

ATS Virtual SPATS Program



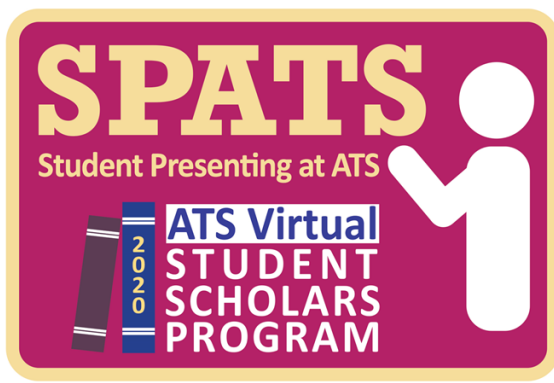
SPATS

Student Presenting at ATS



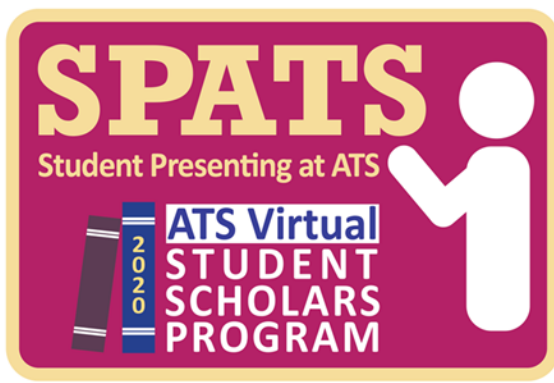
ATS Virtual
STUDENT
SCHOLARS
PROGRAM





Rules

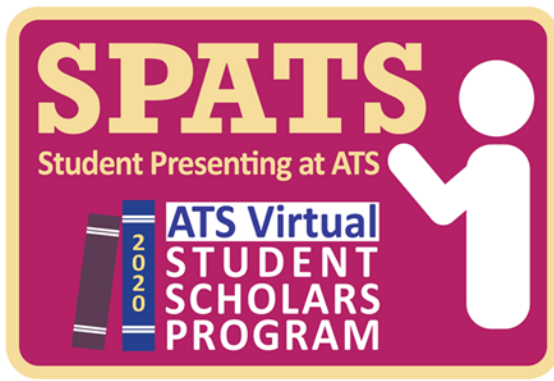
- A single static PowerPoint slide is permitted (no slide transitions, animations or 'movement' of any description, the slide is to be presented from the beginning of the oration).
- No additional electronic media (e.g. sound and video files) are permitted.
- No additional props (e.g. costumes, musical instruments, laboratory equipment) are permitted.
- Presentations are limited to 3 minutes maximum, and presenters will have points deducted if they exceed the 3 minutes
- Presentations are to be spoken word (e.g. no poems, raps or songs).
- Presentations are to commence from the stage (e.g. no walking through the audience).
- Presentations are considered to have commenced when a presenter starts her/his presentation through movement or speech.
- The decision of the adjudicating panel is final.



Judging Criteria

Comprehension & Content

- Did the presentation provide an understanding of the background to the research question being addressed and its significance?
- Did the presentation clearly describe the key results of the research including conclusions and outcomes?
- Did the presentation follow a clear and logical sequence?
- Was the thesis topic, key results, and research significance and outcomes communicated in language appropriate to a non-specialist audience?
- Did the speaker avoid scientific jargon, explain terminology, and provide adequate background information to illustrate points?
- Did the presenter spend adequate time on each element of their presentation - or did they elaborate for too long on one aspect or was the presentation rushed?



Judging Criteria

Engagement & Communication

- Did the oration make the audience want to know more?
- Was the presenter careful not to trivialise or overly generalise their research?
- Did the presenter convey enthusiasm for their research?
- Did the presenter capture and maintain the audience's attention?
- Did the speaker have sufficient vocal range, maintain a steady pace, and have a confident stance?
- Did the PowerPoint slide enhance the presentation - was it clear, legible, and concise?



