**MASTER 1 BIOLOGY-HEALTH**

***HAV701V*- *The genetic and molecular basis of inherited diseases -***

**Course directors: Dr. Pascale PERRIN (****pascale.perrin@umontpellier.fr****); Dr. Mireille COSSEE (****mireille.cossee@inserm.fr****); Magali TAULAN (****magali.taulan@inserm.fr****)**

 Courses: CM : 42h (28 x 1h30)

MCC : Written évaluation (2 sessions) : 2 hours (80% of the final grade) and Oral (1 session) : 20% of the final grade

Place : UM Triolet

**Date Time Place**

S38 - Tues 17/09/2024 16h45-18h15 TD 36.415 CM1: The human nuclear and mitochondrial genome structure and organization (P. PERRIN)

 18h30-20h00 TD 36.415 CM2: Human genome and variations (P. PERRIN)

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S39 – Tues 24/09/2024 16h45-18h15 TD 36.415 CM3: The processes shaping the Human diversity (P. PERRIN)

 18h30-20h00 TD 36.415 CM4: Hemoglobinopathies (P. PERRIN)

--------------------------------------------------------------------------------------------------------------------------------S40 - Tues 01/10/2024 16h45-18h15 TD 36.415 CM5: Classical, molecular cytogenetics, and wide-genomic analyses (1) (V. GATINOIS)

 18h30-20h00 TD 36.415 CM6: Classical, molecular cytogenetics, and wide-genomic analyses (2) (V. GATINOIS)

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S41 - Tues 08/10/2024 16h45-18h15 TD 36.415 CM7: Pathological mechanisms of human genome mutations (1) (F. PARIS)

 18h30-20h00 TD 36.415 CM8: Pathological mechanisms of human genome mutations (2) (M. COSSEE)

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S42 - Tues 15/10/2024 16h45-18h15 TD 36.415 CM9: NGS strategies (M COSSEE)

 18h30-20h00 TD 36.415 CM10: NGS strategies: application to inherited diseases (M COSSEE)

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S43 - Tues 22/10/2024 16h45-18h15 TD 36.415 CM11: Coding and non-coding RNA in inherited diseases (M. TAULAN-CADARS)

 18h30-20h00 TD 36.415 CM12: Application of RNA sequencing (M. TAULAN-CADARS)

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**S44 –**  **HOLLIDAYS**

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S45 - Tues 05/11/2024 16h45-18h15 TD 36.415 CM13: Neurodegenerative Diseases (1): dementia, Parkinson Disease (M. KOENIG)

 18h30-20h00 TD 36.415 CM14: Neurodegenerative Diseases (2): ataxias and spastic paraplegias (M. KOENIG)

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S46 – Tues 12/11/2024 16h45-18h15 TD 36.415 CM15: NGS and bioinformatics (C. VAN GOETHEM)

 18h30-20h00 TD 36.415 CM16: Immune deficiencies of genetic origins (S. KOSSIDA)

S46 – Frid 15/11/2024 08h00-09h30 TD 16.02 CM17: Genetic of disorders of sex development (F. PARIS)

 09h45-11h15 TD 16.02 CM18: Autoimmune diseases (P.PERRIN)

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S47 – Tues 19/11/2024 16h45-18h15 TD 36.412 CM19: Autistic syndromes (M. COSSEE)

 18h30-20h00 TD 36.412 CM20: Model organisms: preclinical trials (A. CHARTIER)

S47 – Frid 22/11/2024 8h00- 9h30 TD 36.412 CM21: Epigenetics and human diseases (A. de SARIO)

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S48 – Tues 26/11/2024 16h45-18h15 TD 36.412 CM22: Gene therapy (M. TAULAN-CADARS)

 18h30-20h00 TD 36.412 CM23: Cell therapies (J-L. VEYRUNE)

S48 – Frid 29/11/2024. 08h00-09h30 TD 36.411 CM24: Linkage studies - LOD score calculation (M. KOENIG)

 09h45-11h15 TD 36.411 CM25: Escap’genet (M. TAULAN-CADARS)

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S50 - Tues 10/12/2024 15h00-16h30 TD 36.411 Presentation of publications [Resp. M. TAULAN-CADARS (\*)]

 16h45-18h15 TD 36.411 Presentation of publications [Resp. M. TAULAN-CADARS (\*)]

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 (\*) Members of the oral panels: Mireille Cossée, Albertina de Sario, Vincent Gatinois, Anne Girardet, Michel Koenig, Pascale Perrin et Luke Mansard.