

## The [CATALYST]



## [News &amp; Announcements]

Evan Kerr, a graduate student in Roberta Leonardi's Lab, was awarded a full StellenCoA fellowship to attend the StellenCoA meeting, a conference focused on coenzyme A biology, in South Africa this October. ***Congratulations Evan!!***

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Stephanie Shumar, a graduate student in Roberta Leonardi's Lab, was awarded a partial fellowship to attend the StellenCoA meeting, a conference focused on coenzyme A biology, in South Africa this October. ***Congratulations Stephanie!!***

.....

Claire Smathers, a graduate Student in Aaron Robart's lab, passed her qualifying exam on Friday, August 17th 2018. ***Congratulations Claire!!***

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Rawaa Aljammal, a graduate Student in Vishy Ramamurthy's lab, passed her qualifying exam on Friday, August 28th 2018. ***Congratulations Rawaa!!***

.....

Jake Hoover, a graduate Student in Mark McLaughlin's lab, passed his qualifying exam on Friday, August 17th 2018. ***Congratulations Jake!!***

.....

***Congratulations*** are in order for Steven Frisch, Biochemistry Faculty member. He got married on August 3rd. Please join us in congratulating Steve and his new bride!!

.....

***Congratulations*** to Roberta Leonardi! She has been selected as a Big 12 Faculty Fellow for 2018-2019.

.....

***Congratulations*** to Dan Murphy, Biochemistry Alumni, currently post-doc at Washington University in St. Louis on getting his NEI Grant funded.

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## Birthdays

Jun Liu	July 1
Yehenew Agazie	July 5
Brandon Jones	July 7
Eric Tucker	July 9
Mike Ruppert	July 11
Hyeran Choi	July 12
Celine Brooks	July 13
Richard Seftor	July 13
Elisabeth Seftor	July 17
Sree Indrani Motipally	July 20
Vishy Ramamurthy	July 21
Stephanie Shumar	July 25
Max Sokolov	July 28
Chen Chung Lin	July 31
Diana Beattie	Aug 11
Tiffany Petrisko	Aug 25
Sila Yanardag	Sept 4
Jake Hoover	Sept 20
Mike Schaller	Oct 1
Amy Boors	Oct 8
Raymond Anderson	Oct 18
Crystal Verdini	Oct 20
Bohye Jeong	Oct 24
Valery Khramtsov	Oct 24
Mary Wimmer	Oct 25
Jane Schupp	Oct 27
Stephen Devience	Oct 29
Steve Frisch	Oct 30

***"In questions of science, the authority of a thousand is not worth the humble reasoning of a single individual."***

***~ Galileo Galilei***

## [Chair's Corner]

Last week, we hosted Saswata Talukdar, who presented a seminar in our "Distinguished Faculty and Alumni Seminar Series". Saswata performed his dissertation research in Brad Hillgartner's lab and upon graduation in 2006, he did his post doc with Jerrold Olefsky at UCSD. Saswata went to work in industry, serving as a Principal Scientist at Pfizer for 4 years before moving to Merck. Since June 2016, Saswata has been the Director of Cardio-Metabolic Discovery at Merck. He gave a riveting seminar describing pre-clinical and clinical studies on agents developed to modulate metabolism and the challenges of using animal models to predict effects of

therapeutics on people. Saswata raised the problem of reproducibility in science and stressed to our students the importance of conducting science with the utmost rigor to improve reproducibility. In addition to presenting in our seminar series and engaging with the students in our program, Saswata also gave a career talk to the graduate students at the Health Sciences Center, describing his experiences leading to a career in industry and providing advice on how to follow in his footsteps. It was a great opportunity for Saswata and his dissertation committee to reminisce about his trials and tribulations (and theirs) as a graduate student, and for



our students to observe the very successful career of one of their predecessors in the graduate program. Highlighting successful role models, like Saswata, provides the students insight into the potential outcome of their training experience.

## [WVU Graduate Student Receives NIH Grant]

**Ashley Brandebura has received an NIH grant to study the calyx of Held, the largest nerve terminal in the brain.**



With NIH funding, WVU grad student investigates neural circuit's development

You're taking a walk, and you hear a dog growl. Is it behind you or in front of you? Two houses down or at your heels? The calyx of Held, which is located in the part of the brain that controls hearing, helps you discern this instantly.

A West Virginia University graduate student is studying how certain cells affect the development of this part of the brain, and therefore, how they could affect how quickly and accurately the brain processes sounds.

The National Institute on Deafness and Other Communication Disorders, a division of the National Institutes of Health, has awarded Ashley Brandebura, a graduate research assistant at WVU's Rockefeller Neuroscience Institute, \$44,000 over two years to study the calyx of Held.

