

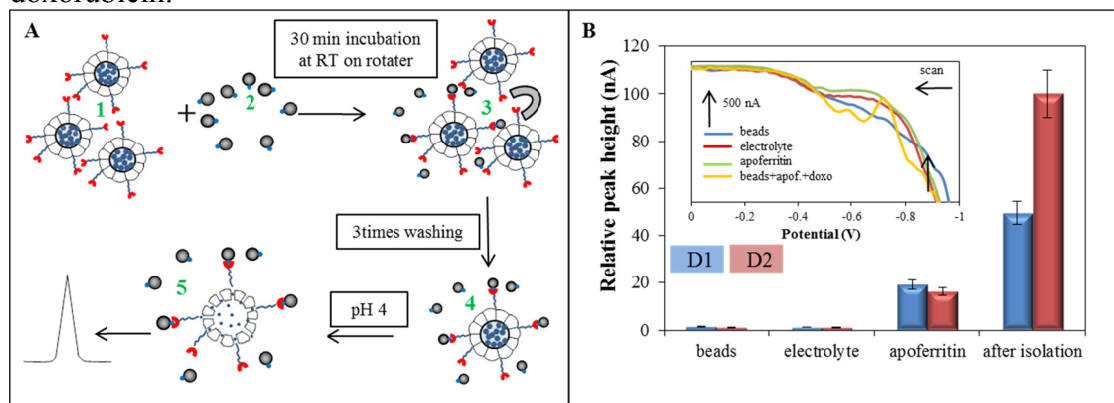
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## APOFERITINOVÉ STRUKTURY PRO TRANSPORT VÝZNAMNÝCH CYTOSTATIK, JEJICH VIZUALIZACE RŮZNÝMI NÁSTROJI

*Ing. Soňa Křížková, Ph.D. a Doc. RNDr. Pavel Kopel, Ph.D.*

### Abstrakt

A voltammetric detection of doxorubicin and encapsulated doxorubicin in apoferritin structure at a carbon paste electrode is the main of this study. The samples were measured by differential pulse voltammetry in phosphate buffer (pH 5.5). Complex apoferritin-doxorubicin can be formed by “opening”/”closing” due to changing of pH value. The pH value of electrolyte was decreased and sample of encapsulated doxorubicin was done by adding of chloric acid. We optimized the experimental conditions as time of accumulation and deposition potential to obtain detection limit for encapsulated doxorubicin of 1.0  $\mu\text{g/ml}$  of doxorubicin.



**pátek 13. 09. 2013, od 12:00 hod.**

Ústav chemie a biochemie, laboratoře fotometrie

Kontakt: [pavlina.sobrova@seznam.cz](mailto:pavlina.sobrova@seznam.cz), [kizek@sci.muni.cz](mailto:kizek@sci.muni.cz)

