

Curso virtual
Medicina en la era genómica.

Coordinadores:

Dr. Oscar Arias Carrión

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Objetivo general del curso:

Brindar una perspectiva de los alcances actuales de la genómica en la medicina.

Duración:

2 meses, 20 horas.

22 de junio al 21 de agosto.

Actividades:

3 módulos, 19 video clases y evaluaciones.

Cupo limitado.

Perfil:

Estudiantes de licenciatura, especialidad y maestría en ciencias de la salud.

Temario

Módulo 1. Del DNA a la medicina genómica

- 1.1 Proyecto del genoma humano
- 1.2 Un nuevo concepto en medicina
- 1.3 La medicina de 4PS en la práctica, desde prenatal hasta la tumba
- 1.4 Estructura y función del genoma humano
- 1.5 Diversidad genética en las poblaciones humanas

Módulo 2. Genómica computacional y el manejo de grandes datos

- 2.1 Genómica computacional
- 2.2 Genómica computacional: laboratorio de biología de sistemas computacional y genómica integrativa
- 2.3 Introducción a la biología de sistemas-redes

Módulo 3. Genómica en la práctica clínica

- 3.1 Medicina traslacional en cáncer de mama: aplicaciones genómicas en la clínica
- 3.2 Genómica de enfermedades metabólicas
- 3.3 Herencia mendeliana
- 3.4 Genómica de las enfermedades infecciosas
- 3.5 Avances genómicos en enfermedades del hígado: cáncer hepático
- 3.6 Psiquiatría y adicciones en medicina genómica
- 3.7 Genómica de enfermedades autoinmunes
- 3.8 Genómica de las enfermedades cardiovasculares
- 3.9 Enfermedades musculo esqueléticas y óseas
- 3.10 Genómica del cáncer
- 3.11 Medicina genómica en la leucemia mieloide crónica

Requerimientos especiales:

Acceso a internet.

Bocinas o audífonos.

Contar con correo electrónico.



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