Today, August 4 SPATS Presenters:

7-830PM EST:

1. Daniel Mai
2. Nicole Robertson
3. Sophia Levan
4. Diego Alexei Tovar Giombini
5. Kermit Zhang
6. Niyati Borkar
7. Brett Curtis
8. Nicole Buchely

Interaction Between AP-1 and SWI/SNF Under Disturbed Flow May Promote Vascular Inflammation

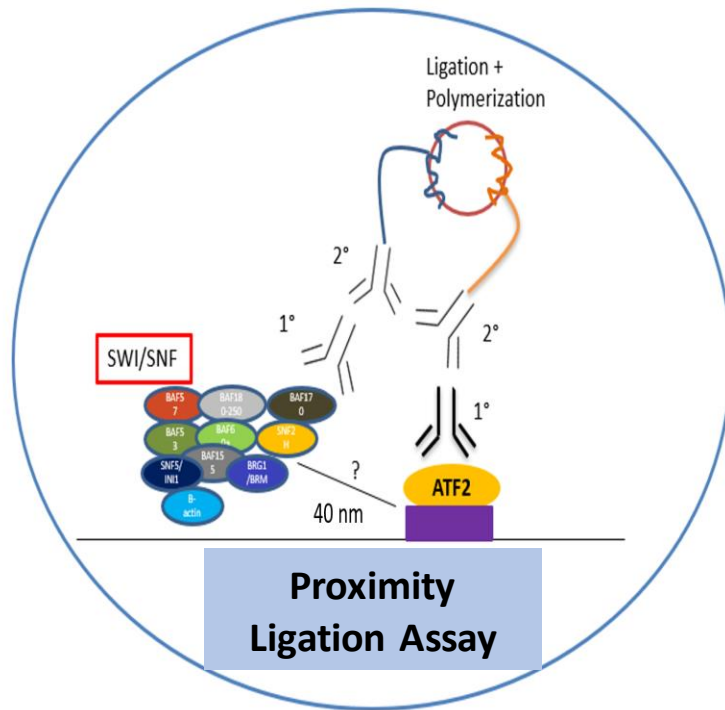
Daniel Mai, BA, Jan-Renien Moonen, PhD, Marlene Rabinovitch, MD

Disturbed Flow Conditions (DSS)

Nucleus

↑ AP-1 (activated)

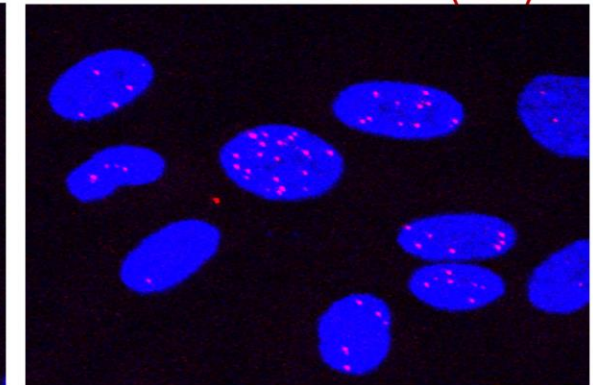
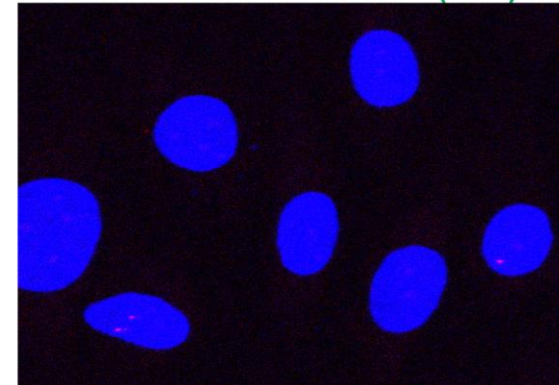
Working
Model



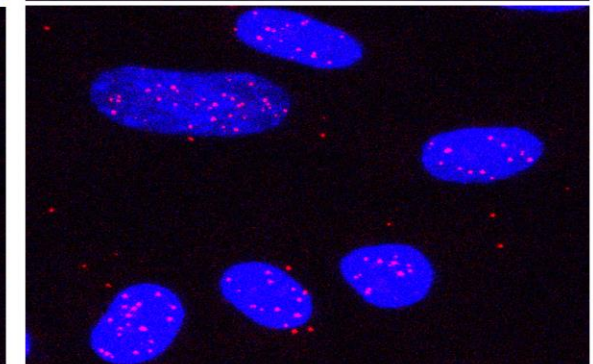
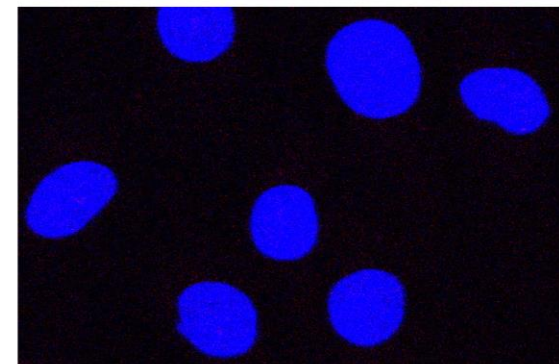
Laminar Shear Stress (LSS)

