



ChEMBL Webresource Client



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STEM Education

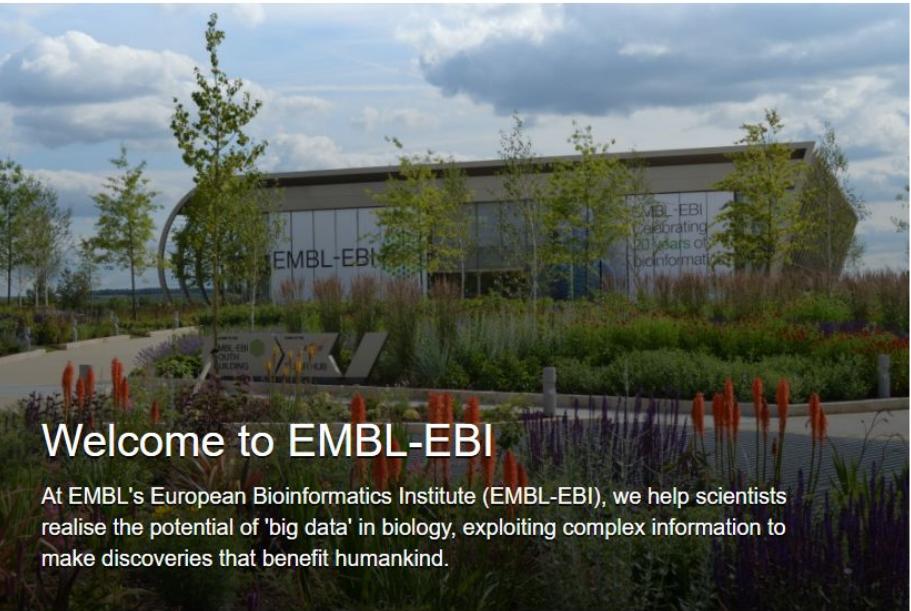
Product Data Analyst Intern, The Helper Bees, Austin

What is bioinformatics?

Bioinformatics is an interdisciplinary field that develops methods and software tools for understanding biological data, in particular when the data sets are large and complex. As an interdisciplinary field of science, bioinformatics combines biology, computer science, information engineering, mathematics and statistics to analyze and interpret the biological data. (Wikipedia)

