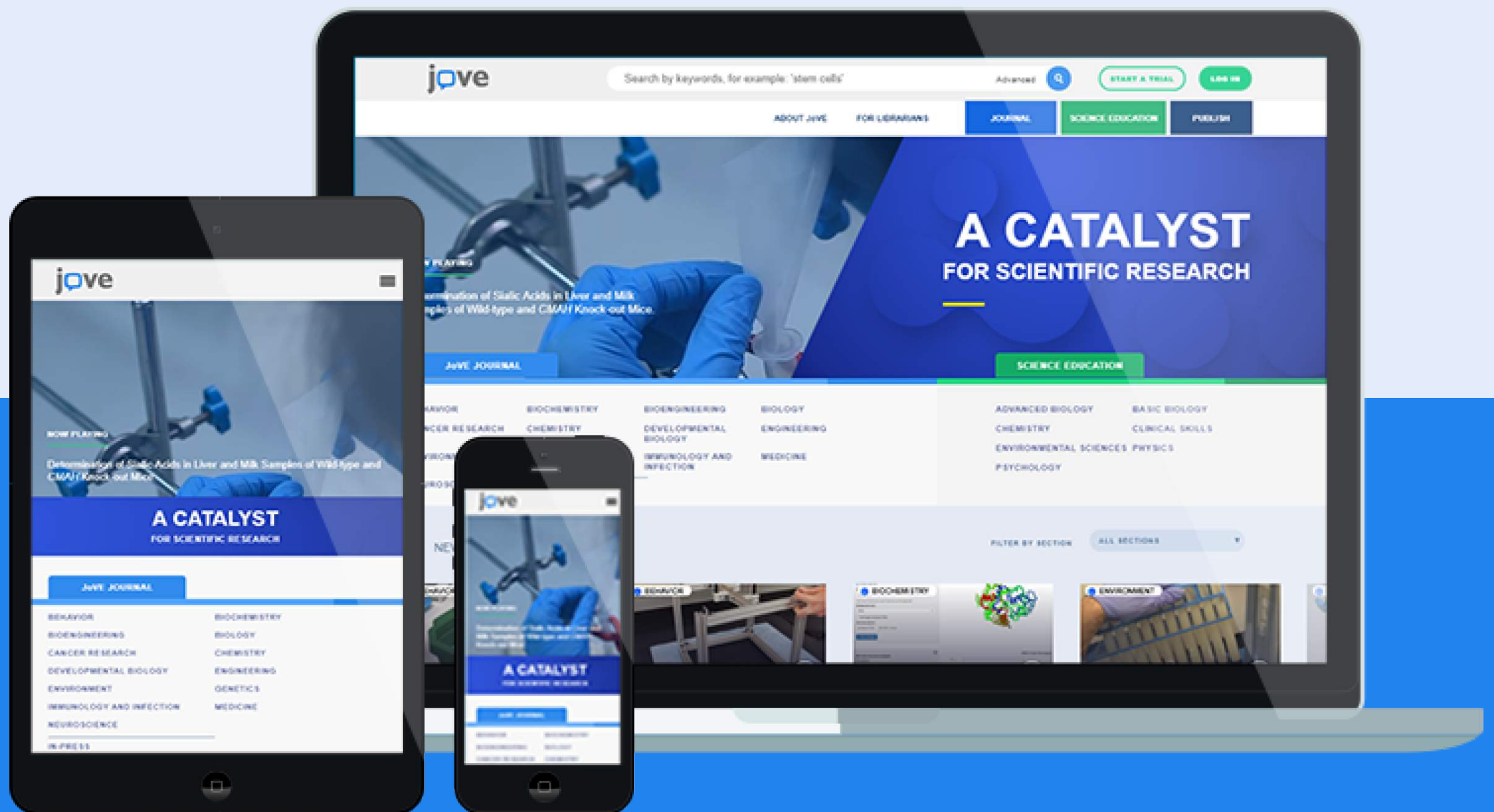




JoVE USER GUIDE

JoVE is the ultimate solution for advancing research and science education by filming, producing, and publishing videos of scientific experiments from the top laboratories around the globe.

