

GPSC16



With an impressive number of different serotypes as disguises, this shape-shifter can evade the PCV vaccines!

| | |
|--------------|----------------|
| Fame | 231 |
| Locations | 14 |
| Death | ? |
| Danger | 13 3 38.5% |
| Evolution | 5.5 |
| Pneumo Score | 97 |

Image by Alannah King in Cambridge

GPSC13



GPSC13 likes to travel! Luckily, it is generally friendly and not too dangerous.

| | |
|--------------|--------------|
| Fame | 351 |
| Locations | 17 |
| Death | 1.7 |
| Danger | 7 1 7.4% |
| Evolution | 9.2 |
| Pneumo Score | 79 |

Image by Victoria Dyster in Cambridge

GPSC7



GPSC7 is mostly composed of two serotypes - 23A and 23F. Found in a huge number of countries, this GPSC certainly likes to travel!

| | |
|--------------|---------------|
| Fame | 166 |
| Locations | 13 |
| Death | 0.6 |
| Danger | 3 0 55.4% |
| Evolution | 6.3 |
| Pneumo Score | 95 |

Image by Stephanie Lo in Cambridge and Bath

GPSC4



Most members of GPSC4 are serotype 19A, which is a serotype covered by the PCV13 vaccine.

| | |
|--------------|---------------|
| Fame | 203 |
| Locations | 10 |
| Death | 3.2 |
| Danger | 5 1 45.8% |
| Evolution | 5.2 |
| Pneumo Score | 90 |

Image by Ana Ferreira in Cambridge

GPSC11



GPSC11 spreads far across the globe, and contains many different serotypes.

| | |
|--------------|----------------|
| Fame | 228 |
| Locations | 17 |
| Death | 7 |
| Danger | 15 0 66.7% |
| Evolution | 9.2 |
| Pneumo Score | 138 |

Image by Uzma Basit Khan in Cambridge

GPSC10



GPSC10 contains serotype 24F, which is one of the emerging pneumococcal serotypes post PCV introduction.

| | |
|--------------|----------------|
| Fame | 287 |
| Locations | 20 |
| Death | 4.6 |
| Danger | 10 3 12.9% |
| Evolution | 10.9 |
| Pneumo Score | 90 |

Image by Cebile Lekhuleni in South Africa

GPSC5



GPSC5 is a famous shapeshifter, not easily targeted by PCV. They are not afraid of penicillin and gradually pick up their ability to resist erythromycin. CC172 – That's me!

| | |
|--------------|----------------|
| Fame | 453 |
| Locations | 22 |
| Death | 3 |
| Danger | 15 2 45.7% |
| Evolution | 10.2 |
| Pneumo Score | 143 |

Image by Sophie Belman in Cambridge

Rules

Shuffle and deal the cards face down. Each player picks up their cards in a stack, so that they can see their top card only.

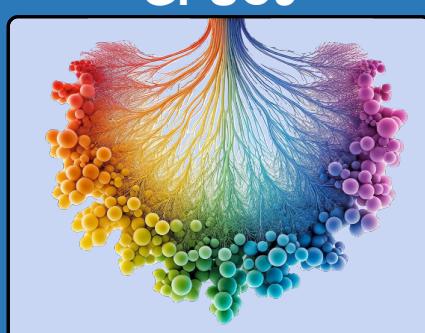
The oldest player chooses and calls out their best score (e.g. "Locations – 15"). The other players look to see if their top card beats this score. If there is a tie, the card with the highest GPSC number wins. Some cards have an unknown deadly score ("?") - these always win if "deadly" is the category chosen!

The person with the highest number wins the top card from each player and adds them to the back of their stack. They then choose the category for the next card. You are out when you run out of cards.

The winner is the person who collects all the cards!

This game was developed and designed by Alannah King, with art and information from members of the Global Pneumococcal Sequencing Project and AI image generation.

