

Re: OOL II – Building Blocks

Source: <http://sci.tech–archive.net/Archive/sci.bio.evolution/2005–04/msg00134.html>

- *From:* "Tom Hendricks" <tomhendricks474@xxxxxx>
 - *Date:* Wed, 6 Apr 2005 14:45:24 –0400 (EDT)
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[snipped]

>>> JM:– The Miller experiment is of absolutely no interest in any scientific
>>> theory regarding the origin of life on earth.
>>
>> OUCH. We differ here. I think what the M–U experiments showed beyond a
>> doubt is that a heat cycle using UV/Sun began the origin process.
>
> You also should read Shapiro (again?). Pay attention to what he says about
> Myth being self–validating.

Myth aside, even Miller has updated. See
2The+Stability+of+the+RNA+Bases%22&searchid=1084296464824_6204&stored_search=&FIRSTINDEX=0Here
he suggests a very cold temp as the only possible ones to produce
the needed bases.

As to 'soup', I still like the idea, and will add this – the prebiotic
'soup'
is very temperature dependent – so what chemistry goes at any temp is
in a sense
a 'symbiotic' soup with their symbiotic nature being that they all are
stable
at a certain temperature range.

>
>> He, Miller used lightning (it was easier and more Frankensteinian!
–
>> but he also used it in a precise way that would NOT recreate
>> nature. No broth could be hit with such lightning regularity! Folow
ups
>> that used UV/sun work well and we know the sun was there and shined
on a
>> very regular basis.
>> I again challenge you by asking if your chemistry could happen
without
>> a sun/star?

- >
- > Well vent chemistry takes place several miles below sea level, and perhaps even
- > several miles below the ocean floor. The sun is completely irrelevant in this.
- > These processes would still take place if the Earth were parked in interstellar
- > space.
- >
- > Well, let me add a couple of reservations to that. One is that the Earth probably
- > couldn't have formed in interstellar space. The sun is probably essential for that.
- > The second is that liquid ocean water may be a necessary lubricant for subduction.
- > If the oceans froze (as they would if the earth were not warmed by the sun), the
- > vents would still eject hot water. But they might stop running within a few million
- > years if the subduction stopped.

Good. Also I believe tinyurl asked about why I thought there must also be a wet/dry cycle – which might rule out underwater OOL.

Icarus 168 (2004) 18–22
www.elsevier.com/locate/icarus
Fast tidal cycling and the origin of life
Richard Lathe

And while I'm tying up some loose ends for comments, I very much liked your PIP idea about frozen life surviving the meteors. And I am enjoying your OOL posts very much – my job is to bring some light (read Sun) into the discussion Ha ha.

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- **Follow-Ups:**
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