The calyx of Held is the largest nerve terminal in the brain. Its highly specialized function makes it a key player in the brain's ability to make sense of sounds, in particular, precisely identifying where a sound comes from.

Brandebura is analyzing the role that two types of cells play in the calyx of Held's growth and the maturation of the brain region where it resides. The first type, neurons, transmit information within the brain and from the brain to other parts of the body. The second type, glial cells, surround neurons to support and insulate them. Taken together, they resemble the wires and insulation that make up an electrical cord.

Brandebura, who is pursuing her biochemistry doctorate at the WVU School of Medicine, hypothesizes that both neurons and glial cells secrete the key signaling molecules that guide the calyx of Held through its development.

*"A lot of people just focus on the neurons and how they fire together, but we're interested in the glial cells as well,"* she said.

The calyx of Held is a large, fast-growing junction that participates in the transmission of sounds from the ear to a part of the brain that specializes in locating the sounds' sources. Such nerve junctions are called synapses.

*"Ashley's work utilizes state-of-the-art techniques to measure gene expression in individual glial and neuronal cells. It is a so-called 'big data' approach to science that requires knowledge of biology, computer programming and statistics,"* said George Spirou, who teaches in WVU's School of Medicine, directs the Otolaryngology Residency Research Program and is Brandebura's primary mentor. She is co-mentored by Peter Stoilov and Peter

Mathers in the Department of Biochemistry.

Defining how neural circuits develop on a molecular scale can help researchers learn about conditions that stem from atypical neural wiring. Understanding how neurons and glial cells "talk" among each other may underpin discoveries in this area.

In particular, Brandebura's work could shed light on why autistic individuals are often oversensitive—or not sensitive enough—to sounds.

A part of the brain that the calyx of Held connects to, called the medial nucleus of the trapezoid body, tends to be unusually small in people with autism. "It's disorganized," explained Brandebura, "and there are some indications that the circuitry is not transmitting properly."

By investigating how neurons and glial cells signal the calyx of Held to grow and the medial nucleus of the trapezoid body to mature, Brandebura may gain a new perspective into the abnormal auditory processing characteristic of autistic individuals.

Her research could also influence how clinicians treat cases of Alzheimer's disease or stroke, two conditions characterized by synaptic breakdowns.

"If you know how these synapses form in early development," she said. "You could try to upregulate these early developmental pathways to regenerate brain tissue."

# [17th Biennial Congress of the Metastasis Research Society]

17th Biennial Congress of the Metastasis Research Society and Young Investigator Satellite Meeting (August 1-5, 2018).



**Elena Pugacheva, PhD, Alexey Ivanov, PhD and Kristina Marinak Whately,** PhD student attended the 17th Biennial Congress of Metastasis Research Society in Princeton, NJ on August 1-5, 2018. Elena and Alexey presented posters and Kristina presented a talk as young investigator.

The Metastasis Research Society (MRS) is a non-profit, international professional

society. We are open to membership by scientists, clinicians, and members of the metastatic community at large including patients, that share our mission to support progressive research on processes fundamental to cancer metastasis with the goal of improving metastatic patient outcomes. We realize this mission in part by organizing an international Biennial Congress on

cancer metastasis every two years, alternating the location between Eastern and Western hemispheres. Our congresses have been recognized by the cancer research field for scientific excellence for over thirty years, and have been including an associated Young Investigator Satellite Meeting to support young investigator career development since 2014.