| | | | |
|----------|----|--|-----|
| A5ASC3.1 | 14 | SIKLWPPSQTTRLLLVERMANNLST..PSIFTRK..YGLLSKEEARENAAQKIEEVACSTANQ.....HYEKEPDGDGGSAVQLYAKECSKLILEVLK | 101 |
| B4F917.1 | 13 | SIKLWPPSESTRIMLVDRMTNNLST..ESIFSRK..YRLLGKQEAHENAKTIEELCFALADE.....HFREEPDGDGSSAVQLYAKETSKMMLEVLK | 100 |
| A9S1V2.1 | 23 | VFKLWPPSQGTRAEVRQKMALKLSS..ACFESQS..FARIELADAQEHRARAIEEVAFGAAQE.....ADSGGDKTGSAVVMVYAKHASKLMLETLR | 109 |
| B9GSN7.1 | 13 | SVKLWPPGQSTRLMLVERMTKNFIT..PSIFSRK..YGLLSKEEEAEDAKKIEEVAFAAAANQ.....HYEKQPDGDGSSAVQIYAKESSRLMLEVLK | 100 |
| Q8H056.1 | 30 | SFSIWPPQTQRTRDAVVRRLVDTLGG..DTILCKR..YGAVPAADAEPAAARGIEAEADFAAAAA..SGEAAATASVEEGIKALQLQYSKEVSRRLLDFM | 120 |
| Q0D423.2 | 44 | SLSIWPPSQRTRDAVVRRLVQTLVA..PSILSQR..YGAVPAAEAGRAAAAEAEAYAAVTES.SSAAAAPASVEDGIEVQLQYSKEVSRRLLLELAK | 135 |
| B9MW8.1 | 56 | SFSIWPPPTQRTRDAIIISRLIETLST..TSVLSKR..YGTIPKEEASEASRRRIEEEAFSGAST.....VASSEKDGLEVQLQYSKEISKRMLETVK | 141 |
| Q0IYC5.1 | 29 | SFAWPPPTRRTRDAVVRRLVAVLSGDTTTALRKRYRYGAVPAADAERAARAAVEAQAFDAASA....SSSSSSSSVEDQIETLQLQYSREVSNRLAFLVR | 121 |
| A9NW46.1 | 13 | SIKLWPPSESTRMLVERMTDNLSS..VSFFSRK..YGLLSKEEEAENAKRIEETAFLAAND.....HEAKEPNLDDSSVVQFYAREASKLMLEALK | 100 |
| Q9C500.1 | 57 | SLRIWPPQTQRTRDAVLNRRIETLST..ESILSKR..YGTLLKSDDATTVALIEEEEAVASN.....AVSSDDDGIKILLELYSKEISKRMLESVK | 142 |
| Q2HRI7.1 | 25 | NYSIWPPKQRTTRDAVKNRLIETLST..PSVLTKR..YGTMSADEAASAAIQIDEAFSVANA.....SSSTSNDNVITLEVYSKEISKRMIELTVK | 110 |
| Q9M7N3.1 | 28 | SFKWPPPTQRTRAEAVVRRLVETLTS..QSVLSKR..YGVVIPEDEATSAAARIIEEEAFSVASV.ASSAASTGGRPDEWEVILHIYSQEIXQRVVESAK | 119 |
| Q9M7N6.1 | 25 | SFSIWPPPTQRTRDAVINRLIESLST..PSILSKR..YGTLPQDEASETARLIEEEFAAAAGS.....TASDADDGIEILQVYSKEISKRMIDTVK | 110 |
| Q9LE82.1 | 14 | SVKMWPPSKSTRMLVERMTKNITT..PSIFSRK..YGLLSVSEEAEQDAKRIEDLAFTANK.....HFQNEFDGDGTSAVHMVYAKESSKLMLDVK | 101 |
| Q9M651.2 | 13 | SIKLWPPSLPTRKALIERITNNFSS..KTIFTEK..YGSLTKDQATENAOKRIEDIAFSTANQ.....QFEREPDGDGGSAVQLYAKECSKLILEVLK | 100 |
| B9R748.1 | 48 | SLSIWPPPTQRTRDAVITRIETLSS..PSVLSKR..YGTISHDEAESARRIEDEAFGVANT.....ATSAEDDGIEILQLYSKEISRRMLDTVK | 133 |

European Molecular Biology Laboratory



Welcome to EMBL-EBI

At EMBL's European Bioinformatics Institute (EMBL-EBI), we help scientists realise the potential of 'big data' in biology, exploiting complex information to make discoveries that benefit humankind.

“ EMBL-EBI is international, innovative and interdisciplinary, and a champion of open data in the life sciences.

At EMBL-EBI, we make the world's public biological data freely available to the scientific community via a range of services and tools, perform basic research and provide professional training in bioinformatics.

We are part of the European Molecular Biology Laboratory (EMBL), an international, innovative and interdisciplinary research organisation funded by over 20 member states, prospect and associate member states.

We are situated on the [Wellcome Genome Campus](#) in Hinxton, Cambridge, UK, one of the world's largest concentrations of scientific and technical expertise in genomics.



