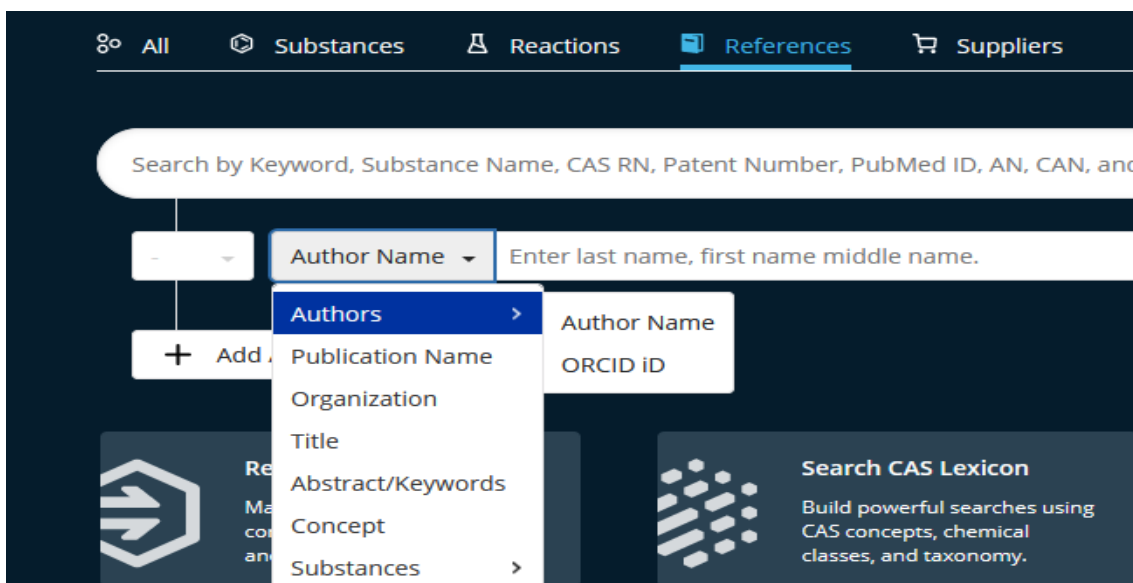


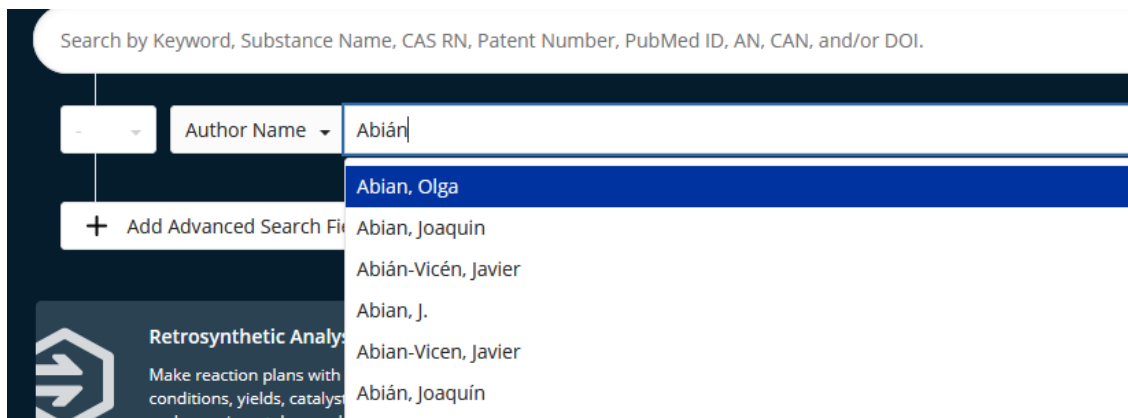
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1

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Evaluation of PEG-b-polycarbonates self-assemblies moieties as nanocarriers using paclitaxel as a model

By: Roche, Alejandro; Morcuende-Ventura, Violeta; Tejedor, Rosa

Journal of Microencapsulation | Language: English, Database: CAPlus

The work assesses the performance of nanocarriers from amphiphilic... benzene or coumarin moieties for delivery of paclitaxel. Paclitaxel was encapsulated by the nanoprecipitation method. Characterisations were performed by DLS, TEM, Zeta potential and HPLC. Cell viability was investigated in HeLa and Huh-5-2-cell lines. Coumarin-containing polymeric micelles (Dh = 26±2nm, PDI=0.28, ζ = -22.9±3.6mV) with 11.2±0.5%weight/weight drug loading showed enhanced cytotoxicity in HeLa cells (IC50=0.02µM) compared to free paclitaxel (IC50=0.17±0.02µM). Azobenzene-containing...