## [Recent Publications]

- ◇ Wang Y, Grenell A, Zhong F, Yam M, Hauer A, Gregor E, Zhu S, Lohner D, Zhu J, **Du J**. "Metabolic signature of the aging eye in mice." *Neurobiol Aging*. 2018 Aug 7;71:223-233. doi: 10.1016/j.neurobiolaging.2018.07.024. [Epub ahead of print] PMID: 30172221
- ◇ **Rajendran VM**, Sandle GI. "Colonic Potassium Absorption and Secretion in Health and Disease." *Compr Physiol*. 2018 Sep 14;8(4):1513-1536. doi: 10.1002/cphy.c170030. PMID:30215859
- ◇ Narayanan K, Kumar S, Padmanabhan P, Gulyas B, Wan ACA, **Rajendran VM**. "Lineage-specific exosomes could override extracellular matrix mediated human mesenchymal stem cell differentiation." *Biomaterials*. 645<sup>2</sup> Nov;5<sup>2</sup> 6:756-322. doi: 10.1016/j.biomaterials.2018.08.027. Epub 2018 Aug 11. PMID:30153612
- ◇ **Rottgen TS, Nickerson AJ, Minor EA**, Stewart AB, Harold AD, **Rajendran VM**. "Dextran Sulfate Sodium (DSS)-induced Chronic Colitis Attenuates Ca<sup>2+</sup>-activated Cl<sup>-</sup> Secretion in Murine Colon by Down-regulating TMEM16A." *Am J Physiol Cell Physiol*. 2018 Mar 21. doi:10.1152/ajpcell.00328.2017. [Epub ahead of print] PMID:29561662
- ◇ **Rottgen TS, Nickerson AJ, Rajendran VM**. "Calcium-Activated Cl<sup>-</sup> Channel: Insights on the Molecular Identity in Epithelial Tissues." *Int J Mol Sci*. 2018 May 10;19(5). pii: E1432. doi: 10.3390/ijms19051432. PMID: 29748496
- ◇ **Rajendran VM**, Seidler U, Schulzke J. "Chapter-58 Ion Channels of the Gastrointestinal Epithelial Cells in Physiology of the Intestinal Tract," 6th ed, Printed pages: 1363-1404, 2018, Ed. Said HM. Academic Press.
- ◇ Zhu S, Yam M, Wang Y, Linton JD, Grenell A, Hurley JB, **Du J**. "Impact of euthanasia, dissection and postmortem delay on metabolic profile in mouse retina and RPE/choroid." *Exp Eye Res*. 2018 Jun 1. pii: S0014-4835(18)30058-7. doi: 10.1016/j.exer.2018.05.032. PMID: 29864440.

**"Biochemistry is the science of life. All our life processes - walking, talking, moving, feeding - are essentially chemical reactions. So biochemistry is actually the chemistry of life, and it's supremely interesting."**

**~ Aaron Ciechanover**



## The[Spotlight]

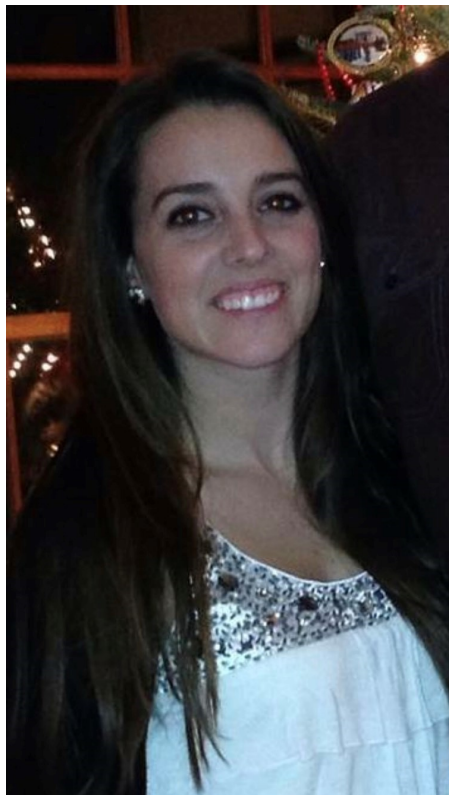
10 Things you didn't know about:

*Amy Boors*

### The Basics

Title: Lab Technician

Office/Lab: Agazie Lab, Rooms 3104, 3113



### **3. Biggest pet peeve?**

-People not using their manners

### **4. How many times, if any, did you change majors?**

-Once from pre-pharmacy to Biology and Chemistry

### **5. What is your most prized possession?**

-My son

### **6. Is there anything/anyone you love to hate?**

-My boyfriend on football days...SHHH

### **7. If you have a Facebook page, where was your profile picture taken?**

-Omni Bedford Springs Resort-Bedford, PA

### **8. What do you think people would be most surprised to know about you?**

-I'm a TBI survivor and was partially paralyzed on my left side. I had to learn to walk, talk, and regain maturity and comprehension again.

### **9. When you were a child, what did you want to be when you grew up?**

-Pediatrician

### **10. Best advice anyone's ever given you?**

-It never matters how long it takes you to achieve your dreams, it's the end result that matters.

### **1. What was your very first job?**

-Pharmacy Technician

### **2. Favorite junk food?**

-Ice Cream all the way!