What is ChEMBL

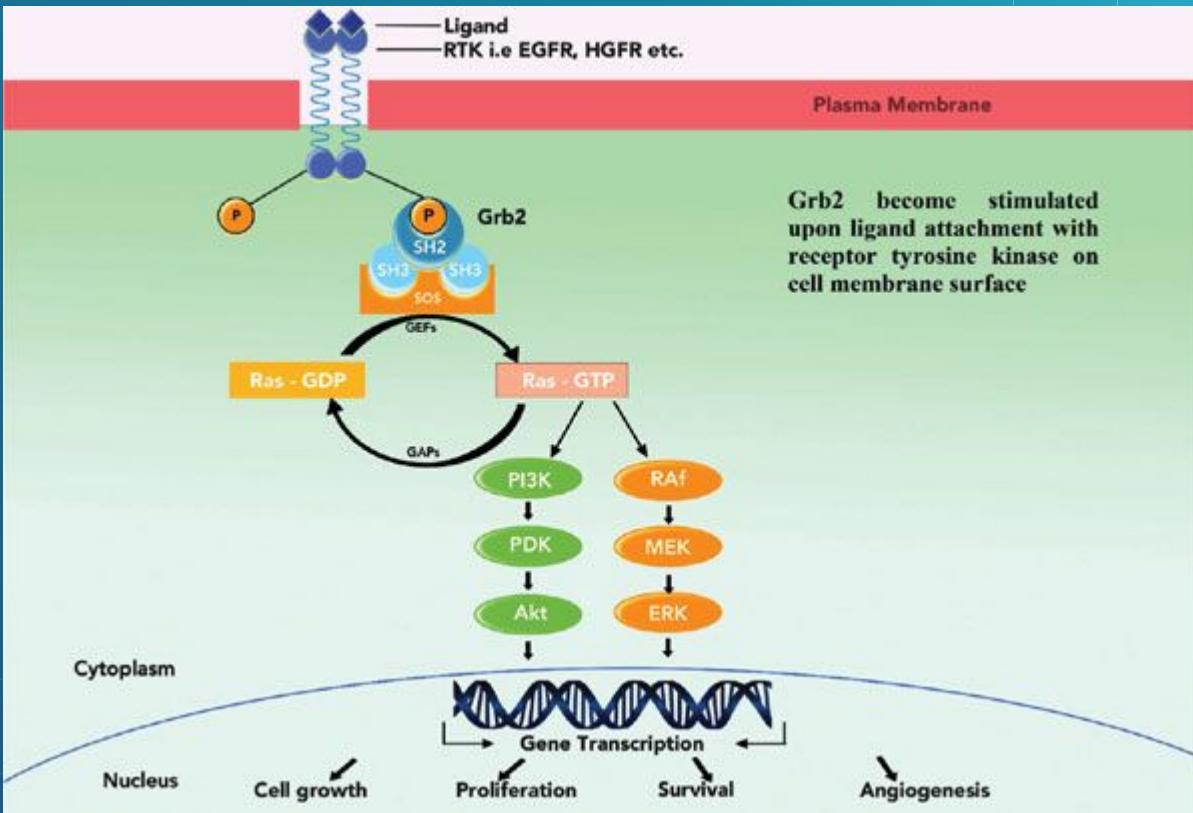
ChEMBL is a manually curated database of bioactive molecules with drug-like properties. It brings together chemical, bioactivity and genomic data to aid the translation of genomic information into effective new drugs.

ChEMBL webresource client

This is the only official Python client library developed and supported by ChEMBL group.

The library helps accessing ChEMBL data and cheminformatics tools from Python. You don't need to know how to write SQL. You don't need to know how to interact with REST APIs. You don't need to compile or install any cheminformatics frameworks. Results are cached.

The client handles interaction with the HTTPS protocol and caches all results in the local file system for faster retrieval. Abstracting away all network-related tasks, the client provides the end user with a convenient interface, giving the impression of working with a local resource. Design is based on the Django QuerySet interface. The client also implements lazy evaluation of results, which means it will only evaluate a request for data when a value is required. This approach reduces number of network requests and increases performance.



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to give presentations.

You can find me at
@username





1

TRANSITION HEADLINE

Let's start with the first set of slides

“

Quotations are commonly
printed as a means of
inspiration and to invoke
philosophical thoughts from
the reader.



THIS IS A SLIDE TITLE

- ◊ Here you have a list of items
- ◊ And some text
- ◊ But remember not to overload your slides with content

Your audience will listen to you or read the content,
but won't do both.



BIG CONCEPT

Bring the attention of your audience over a key concept using icons or illustrations



YOU CAN ALSO SPLIT YOUR CONTENT

White

Is the color of milk and fresh snow, the color produced by the combination of all the colors of the visible spectrum.

Black

Is the color of ebony and of outer space. It has been the symbolic color of elegance, solemnity and authority.

IN TWO OR THREE COLUMNS

Yellow

Is the color of gold, butter and ripe lemons. In the spectrum of visible light, yellow is found between green and orange.

Blue

Is the colour of the clear sky and the deep sea. It is located between violet and green on the optical spectrum.

Red

Is the color of blood, and because of this it has historically been associated with sacrifice, danger and courage.



A PICTURE IS WORTH A THOUSAND WORDS

A complex idea can be conveyed with just a single still image, namely making it possible to absorb large amounts of data quickly.





WANT BIG IMPACT? USE BIG IMAGE.



USE DIAGRAMS TO EXPLAIN YOUR IDEAS





AND TABLES TO COMPARE DATA

| | A | B | C |
|--------|----|----|----|
| Yellow | 10 | 20 | 7 |
| Blue | 30 | 15 | 10 |
| Orange | 5 | 24 | 16 |

MAPS



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89,526,124

Whoa! That's a big number, aren't you proud?