Disturbed Shear Stress (DSS)

ATF2-
BRG1






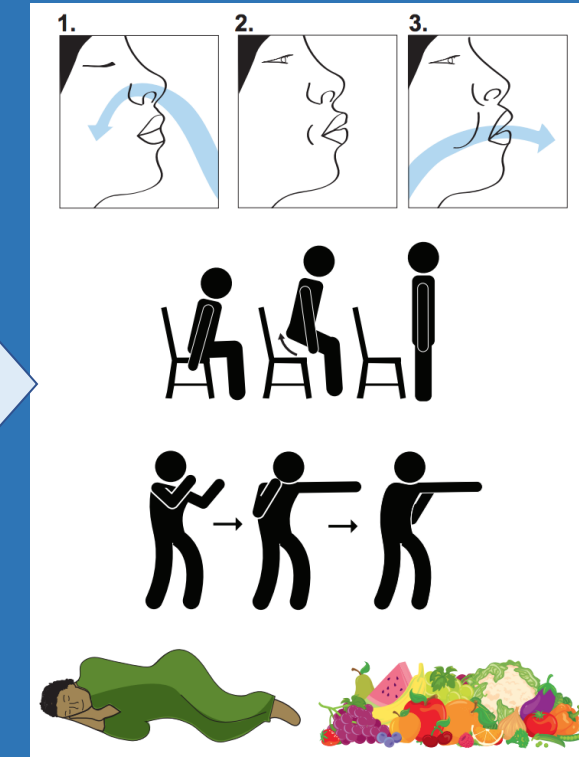
ATF2-
BAF170



Knowledge is Power

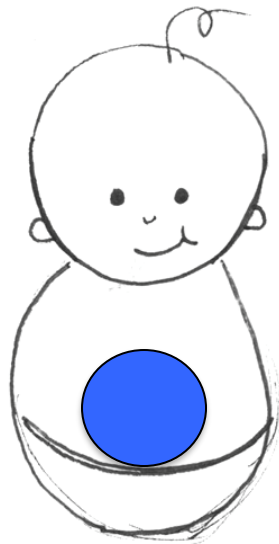


<p>If</p> <p>I can do my usual activities (e.g. walking) without feeling more short of breath or breathing faster</p> <p>I have my usual amount of cough</p> <p>I have my usual amount of sputum / phlegm (expectoration)</p> <p>My sputum / phlegm is the usual colour</p> <p>THEN</p> <p>I am in the GREEN ZONE: I am doing well today</p>	<p>Actions:</p> <ul style="list-style-type: none">• Continue taking daily medicines if you have them• Continue feeling active• Have a balanced diet with fruit and vegetables• Avoid cigarette smoke and smoke in the home 
<p>If</p> <p>I feel more short of breath or breathe faster doing my usual activities (e.g. walking, or</p> <p>The medicines I take for COPD, if I take any, aren't working so well today</p> <p>THEN</p> <p>I am in the YELLOW ZONE: I am having a bad day or a COPD flare / attack (cough / 'smoker's cough')</p>	<p>Actions:</p> <ul style="list-style-type: none">• Keep taking your daily medication if you use any (pre-start them if you stopped)• Use a 'quick relief' inhaler called _____ every 6 hours if you have one• Start oral steroid tablets _____• Avoid smoke• Contact your CHW if the symptoms don't improve
<p>If</p> <p>I feel more short of breath or breathe faster doing my usual activities (e.g. walking, or</p> <p>The medicines I take for COPD, if I take any, aren't working so well today</p> <p>AND</p> <p>I am coughing more sputum / phlegm than usual</p> <p>My sputum / phlegm is darker than usual</p> <p>THEN</p> <p>I am in the YELLOW ZONE: I am having a bad day or a COPD flare (attack/cough) / 'smoker's cough'</p> 	<p>Actions:</p> <ul style="list-style-type: none">• Keep taking your daily medication if you use any (pre-start them if you stopped)• Use a 'quick relief' inhaler called _____ every 6 hours if you have one• Start oral steroid tablets _____• Start antibiotics tablets _____• Avoid smoke• Contact your CHW if the symptoms don't improve
	<p>If</p> <p>I have severe shortness of breath / fast breathing at rest/ feel I am suffocating</p> <p>And one or more of</p> <ul style="list-style-type: none">• Bad chest pain• High fever (more than 38°C) and/or chills• Coughing blood• Other people notice I have become confused or drowsy <p>THEN</p> <p>I am in the RED ZONE: I need urgent medical advice</p> <p>Action: Seek urgent medical care at your local clinic or hospital</p>