***"Most people say that it is the intellect which makes a great scientist. They are wrong: it is character."***

***~Albert Einstein***

### *Deborah Hodge, Ph.D.*

#### **Scientific Review Officer**

**WVU Graduate Advisor:** Lisa Salati

**Degree Received/Graduation Year:** PhD  
Biochemistry/ 1997

#### **Current Position/Title/Location:**

Scientific Review Officer/Center for Scientific Review, National Institutes of Health/ Bethesda, MD

***What have you been up to since you left WVU? (Career, family, other life events that you would like to share.)***

I'll focus primarily on career as WVU prepared me well for this pathway. With a PhD in Biochemistry, I began my post-doctoral experience at the National Cancer Institute (NCI). My thesis work at WVU focused on regulation of gene expression and the knowledge obtained provided me with a solid foundation for continued research in this topic area at NCI. Overall, this made my transition relatively seamless. As career paths often go, I utilized my biochemical and molecular biology expertise from my WVU training at NCI, but also began to expand my knowledge into other areas of science. The NCI laboratory focused on gene regulation of innate immune factors and this was a field for which I had some understanding, but I knew there was much to be learned. For the next 5 years I continued to build on knowledge obtained from my PhD training and to expand my understanding of immunology. This continued learning experience allowed me to pursue a productive research career at NCI for many years. In 2014, my career path took a detour from research with an opportunity to transition to scientific administration. Although I had never imagined that scientific administration would be a career option when I began my PhD studies many years earlier, I knew that the transition from laboratory to administration would offer new opportunities and challenges, so I moved forward to a position at the Center for Scientific Review (CSR) at the National Institutes of Health (NIH). The move allowed me to



transition from a highly focused research career to one that involved a more global perspective of science. To provide some context on this move, NIH receives over 90,000 grant applications per year that require peer review, with CSR conducting the majority of this process by facilitating review of over 70,000 of these applications annually. Although the new position is fast paced and time driven as peer review occurs in three cycles per year, I find it to be highly rewarding and enjoyable due to my continued contribution to science, along with the many interactions I have with researchers from all over the US.

***What do you enjoy most about your current position, field of study, or your current life endeavors?***

One of the most exciting and enjoyable aspects of being a Scientific Review Officer is the opportunity to read copious amounts of material related to novel scientific discoveries and cutting-edge technologies and to see new directions being developed and taken in scientific fields. When I left the laboratory 4 years ago I knew that I had closed the door to performing and reporting and my own scientific work and this was a difficult thing to do. However, I have found that the breadth of scientific discovery I am exposed to, combined with the ability to work one on one with terrific scientists, is equally fulfilling.

***What advice would you give to current or incoming graduate students here at WVU?***

At times it is tough to know what area(s) to pursue or continue in an education

since the outcome will likely play a large role in future professional and personal decisions. My best advice is to follow one's interests and do not select an area of study for the simple monetary promise down the road. Obviously, a well-paid job is an endpoint for any advanced training, but students really need to focus on what gives them satisfaction at the end of the day. After all, the professional career path that follows completion of graduate training will be traveled for many years. Happiness and satisfaction with the job one does is a key factor in so many aspects of life including quality of health, productivity, and career advancement.

***What advice do you have for students getting ready to graduate during these difficult economic times?***

Do not get discouraged and stay positive. Getting the first opportunity to move forward is not easy but doors do open. This is true even for those who are in the workforce but want to transition. I know this first hand because my professional career development and trajectory did not happen overnight. There were multiple hurdles along the way, but with patience and perseverance I was able to carve a career path that has been extremely satisfying and rewarding.

***Any additional comments you'd like to include?***

I've focused quite a bit on how WVU influenced my professional life, but I admit my career has allowed me to meet a tremendous number of people from around the world with many interesting cultural backgrounds, lifestyle choices and religious beliefs. I have immensely enjoyed opportunities to share experiences and learn from each of these colleagues. Over the years, this spurred me to travel to many countries, learn new languages and experience new cultural traditions and cuisines. Because of this, I always enjoy travel planning and look forward to new adventures with great anticipation.



## [WVU Researchers Receive \$2.38M Grant]

### *WVU researchers receive \$2.38M grant for hybrid imaging system*

Two West Virginia University School of Medicine researchers have received \$2.38 million from the National Institutes of Health to build a one-of-a-kind pre-clinical imaging system that integrates PET-scan technology with a magnet-based imaging system that's akin to MRI.

Over four years, Dr. Ray Raylman, the vice chair of research in the Department of Radiology, and Dr. Mark Tseytlin, an assistant professor in the Department of Biochemistry, will build the system, which combines PET-scan components with electron paramagnetic resonance imaging (EPRI). The images that result can show researchers what's happening inside and around cells.

"One of the applications for the system is to correlate the intracellular function of the cell, which is what PET can do, with the extracellular environment, which EPRI examines," Raylman said.

