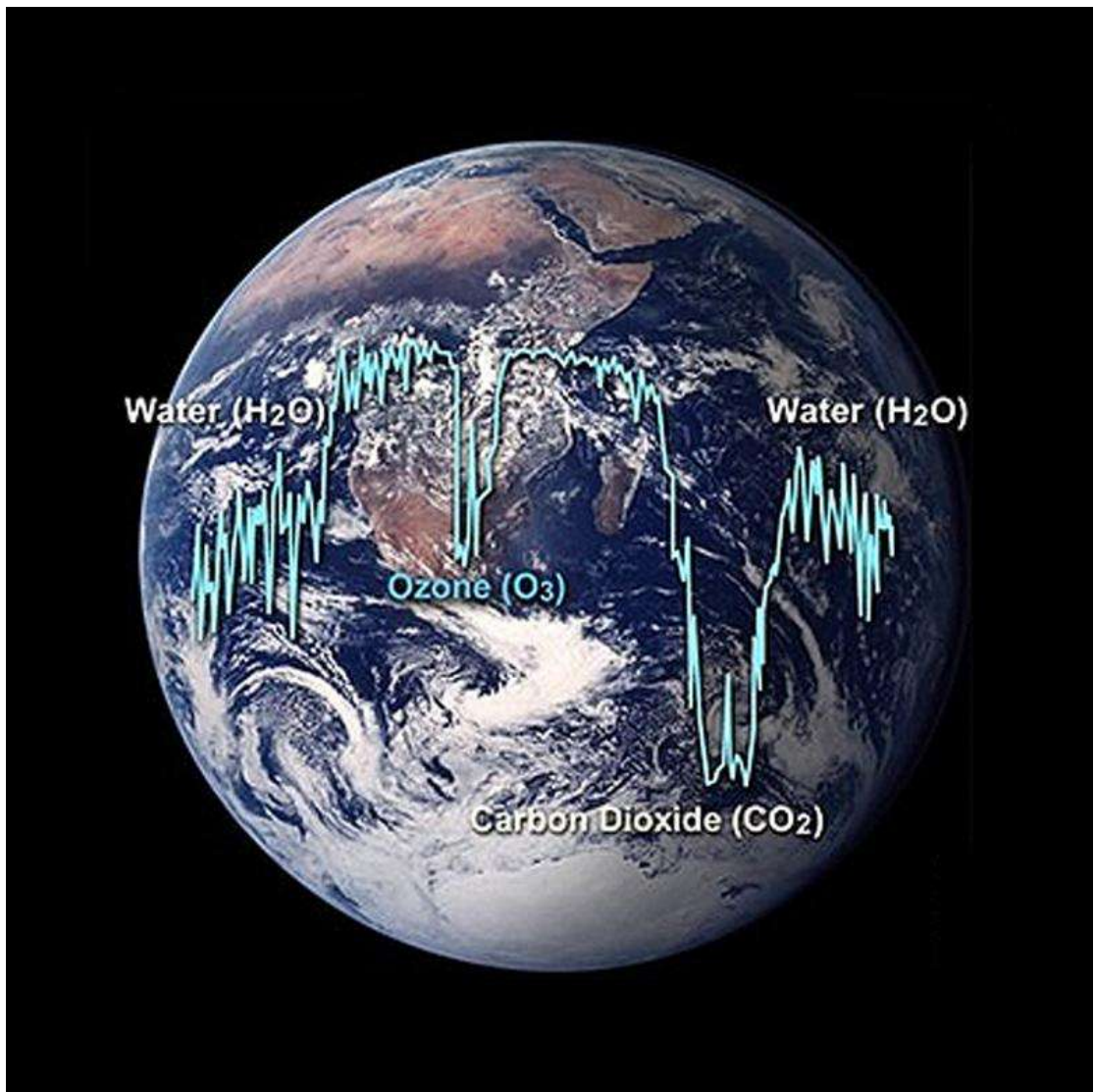
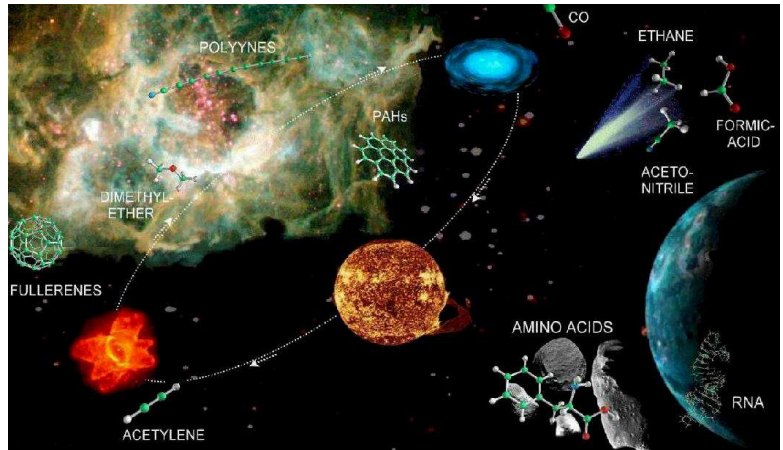