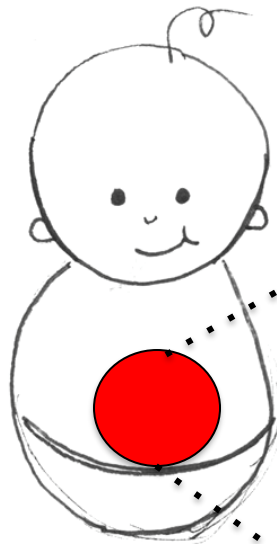


Poopology 101:

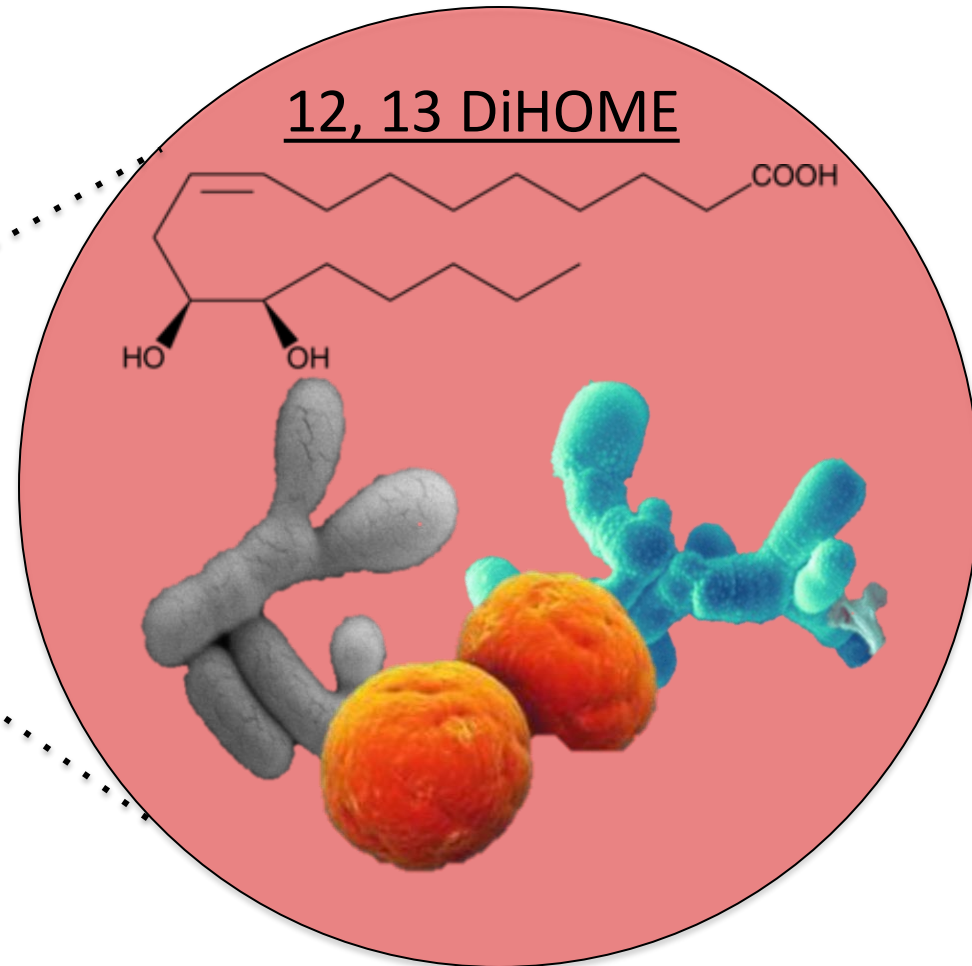
Using baby poop to predict childhood allergies and asthma



