

## 6. VEDECKO – VÝSKUMNÁ ČINNOSŤ

DOC., MGR. JAN ANTONI RUTOWSKI, DR.

### Počet uskutočnených domácich projektov : 8

1/. Projekt conducted at the Faculty of Medicine University of Rzeszów, Poland : „**Genetyczne i biochemiczne czynniki ryzyka zachorowania na nowotwory złośliwe piersi i jajnika**“. Hlavný riešiteľ: Prof. Hayane Akopyan, **Spoluriešiteľ: Prof. mim. UR doc. Dr. hab. Jan Antoni Rutowski, Ph.D.**, Termín realizácie: 2017 – 2019. Confirmation from Medical Faculty, University of Rzeszów (UR), Poland.

2/. Projekt conducted at the Faculty of Medicine University of Rzeszów, Poland : „**Analiza interwencji Zespołów Ratownictwa Medycznego w zawale mięśnia sercowego**“. **Hlavný riešiteľ: Prof. mim. UR doc. Dr. hab. Jan Antoni Rutowski, Ph.D.**, Termín realizácie: 2017 – 2019. Confirmation from Medical Faculty, University of Rzeszów, Poland (06.07.2016r).

3/. Projekt conducted at the Faculty of Medicine University of Rzeszów, Poland : „**Zaburzenia parametrów równowagi oksydacyjnej u chorych w przebiegu zakażeń okołoszczękowych zębów, jako markerów zakażeń ogniskowych**“. Hlavný riešiteľ: Prof. mim. UR Bogumiła Wołoszczuk-Gębicka, **Spoluriešiteľ: Prof. mim. UR doc. Dr. hab. Jan Antoni Rutowski, Ph.D.**, Termín realizácie: 2017 – 2019. Confirmation from Medical Faculty, University of Rzeszów (06.07.2016r).

4/. Projekt conducted at the Faculty of Medicine University of Rzeszów : „**Zaburzenia równowagi oksydacyjnej, jako potencjalny marker ryzyka rozwoju miażdżycy**“. **Hlavný riešiteľ: Prof. mim. UR doc. Dr. hab. Jan Antoni Rutowski, Ph.D.**, Termín realizácie: 2016 – 2018. Confirmation from Medical Faculty University of Rzeszów, Poland.

5/. Projekt conducted at the Faculty of Medicine University of Rzeszów : „**Badania wiedzy fachowej pielęgniarek i/lub pacjentów w zakresie bezpiecznej farmakoterapii z uwzględnieniem zasad współczesnej profilaktyki, diagnostyki i terapii wybranych jednostek chorobowych**“. **Hlavný riešiteľ: Prof. mim. UR doc. Dr. hab. Jan Antoni Rutowski, Ph.D.**, Termín realizácie: 2011 – 2014. Confirmation from Medical Faculty, University of Rzeszów, Poland.

6/. Projekt conducted at the Department of Pharmacology of the Faculty of Medicine , Collegium Medicum, Jagiellonian University in Krakow, Poland : „**Angiotensin metabolites in organ bath and cell culture experiments**“. Hlavný riešiteľ: Prof. Dr. hab. Ryszard Korbut, Ph.D., **Spoluriešiteľ: Dr. Jan Antoni Rutowski, Ph.D.** Termín realizácie: 2005 – 2009. The Polish projects supported by two grants from MNiSW (Ministerstwo Nauki i Szkolnictwa Wyższego) : Grant No 2 P05F 040 29 and Grant No 2 P05F 011 30.

Results were published in :

1/. ADD 09 BUJAK-GÍZYCKA, B., MADEJ, J., WOŁKOW, P.P., OLSZANECKI, R., DRABIK, L., **RUTOWSKI, J.**, KORBUT, R. 2007. *Measurement of angiotensin*

*metabolites in organ bath and cell cultured experiments by liquid chromatography-electrospray ionisation – mass spectrometry (LC-ESI-MS)*. [online]. In: **Journal of Physiology and Pharmacology**, 2007, 58, 3, 529-540. ISSN 0867-5910. **Impact Factor = 4.466**. Stupendous na internete: [www.jpp.krakow.pl](http://www.jpp.krakow.pl)

**Confirmation:** Str.539 - Publication in Journal of Physiology and Pharmacology (2007), 58, 3, 529-540.

2/. WOŁKOW, P. P., BUJAK-GIŻYCKA, B., JAWIEŃ, J., OLSZANECKI, R., MADEJ, J., **RUTOWSKI, J.**, KORBUT, R., **2016**. *Perindoprilat Changes ANG (1-9) Production in Renal Arteries Isolated From Young Spontaneously Hypertensive Rats After ANG I Incubation*. **Physiological Research**, 2016; 65: 561-570, (online), ISSN 1802-9973; (print) ISSN 0862-8408. **Impact Factor = 1.461**.