GPSC9



Most of the GPSC9 samples in the GPS database come from South Africa, Cambodia, and Nepal.

| | |
|--------------|-------------|
| Fame | 277 |
| Locations | 20 |
| Death | 0.5 |
| Danger | 9 3 22% |
| Evolution | 13.2 |
| Pneumo Score | 95 |

Image by Oumie Kuyateh in Cambridge

GPSC8



Members of GPSC8 can be found in many countries, such as Israel, Malawi, and The Gambia.

| | |
|--------------|------------|
| Fame | 390 |
| Locations | 14 |
| Death | 9.7 |
| Danger | 1 0 0% |
| Evolution | 5 |
| Pneumo Score | 69 |

Image by Nida Javaid in Cambridge

GPSC1



GPSC1 is estimated to have had its debut in 1655. They are frequent travellers and a big family.

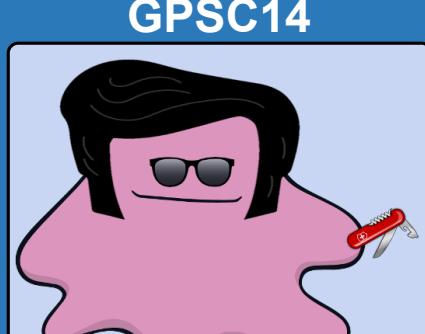
| | |
|--------------|--------------|
| Fame | 504 |
| Locations | 19 |
| Death | 2.4 |
| Danger | 6 4 0.2% |
| Evolution | 8.3 |
| Pneumo Score | 90 |

Image by Harry Hung in Cambridge

Score Information

| | |
|--------------|---|
| Fame | Number of isolates in the GPSC database |
| Locations | Number of countries this GPSC is found in |
| Death | Potential for deadly disease |
| Danger 1 | Number of serotypes in this GPSC |
| Danger 2 | Number of antibiotics this GPSC is resistant to |
| Danger 3 | Percent of serotypes which are not covered by PCV13 |
| Evolution | Rate of recombination |
| Pneumo Score | Secret formula! |

GPSC14

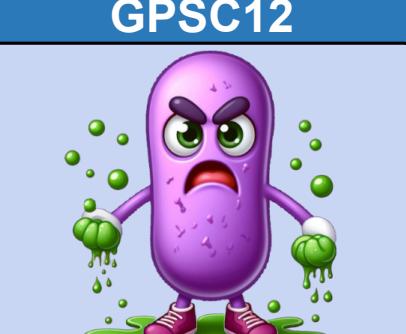


Super cool shape-shifting GPSC14 is able to avoid a variety of antimicrobials!

| | |
|--------------|--------------|
| Fame | 338 |
| Locations | 10 |
| Death | 5.3 |
| Danger | 6 3 0.3% |
| Evolution | 12.6 |
| Pneumo Score | 71 |

Image by Beth Sampher and Guus van de Steeg in Cambridge

GPSC12



Almost all members of GPSC12 are serotype 3, which is known for producing lots of mucus.

| | |
|--------------|------------|
| Fame | 205 |
| Locations | 15 |
| Death | 2.9 |
| Danger | 1 0 0% |
| Evolution | 2.4 |
| Pneumo Score | 42 |

Image by Carmen Muñoz-Almagro in Barcelona

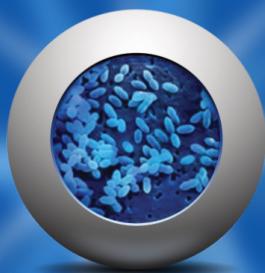
GPSC6



Many members of GPSC6 are serotype 14, which is covered by the PCV13 vaccine. Also known as CC156, this GPSC is prevalent in Argentina.

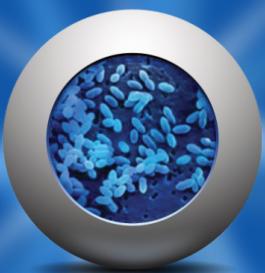
| | |
|-----------|-----|
| Fame | 393 |
| Locations | 16 |
| Death | 1.5 |
| D | |

GRSC



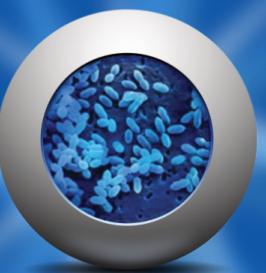
Gotta Track 'em All!

