

Course Title: Biochemistry integrated with OBGYN**Coordinator/Responsible person/contact:** dr Joanna Dulinska-Litewka /e-mail: 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.	Dr K. Kocemba – Pilarczyk
Gr. 2B	The role of HPV virus in cancerogenesis, molecular methods of the cancer genes analysis (Sanger sequencing, qRT-PCR, qPCR, Western Blot, Immunohistochemistry).	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.	Dr K. Kocemba – Pilarczyk
Gr. 3B	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 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 (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. 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, alcohol, medicines etc.) Applications of Molecular Biology to Cancer Prevention and Treatment Prevention and Early Detection (molecular markers)	Dr K. Kocemba – Pilarczyk
Gr. 1B	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 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