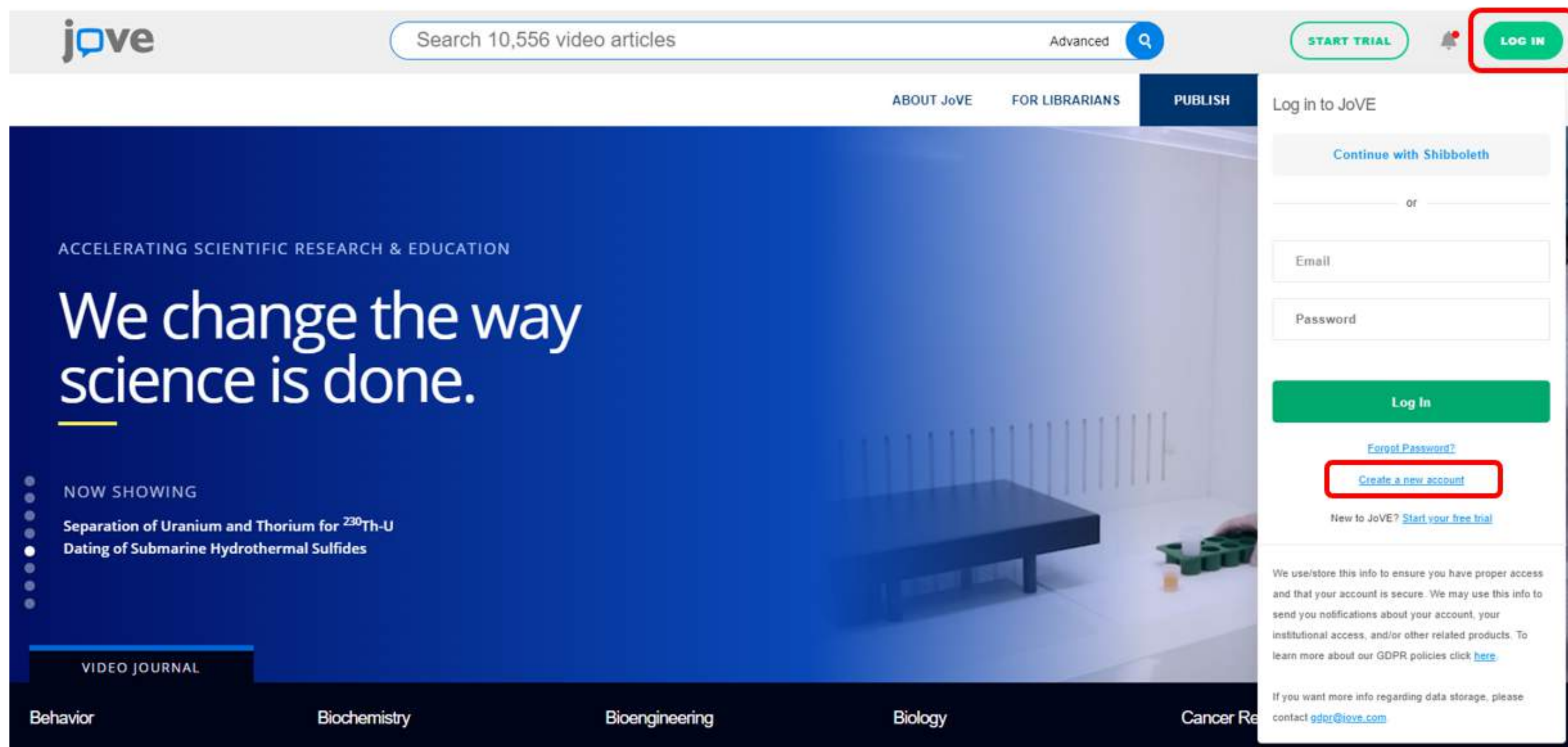
Check your access at www.jove.com/access



Updated May 2019

Creating An Account With JoVE

Users can create an account with their institutional emails in order to have off-site access. To create an account, click "**log-in**" at the top right-hand corner of the website, and then "**create an account**."