Low Risk



High Risk



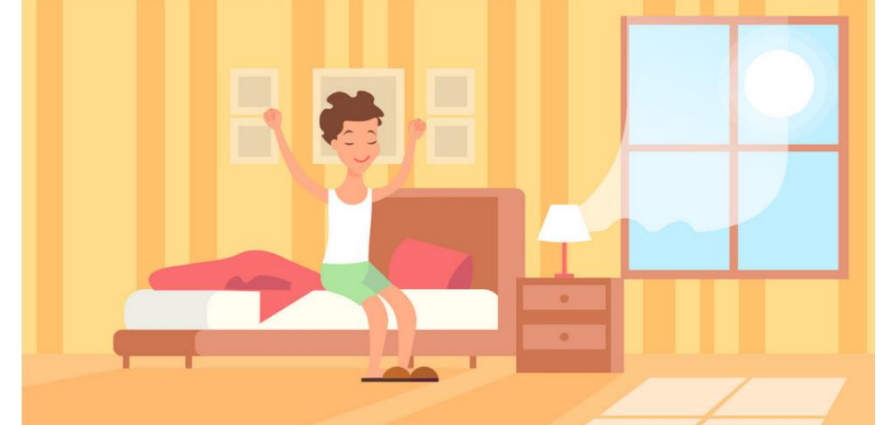
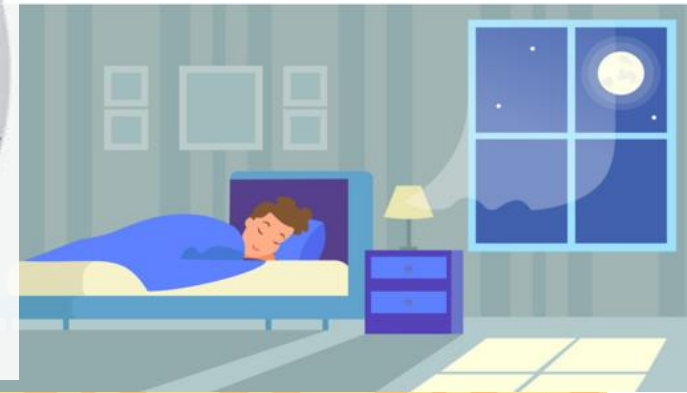
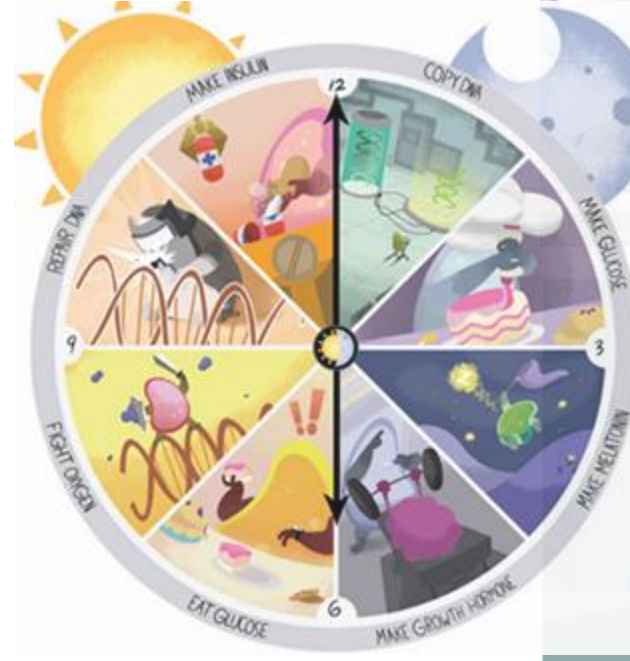
Argument For Sleep: The Intensive Care Unit's Hidden Killer



