



Satuan Acara Pengajaran

BIO30604 - Genetika Manusia

Pengajar

Dr. Retno Lestari S.Si., M.Si

Dr. Drs. Abinawanto M.Si.

Minggu 1

Materi Pendahuluan (lingkup materi, metode pembelajaran, dan jadwal tatap muka)

Media LCD, Laptop

Referensi Cummings, M. R. 2000. Human heredity: Principles and issues. 5th ed. Brooks/Cole Thomson Learning, Pacific Groove: xxvi + 488 hlm.
Lewis, R. 2001. Human Genetics: Concepts and applications. 4th ed. McGraw Hill, Boston: xx+408 hlm.
Snustad, D.P. & M. J. Simpsons. 2000. Principles of genetics. 2nd ed. John Wiley & Sons, Inc.: xviii + 876 hlm.

Aktivitas Kuliah, diskusi (tanya jawab)

Minggu 2

Materi Genetika perkembangan: Sistem reproduksi, meiosis, maturasi gamet, perkembangan prenatal, maturasi, dan aging

Media LCD, Laptop

Referensi Lewis, R. 2001. Human Genetics: Concepts and applications. 4th ed. McGraw Hill, Boston: xx+408 hlm.

Aktivitas Kuliah, diskusi (tanya jawab)

Minggu 3

Materi Identitas seksual: kromosom seks, penentuan jenis kelamin, Barr bodies, X-inaktivasi, hermaprodit

Media LCD, Laptop

Referensi Snustad, D.P. & M. J. Simpsons. 2000. Principles of genetics. 2nd ed. John Wiley & Sons, Inc.: xviii + 876 hlm.

Aktivitas kuliah, diskusi (tanya jawab)

Minggu 4

Materi Teknologi Reproduksi yang diperbantukan

Media OHP

Referensi Cummings, M. R. 2000. Human heredity: Principles and issues. 5th ed. Brooks/Cole Thomson Learning, Pacific Groove: xxvi + 488 hlm

Aktivitas Kuliah, diskusi (tanya jawab)

Minggu 5

Materi Sitogenetika: set kromosom manusia, pembuatan kariotipe, analisis kromosom, variasi jumlah kromosom, kelainan jumlah dan struktur kromosom, amniosentesis, chorionic villus sampling, dan analisis pedigree.

Media LCD, Laptop

Referensi Lewis, R. 2001. Human genetics: Concepts and applications. 4th ed. Mc Graw Hill, Boston: xx + 408 hlm.
Snustad, D.P. & M. J. Simpsons. 2000. Principles of genetics. 2nd ed. John Wiley & Sons, Inc.: xviii + 876 hlm.

Aktivitas Kuliah, diskusi (tanya jawab)

Minggu 6

Materi Poligen dan pewarisan multifaktorial

Media LCD dan laptop

Referensi Cummings, M. R. 2000. Human heredity: Principles and issues. 5th ed. Brooks/Cole Thomson Learning, Pacific Groove: xxvi + 488 hlm.
Lewis, R. 2001. Human Genetics: Concepts and applications. 4th ed. McGraw Hill, Boston: xx+408 hlm.

Aktivitas Kuliah, diskusi (tanya jawab)

Minggu 7

Materi Genetika tingkah laku: eating disorders, sleep, intelligence, drug addiction, mood disorders, dan Schizophrenia

Media LCD, laptop

Referensi Cummings, M. R. 2000. Human heredity: Principles and issues. 5th ed. Brooks/Cole Thomson Learning, Pacific Groove: xxvi + 488 hlm.
Lewis, R. 2001. Human Genetics: Concepts and applications. 4th ed. McGraw Hill, Boston: xx+408 hlm.

Aktivitas Kuliah, diskusi (tanya jawab)

Minggu 8

Materi LIBUR CUTI BERSAMA (IDUL FITRI)

Media

Referensi

Aktivitas

Minggu 9

Materi UJIAN TENGAH SEMESTER

Media Kertas ujian

Referensi materi kuliah 1 sampai dengan materi kuliah 7

Aktivitas

Minggu 10

Materi Transposable elements

Media LCD, laptop

Referensi Cummings, M. R. 2000. Human heredity: Principles and issues. 5th ed. Brooks/Cole Thomson Learning, Pacific Groove: xxvi + 488 hlm.
Lewis, R. 2001. Human Genetics: Concepts and applications. 4th ed. McGraw Hill, Boston: xx+408 hlm.
Snustad, D.P. & M. J. Simpsons. 2000. Principles of genetics. 2nd ed. John Wiley & Sons, Inc.: xviii + 876 hlm.

Aktivitas

Minggu 11

Materi Genetika kanker: karakteristik, contoh gen penyebab kanker, pencegahan , dan diagnosis

Media Laptop, LCD

Referensi Cummings, M. R. 2000. Human heredity: Principles and issues. 5th ed. Brooks/Cole Thomson Learning, Pacific Groove: xxvi + 488 hlm.
Lewis, R. 2001. Human Genetics: Concepts and applications. 4th ed. McGraw Hill, Boston: xx+408 hlm.
Snustad, D.P. & M. J. Simpsons. 2000. Principles of genetics. 2nd ed. John Wiley & Sons, Inc.: xviii + 876 hlm.

Aktivitas Kuliah, diskusi (tanya jawab), presentasi mahasiswa

Minggu 12

Materi Proyek genom manusia

Media LCD, laptop

Referensi Cummings, M. R. 2000. Human heredity: Principles and issues. 5th ed. Brooks/Cole Thomson Learning, Pacific Groove: xxvi + 488 hlm.
Lewis, R. 2001. Human Genetics: Concepts and applications. 4th ed. McGraw Hill, Boston: xx+408 hlm.

Aktivitas Kuliah, diskusi (tanya jawab), presentasi mahasiswa

Minggu 13

Materi Mutasi gen dan kelainan-kelainan akibat mutasi

Media LCD, laptop

Referensi Cummings, M. R. 2000. Human heredity: Principles and issues. 5th ed. Brooks/Cole Thomson Learning, Pacific Groove: xxvi + 488 hlm.
Lewis, R. 2001. Human Genetics: Concepts and applications. 4th ed. McGraw Hill, Boston: xx+408 hlm.
Snustad, D.P. & M. J. Simpsons. 2000. Principles of genetics. 2nd ed. John Wiley & Sons, Inc.: xviii + 876 hlm.

Aktivitas Kuliah, diskusi (tanya jawab), dan presentasi mahasiswa

Minggu 14

Materi Proyek genom manusia

Media LCD, laptop

Referensi Cummings, M. R. 2000. Human heredity: Principles and issues. 5th ed. Brooks/Cole Thomson Learning, Pacific Groove: xxvi + 488 hlm.
Lewis, R. 2001. Human Genetics: Concepts and applications. 4th ed. McGraw Hill, Boston: xx+408 hlm.
Snustad, D.P. & M. J. Simpsons. 2000. Principles of genetics. 2nd ed. John Wiley & Sons, Inc.: xviii + 876 hlm.

Aktivitas Kuliah, diskusi (tanya jawab)

Minggu 15

Materi UJIAN AKHIR SEMESTER (UAS)

Media Kertas ujian

Referensi

Aktivitas Kuliah, diskusi (tanya jawab)
