other maintenance requirements

** Swine over 40 kgs

*** Single Housed

GENERAL BRL FEES:

Order	Animal Order Administration	\$10.00
Shipment	Domestic Shipping Coordination	\$50.00
Shipment	International Shipping Coordination	\$100.00
Shipment	Non Approved Vendor	\$50.00
Shipment	Crates	\$15.00
Line	Rederivation	\$1,200
Husbandry	Euthanasia (p/cage)	\$0.35
Husbandry	Overcrowd/Cage Separation (p/cage)	\$20.00
Husbandry	Delivery - On campus	\$25.00
Husbandry	Receiving/Handling	\$30.00
Husbandry	Van/Transportation Service within UIC/Med District	\$28.00
Facility	Space Rental p/sq ft	\$17.50

PROFESSIONAL SERVICES:

Veterinary Time	\$65.00
Veterinary Technician	\$36.00
Animal Care Technician	\$30.00

Rates Effective 2/1/18

BIOLOGIC RESOURCES LABORATORY
2018 ILLINOIS MEDICAL DISTRICT PER DIEM RATES AND THREE YEAR FORECAST

CODE	BRL	2018	2019	2020	2021
	PRIMATE	\$16.78	\$17.61	\$18.50	\$19.42
	PRIMATE SPECIAL*	\$18.76	\$19.59	\$20.48	\$21.40
CO	COW/CALF	\$30.00	\$30.60	\$31.21	\$31.84
PG	PIG/SWINE	\$22.51	\$22.96	\$23.42	\$23.89
SP	PIG SPECIAL**	\$29.10	\$29.68	\$30.28	\$30.88
DO	DOG	\$15.17	\$15.62	\$16.09	\$16.57
GP	GUINEA PIG	\$2.02	\$2.18	\$2.35	\$2.54
GS	GUINEA PIG SPECIAL***	\$2.47	\$2.63	\$2.81	\$3.00
MB	MOUSE BOX	\$1.02	\$1.06	\$1.10	\$1.15
MSP	MOUSE BOX SPECIAL*	\$1.06	\$1.10	\$1.14	\$1.18
RA	RABBIT	\$3.85	\$4.04	\$4.25	\$4.46
RSD	DIABETIC RAT	\$2.39	\$1.24	\$1.31	\$1.39
RT	RAT BOX	\$1.10	\$1.17	\$1.24	\$1.31
TO	TOAD	\$0.71	\$0.74	\$0.78	\$0.82
TU	TURTLE	\$0.54	\$0.57	\$0.60	\$0.63
BGP	BIO/CHEMICAL GUINEA PIG	\$2.98	\$3.12	\$3.28	\$3.45
BZM	BIO/CHEMICAL HAZARD MOUSE BOX	\$1.34	\$1.41	\$1.48	\$1.56
BZR	BIO/CHEMICAL HAZARD RAT BOX	\$1.55	\$1.64	\$1.74	\$1.84
QMI	QUARANTINE MOUSE BOX	\$1.34	\$1.37	\$1.40	\$1.43
QRT	QUARANTINE RAT BOX	\$1.55	\$1.59	\$1.63	\$1.67

BRL ANNEX

	PRIMATE	\$28.80	\$30.24	\$31.75	\$33.34
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BBC FACILITY

BBMI	MOUSE BOX	\$1.09	\$1.14	\$1.18	\$1.23
BBRT	RAT BOX	\$1.18	\$1.24	\$1.31	\$1.39

COMRB FACILITY

CMI	MOUSE BOX	\$1.02	\$1.06	\$1.10	\$1.15
CBZ	BIO/CHEMICAL HAZARD MOUSE BOX	\$1.30	\$1.41	\$1.48	\$1.56
CMSP	MOUSE BOX SPECIAL*	\$1.06	\$1.10	\$1.14	\$1.18

DENTISTRY

DMI	MOUSE BOX	\$1.09	\$1.14	\$1.18	\$1.23
DRT	RAT BOX	\$1.18	\$1.24	\$1.31	\$1.39

ILF

ILMB	MOUSE BOX	\$1.09	\$1.14	\$1.18	\$1.23
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MBRB FACILITY

MMI	MOUSE BOX	\$1.09	\$1.14	\$1.18	\$1.23
MRT	RAT BOX	\$1.18	\$1.24	\$1.31	\$1.39

* Special husbandry practices may include bio, chemical hazard, and/or other maintenance requirements

