Genomics in foodborne pathogen surveillance and outbreak investigation

Uzt. 12 - Uzt. 13 2017

Kod. O12-17

Mod.:
Aurrez aurrekoa

Edizioa
2017

Jarduera mota
Uda Ikastaroa

Data
Uzt. 12 - Uzt. 13 2017

Kokalekua
12 de julio-Centro Investigacion Micaela Portilla-Nieves Cano Kalea, 27, 01006 Vitoria-Gasteiz//13 de Julio Edificio las Nieves-Nieves Cano 33. 01006 Vitoria-Gasteiz

Hizkuntzak
Ingelesa

Balio akademikoa
20 ordu

Antolakuntza Batzordea

Azalpena

The Summer Course **Genomics in foodborne pathogen surveillance and outbreak investigation** is an open teaching action of the European Research Project INNUENDO. The overall objective of the Innuendo international research consortium is to deliver a standardized, cross-sectorial framework for integration of bacterial whole genome sequencing (WGS) in routine surveillance and epidemiological investigations to reduce the burden of disease caused by both epidemic and sporadic food-borne zoonotic infections.

Up to 40 students will attend to the course and will receive theoretical and practical training about application of WGS in surveillance of food pathogens. The workshop will be divided in two parts. The first part will be one day of Scientific Symposium during which invited speakers and speakers within Innuendo consortium will present recent advance in the field. The second part will include a practical hands-on course on bioinformatics solution for public health microbiology. During the hands-on students will learn several bioinformatics tools including those developed within the project.

Ikastaroaren laguntzaile espezifikoak

INNUENDO.

efsa European Food Safety Authority

ESCMID EUROPEAN SOCIETY OF CLINICAL MICROBIOLOGY AND INFECTIOUS DISEASES

EUSKO JAURLARITZA GOBIERNO VASCO

eman ta zabal zazu UPV EHU

elika Fundación Vasca para la Seguridad Agroalimentaria Nekazaritzako Elikagaien Segurtasunarako Euskal Fundazioa

Ayuntamiento de Vitoria-Gasteiz Vitoria-Gasteizko Udala

Programa

2017-07-12

08:15 - 00:00 Registration and coffee

08:40 - 09:00 “Opening of the course, wellcome“

Javier Garaizar Candina UPV/EHU - Professor of Microbiology
Gorka Urtaran Ayuntamiento de Vitoria-Gasteiz -
Beatriz Guerra European Food Safety Authority, EFSA - Senior Scientific Officer
Peli Manterola Basque Government - Quality and Food Industries Director
Iván Igartua Ugarte UPV/EHU - Vice-rector of Campus of Álava

09:00 - 09:45 “WGS in surveillance and outbreak detection of foodborne pathogens“

Eduardo N Taboada Public Health Agency of Canada

09:45 - 10:30 “WGS and antibiotic resistance“

Martin Cormican NUI Galway Ireland

10:30 - 11:00 Coffee break

11:00 - 11:10 “EU Capacity-building projects: INNUENDO“

Mirko Rossi University of Helsinki, Finland

11:10 - 11:30 “EU Capacity-building projects: ENGAGE & COMPARE“

Valeria Bortolaia Danish Technical University, Denmark

11:30 - 12:00 “From reads to profiles to trees: challenges and solutions in high throughput sequencing data analysis“

João Carriço Universidade de Lisboa, Portugal

12:00 - 12:30 “Phenotypic prediction using WGS data: virulome and resistome“

Valeria Bortolaia Danish Technical University, Denmark

12:30 - 13:30 Lunch

13:30 - 13:50 “QA/QC and automatization of whole genome sequence analysis: implementation“

Mirko Rossi University of Helsinki, Finland

13:50 - 14:10 “QA/QC and automatization of whole genome sequence analysis: theory“

Miguel Machado Universidade de Lisboa, Portugal

14:10 - 14:40 “GScompare: fast clustering of assembled genomes“

Joseba Bikandi Bikandi University of the Basque Country - Senior Lecturer

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14:40 - 15:00 “Whole genome MLST: theory“