GRSC



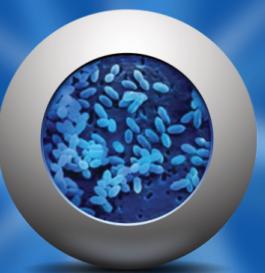
Gotta Track 'em All!

GRSC



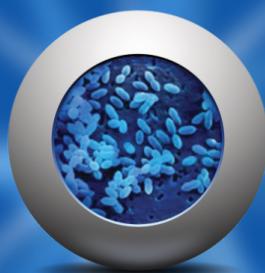
Gotta Track 'em All!

GRSC



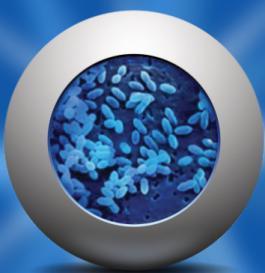
Gotta Track 'em All!

GRSC



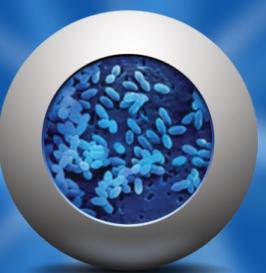
Gotta Track 'em All!

GRSC



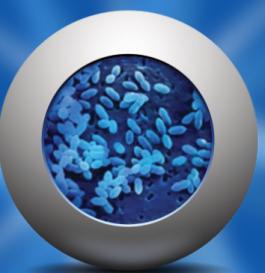
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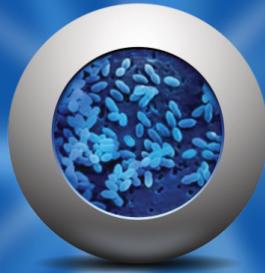
Gotta Track 'em All!

GRSC



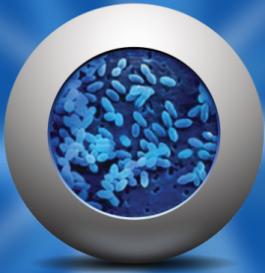
Gotta Track 'em All!

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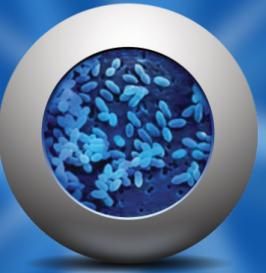
Gotta Track 'em All!

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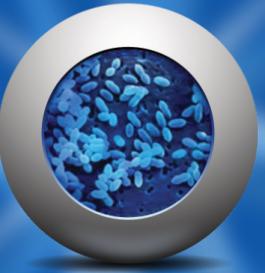
Gotta Track 'em All!

GRSC



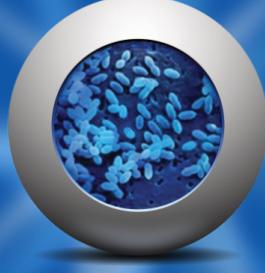
Gotta Track 'em All!

GRSC



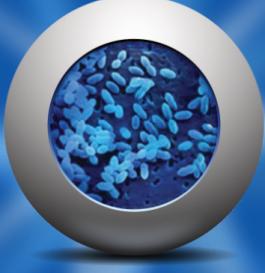
Gotta Track 'em All!

GRSC



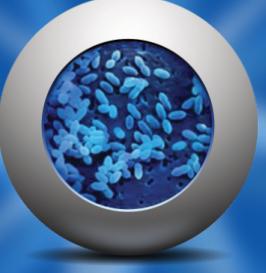
Gotta Track 'em All!

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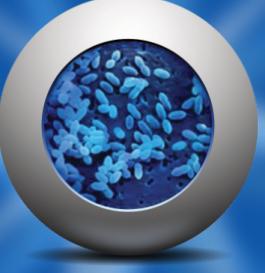
Gotta Track 'em All!

GRSC



Gotta Track 'em All!