** Swine over 40 kgs

*** Single Housed

GENERAL BRL FEES:**PROFESSIONAL SERVICES:**

Order	Animal Order Administration	\$10.00	Veterinary Time	\$65.00
Shipment	Domestic Shipping Coordination	\$50.00	Veterinary Technician	\$36.00
Shipment	International Shipping Coordination	\$100.00	Animal Care Technician	\$30.00
Shipment	Non Approved Vendor	\$50.00		
Shipment	Crates	\$15.00		
Line	Rederivation	\$1,200		
Husbandry	Euthanasia (p/cage)	\$0.35		
Husbandry	Overcrowd/Cage Separation (p/cage)	\$20.00		
Husbandry	Delivery - On campus	\$25.00		
Husbandry	Receiving/Handling	\$30.00		
Husbandry	Van/Transportation Service within UIC/Med District	\$28.00		
Facility	Space Rental p/sq ft	\$21.00		

Rates Effective 2/1/18

BIOLOGIC RESOURCES LABORATORY
2018 NON UIC/ILLINOIS MEDICAL CENTER PER DIEM RATES AND THREE YEAR FORECAST

CODE	BRL	2018	2019	2020	2021
	PRIMATE	\$22.23	\$23.34	\$24.51	\$25.73
	PRIMATE SPECIAL*	\$24.85	\$25.96	\$27.13	\$28.36
CO	COW/CALF	\$39.75	\$40.55	\$41.36	\$42.18
PG	PIG/SWINE	\$29.83	\$30.42	\$31.03	\$31.65
SP	PIG SPECIAL**	\$38.56	\$39.33	\$40.12	\$40.92
DO	DOG	\$20.10	\$20.70	\$21.32	\$21.96
GP	GUINEA PIG	\$2.67	\$2.88	\$3.12	\$3.36
GS	GUINEA PIG SPECIAL***	\$3.28	\$3.49	\$3.72	\$3.97
MB	MOUSE BOX	\$1.35	\$1.41	\$1.46	\$1.52
MSP	MOUSE BOX SPECIAL*	\$1.40	\$1.45	\$1.51	\$1.57
RA	RABBIT	\$5.10	\$5.36	\$5.63	\$5.91
RSD	DIABETIC RAT	\$3.16	\$1.65	\$1.74	\$1.84
RT	RAT BOX	\$1.46	\$1.55	\$1.64	\$1.74
TO	TOAD	\$0.94	\$0.99	\$1.03	\$1.09
TU	TURTLE	\$0.72	\$0.75	\$0.79	\$0.83
BGP	BIO/CHEMICAL GUINEA PIG	\$3.94	\$4.14	\$4.35	\$4.56
BZM	BIO/CHEMICAL HAZARD MOUSE	\$1.78	\$1.87	\$1.96	\$2.06
BZR	BIO/CHEMICAL HAZARD RAT BOX	\$2.05	\$2.17	\$2.30	\$2.44
QMI	QUARANTINE MOUSE BOX	\$1.78	\$1.82	\$1.85	\$1.89
QRT	QUARANTINE RAT BOX	\$2.05	\$2.10	\$2.15	\$2.21
BRL ANNEX					
	PRIMATE	\$38.16	\$40.07	\$42.07	\$44.17
BBC FACILITY					
BBMI	MOUSE BOX	\$1.45	\$1.50	\$1.56	\$1.63
BBRT	RAT BOX	\$0.93	\$1.65	\$1.74	\$1.84
COMRB FACILITY					
CMI	MOUSE BOX	\$1.35	\$1.41	\$1.46	\$1.52
CBZ	BIO/CHEMICAL HAZARD MOUSE BOX	\$1.72	\$1.87	\$1.96	\$2.06
CMSP	MOUSE BOX SPECIAL*	\$1.40	\$1.45	\$1.51	\$1.57
DENTISTRY					
DMI	MOUSE BOX	\$1.45	\$1.50	\$1.56	\$1.63
DRT	RAT BOX	\$0.93	\$1.65	\$1.74	\$1.84
ILF					
ILMB	MOUSE BOX	\$1.45	\$1.50	\$1.56	\$1.63
MBRB FACILITY					
MMI	MOUSE BOX	\$1.45	\$1.50	\$1.56	\$1.63
MRT	RAT BOX	\$1.56	\$1.65	\$1.74	\$1.84

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Facility	Space Rental p/sq ft	\$27.83

PROFESSIONAL SERVICES:

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Veterinary Technician	\$36.00
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Rates Effective 2/1/18