EPRI operates on principles similar to MRI, but instead of imaging anatomy, EPRI can be used with specialized probes to measure chemical properties of tissue such as pH, oxygen concentration and phosphate levels. Its combination with PET will allow these characteristics of living tissue to be simultaneously correlated with cellular function, such as glucose metabolism.

During a PET scan, a radioactive tracer is injected into the tissue being studied. Its distribution throughout the body becomes visible on the resulting images, making it possible to quantify various components of tissue function.

WVU is "the only place in the world where two experts in the field of PET and EPRI can work together to make a dual-modality system," said Raylman. "In fact, NIH recognized this, and it was one of the main reasons we were able to receive this grant."

After Drs. Raylman, Tseytlin and their research team build the hybrid system, it

will become a tool for investigating tissue microenvironments that could potentially be leveraged by other WVU researches to open new areas of investigation.

"The system will be tested using a unique breast cancer model currently used at WVU. So, for example, if you understand how cancer cells manipulate their environment so they can spread easy, it could lead to insights into how to possibly limit its local spread," said Dr. Raylman.

"If you can change the microenvironment of a cancer cell," added Dr. Tseytlin, "you may have the capability to suppress the cancer."

The EPR equipment was partially funded by the West Virginia Clinical and Translational Science Institute. WVCTSI is funded by an IDeA Clinical and Translational grant from the National Institute of General Medical Sciences (5U54GM104942-03) to support the mission of building clinical and translational research infrastructure and capacity to impact health disparities in West Virginia.



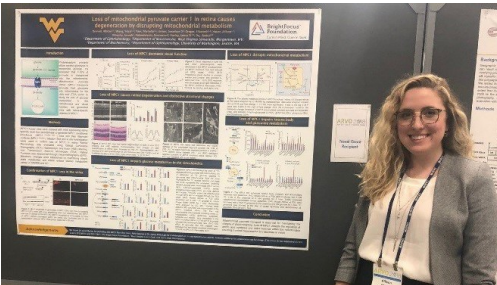
## [Meet The Mentors]

On Wednesday, August 29th, the Department of Biochemistry hosted a **Meet the Mentors** event at the Erickson Alumni Center for the incoming Graduate Students. This event was meant to give the students a look into the various labs and Available Mentors to choose from when selecting a lab to conduct their research in.



## [Update on the Jianhai Du Lab]

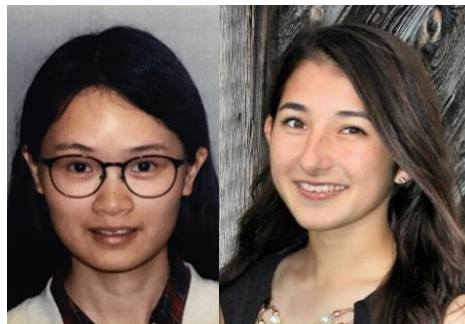
Allison Grenell, a research assistant in Dr. Jianhai Du's lab, was awarded a travel grant through the National Eye Institute to present her latest research at ARVO's annual conference earlier this year in Honolulu, Hawaii.



**Allison Grenell**

Allison's poster titled **"Loss of mitochondrial pyruvate carrier 1 in retina causes degeneration by disturbing mitochondrial metabolism"** was presented at the conference along with Dr. Jianhai Du who gave a talk at the conference on the latest research occurring in the Du Lab on retinal metabolism.

Since Dr. Jianhai Du's faculty appointment in the summer of 2016, the lab has made great progress and has grown substantially.

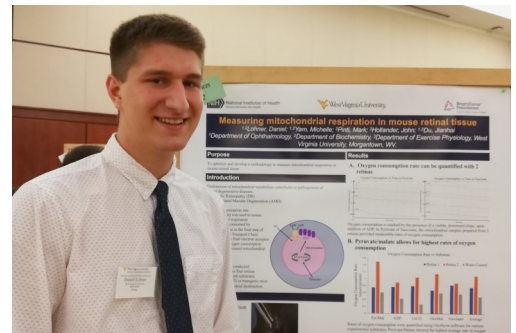


**Siyan Zhu • Emily Hayhurst**

This year the Du Lab welcomed their first graduate student, Siyan Zhu, along with undergraduates Allison Hauer, Elizabeth Gregor, William Gu, Emily Hayhurst, Cara Laswell, Marlee Dinterman, and Daniel Lohner.

The Du lab is also happy to announce that undergraduates Daniel Lohner and Emily

Hayhurst were admitted into WVU's SURE program to continue their research this summer. We would like to congratulate Allison on her presentation, and Daniel and Emily on their acceptance into SURE!