GRSC



Gotta Track 'em All!

GPSC2

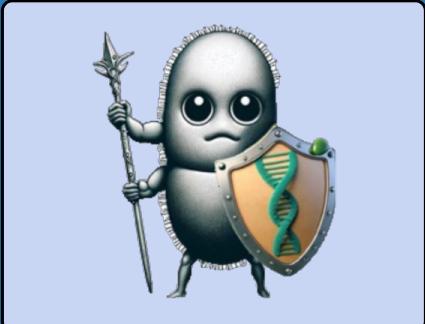


Members of GPSC2 only express serotype 1, and are very deadly.

| | |
|--------------|------------|
| Fame | 782 |
| Locations | 18 |
| Death | 27.4 |
| Danger | 1 1 0% |
| Evolution | 4.2 |
| Pneumo Score | 30 |

Image by Stephen Bentley in Cambridge

GPSC41

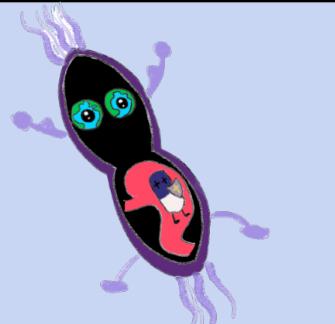


GPSC41 is known for its defence against antibiotics, and its shapeshifting potential through evolution, frequently taking up the DNA of other strains.

| | |
|--------------|--------------|
| Fame | 125 |
| Locations | 2 |
| Death | 3.2 |
| Danger | 3 2 0.8% |
| Evolution | 7.4 |
| Pneumo Score | 31 |

Image by John Lees in Cambridge

GPSC43



Also known as CC280 and CC2314! GPSC43 isn't bothered by those pesky antibiotics.

| | |
|--------------|-------------|
| Fame | 111 |
| Locations | 16 |
| Death | 0.2 |
| Danger | 8 2 27% |
| Evolution | 7.3 |
| Pneumo Score | 72 |

Image by Raymond Cheng in Cambridge

GPSC47



A large number of GPSC47 samples have been collected from patients with disease.

| | |
|--------------|--------------|
| Fame | 101 |
| Locations | 16 |
| Death | ? |
| Danger | 5 3 9.9% |
| Evolution | 10.4 |
| Pneumo Score | 54 |

Image by Gerry Tonkin-Hill in Norway

GPSC33



GPSC33 is associated with carriage, and it is found in the south of Africa. 99% of isolates express serotype 16F!

| | |
|--------------|---------------|
| Fame | 170 |
| Locations | 2 |
| Death | 0.2 |
| Danger | 3 0 98.2% |
| Evolution | 11.4 |
| Pneumo Score | 132 |

Image by Tamara Kastrin in Slovenia

GPSC34



All GPSC34 members have been identified on the continent of Africa. Almost all are serotype 34!

| | |
|--------------|---------------|
| Fame | 151 |
| Locations | 4 |
| Death | 0.1 |
| Danger | 4 0 98.7% |
| Evolution | 10.4 |
| Pneumo Score | 132 |

Image by Cebile Lekhuleni in South Africa

GPSC37



Previously found in South Africa and Mozambique, there has been a big drop in GPSC37 after PCV13.

| | |
|--------------|------------|
| Fame | 148 |
| Locations | 2 |
| Death | 0.6 |
| Danger | 2 1 0% |
| Evolution | 10.9 |
| Pneumo Score | 31 |

Image by Tina Malus and Lea Lipovšek in Slovenia

GPSC40

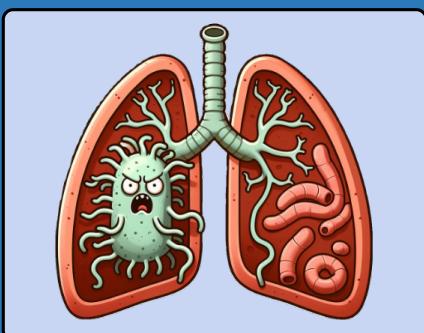


With many serotypes and an unknown death score, GPSC40 is very mysterious...

