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**Chemical Evolution and the Origin of Life** Horst Rauchfuss, 2008-10-15 How did life begin on the early Earth We know that life today is driven by the universal laws of chemistry and physics By applying these laws over the past fifty years enormous progress has been made in understanding the molecular mechanisms that are the foundations of the living state For instance just a decade ago the first human genome was published all three billion base pairs Using X ray diffraction data from crystals we can see how an enzyme molecule or a photosynthetic reaction center steps through its catalytic function We can even visualize a ribosome central to all life translate genetic information into a protein And we are just beginning to understand how molecular interactions regulate thousands of simultaneous reactions that continuously occur even in the simplest forms of life New words have appeared that give a sense of this wealth of knowledge The genome the proteome the metabolome the interactome But we can't be too smug We must avoid the mistake of the physicist who as the twentieth century began stated confidently that we knew all there was to know about physics that science just needed to clean up a few dusty corners Then came relativity quantum theory the Big Bang and now dark matter dark energy and string theory Similarly in the life sciences the more we learn the better we understand how little we really know There remains a vast landscape to explore with great questions remaining

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