CourseSource - Recently Published

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We'll send these Recently Published notices more frequently (but still sparingly!) in the coming months!

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Does organelle shape matter?: Exploring patterns in cell shape and structure with high-throughput (HT) imaging
Goller CC, Johnson GT, Casimo K

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Meiosis remodeled: Inclusion of new parts to Poppit Bead models enhances understanding of meiosis
LaFountain JR, Rickards GK

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Design your own flow cytometry experiment: A four-week inquiry laboratory
Dolence JJ

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A CURE for Salmonella: A laboratory course in pathogen microbiology and genomics
Jurgensen SK, Harsh J, Herrick JB
Single cell insights into cancer transcriptomes: A five-part single-cell RNAseq case study lesson
Kleinschmit A, Solem A, Goller CC

A remote-learning framework for student research projects: using datasets to teach experimental design, data analysis and science communication
Popolozio TR, Killpack TLA

Problem-based learning for physiology: Synthesizing the cardiovascular system, respiration, macronutrient metabolism, and renal function
Vita AA, Royse EA, Pullen NA

Exploring miracle fruit: an undergraduate laboratory exercise on experimental design
Ganser SJ, Hines JK, Butler MW

A student-led hearing on the use of HeLa cells in research
Stearns J, O'Donavan KJ, Eslinger M

Targeting misconceptions in the central dogma by examining viral infection
DeVito SR

From dirt to Streptomyces DNA
Brodkin MA
It's a substrate... it's a protein... no - it's an enzyme! Teaching using 3D serine protease physical modeling activities to confront misconceptions
Terrell CR, Kersten CA

Designing an asynchronous, self-led aquatic ecology field trip
Washko SE

Moths and frogs and E. coli, oh my!: agent-based modeling of evolutionary systems
Garretson A, Crerar LD

An active learning workshop to teach active learning strategies
Ma EY, Freisem K, Al-Noori S, Klein ER, Price RM

Developing decolonial consciousness in biology students through critical reflection assignments
Walsh LL

Teaching cancer biology through a lens of social justice
Mera YA, Wiggins BL

"I really enjoy these annotations:" Examining primary biological literature using collaborative annotation
Cafferty PW

A 360° view of COVID-19
Tsotakos N, Del Gaizo Moore V, Scheifele LZ, Wolyniak MJ, Chihade JW, Provost JJ, Roecklein-Canfield JA
How do kidneys make urine from blood? Qualitative and quantitative approaches to filtration, secretion, reabsorption, and excretion
Crowther GJ

Using bioinformatics and molecular visualization to develop student hypotheses in a malate dehydrogenase oriented CURE
Callahan K, Mans T, Zhang J, Bell E, Bell J

Teaching the central dogma using a case study of genetic variation in cystic fibrosis
Hare-Harris AE

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