**Daniel Lohner**



**"Most people say that it is the intellect which makes a great scientist. They are wrong: it is character."**

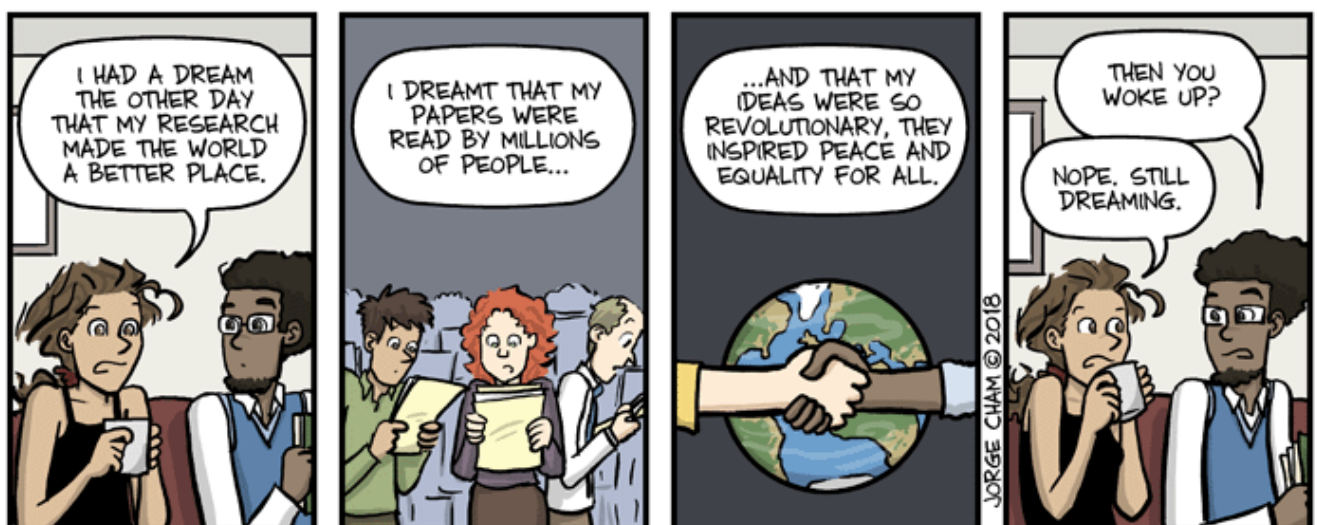
**~Albert Einstein**



## Biology Terms

M	D	O	E	C	I	N	O	T	R	E	P	Y	H
I	I	E	C	S	O	S	G	O	E	E	H	S	T
T	F	N	O	N	C	L	P	C	M	I	E	S	G
O	F	O	L	O	H	O	N	O	N	N	T	U	E
S	U	E	O	L	G	E	S	Z	E	E	E	O	N
I	S	S	G	O	I	O	E	G	S	N	R	G	E
S	I	A	Y	C	S	O	M	O	Y	Y	O	Y	T
O	O	H	S	Y	G	O	L	O	I	B	Z	Z	I
C	N	P	L	E	T	Z	L	M	I	S	Y	O	C
M	S	A	L	P	O	T	Y	C	R	T	G	M	S
E	A	N	A	T	O	M	Y	Y	S	E	O	O	Y
N	A	A	C	I	N	O	T	O	S	I	U	H	O
I	H	S	T	M	E	I	O	S	I	S	S	B	E
O	S	G	Y	O	E	G	I	M	A	Y	R	O	F

ANATOMY  
ANAPHASE ONE  
GENETICS  
BIOLOGY  
HYPERTONIC  
HETEROZYGOUS  
SCIENCE  
DIFFUSION  
GENES  
HOMOZYGOUS  
MEIOSIS  
CYTOPLASM  
MITOSIS  
LYSOSOME  
ECOLOGY  
ISOTONIC



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# [Crossword Puzzle]

2nd September

## ACROSS

- 1 Regained consciousness  
7 Vowel sound  
12 Some poets  
18 Rubs out  
19 "A League of \_\_\_ Own"  
20 Vagabond  
21 Past and future, e.g.  
22 Long Asian waterway  
24 Roxy Music keyboardist Brian  
25 Singer Judd et al.  
27 Elvers  
28 Rosary bead  
29 Oodles  
31 Diarist Anaïs  
32 Gig gear  
33 These may be inflated  
34 Concerning  
35 Fish delicacy  
36 Hair fastener  
37 Observant  
38 Reese in "Wild," e.g.