Once you are on the page shown below, fill out the information. Be sure to use your company's email address — subscriptions are recognized by email domain and/or IP address.

Creating an account is easy and free.

With an account you can use your institution's subscription even when off campus, and you can post questions for article authors. [By creating an account on JoVE with your institutional email address, we will grant you a free trial, which will activate upon account verification.](#) Please note that the domain of your email address must match a subscribing institution for access to be granted.

Wondering if your institution subscribes to JoVE? See our [subscriber list](#).

More information about JoVE subscriptions is available [here](#) or contact our [subscriptions department](#) directly.

Fields marked with an asterisk (*) are required.

First Name *	Institution *
Last Name *	Select a Country * 
Institutional Email: * 	Select a Role * 
Password *	Please select your field of expertise * 
Verify Password *	

CREATE ACCOUNT



We use/store this info to ensure you have proper access and that your account is secure. We may use this info to send you notifications about your account, your institutional access, and/or other related products. To learn more about our GDPR policies click [here](#).

If you want more info regarding data storage, please contact gdpr@jove.com.

Once you create an account, you will also have access to the following features in your Profile:

- **VIEW WATCH HISTORY**

Find a previously watched article easily with this watch history feature.

- **FAVORITE ARTICLES**

*Access your favorite video articles playlist here. To add a video, simply click the "**Add to Favorites**" button under the video player on the article page.*

- **CITATIONS LISTINGS**

*Access the list of all the video articles you have cited. To add an article, simply click the "**Cite This**" button at the top of the video player on an article page.*

- **ACCOUNT INFO**

Manage your account settings.

- **JoVE ACCESS**

This page showcases all of the video content your institution has access to, as well as the ones you don't have access to.

The screenshot displays the JoVE website interface for a user named Emily Goh. At the top, there is a search bar with the text "Search 10,556 video articles" and an "Advanced" search option. To the right of the search bar is a "Library" icon and a user profile icon labeled "E". Below the search bar is a navigation menu with tabs for "ABOUT JoVE", "FOR LIBRARIANS", "PUBLISH", "VIDEO JOURNAL", and "SCIENCE EDUCATION". The main header area features a large blue banner with the text "WELCOME EMILY GOH". Below this banner is a row of navigation buttons: "HOME", "VIEW WATCH HISTORY", "FAVORITE ARTICLES", "CITATIONS LISTING", "MY TESTS", "ACCOUNT INFO", and "JoVE ACCESS". The main content area is titled "RECENT JOURNAL ARTICLES" and includes a "FILTER BY SECTION" dropdown menu set to "ALL SECTIONS". Below the filter are four video thumbnails with play buttons: "CHEMISTRY" (a person in a lab coat working with glassware), "CANCER RESEARCH" (a person in a lab coat operating a machine), "MEDICINE" (a person in a lab coat working with a microscope), and "DEVELOPMENTAL BIOLOGY" (a person in a lab coat working with a microscope).

Library Page

RESEARCH

The screenshot shows the JoVE Research page. At the top, there is a search bar with the text "Search 10,556 video articles" and an "Advanced" search icon. To the right of the search bar is a "Library" icon. Below the search bar are navigation tabs: "ABOUT JoVE", "FOR LIBRARIANS", "PUBLISH", "VIDEO JOURNAL", and "SCIENCE EDUCATION". The "SCIENCE EDUCATION" tab is highlighted in green. Below these tabs are two sub-tabs: "Research" and "Education". The "Research" sub-tab is active. On the left side, there is a sidebar titled "SUBJECTS" with a list of subjects: Behavior, Chemistry, Genetics, Biochemistry, Developmental Biology, Immunology and Infection, Bioengineering, Engineering, Medicine, Biology, Environment, Neuroscience, and Cancer Research. The "Behavior" subject is highlighted in blue. The main content area is titled "Behavior" and has a "VIEW ALL ARTICLES" link. Below the title are three video thumbnails. The first thumbnail shows a woman and a child looking at a screen, with the title "Behavior: Exploring Infant Sensitivity to Visual Language using Eye Tracking and the Preferential Looking Paradigm" and authors "Adam Stone, Rain G. Bosworth". The second thumbnail shows a person in a lab coat working with a mouse, with the title "Behavior: Novel Object Recognition and Object Location Behavioral Testing in Mice on a Budget" and authors "Jyeon K. Deminger, [...], Elizabeth D. Kirby". The third thumbnail shows a woman and a child with a robot, with the title "Behavior: Modeling Verbal Behavior Deficits with the Stimulus Control Ratio Equation, SCoRE" and authors "Alonso Alvarez, Lee Mason".

