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!!

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!!

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.

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

[Chair’s Corner]

[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 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]


"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
10 Things you didn’t know about:

Amy Boors

The Basics
Title: Lab Technician
Office/Lab: Agazie Lab, Rooms 3104, 3113

1. What was your very first job?
-Pharmacy Technician

2. Favorite junk food?
-Ice Cream all the way!

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.

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

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’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!

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

~Albert Einstein
Biology Terms

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

I HAD A DREAM
THE OTHER DAY
THAT MY RESEARCH
MADE THE WORLD
A BETTER PLACE.

I DREAMT THAT MY
PAPERS WERE
READ BY MILLIONS
OF PEOPLE...

...AND THAT MY
IDEAS WERE SO
REVOLUTIONARY, THEY
INSPIRED PEACE AND
EQUALITY FOR ALL.

THEN YOU
WOKE UP?

NOPE. STILL
DREAMING.

WWW.PHDCOMICS.COM
Crossword Puzzle

ACROSS
1 Regained consciousness
2 Vowel sound
7 Some poets
12 Rubs out
15 "A League of __ Own"
16 Vagabond
18 "Past and future, e.g."
22 Long Asian waterway
24 Roxy Music keyboardist Brian
25 Singer Judd et al.
26 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 Observer
38 Reese in "Wild, e.g.

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
18 Airships
19__about (approximately)
20 Sheer linen fabrics
21 Heights: abbr.
22 Bully’s threat ender, often
23 "The One I Love" singers
24 Spreading of disease
25__time (never)
26 Champagne-cassis concoction
27 What a 911 caller seeks
28__Got No" ("Hair" song)
29 Fiat country, to
30 Browning’s Ben Ezra, e.g.
31 New Jersey or California city
32 Amusement park staple
33 Beethoven wrote a bagatelle "für" her
34 Designator
35 Stallone role
36 Bandleader Lawrence
37 Alatala’s contest
38 "King of Latin Music" Tito
39 Fall mos.
40 Cops’ gp.
41 Implement for mixing mortar
42 God of Marvel Comics
43 Cheer for Manolete
44 Becomes angry
45 Locale
46 Brazil ‘66 frontman Mendes
47 Birds
48 Thin scale
49 Pity
50 Adamant disavowal
51 Meg March, to Jo
52 Singer Lane et al.
53 Vamp Pola
54 Ollie North’s rank: abbr.
55 Spanish direction
56 Burr-Hamilton encounter
57 They’re hard to find in the rain
58 Badger
59 "Come ___ My House"
60 Who: Fr.

2nd September

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 Pulse rate
64 One who falls in line
65 Galosh
67 Hipster’s lingo
68 January events
71 MTV’s "__Flux"
72 Nessielodge, for one
73 Cargo weights
74 Bartok and Tanguay
77 Pl. 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 Comes before febrero
92 Move like Tigger
93 They fought Kiowas
94 Certain Surrealist paintings
95 Certain playground frolicker

freedailycrosswords.com

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

[Graphic Image]
## WVU and Morgantown Upcoming Events (September 2018 through November 2018)

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

Check out the Biochemistry Website

[QR Code]

Available Resources:
- Check out the Biochemistry Website
- WVU and Morgantown Upcoming Events

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**Please recycle**

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