89,526,124\$

That's a lot of money

185,244 users

And a lot of users

100%

Total success!



OUR PROCESS IS EASY

Lorem 1

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Duis sit amet odio vel purus bibendum luctus. Morbi iaculis dapibus tristique. In hac habitasse platea dictumst. Mauris convallis quam at. Morbi iaculis dapibus tristique.

Lorem 2

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Lorem 3

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Duis sit amet odio vel purus bibendum luctus. Morbi iaculis dapibus tristique. In hac habitasse platea dictumst. Mauris convallis quam at. Morbi iaculis dapibus tristique.



LET'S REVIEW SOME CONCEPTS

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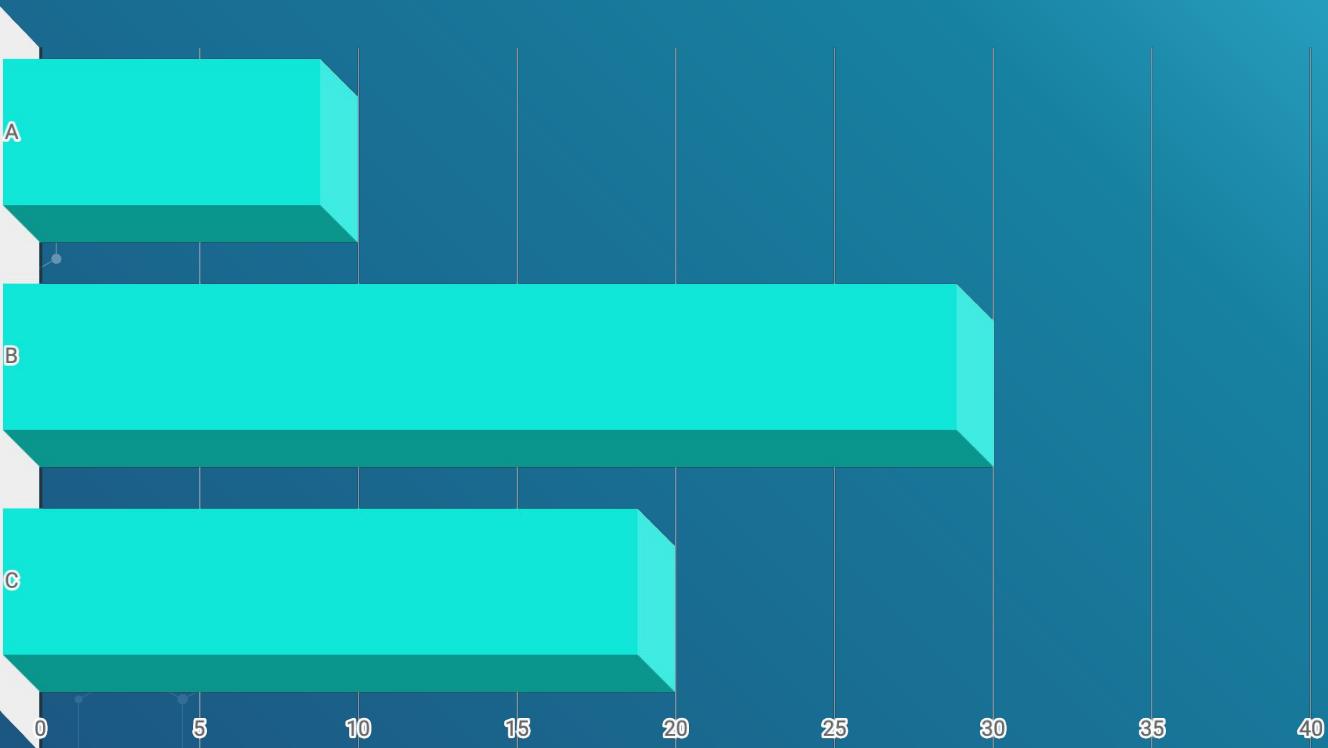
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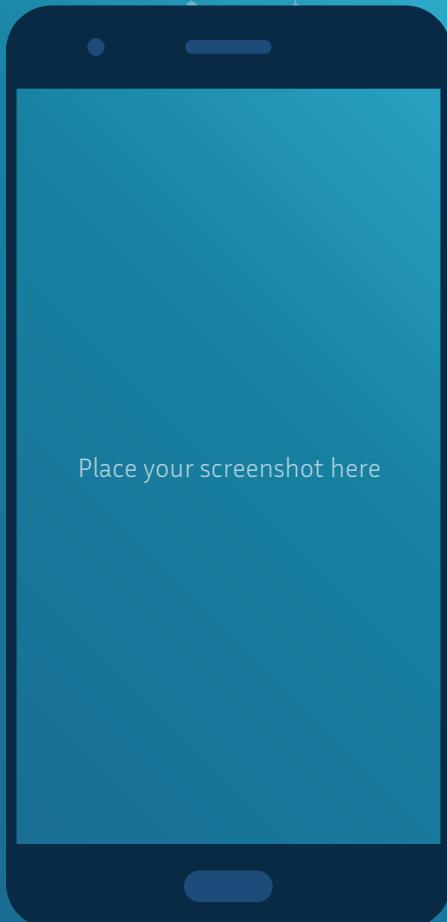
Is the color of blood, and because of this it has historically been associated with sacrifice, danger and courage.