| | |
|--------------|-------------|
| Fame | 112 |
| Locations | 4 |
| Death | ? |
| Danger | 9 1 83% |
| Evolution | 12.6 |
| Pneumo Score | 121 |

Image by Alannah King in Cambridge

GPSC31



GPSC31 is a serotype 1 lineage, and often found associated with empyema.

| | |
|--------------|------------|
| Fame | 111 |
| Locations | 9 |
| Death | 8.4 |
| Danger | 1 0 0% |
| Evolution | 3.7 |
| Pneumo Score | 33 |

Image by Lesley McGee in the USA

GPSC26



GPSC26 is one of the main GPSC lineages driving the global increase in serotype 12F.

| | |
|--------------|--------------|
| Fame | 195 |
| Locations | 11 |
| Death | 44.4 |
| Danger | 5 2 9.5% |
| Evolution | 7.4 |
| Pneumo Score | 99 |

Image by Alannah King in Cambridge

GPSC25



So far, all sequenced members of GPSC25 are serotype 15B/C!

| | |
|--------------|--------------|
| Fame | 112 |
| Locations | 5 |
| Death | 0.6 |
| Danger | 1 1 100% |
| Evolution | 6.5 |
| Pneumo Score | 125 |

Image by Maria Cisneros in Barcelona

GPSC23



GPSC23 is a multi-drug resistant lineage, with most members being serotype 6B.

| | |
|--------------|------------|
| Fame | 180 |
| Locations | 13 |
| Death | ? |
| Danger | 3 3 0% |
| Evolution | 10.4 |
| Pneumo Score | 47 |

Image by Lesley McGee in the USA

GPSC22

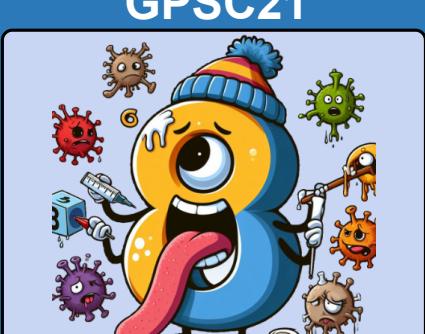


GPSC22 has yet to be seen outside of Africa. Its vulnerability to antibiotics makes it a more friendly GPSC!

| | |
|--------------|---------------|
| Fame | 240 |
| Locations | 4 |
| Death | 0.4 |
| Danger | 8 0 87.1% |
| Evolution | 10.5 |
| Pneumo Score | 134 |

Image by Amareesh Perez in Barcelona

GPSC21

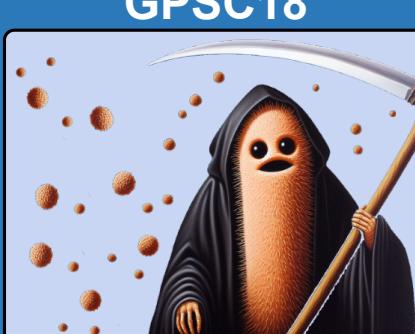


Almost all isolates of GPSC21 so far are serotype 19F!

| | |
|--------------|------------|
| Fame | 242 |
| Locations | 3 |
| Death | 0.7 |
| Danger | 3 2 0% |
| Evolution | 12.2 |
| Pneumo Score | 45 |

Image by Miguel Blanco in Barcelona

GPSC18

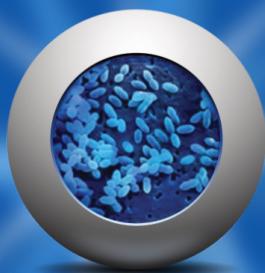


With such a high death score, this isn't a GPSC you'd like to meet...

| | |
| --- | --- |
| Fame | 228 |

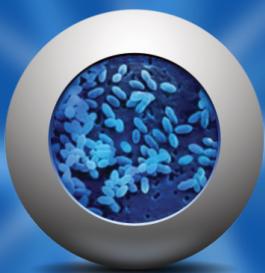
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GRSC



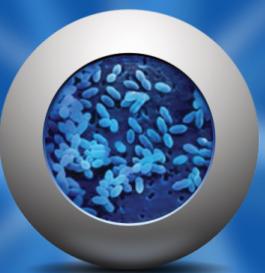
Gotta Track 'em All!

