

Articles about the Possibility of Extraterrestrial Life

The Drake Equation:

<https://www.astrobio.net/alien-life/the-drake-equation-revisited-part-i/>

Popular articles about alien life:

Hawking endorses search for aliens

<http://www.bbc.com/news/science-environment-33596271>

Why we are probably the only intelligent life in the galaxy

<https://www.scientificamerican.com/article/are-humans-alone-in-the-milky-way/>

available on our Web site for free

Are we alone in the Universe?

http://www.nytimes.com/2013/11/19/opinion/are-we-alone-in-the-universe.html?_r=0

Is Earth's Life Unique in the Universe?

<http://www.scientificamerican.com/article/is-earth-s-life-unique-in-the-universe/>

Habitable Zones:

What makes a planet habitable (BBC)

<http://www.bbc.com/news/science-environment-33929851>

Impact erosion: Why we live on Earth, not Venus

http://www.spacedaily.com/reports/Why_we_live_on_Earth_and_not_Venus_999.html

New criteria for habitability (exoplanet mass determines plate tectonics, atmosphere, and climate)

http://www.spacedaily.com/reports/The_Planetary_Sweet_Spot_999.html

Could some alien worlds be more habitable than Earth?

<http://news.nationalgeographic.com/news/2014/01/140117-exoplanets-superhabitable-planets-space-astronomy-science/>

Meteorite impacts can create DNA building blocks

<http://www.sciencedaily.com/releases/2015/08/150818085751.htm>

The Fermi Paradox:

Animation of Fermi Paradox

<http://io9.com/this-animated-explanation-of-the-fermi-paradox-is-fanta-1702738783>

Rare Earth:

Earth came early to the part of creating planets (sort -of)

<http://www.sciencedaily.com/releases/2015/10/151020104849.htm>

Mass extinctions accelerate evolution

<http://www.sciencedaily.com/releases/2015/08/150812151223.htm>

<http://www.sciencedaily.com/releases/2015/11/151123205755.htm>

Solar System chemistry is common (very!)

http://www.spacedaily.com/reports/Bricks_to_build_an_Earth_found_in_every_planetary_system_999.html

Gamma ray extinction probability

<http://physics.aps.org/articles/v7/124>

<https://www.sciencenews.org/article/gamma-ray-bursts-may-repeatedly-wipe-out-life>

“Is it time to accept that we are alone in the Universe?” (May, 2015)

<http://io9.com/is-it-time-to-accept-that-were-alone-in-the-universe-1654960619>

Rare Intelligent Life:

Tyson 1% DNA video:

<https://www.youtube.com/watch?v=qikjljbTQw>

Humans are nowhere near as special as we like to think (two part series BBC)

<http://www.bbc.com/earth/story/20150706-humans-are-not-unique-or-special>

<http://www.bbc.com/future/story/20150706-the-small-list-of-things-that-make-humans-unique>

Aliens should look like us

<http://www.firstpost.com/living/aliens-might-actually-exist-and-could-resemble-us-says-cambridge-expert-2325124.html>

<http://www.sciencedaily.com/releases/2015/07/150702163902.htm>

NASA’s Kepler Mission:

Weird flickering star in the Kepler Field (artificial megastructures once predicted by Arnold 2005)

<http://www.foxnews.com/science/2015/10/15/could-this-star-signal-that-alien-is-out-there.html?intcmp=hpffo&intcmp=obnetwork>

Relevant Observations:

No evidence of alien life in nearby galaxies

<http://www.foxnews.com/science/2015/09/24/no-evidence-advanced-alien-life-in-nearby-galaxies/?intcmp=hpffo&intcmp=obnetwork>

Drake radio survey (1 in a million):

<http://www.astrobio.net/news-exclusive/seti-searches-kepler-candidates-signals-life/>

<http://www.space.com/19703-intelligent-alien-life-exoplanets-seti.html>

Future Searches:

How to find ET with infrared light

<http://www.astronomy.com/~media/Files/PDF/Magazine%20articles/ET-with-infrared-light.pdf>

"Signboards in Space" (Dyson Spheres and other alien-made structures that should be detectable)

http://www.spacedaily.com/reports/Signboards_in_Space_999.html

The Search for Extraterrestrial Intelligence (SETI) Institute:

<http://www.seti.org/>

Opinion:

Informed speculation:

Aliens are silent because they're dead (lack of biological stabilization of climate early in history)

<http://www.sciencedaily.com/releases/2016/01/160121110932.htm>

Apollo 14 astronaut Edgar Mitchel’s alien claims (read the rebuttal, too)

<http://www.foxnews.com/science/2015/08/15/apollo-14-astronaut-claims-peace-loving-aliens-prevented-nuclear-war-on-earth/>