**Course Title:** **Biochemistry integrated with OBGYN**

**Coordinator/Responsible person/contact:** dr Joanna Dulinska-Litewka /e-mail: [joanna.dulinska-litewka@uj.edu.pl](mailto:joanna.dulinska-litewka@uj.edu.pl)

**Address:** Chair of Medical Biochemistry, Kopernika 7 (room 5, 6 and CH)

**Year:** 4/VI

**Total number of hours: 5**

**Seminars: 5**

**Student’s Evaluation:**

**- grading scheme: attendance on both classes and presentation of the selected topic, quiz**

**- absence allowed: no**

**Chair of Medical Biochemistry MC JU, Kopernika 7 (room 5, 6 or CH)**

|  |  |  |
| --- | --- | --- |
| Gr. 2A | Hormonal regulation of implantation.  Implantation – period, mechanism, hormonal control of implantation. – Role of estrogens and progesterone. The prenatal diagnosis of genetic diseases – Chromosomal aberrations, monogenetic diseases, polygenetic/multifactorial diseases. The most common chromosomal aberrations: autosomal trisomies (Down syndrome (21), Edwards syndrome (18), Patau syndrome (13). Prenatal screening tests in I and II trimester – ultrasonographic markers and biochemical markers. | Dr K. Kocemba –Pilarczyk |
| Gr. 2B | dr J. Dulińska-Litewka |
| Gr. 2A | Diagnostic methods in prenatal screening – amniocentesis, placental biopsy, karyotype analysis, FISH, QF-PCR, MLPA.  Teratology (maternal infection, viruses and bacteria, alcohol, medicines etc.).Applications of Molecular Biology to Cancer Prevention and Treatment.Prevention and Early Detection (molecular markers)for example; Cervical cancer, Ovarian cancer, Vulvar cancer, Vaginal cancer.  The role of HPV virus in cancerogenesis, molecular methods of the cancer genes analysis (Sanger sequencing, qRT-PCR, qPCR, Western Blot, Immunohistochemistry). | Dr K. Kocemba –Pilarczyk |
| Gr. 2B | dr J. Dulińska –Litewka |
| Gr. 3A | Hormonal regulation of implantation.  Implantation – period, mechanism, hormonal control of implantation. – Role of estrogens and progesterone. The prenatal diagnosis of genetic diseases – Chromosomal aberrations, monogenetic diseases, polygenetic/multifactorial diseases. The most common chromosomal aberrations: autosomal trisomies (Down syndrome (21), Edwards syndrome (18), Patau syndrome (13). Prenatal screening tests in I and II trimester – ultrasonographic markers and biochemical markers. | Dr K. Kocemba –Pilarczyk |
| Gr. 3B | dr J. Dulińska-Litewka |
| Gr. 3A | Diagnostic methods in prenatal screening – amniocentesis, placental biopsy, karyotype analysis, FISH, QF-PCR, MLPA.  Teratology (maternal infection, viruses and bacteria, alcohol, medicines etc.).  Applications of Molecular Biology to Cancer Prevention and Treatment.  Prevention and Early Detection (molecular markers)for example; Cervical cancer, Ovarian cancer, Vulvar cancer, Vaginal cancer.  The role of HPV virus in cancerogenesis, molecular methods of the cancer genes analysis (Sanger sequencing, qRT-PCR, qPCR, Western Blot, Immunohistochemistry). | Dr K. Kocemba –Pilarczyk |
| Gr. 3B | dr J. Dulińska –Litewka |
| Gr. 1A | Hormonal regulation of implantation.  Implantation – period, mechanism, Hormonal control of implantation - Role of estrogens and Progesterone. The prenatal Diagnosis of genetic Diseases - Chromosomal aberrations, monogenetic diseases, polygenetic/multifactorial diseases. The most common chromosomal aberration: autosomal trisomies (Downa syndrome (21), Edwards syndrome (18), Patau syndrome (13). Prenatal screening tests in I and II trimester - ultrasonographic markers and biochemical markers. | Dr K. Kocemba –Pilarczyk |
| Gr. 1B | dr J. Dulińska-Litewka |
| Gr. 1A | Diagnostic methods in prenatal screening - Amniocentesis, Placental biopsy, karyotype analysis, FISH, QF-PCR, MLPA,  Teratology (maternal infection, viruses and bacteria, alkohol, medicines etc.)  Applications of Molecular Biology to Cancer Prevention and Treatment  Prevention and Early Detection (molecular markers)  For example; Cervical cancer, Ovarian cancer, Vulvar cancer, Vaginal cancer  The role of HPV virus in cancerogenesis, molecular methods analysis of the cancer genes (Sanger sequencing, qRT-PCR, qPCR, Western Blot, Immunohistochemistry) | Dr K. Kocemba –Pilarczyk |
| Gr. 1B | dr J. Dulińska –Litewka |