GRSC



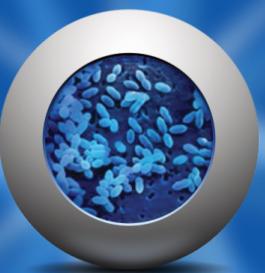
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GRSC



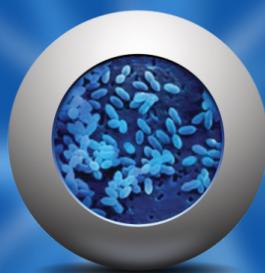
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GRSC



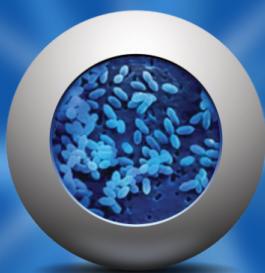
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GRSC



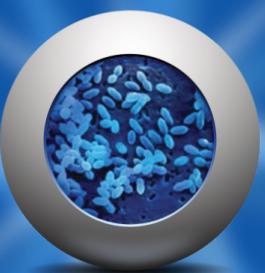
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GRSC



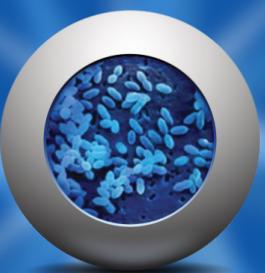
Gotta Track 'em All!

GRSC



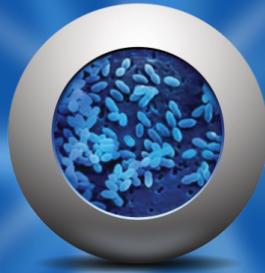
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GRSC



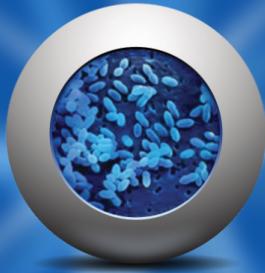
Gotta Track 'em All!

GRSC



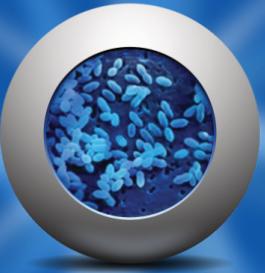
Gotta Track 'em All!

GRSC



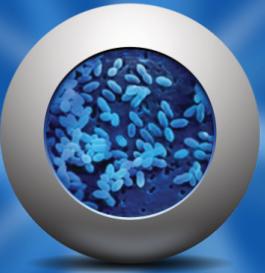
Gotta Track 'em All!

GRSC



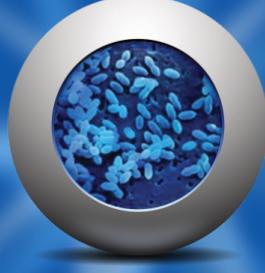
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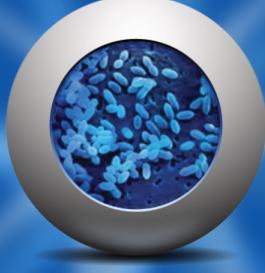
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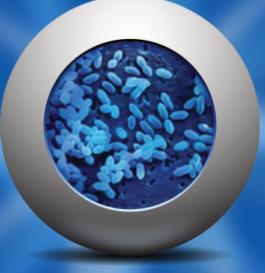
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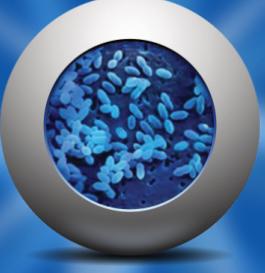
Gotta Track 'em All!

GRSC



Gotta Track 'em All!

GRSC



Gotta Track 'em All!