INFORMA

Adquisición de paquete de software para secuenciación de-novo de secuencias peptídicas

La Unidad de Proteómica del Servicio Central de Apoyo a la Investigación (SCAI) de la UCO ha incorporado un paquete de software para secuenciación de-novo de secuencias peptídicas con cargo al proyecto EQC2018-005166-P concedido por el Ministerio de Ciencia, Innovación y Universidades a través del Subprograma Estatal de Infraestructuras de Investigación y Equipamiento Científico-Técnico (convocatoria 2018), cofinanciado por la Agencia Estatal de Investigación (AEI) y el Fondo Europeo de Desarrollo Regional (FEDER), cuyo Responsable Científico es el investigador Francisco José Urbano Navarro.

OBJETIVO y FUNCIONALIDAD DEL EQUIPAMIENTO ADQUIRIDO

Características del equipamiento adquirido.

Software de análisis por secuenciación de novo de datos proteómicos adquiridos en instrumentos de LCMS. Análisis cualitativos y cuantitativos y análisis de modificaciones postraduccionales.

Valor añadido e impacto científico-tecnológico de la adquisición

Ideal para la aplicación en organismos no modelo como son las especies de interés agronómico. Permite caracterizar nuevas secuencias de péptidos para mejorar las identificaciones proteicas en especies de interés agronómico.

Técnicas o investigaciones que el equipo permitirá desarrollar o abordar.

Identificación de nuevos polimorfismos en secuencias proteicas y modificaciones postraduccionales por secuenciacion de novo. Análisis cualitativos y cuantitativos "label-based" y "label-free" de proteomas de especies no modelo.

Equipo responsable y potencial de utilización por parte de otros grupos de investigación.

El software se gestiona desde las Unidades de Proteómica y Bioinformática del Servicio Central de Apoyo a la Investigación (SCAI) y se encuentra disponible para investigadores tanto de la propio UCO como de OPIs y empresas privadas que lo soliciten.

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Tasks Running Info

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Online
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News & Highlights

HUPO 2020 Connect (October 19 – 22, 2020)
Bioinformatics Solutions Inc. is proud to be a sponsor of the 19th annual HUPO World Congress: HUPO 2020 Connect. Learn more about our events during the virtual congress!

PEGS Boston Virtual Conference (Aug. 31 – Sept. 4, 2020)
BSI is excited to be part of the 2020 PEGS Boston Virtual Conference for protein engineering and cell therapy! Check out the latest software and laboratory services the team has to offer.

Characterizing the T1D-Associated MHC-II Peptidome of the NOD Mouse Webinar (June 25, 2020)
Join us for our final #PEAKSUserAppreciation webinar this month with Dr. Cheryl Lichti, as she examines the T1D-associated MHC-II peptidome of the NOD mouse to find key features that cause autoreactivity (12:00pm EDT).

Sexing Skeletons with Proteomics Webinar (June 18, 2020)
Join us on June 18th as Dr. Glendon Parker, University of California-Davis, explains the importance of proteomics in the world of forensics, especially when the sex of the skeleton cannot be determined due to degradation or juvenile age (1:00pm EDT).

LC-MS-based Discovery of Peptide Hormones in Fishes and the Fluidity of Sex Webinar (June 16, 2020)
Join us on June 16th as Prof. Dr. Jonathan Sweedler, University of Illinois, will be sharing his latest research in the characterization of peptide hormones in clown fish. This work includes the comparison of various search engines for the purpose of peptide characterisation (12:00pm EDT).

Deep coverage single-shot phosphoproteomics and ion mobility-based elucidation of phosphosite isomers using PASEF-DDA and PEAKS Webinar (June 17, 2020)
Join us as we learn how IMS-MS-based proteomics can further our knowledge of cellular signaling. Presented by Prof. Dr. Stefan Tenzer, University Medical Center, Mainz (11:00am EDT).

ASMS Virtual Booth (June 5: 1pm - 4pm CDT)
We're excited to reconnect with you! Join the PEAKS Team at the Virtual ASMS booth using the link in the Exhibitor page.

PEAKS User Appreciation
Join in a series of user webinars to learn about some exciting research in the PEAKS community! #PEAKSUserAppreciation

Proteomics from Farm to Fork Webinar (June 9, 2020)
Join our first PEAKS User Appreciation webinar where Dr. Evelyne Maes will present her ongoing work at AgResearch and the role that proteomics plays in the food supply industry (4:30 pm EDT).

Mass Spectrometry-Based Proteomics in the Fight Against COVID-19 Webinar (May 21, 2020)
BSI will be hosting a webinar about Mass Spectrometry-Based Proteomics in the Fight Against COVID-19

False Discovery Rate (FDR) Curve
In PEAKS X+ (build 20200219), users will find that the FDR curve displays the number of identified peptides at a given percent FDR.

PEAKS X+ | Host Cell Protein Analysis Webinar (April 23, 2020)
BSI will be hosting a webinar about Antibody de novo sequencing using PEAKS X+

Weekly Featured User Publication | Mapping the Tooth Enamel Proteome and Amelogenin Phosphorylation Onto Mineralizing Porcine Tooth Crowns
Green Daniel R., et al, Mapping the Tooth Enamel Proteome and Amelogenin Phosphorylation Onto Mineralizing Porcine Tooth Crowns, Frontiers in Physiology. V. 10, 2019, 295

PEAKS X+ | Immunopeptidomics Webinar (April 16, 2020)
BSI will be hosting a webinar about Immunopeptidomics

PEAKS X+ | Ion Mobility Data Analysis Webinar (April 9, 2020)
BSI will be hosting a webinar about Ion Mobility Data Analysis in PEAKS X+

PEAKS X+ | Tips & Tricks Webinar (April 2, 2020)
BSI will be hosting a webinar about tips and tricks within PEAKS X+

Weekly Featured User Publication | The MHC-II peptidome of pancreatic islets identifies key features of autoimmune peptides
Purcell, A.W., Ramarathinam, S.H. & Ternette, N. Mass spectrometry–based identification of MHC-bound peptides for immunopeptidomics. Nat Protoc 14, 1687–1707 (2019)

COVID-19 | A Commitment to Our Users
Following the advice of Canada's Public Health Authorities, a majority of the PEAKS team will be working remotely from home as of Monday, March 16th, due to the COVID-19 outbreak.

PEAKS X+ | Beyond the Results: Automated QC tools for LC-MS (March 12, 2020)
BSI will be hosting a webinar about how to perform a Quality Control analysis within PEAKS X+