האוניברסיטה העברית - הפקולטה לחקלאות
המכון לביוכימיה, מדעי המזון והתזונה

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הנושא:

Network analysis shows modular, polyphyletic origin of redox metal-binding domains across the tree of life

המפגש יתקיים
ביום ד', 4 דצמבר 2013, בשעה 13:00
מועדון סגל

Abstract:

By catalyzing electron transfer reactions, these enzymes are the core of energy transduction in all cells. Our work elucidates the evolutionary history of extant transition-metal using oxidoreductases across the tree of life by: 1) identifying a minimum of 10 different (polyphyletic) ancient origins of redox domain families; and 2) providing evidence for a single ancestor of two key building blocks, heme (cytochrome c) and Fe2S2(adrenodoxin-like family), that went on to give rise to a vast array of iron binding domains that control key energetic reactions in cells.

סגל וסטודנטים מוזמנים להשתתף

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