João Carriço Universidade de Lisboa, Portugal

15:00 - 15:15	“Whole genome MLST: implementation“ **Mickael Silva** Universidade de Lisboa, Portugal
15:15 - 15:30	“Whole genome MLST: phylogenetic inference and metadata visualization“ **Bruno Gonçalves** Universidade de Lisboa, Portugal
15:30 - 16:00	Coffee break
16:00 - 16:30	“A road map to national WGS based surveillance of foodborne bacteria, Finland“ **Saara Salmenlinna** National Institute for Health and Welfare, Finland
16:30 - 17:00	“Standardized communication during outbreak investigation“ **Mirko Rossi** University of Helsinki, Finland
17:00 - 00:00	Sintesia
19:00 - 00:00	Venue and Social event

2017-07-13

08:40 - 09:40	“Content of the day, division of groups, setting computer environment“ **Joseba Bikandi Bikandi** University of the Basque Country - Senior Lecturer
09:00 - 09:20	“Overview of the INNUENDO platform and its modules“ **João Carriço** Universidade de Lisboa, Portugal
09:20 - 09:45	“The INNUENDO platform: the user interface“ **Bruno Gonçalves** Universidade de Lisboa, Portugal
09:45 - 10:45	“The INNUENDO platform: QA/QC analysis - INNUca (Part 1)“ **Miguel Machado** Universidade de Lisboa, Portugal
10:45 - 11:15	Coffee break
11:15 - 12:15	“The INNUENDO platform: QA/QC analysis - INNUca (Part 2)“ **Miguel Machado** Universidade de Lisboa, Portugal
12:15 - 12:45	“The INNUENDO platform: GScompare for species determination“ **Joseba Bikandi Bikandi** University of the Basque Country - Senior Lecturer
12:45 - 14:00	Lunch
14:00 - 15:30	“The INNUENDO platform: cg/wgMLST using chewBACCA“ **Mickael Silva** Universidade de Lisboa, Portugal

	Coffee break
15:30 - 16:15	“The INNUENDO platform: from analysis to action, interpreting trees“ **Bruno Gonçalves** Universidade de Lisboa, Portugal
16:15 - 18:00	“Working in groups, self-learning/testing - Free Coffee break“ **Miguel Machado** Universidade de Lisboa, Portugal **Mickael Silva** Universidade de Lisboa, Portugal - **Bruno Gonçalves** Universidade de Lisboa, Portugal -
19:00 - 00:00	Social event

Zuzendaritza

Javier Garaizar Candina

UPV/EHU

Javier Garaizar Candina es Catedrático de Universidad del área de Microbiología en el Departamento de Inmunología, Microbiología y Parasitología de la Facultad de Farmacia del Campus de Álava de la UPV/EHU. Se doctoró en Medicina y Cirugía en el año 1989. Tiene una amplia experiencia docente, investigadora y de gestión en la UPV/EHU. Ha realizado varias estancias investigadoras postdoctorales, destacando las desarrolladas en el Laboratorio Central de Salud Pública de Londres, Reino Unido, el Centro Médico Erasmus de Roterdam, Holanda, el Centro del Cáncer Sidney Kimmel en San Diego, EEUU, y recientemente la desarrollada en la Universidad de Carolina del Sur, en Columbia, EEUU. Ha sido Vicedecano de Innovación Docente, Relaciones Internacionales y Alumnado y Decano en funciones en la Facultad de Farmacia de la UPV/EHU y Coordinador del Campus de Álava del Servicio de Asesoramiento Educativo y Vicerrector del Campus de Álava.

Irakasleak

Joseba Bikandi Bikandi

Valeria Bortolaia

João Carriço

Martin Cormican

Bruno Gonçalves

Miguel Machado

Mirko Rossi

Eduardo N Taboada

Saara Salmenlinna

Mickael Silva

Matrikula prezioak

MATRIKULA	2017-05-31 ARTE	2017-07-12 ARTE
MATRIKULA EXENTZIOA	20,00 EUR	20,00 EUR
OROKORRA	-	100,00 EUR
INNUENDO Europako proiektuko kidea	-	0 EUR
MATRIKULA BEREZIA	-	50,00 EUR

Kokalekua

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Araba