You can view all of the subjects within the research content. In each subject area, you will find videos that have the most views in the past week.

EDUCATION

The screenshot shows the JoVE Education page. At the top, there is a search bar with the text "Search 10,556 video articles" and an "Advanced" search icon. To the right of the search bar is a "Library" icon. Below the search bar are navigation tabs: "ABOUT JoVE", "FOR LIBRARIANS", "PUBLISH", "VIDEO JOURNAL", and "SCIENCE EDUCATION". The "SCIENCE EDUCATION" tab is highlighted in green. Below these tabs are two sub-tabs: "Research" and "Education". The "Education" sub-tab is active. On the left side, there is a sidebar titled "SUBJECTS" with a list of subjects: Basic Biology, Physics, Advanced Biology, Engineering, Chemistry, Clinical Skills, Environmental Sciences, Psychology, and Lab Manual. The "Basic Biology" subject is highlighted in blue. The main content area is titled "Basic Biology" and has a "VIEW ALL ARTICLES" link. Below the title are three video thumbnails. The first thumbnail shows a person using a Bunsen burner, with the title "Basic Biology: Bacterial Transformation: The Heat Shock Method" and a duration of 11:00. The second thumbnail shows a person operating a centrifuge, with the title "Basic Biology: An Introduction to the Centrifuge" and a duration of 07:51. The third thumbnail shows a person using a pipette, with the title "Basic Biology: DNA Ligation Reactions" and a duration of 07:33.

You can view all of the subjects within the education/training content. In each subject area, you will find videos that have the most views in the past week.

Quick Search & Browse

QUICK SEARCH

Search by keyword in the main search bar for direct access to the latest scientific research.

ADVANCED SEARCH

*Refine your keyword search and/or add author, institution, date, or sections filters by clicking on '**Advanced**' in the search bar.*

Here are some tips to optimize search results:

- The best way to search is to use the main search bar to get a broad range of articles, then use the advanced search and additional filters on the search page.
- Searches done through the main search field cannot contain any special characters (these will be removed in your results).
- The advanced search allows you to string terms together by using "and", "not", and "or."
- Use quotes in the advanced search fields to include or exclude exact phrases. Searches are automatically truncated after 320 characters.

The screenshot shows a search interface with a search bar at the top containing the text "Search 9,615 video articles" and a magnifying glass icon. To the right of the search bar, the word "Advanced" is displayed. Below the search bar, there is a prompt: "Use the advanced search feature to refine your search." The interface includes three search criteria rows, each with a dropdown menu (containing "and" or "not"), an empty input field, and a red minus sign button. A green plus sign button is located below the criteria rows. A vertical sidebar on the right contains a "PUBLI" button and a "JoVE A" button. At the bottom of the sidebar, there is a "FILTE" button. The main content area below the criteria rows features a list of filter options: "FILTER BY AUTHOR OR INSTITUTION", "FILTER BY PUBLICATION DATE", "FILTER BY JOURNAL SECTION", "FILTER BY SCIENCE EDUCATION", and "LIST", each with an upward-pointing arrow. A magnifying glass icon is also present at the bottom right of the main content area.