OBGYN

**JDL (Joanna Dulińska-Litewka)  KKP (Kinga Kocemba-Pilarczyk)**

 Grupa 2

Part 1

A.           Thursday 17.10   8.00-9.45 CMB room 6,    KKP

B.            Thursday 17.10  8.00-9.45 CMB CH,    JDL

Part 2

A.           Friday  18.10   8.00-10.00  CMB room 6,   KKP

B.            Friday  18.10  8.00-10.00   CMB CH,    JDL

Grupa 3

 Part 1

A.           Thursday 14.11  8.00-9.45 CMB room 6,    KKP

B.            Thursday 14.11  8.00-9.45 CMB CH,   JDL

Part 2

A.           Friday  15.11  8.00-10.00  CMB room 6,   KKP

B.            Friday  15.11  8.00-10.00   CMB room 8,    JDL

Grupa 1

 Part 1

A.           Thursday 28.11  8.00-9.45 CMB  CH   KKP

B.            Thursday 5.12  8.00-9.45 CMB  LH,   JDL

Part 2

A.           Friday  29.11  8.00-10.00 CMB  CH,   KKP

B.            Friday  6.12  8.00-10.00   CMB CH,   JDL

**Course Title:** **Biochemistry integrated with Surgery**

**Coordinator/Responsible person/contact:** dr Barbara Piekarska

**Address:** Chair of Medical Biochemistry, Kopernika 7 (room 5, 6 and CH)

**Year:** 4/VI

**Total number of hours: 5**

**Seminars: 5**

**Student’s Evaluation:**

**- grading scheme: attendance on both classes and presentation of the selected topic, quiz**

**- absence allowed: no**

|  |  |  |
| --- | --- | --- |
| group | Topic | Teacher |
| 2 A | Metabolic changes in trauma and surgery. | Dr Halina Jurkowska |
| 2 B | Dr Barbara Piekarska |
| 2 A | Biochemical aspects of ERAS. Role of dietary supplements in treatment of surgical patients. | Dr Halina Jurkowska |
| 2 B | Dr Barbara Piekarska |
| 1 A | Metabolic changes in trauma and surgery. | Dr Halina Jurkowska |
| 1 B | Dr Barbara Piekarska |
| 1 A | Biochemical aspects of ERAS. Role of dietary supplements in treatment of surgical patients. | Dr Halina Jurkowska |
| 1 B | Dr Barbara Piekarska |
| 3 A | Metabolic changes in trauma and surgery. | Dr Halina Jurkowska |
| 3 B | Dr Barbara Piekarska |
| 3 A | Biochemical aspects of ERAS. Role of dietary supplements in treatment of surgical patients. | Dr Halina Jurkowska |
| 3 B | Dr Barbara Piekarska |

**SURGERY**

**BP (Barbara Piekarska); HJ (Halina Jurkowska)**

Grupa 2

Part 1

A.           Thursday 24.10 8.00-9.45 CMB room 5,    HJ

B.            Thursday 24.10  8.00-9.45 CMB CH,   BP

Part 2

A.           Friday  25.10  8.00-10.00  CMB room 5,    HJ

B.            Friday  25.10  8.00-10.00   CMB CH,    BP

 Grupa 1

Part 1

A.           Thursday 7.11 8.00-9.45 CMB room 5,    HJ

B.            Thursday 7.11  8.00-9.45 CMB CH,   B

Part 2

A.           Friday  8.11  8.00-10.00  CMB room 6,   HJ

B.            Friday  8.11  8.00-10.00   CMB CH,  BP

Grupa 3

Part 1

A.           Thursday 21.11 8.00-9.45 CMB room 6, HJ

B.            Thursday 21.11 8.00-9.45 CMB  CH,   BP

Part 2

A.           Friday  22.11  8.00-10.00  CMB room 6, HJ

B.            Friday  22.11   8.00-10.00   CMB  CH,   BP