

## What's New:

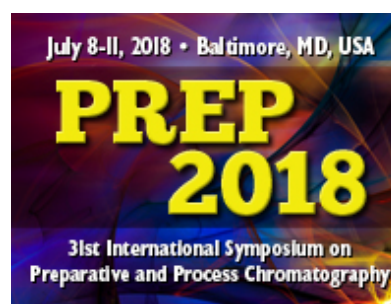
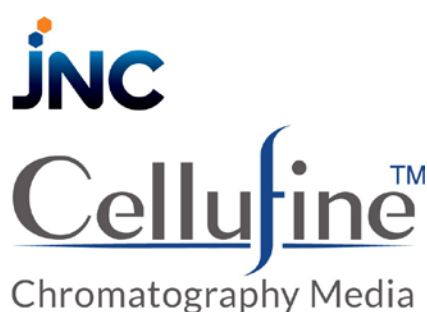
### PREP 2018 31<sup>st</sup> Symposium on Preparative & Process Chromatography

Baltimore, MD July 8-11, 2018 - Hyatt Hotel Inner Harbor

Dear PREP 2018 Participants,

JNC America Inc, manufacturer and global supplier of Cellufine chromatography media, is excited for this year's symposium with a great scientific program and supplier exhibits. We cordially invite you to the following events we will be hosting throughout the symposium to visit our booth in the Exhibitor Hall.

*When Purity is Paramount...Cellufine™ Media Delivers*



#### Oral Presentation

***Development of a Novel Cellulose Based rProtein A Capture Resin: Discussion of Critical Success Factors Identified for a New Bead Structure Design Combined with an Advanced Base Stable Affinity rProtein A ligand.***

Malcolm G Pluskal<sup>3</sup>, Natsuki Okaniwa<sup>1</sup>, Eri Narita<sup>1</sup>, Naoki Yamanaka<sup>1</sup>, Masami Shiina<sup>2</sup>, Yoshihiro Matsumoto<sup>1</sup> and Shigeyuki Aoyama<sup>1</sup>

A new product development approach will be described for the affinity capture of Mab's from cell culture materials employing a novel base stable rProtein A ligand with up to six available Fc binding sites. Data will be presented to illustrate the efficient utilization of all available Fc binding sites on this immobilized affinity ligand.

#### Poster Session: Monday @ 5:30PM Exhibit Hall

***Development of novel cellulose based rProtein A capture resins for improved workflow effective Mab purification.***

Natsuki Okaniwa<sup>1</sup>, Eri Narita<sup>1</sup>, Naoki Yamanaka<sup>1</sup>, Masami Shiina<sup>2</sup>, Yoshihiro Matsumoto<sup>1</sup>, Malcolm G. Pluskal<sup>3</sup> and Shigeyuki Aoyama<sup>1</sup>

<sup>1</sup>JNC Corporation, R&D, Yokohama, <sup>2</sup>Manufacturing Research, Minamata, Japan and <sup>3</sup>JNC America, Cellufine Application Lab, Littleton, MA

A new product development approach will be described for the affinity capture of Mab's from cell culture materials employing a novel base stable rProtein A ligand with up to six available Fc binding sites. The resin is based on a stable cellulose bead structure with excellent flow properties combined with the affinity ligand immobilized at multiple sites to yield a robust next generation Mab capture resin with a high level of binding capacity.

## Poster Session: TBD

### Evaluation of Dextran Sulfate as a Chromatography Ligand on the surface of Cellufine™ cellulose beads.

Kohji Nobuta<sup>1</sup>, Jyunya Toba<sup>1</sup>, Akihiro Uchida<sup>1</sup>, Malcolm G. Pluskal<sup>2</sup> and Shigeyuki Aoyama<sup>1</sup>

<sup>1</sup>JNC Corporation, R&D, Yokohama, Japan and <sup>2</sup>JNC America, Cellufine Application Lab, Littleton, MA

Dextran sulfate is a synthetic derivative of the natural polysaccharide dextran and is reported to have similar bioactivity as heparin. This molecule is also well known to show unique chromatographic properties such as; a) heparin like pseudo affinity as well as b) cation exchange interactions. JNC has developed new chromatography resins, Cellufine MAX DexS-HbP and MAX DexS-VirS incorporating two different molecular weight (MWt.) dextran sulfate polymers.

## Booth Exhibition

Conference Exhibit Hall Dates: **July 8<sup>th</sup> Sunday to July 10<sup>th</sup> Tuesday**

Sunday July 8 <sup>th</sup>	6:00 PM – 7:30 PM
Monday July 9 <sup>th</sup>	10:15 AM – 7:30 PM
Tuesday July 10 <sup>th</sup>	9:00 AM – 3:30PM

**Cellufine™ chromatography media** for purification of various bio molecules

Looking forward to seeing you there;

Booth Staff:

Shigeyuki Aoyama, Cellufine Global Product Director

Seiji Shinoda, Senior Vice President

Malcolm Pluskal Director Technical Services / Marketing

A. Mark Trotter, Director Sales & Marketing