3/. WOŁKOW, P. P., BUJAK-GIŻYCKA, B., JAWIEŃ, J., OLSZANECKI, R., MADEJ, J., **RUTOWSKI, J.**, KORBUT, R., **2016**. Exogenous Angiotensin I Metabolism in Aorta Isolated from Streptozotocin Treated Diabetic Rats. **Journal of Diabetes Research**. Volume 2016, Article ID 4846819, **Impact Factor = 2.717**.

7/. Projekt conducted at the Department of Pharmacology of the Faculty of Medicine , Collegium Medicum, Jagiellonian University in Krakow, Poland : „**Angiotensin metabolites in organ bath and cell culture experiments**“. Hlavný riešiteľ: Prof. Dr. hab. Ryszard Korbut, Ph.D., Spoluriešiteľ: Dr. Jan Antoni Rutowski, Ph.D. Termín realizácie: **2005 – 2008**. The Polish KBN Project No. 501/G/562 : „*The study of dependent or independent ACE convertase Angiotensine-I metabolic pathways in animal models and in human vessels*“.

Results were published in: AFG 32 SUSKI, M., BUJAK-GIZYCKA, B., MADEJ, J., OLSZANECKI, R., WOŁKOW, P.P., JAWIEŃ, J., **RUTOWSKI, J.**, KORBUT, R. 2008. Kaempferol, but not resveratrol inhibits angiotensin converting enzyme. EVGN Meeting Nov. 24-27. 2008. Bad Hofgastein, Austria. **Confirmation document :** Xero copy of the document participation in this KBN project.

8. Projekt conducted at the Department of Pharmacology, then from 1993 to 1998 in Department of Clinical Biochemistry of the Faculty of Medicine , Collegium Medicum, Jagiellonian University in Krakow, Poland, : „**Antiinflammatory and anti-platelet activity of nitric-oxide (NO) in donors**“. Hlavný riešiteľ: Prof. Dr. hab. med. Aldona Dembińska-Kieć, MD. Ph.D. Spoluriešiteľ: Dr. Jan Antoni Rutowski, Ph.D. Termín realizácie: 1990 – 1998.

Results were published in: Jan RUTOWSKI's Ph.D. Thesis (1991); in Agents and Action (1992) and during impacted international symposia and congresses :

- **ADC 01** PALLAPIES, D., JIRMANN, K.U., RADEMANN, J., SIMMET, Th., **RUTOWSKI, J.**, DEMBIŃSKA-KIEĆ, A., PESCAR, B.A. 1992. *Effect of prostaglandin E2 and 3-morpholinonydnonimine (SIN-1) on arachidonic acid metabolism in fMLP-stimulated*

*rat neutrophils and on thrombin-induced human platelet aggregation. Agents and Actions, 1992, 36, 77-82. ISSN: 0065-4299. 2011. Impact Factor: 1.037;*

- **AFH 25 RUTOWSKI, J.**, DEMBIŃSKA-KIEĆ A., GRYGLEWSKI, R.J. 1997. "*In vitro*" and "*ex vivo*" effects of prostaglandin E2 and NO-donor: SIN-1 on  $\beta$ -glucuronidase release from FMLP-stimulated rat peritoneal polymorphonuclear granulocytes. " 6th International Symposium Molecular and Physiological Aspects of Regulatory Processes of the Organism", Cracow Pedagogical University (WSP), June 3-5, 1997 - Materials of Polish Network of Molecular and Cellular Biology UNESCO/PAS; p.312-314.

- **AFH 26 RUTOWSKI, J.**, DEMBIŃSKA-KIEĆ A., GRYGLEWSKI, R.J. 1997. "*In vitro*" and "*ex vivo*" effects of prostaglandin E2 and NO-donors: molsidomine, SIN-1 or sodium nitroprusside on the luminol-dependent chemiluminescence in latex particles phagocytizing rat peritoneal polymorphonuclear granulocytes. " 6th International Symposium Molecular and Physiological Aspects of Regulatory Processes of the Organism", Cracow Pedagogical University (WSP), June 3-5, 1997 - Materials of Polish Network of Molecular and Cellular Biology UNESCO/PAS; p. 315-317.

**Confirmation document :** Prof. dr hab. med. Aldona Dembińska-Kieć, MD., Ph.D.,

Head of Department of Clinical Biochemistry, Jagiellonian University Medical College in Kraków, 29.03.2012 Kraków, Poland.