SCIENTIFIC INDEXES

JoVE articles are indexed in PubMed/Medline, Web of Science, ChemAbstracts, SciFinder, and Scopus, to name a few. Searching for "JoVE," "MyJoVE," "JoVE[jour]," or "Journal of Visualized Experiments" on any of these online resources should bring up our content. Searching for "JoVE[jour]" on PubMed will bring up our articles, and there are also PMC links on all JoVE video articles that will send users directly to the PubMed listing.

Navigating a JoVE Article Page

- **ARTICLE INFORMATION**

Article title, authors, and affiliated institutions.

- **CITE THIS**

Copying a citation automatically adds it to a citations list available in your user account.

- **SHARE**

Easily post this article on social media: Twitter, Facebook, or LinkedIn.

- **VIDEO CHAPTERS**

Jump to a specific place in the video by clicking on the corresponding chapter.

- **DOWNLOAD PDF**

Download the text article to your device.

- **ADD TO FAVORITES**

Create a playlist of your favorite Video Articles. Access your playlist from your user account.

The screenshot shows the JoVE website interface. At the top, there is a search bar with 'Search 9,615 video articles' and a 'SIGN OUT' button. Below the search bar are navigation tabs: 'ABOUT JOVE', 'FOR LIBRARIANS', 'PUBLISH', 'VIDEO JOURNAL', and 'SCIENCE EDUCATION'. The main content area features a video player with a progress bar at 02:59 / 06:01. Above the video player are buttons for 'CITE THIS' and 'SHARE'. Below the video player are buttons for 'PDF', 'EMBED', and 'ADD TO FAVORITES'. To the right of the video player is a 'CHAPTERS' table of contents.

BIOCHEMISTRY

Extracellular Protein Microarray Technology for High Throughput Detection of Low Affinity Receptor-Ligand Interactions

Bushra Husain¹, Sairupa Paduchuri¹, Sree R. Ramani², Nadia Martinez-Martin¹
¹Receptor Discovery group, Microchemistry, Proteomics and Lipidomics Department, Genentech, ²Portfolio Management and Operations, Genentech

VIEWS 149

YOU HAVE FULL ACCESS TO THIS ARTICLE THROUGH JOVE.

CHAPTERS	
0:04	Title
0:28	Extracellular Protein Microarray Printing
1:55	Preparation of Multivalent Bait Complexes
3:09	Extracellular Protein Microarray Screening
4:36	Results: Evaluation of Extracellular Protein Microarray Slide Printing and Screen of an Orphan Query Protein
5:11	Conclusion

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0 COMMENTS

To jump to different sections of the article, use the sticky navigation bar to navigate to the different sections of the article.

As you scroll down the article, the different sections of the text article will appear on the left-side panel.

The small video player is always visible and allows you to follow the action as you read the protocol.

The screenshot displays the JoVE website interface. At the top, there is a search bar with the text "Search 9,615 video articles" and a "SIGN OUT" button. Below the search bar are navigation tabs for "ABOUT JOVE", "FOR LIBRARIANS", "PUBLISH", "VIDEO JOURNAL", and "SCIENCE EDUCATION". A secondary navigation bar contains tabs for "ABSTRACT", "INTRODUCTION", "PROTOCOL", "RESULTS", "DISCUSSION", "MATERIALS", "REFERENCES", and "DOWNLOADS". The main content area is titled "PROTOCOL" and contains two sections: "1. Generation of a Library of Extracellular Human Proteins" and "2. Extracellular Protein Microarray Printing". Each section contains a numbered list of steps and a "Note" providing additional context. To the right of the text is a video player showing a laboratory setting with a person wearing gloves handling a microarray slide. Below the video player is a "CITE THIS" section and a "CHAPTERS" table of contents.

CHAPTERS	
0:04	Title
0:28	Extracellular Protein Microarray Printing
1:55	Preparation of Multivalent Bait Complexes
3:09	Extracellular Protein Microarray Screening
4:36	Results: Evaluation of Extracellular Protein Microarray Slide Printing and Screen of an Orphan Query Protein
5:11	Conclusion

Downloads available: Text Protocol PDF, Materials List with Catalog Numbers PDF, File for Reference Management Software (EndNote, RefWorks, Reference Manager, Procite)

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