

M1D7:
**Identify chemical structures
common among FKBP12 binders**

03/07/2017

Biological Engineering / Course 20

Random Acts of Kindness Week

March 6 - 10



TechCash

We're handing a \$5.00 TechCash card to BE / Course 20 students, undergraduate & graduate. All we ask is that you use the card on someone else; someone who could use a coffee, a snack, or just a little kindness.

TechCash cards available:

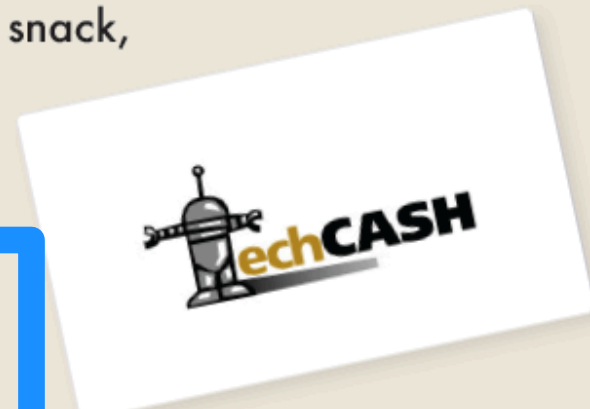
Monday, March 6

10am - 12pm

Tuesday, March 7

1pm - 3pm

Dan Darling in 16-257



A happier Wednesday!



Tommy Time!

Come visit with BE's very own Tommy—a friendly, adorable, and charming puppy dog!

Tommy will hold his *office hours*:
Wednesday, March 8, 2017
11am - 12:30pm
56-302



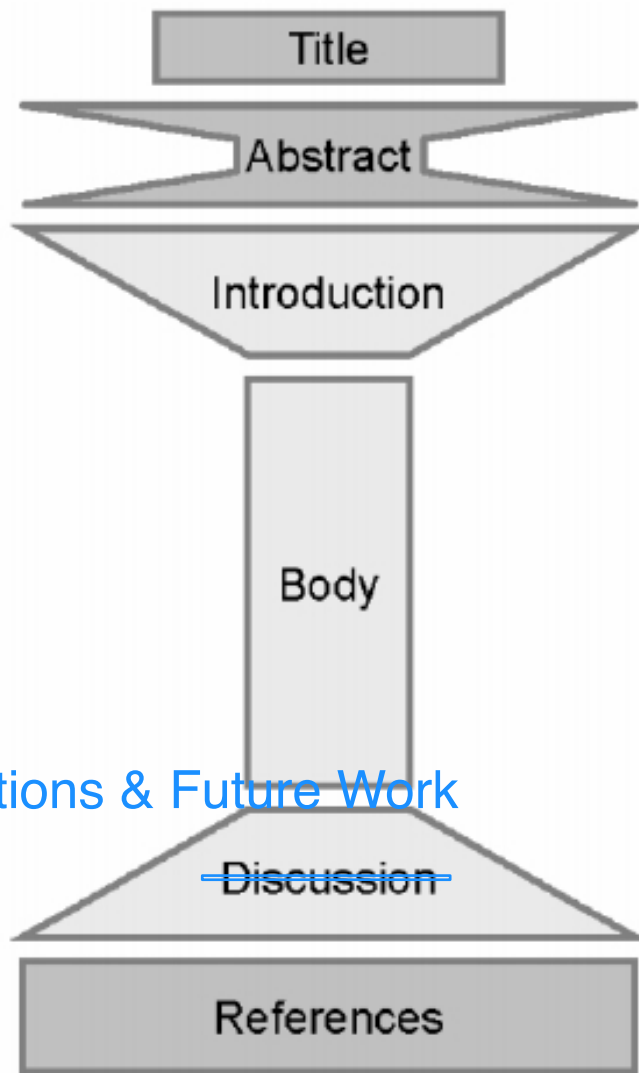
#MITRAK

MIT **BE**
BIOLOGICAL ENGINEERING

M1 major assignments

- Lab quizzes (extra credit on homework grade)
- Notebook (5% total)
 - Rob will grade **M1D5** at 10pm tonight
- **Data summary** (15%)
 - in teams, on Stellar **Monday**
 - draft due at 10pm on **Wednesday**, 03/13, final revision due 03/27
 - bullet points, .PPTX **or** .DOC
- Mini-presentation (5%)
 - individual, video via Gmail, **introduce yourself**
 - due 03/18
- Blog: <http://be20109s17.blogspot.com/> (participation: 5% total)
 - by 04/03