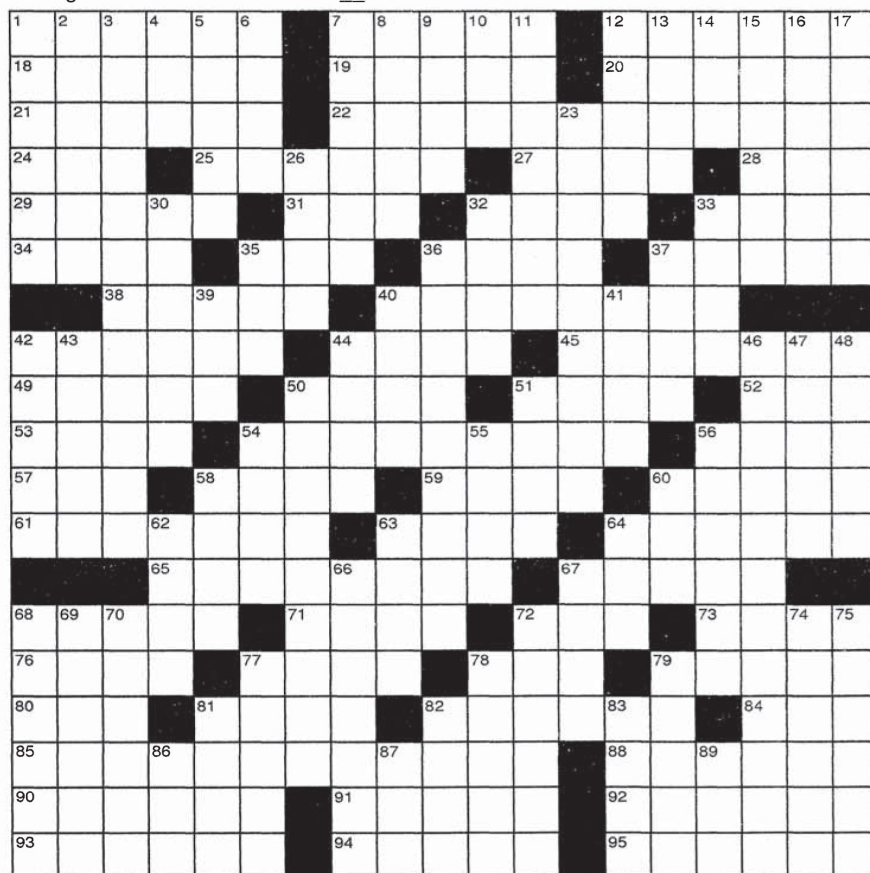
- 40 Embarrassing spots  
42 Preparatory step, for short  
44 Microscope glass  
45 Defensive ends, e.g.  
49 Ply  
50 Shock  
51 Skid row figure  
52 High note for Guido  
53 Beame and Vigoda  
54 Baptism sponsor  
56 Too proper  
57 Gp. for LeBron and Manu  
58 '50s soda  
59 Dames  
60 Pucker, as the lips  
61 Obnoxious celebrator's noisemaker  
63 Pulsate  
64 One who falls in line  
65 Galosh  
67 Hipster's lingo  
68 January events  
71 MTV's "\_\_\_ Flux"

- 72 Nesselrode, for one  
73 Cargo weights  
76 Bartok and Tanguay  
77 Pt. of AARP  
78 "The Ring" founder Fleischer  
79 "Vive \_\_\_!"  
80 Dunker's hanging spot  
81 Recedes  
82 Perceive  
84 Medicates too much: abbr.  
85 "The Blue Boy" painter  
88 Find "not guilty"  
90 Natural  
91 It comes before febrero  
92 Move like Tigger  
93 They fought Kiowas  
94 Certain Surrealist paintings  
95 Certain playground frolicker

## DOWN

- 1 Former Chicago singer Peter  
2 Sport theaters  
3 "Time" prize  
4 Pluralizer  
5 "CosmoGIRL!" subscribers  
6 "...and from \_\_\_ hurled Pelion" (Ovid)  
7 Bad news for a golfer  
8 Dungeon clanker  
9 Poultry  
10 Peruke  
11 Huntress of mythology  
12 Kadetts and Corsas  
13 Hitchcock and Cimino: abbr.  
14 Here, to Henri  
15 "The \_\_\_ Mind" (Lévi-Strauss)  
16 Actor Howard  
17 Most achy  
23 Airships  
26 \_\_\_ about (approximately)  
30 Sheer linen fabrics