You can insert graphs from Excel or Google Sheets

MOBILE PROJECT

Show and explain your web, app or software projects using these gadget templates.



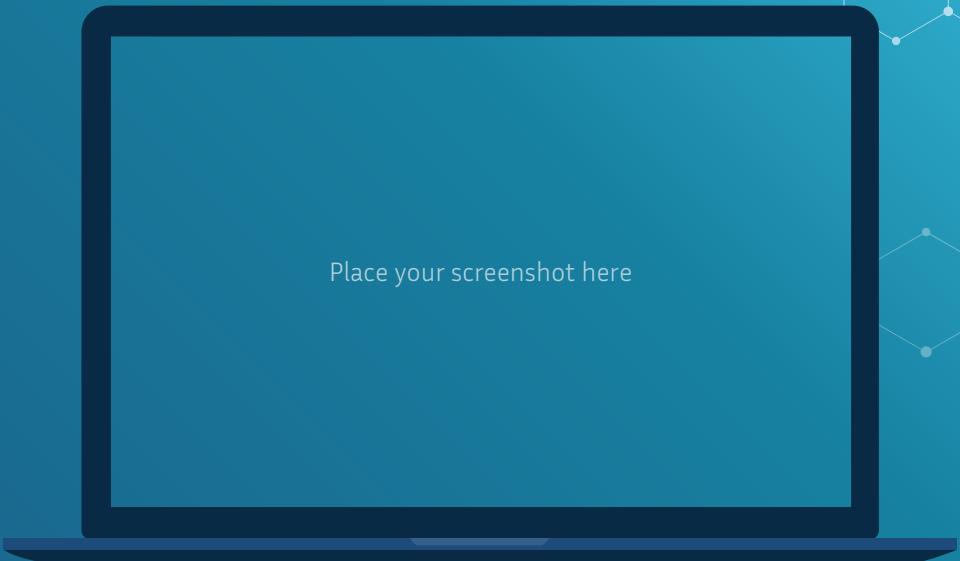
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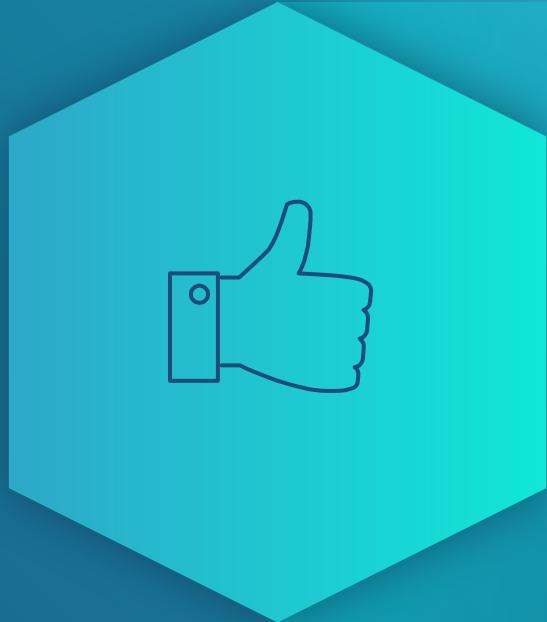


THANKS!

ANY QUESTIONS?

You can find me at:

- ❖ @username
- ❖ user@mail.me





CREDITS

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- ◊ Titles: Saira Semi Condensed
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DIAGRAMS AND INFOGRAPHICS



You can also use any emoji as an icon!
And of course it resizes without losing quality.

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visuals