



Genomics in foodborne pathogen surveillance and outbreak investigation

12.Jul - 13.Jul 2017

Cód. 012-17

Mod.:

Presencial

Edición

2017

Tipo de actividad

Curso de Verano

Fecha

12.Jul - 13.Jul 2017

Ubicación

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

Idiomas

Inglés

Validez académica

20 horas

Web

<https://sites.google.com/site/innuendocon/innuendo-summer-course>

DIRECCIÓN

SUMMER COURSES
_2017
12-13 July

Genomics in foodborne pathogen surveillance and outbreak investigation

University of the Basque Country, UPV/EHU, Vitoria-Gasteiz, Spain

WGS

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Comité Organizador



Descripción

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.

Objetivos

The aims of the course are to present and discuss recent advances in the fields of genomics and the use of Whole-Genome Sequencing (WGS) in surveillance and outbreak investigation of food pathogens. For this purpose, the INNUENDO research consortium and other invited speakers have organized a two-days theoretical and practical training activity. The first day, *the theory*, a Scientific Symposium will be developed, and the second day, *the practice*, a hand-on course on bioinformatic solutions for public health microbiology will complete training in this emerging field.

Colaboradores específicos del curso



Programa

12-07-2017

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
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	Síntesis
19:00 - 00:00	Venue and Social event

13-07-2017

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

Dirigido por:



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 Rotterdam, 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.

Profesorado



Joseba Bikandi Bikandi



Valeria Bortolaia



João Carriço



Martin Cormican



Bruno Gonçalves



Miguel Machado



Mirko Rossi



Eduardo N Taboada



Saara Salmenlinna



Mickael Silva

Precios matrícula

MATRICULA	HASTA 31-05-2017	HASTA 12-07-2017
EXENCIÓN DE MATRÍCULA	20,00 EUR	20,00 EUR
GENERAL	-	100,00 EUR
Miembros del proyecto Europeo INNUENDO	-	0 EUR
MATRÍCULA ESPECIAL	-	50,00 EUR

Lugar

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

Araba