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Biochemical and biophysical characterization of PADI4 supports its involvement in cancer

By: Neira, Jose L.; Araujo-Abad, Salome; Camara-Artigas, Ana; Rizzuti, Bruno; Abian, Olga; Giudici, Ana Marcela; Velazquez-Campoy, Adrian; de Juan Romero, Camino

Archives of Biochemistry and Biophysics (2022), 717, 109125 | Language: English, Database: CAplus and MEDLINE

PADI4 (protein-arginine deiminase, also known as protein L-arginine iminohydrolase) is one of the human isoforms of a family of Ca²⁺-dependent proteins catalyzing the conversion of arginine to citrulline. Although the consequences of this process, known as citrullination, are not fully understood, all PADIs have been suggested to play essential roles in development and cell differentiation. They have been found in a wide range of cells and tissues and, among them, PADI4 is present in macrophages, monocytes, granulocytes and cancer cells. In this work, we focused on the biophys. features of PAD...

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polycarbonates self-assemblies containing azobenzene or coumarin moieties as nanocarriers using paclitaxel as a model hydrophobic drug

By: Roche, Alejandro; Morcuende-Ventura, Violeta; Tejedor, Rosa M.; Oriol, Luis; **Abian, Olga**; Pinol, Milagros

Journal of Microencapsulation | Language: English, Database: Cplus and MEDLINE

The work assesses the performance of nanocarriers from amphiphilic block copolymers with functional azobenzene or coumarin moieties for delivery of paclitaxel. Paclitaxel was encapsulated by the nanopptn. method. Characterisations were performed by DLS, TEM, Zeta potential and HPLC. Cell viability was investigated in HeLa and Huh-5-2-cell lines. Coumarin-containing polymeric micelles (Dh = 26±2nm, PDI=0.28, ζ = -22.9±3.6mV) with 11.2±0.5%weight/weight drug loading showed enhanced cytotoxicity in HeLa cells (IC50<0.02nM) compared to free paclitaxel (IC50=0.17±0.02nM). Azobenzene-containing ...

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Increase in conformational stability of enzymes immobilized on epoxy-activated supports by favoring additional multipoint covalent attachment

By: Mateo, C.; **Abian, O.**; Fernandez-Lafuente, R.; Guisan, J. M.
 Enzyme and Microbial Technology (2000), 26(7), 509-515 | Language: English, Database: CAPlus and MEDLINE

Epoxy supports (Eupergit C) may be very suitable to achieve the multipoint covalent attachment of proteins and enzymes, therefore, to stabilize their three-dimensional structure. To achieve a significant multipoint covalent attachment, the control of the exptl. conditions was found to be critical A three-step immobilization/stabilization procedure is here proposed: 1) the enzyme is firstly covalently immobilized under very mild exptl. conditions (e.g. pH 7.0 and 20°C); 2) the already immobilized enzyme is further incubated under more drastic conditions (higher pH values, longer incubation peri...

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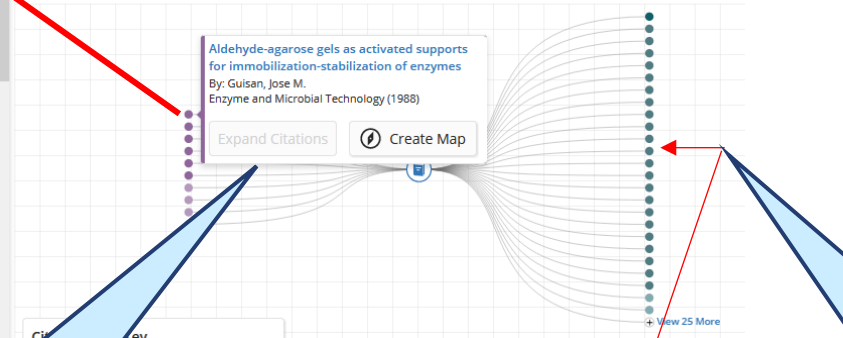
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[Increase in conformational stability of enzymes immobilized on epoxy-activated supports by favoring additional multipoint covalent attachment](#)

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Keywords: conformation stability enzyme immobilization epoxy support

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