Agitation

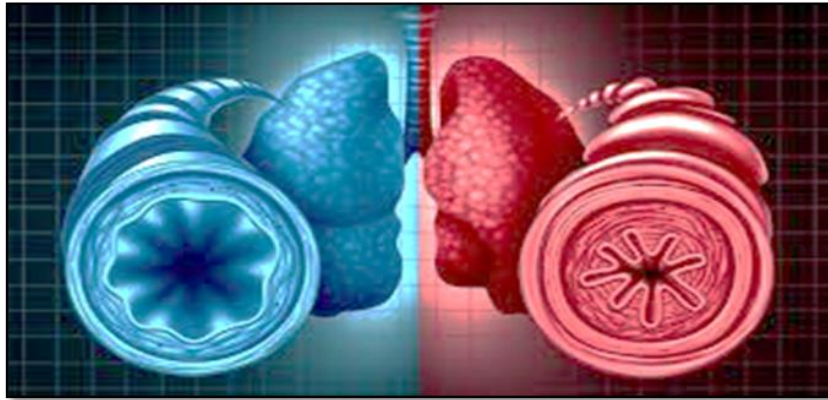
Pain

Delirium





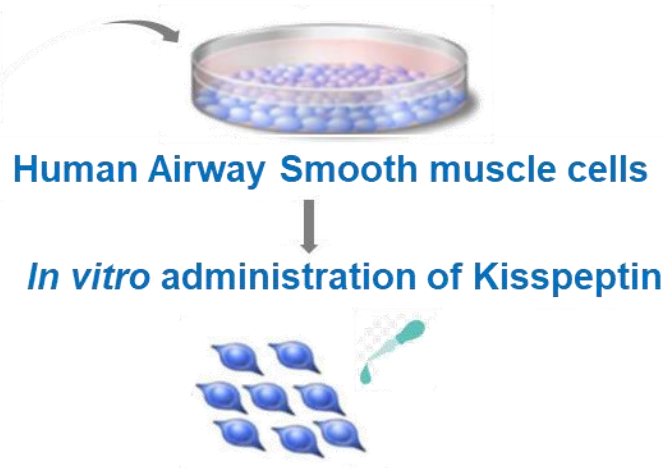
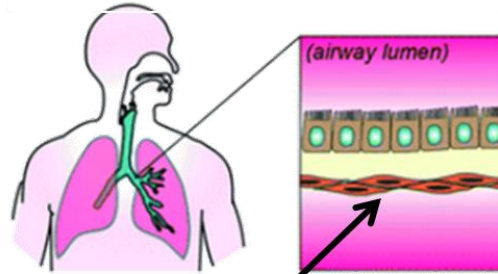
What is Asthma?



Asthma: Gender Statistics

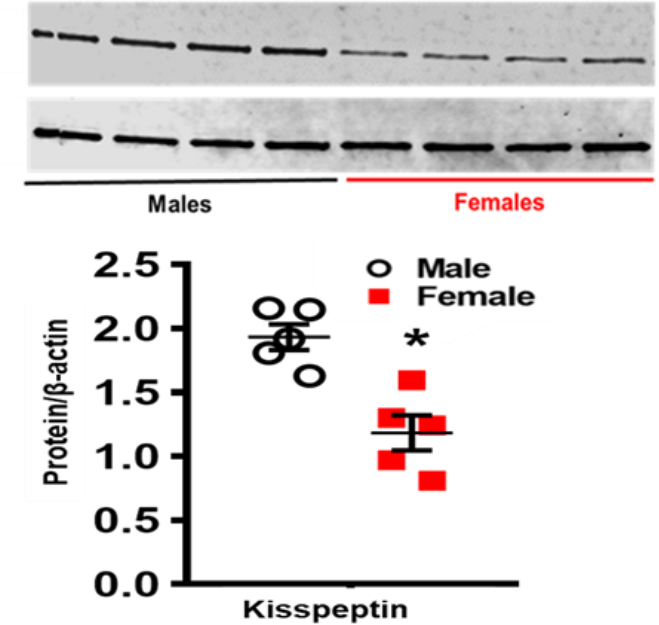


Asthmatic and non-asthmatic cells from male and female



Kisspeptin

β -actin



Personalized treatment for asthma



Kisspeptins: A New targeted therapy for Asthma



Goldilocks and O₂ in the ICU