Vita in tutto il cosmo? Vita: una ricerca universale

Diapositive della conferenza tenuta da Cesare Guaita
il 14 ottobre 2004 al Planetario di Milano
www.comune.milano.it/planetario

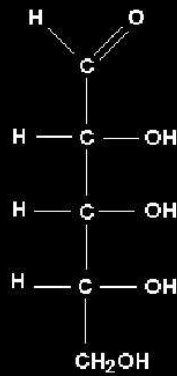
ABBONDANZA DEGLI ELEMENTI (in numero)				
<i>Elemento chimico</i>	<i>COSMO stelle</i>	<i>Crosta terrestre</i>	<i>Oceani terrestri</i>	<i>Vita terrestre</i>
H	93,4	0,14	66,2	61
He	6,5	0	0	0
O	0,06	47	33,1	26
C	0,03	0,005	0,001	10,5
N	0,011	0,0003	0	2,4
Ne	0,01	0	0	0
Mg	0,003	2,1	0,03	0,011
Si	0,003	28	0	0
Fe	0,002	5	0	0,01
S	0,001	0,026	0,017	0,13
Al	0,0002	8,1	0	0
Ca	0,0002	3,6	0	0,23
Na	0,0002	2,8	0	0,01
Ni	0,0001	0,1	0	0
Cr	0,00004	0	0	0
P	0,00003	0,1	0	0,13



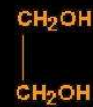
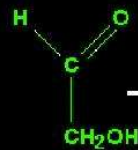
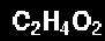


X	X/HCN	X/H ₂ O
H ₂ O	400	1
CO	75	0,19
CH ₃ OH	9	2x10 ⁻²
HCHO	5	1,3x10 ⁻²
HCOOH	0,25	6x10 ⁻⁴
HCOOCH ₃	0,24	6x10 ⁻⁴
HCN	1	2,5x10 ⁻³
HNCO	0,25	6x10 ⁻⁴
H ₂ NCO	0,16	4x10 ⁻⁴
CH ₃ CN	0,08	2x10 ⁻⁴
HC ₃ N	0,07	2x10 ⁻⁴
NH ₂ CHO	0,06	1x10 ⁻⁴
H ₂ S	6	1,5x10 ⁻²
OCS	1,3	3x10 ⁻³
CS ₂	0,8	2x10 ⁻³
SO ₂	0,5	1x10 ⁻³
SO	2	6x10 ⁻³

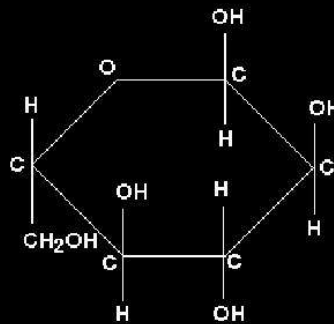
D-RIBOSE



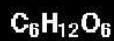
GLYCOLALDEHYDE



GLYCOL



α-D-GLUCOSE



J.M. Hollis et al.
Astroph. J. Letters
 20 Settembre 2004

