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# Bioinorganic chemistry lecture notes pdf

(A) Introduction Bioinorganic Chemistry Chem (A) L1-L4: Introduction Texts: Best is Kain & Schwederski (K-S)- just old and suffers from a poor translation in parts. Roat-Malone (R-M) - 2nd Ed.-new but restricted in content- - then Lippard-Berg (very old); then look at Inorganic Texts - Shriver & Atkins (S&A) (5th Ed) - not very good unfortunately; Ch 29 in Housecroft & Sharpe - pretty good - although short. Bertini? Kraatz? 3391B-(A)-INTRO-L1-L4-12f-used.doc On 2012-01-10 R= 2012d (A) Introduction :J Questions to answer: We study Bioinorganic Chemistry to: Answer questions about metals and their roles And, to determine What processes involve metals directly? And also to Learn from Nature - how to mimic the processes of life synthetically. From these studies: We understand the intricate workings of physiological chemistry → nutrition; curing disease (\*); recognizing toxic metals (\*\*). A definition or two - Bioinorganic Chemistry is... "the interface between inorganic chemistry and biology" or "about how metals function in vivo (meaning in living biological systems)" or "about how metals pass through physiological systems from absorption to transport to use to excretion" Aspects of current research: -develop mimics of natural chemistry -understand how metalloproteins work - how is the coordination chemistry tuning the chemistry? -probe how metals control protein folding? -work out how to 'improve' on Nature - curing disease or accidental damage (A) Introduction -January 2012 Chemistry 3391B "Bioinorganic Chemistry" 1046c1 - consider the human body-1... We separate amounts into 1. Primary Nutrients or Macronutrients are CHNOPS, 2. Macro- and Micronutrients 3. C H O P i K N S coffee mug with zany salt or C H O P K N S Ca Fe Mg with Zn Na Cl - groan (trace- (=5 gm = less: 1-100 ppm not much:

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