- 32 Heights: abbr.  
33 Bully's threat ender, often  
35 "The One I Love" singers  
36 Spreading of disease  
37 \_\_\_ time (never)  
39 Champagne-cassis concoction  
40 What a 911 caller seeks  
41 "\_\_\_ Got No" ("Hair" song)  
42 Flat country, to Francisco  
43 Browning's Ben Ezra, e.g.  
44 New Jersey or California city  
46 Amusement park staple  
47 Beethoven wrote a bagatelle "für" her  
48 Designator  
50 Stallone role  
51 Bandleader Lawrence  
54 "First Knight" star  
55 Atalanta's contest  
56 "King of Latin Music" Tito  
58 Fall mos.  
60 Cops' gp.  
62 Implements for mixing mortar  
63 God of Marvel Comics  
64 Cheer for Manolete  
66 Becomes angry  
67 Locale  
68 Brazil '66 frontman Mendes  
69 Birds  
70 Thin scale  
72 Pity  
74 Adamant disavowal  
75 Meg March, to Jo  
77 Singer Lane et al.  
78 Vamp Pola  
79 Ollie North's rank: abbr.  
81 Spanish direction  
82 Burr-Hamilton encounter  
83 They're hard to find in the rain  
86 Badger  
87 "Come \_\_\_ My House"  
89 Who: Fr.



freedailycrosswords.com

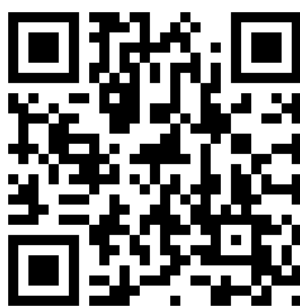
Crossword Puzzle answers located on the back page [No  KING...]

[Coffee Break]

## [Upcoming Events]

### WVU and Morgantown Upcoming Events (September 2018 through November 2018)

<b>Sept 2018</b>			
9/1/2018	WVU Football vs Tennessee Volunteers	3:30 PM	Charlotte, NC
9/3/2018	Labor Day - WVU Closed		
9/8/2018	WVU Football vs Youngstown State	6:00 PM	Milan Puskar Stadium, Morgantown WV
9/11/2018	Faculty Meeting	Noon	Wirtz Library
9/15-16/2018	WV Wine & Jazz Festival	11 AM - 6 PM	Camp Muffly, Morgantown WV
9/22/2018	WVU Football vs Kansas State	TBA	Milan Puskar Stadium, Morgantown WV
9/25/2018	Seminar Speaker Saswata Talukdar, PhD	Noon	Room E225 WVU Eye Institute
9/27/2018	Music at the Pylons	Noon - 1 PM	Robert C. Byrd Health Sciences Center
9/27-30/2018	77th Preston County Buckwheat Festival	All Day	Kingwood, WV
<b>Oct 2018</b>			
10/2/2018	Out of Area Seminar Speaker Skye Hickling	Noon	Room E225 WVU Eye Institute
10/6/2018	WVU Football vs Kansas Jayhawks	TBA	Milan Puskar Stadium, Morgantown WV
10/7/2018	Pat Benatar & Neil Giraldo Concert	7:30 PM	WVU Creative Arts Center
10/9/2018	Faculty Meeting	Noon	Wirtz Library
10/16/2018	Seminar Speaker Douglas Dean, PhD	Noon	Room E225 WVU Eye Institute
10/19-27/2018	Mountaineer Week	Daily	Mountainlair Ballrooms
10/22/2018	Music at the Pylons	Noon	Robert C. Byrd Health Sciences Center
10/23/2018	Seminar Speaker Saravanan Kolandaivelu, PhD	Noon	Room E225 WVU Eye Institute
10/24/2018	Cancer Cell Biology Seminar: Bradley Webb, PhD	Noon	Room 2157 HSCN
10/25/2018	WVU Football vs Baylor Bears	7:00 PM	Milan Puskar Stadium, Morgantown WV
10/28/2018	Wizard of Oz	6:00 PM	WVU Creative Arts Center
<b>Nov 2018</b>			
11/6/2018	General Election Day - WVU Closed		
11/6/2018	The Simon & Garfunkel Story	7:30 PM	WVU Creative Arts Center
11/10/2018	WVU Football vs TCU Horned Frogs	TBA	Milan Puskar Stadium, Morgantown WV
11/13/2018	Faculty Meeting	Noon	Wirtz Library
11/14/2018	Music at the Pylons	Noon	Robert C. Byrd Health Sciences Center
11/21-23/2018	Thanksgiving Break - WVU Closed		
11/23/2018	WVU Football vs Oklahoma Sooners	8:00 PM	Milan Puskar Stadium, Morgantown WV
11/27/2018	Seminar Speaker Brian Mackenzie, PhD	Noon	Room E225 WVU Eye Institute



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