Your M1 Data Summary



Title: take-home message

Abstract: the only page *not* in bullet points

In bullet points:

Introduction: background and motivation

Results and
interpretation / discussion
bundled together

transitions from one page to the next

Implications and future work

References (*not* in bullet points)

by appointment: nlyell@, lesliemm@, jonas_m@



Office hours

Noreen Lyell

- M 2-5
- in 16-317



Leslie McClain

- T 9:30-11
- in 56-341c



Maxine Jonas

- R 9:30-11
- In 56-322

+ Extra

Friday, 03/10

- 9-11am
- in 56-322

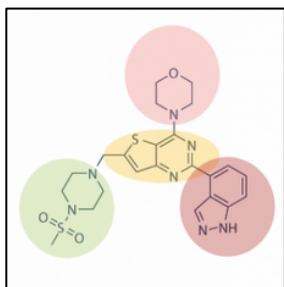
Saturday, 03/11

- 12-5pm
- in 56-302

In lab today



- Quiz
- Prelab



- Visually evaluate chemical structures of positive hits

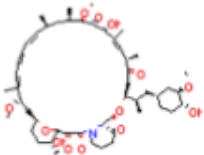
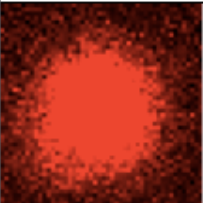
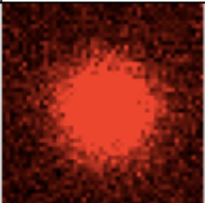
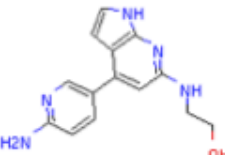
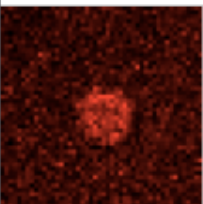
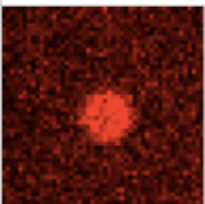
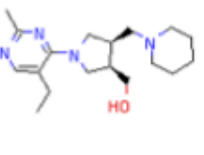
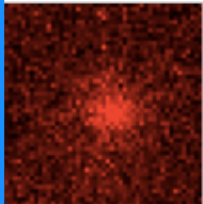
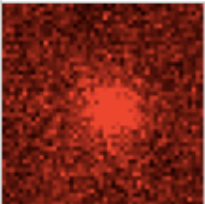
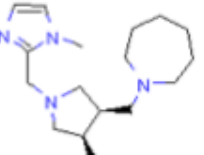
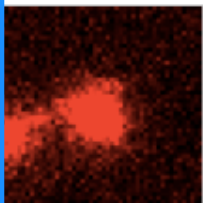
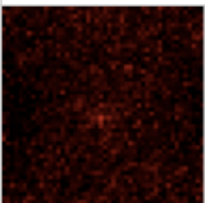


- Develop Future Work and Implications section

Main M1's Discussion page:

[http://engineerbiology.org/wiki/Talk:20.109\(S17\):Module_1](http://engineerbiology.org/wiki/Talk:20.109(S17):Module_1)

By-eye analysis of "hits": FKBP12 binders

	A	B	C	D	E	F	G	H
	Name	Average SNR 635	StDev SNR 635	Robust Z	CV	Structure	Replicate 1	Replicate 2
1								
2	<chem>@@H](O)[C@@H](OC)C(=O)[C@H](C)[C@H](C)\C=C\C=C=C/C/C)[C@</chem>	5.02	1.26	26.73	0.25			
3	<chem>C1=CC(=NC=C1C2=CC(=NC3=C2C=CN3)NCCO)N</chem>	2.61	0.62	13.97	0.24			
4	<chem>CCC1=CN=C(N=C1N2C[C@H]([C@H](C2)CO)CN3CCCCC3)C</chem>	2.48	0.22	13.34	0.09			
5	<chem>CN1C=CN=C1CN2C[C@H]([C@H](C2)CO)CN3CCCCC3</chem>	2.34	2.46	12.57	1.05			

THANK YOU, Rob!