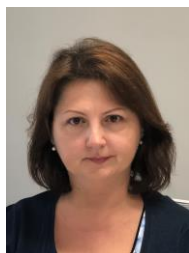


GEORGESCU CARMEN EMANUELA



Str. Louis Pasteur 3-5, Cluj-Napoca, 400349, Romania



Sexul F | Data nașterii | Naționalitatea romana

LOCUL DE MUNCA PENTRU CARE SE CANDIDEAZĂ

LOCUL DE MUNCA ACTUAL

Profesor universitar, Disciplina Endocrinologie, Sef de Disciplina
UMF Cluj-Napoca, str. V. Babes nr 8, Cluj-Napoca, www.umfcluj.ro.
Medic Sef Sectie Endocrinologie
Spitalul Clinic Judetean de Urgenta Cluj, str. L. Pasteur nr 3-5, www.scju-cluj.ro
Coordonator al Centrului de Boli endocrine rare in cadrul Retelei
Europene de Boli endocrine rare ENDO-ERN
Coordonator al Centrului de cercetari translationale in boli endocrine si
metabolice, UMF Cluj-Napoca
Presedintele Societatii Romane de Endocrinologie

ACTIVITATE DIDACTICA SI PROFESIONALA

10/2013 – prezent Profesor universitar, Disciplina Endocrinologie, Dept 5, UMF Cluj-Napoca, str Victor Babes 8, Cluj-Napoca, www.umfcluj.ro

04/2013 – prezent Conducator de Doctorat UMF Cluj-Napoca

08/2012 – Abilitare publica, Domeniul Stiinte Biomedicale – Medicina

11/2001 – Doctor in Medicina

10/2006 – 10/2013 Conferentiar universitar, Disciplina Endocrinologie, UMF Cluj

10/2003 – 10/2006 Sef lucrari, Disciplina Endocrinologie, UMF Cluj

10/1998 – 10/2003 Asistent universitar, Disciplina Endocrinologie, UMF Cluj

04/1995 – 10/1998 Preparator, Disciplina Endocrinologie, UMF Cluj

10/2016 – Medic specialist Diabet zaharat, Nutritie si Boli metabolice

07/2002 – Medic primar Endocrinologie

10/1998 – Medic specialist Endocrinologie

Activitatea consta in desfasurarea de cursuri cu studentii anului IV MG, activitate teoretica si practica cu medici rezidenti, sustinerea si coordonarea de cursuri postuniversitare, cercetare si organizare de manifestari stiintifice, activitate clinica

EXPERIENȚA PROFESIONALĂ

EDUCAȚIE ȘI FORMARE
ATESTATE,
SUPRASPECIALIZARI

2018 Atestatul in Endocrinologie Pediatria – coordonator regional
2009 Atestatul in Managementul Serviciilor de Sanatate Publica
2006 Certified Clinical Densitometrist (CCD)
2002 Supraspecializarea Sexologie Medicala
2002 Supraspecializarea in Patologia Osoasa Hormono-Metabolica
2001 Competenta in Ultrasonografie Generala
2012 - Expert evaluator South African Medica Research Council
2011 – Expert evaluator ARACIS
2006 – Expert evaluator CNCSIS, CNCS
2012 Mobilitate Universitatea Heidelberg, Fac Medicina, Dpt Endocrinologie, Germania (Prof.Dr.Dr.Christian Kasperk)
1997-1999 Deutscher Akademischer Austauschdienst (DAAD) Research Fellowship Universitatea Heidelberg, Fac Medicina, Dept Endocrinologie, Germania (Prof.Dr.Reinhard Ziegler)
1997 Bursa Tempus Freie Universitat Berlin, Fac Medicina, Dept Endocrinologie, Germania (Prof.Dr.Wolfgang Oelkers)
2014-2018 European Society of Endocrinology (ESE) Postgraduate Course in Endocrinology, Diabetes and Metabolism (Lector invitat -1 sau 2 editii/an) – Tari europene
2014 European Society of Endocrinology (ESE) Postgraduate Course in Endocrinology, Diabetes and Metabolism Cluj-Napoca (Director de curs)
2016, 2017, 2019 Scoala de Endocrinopediatrie a Grupului de lucru de Endocrinopediatrie a Soc Rom de Endocrinologie (Lector inv)
2015, 2016, 2017 Scoala de Osteoporoza a Grupului de lucru in Osteoporoza a Soc Rom de Endocrinologie (Lector inv)
2012 Real-time PCOR and Multiplex Real-time PCR Training, TATAA Biocenter, Goteborg
2011 Gene Microarray Training, IOCN (proiect POSDRU)
2009 Central-Europe Sleep Training Course, Cluj-Napoca (Lector inv)
2006 International Society Clinical Densitometry (ISCD) CCD Course, Bucharest
2005 ISCD Vertebral Fracture Assessment (VFA) Course, New Orleans, SUA etc.

PERFECTIONARE
POSTUNIVERSITARA
(SELECTIV)

COMPETENTE
PERSONALE

Limba maternă

Lb romana

Alte limbi străine cunoscute

Limba germana

Limba engleza

INTELEGERE		VORBIRE		SCRIERE
Ascultare	Citire	Participare la conversatie	Discurs oral	Sciere
C2	C2	C1	C1	C2
Diploma de absolvire a Liceului cu predare in limba germana „Johannes Honterus”				
C1	C1	C1	C1	C1
. Certificatul ALPHA de competenta lingvistica				

Competențe de comunicare

Cursurile de Pregatire Pedagogica si Educatie medicala
▪ Diploma in Pedagogie medicala/farmaceutica (ciclul de conferinte Universitatea Maastricht, Olanda)

Presedintele Societatii Romane de Endocrinologie (SRE) – 2023-2027
 Membru in Comitetul de conducere al Societatii Romane de Endocrinologie (SRE)
 Vicepresedinte al Comisiei de Endocrinologie a Ministerului Sanatatii (MS)
 Vicepresedinte/membru al Comisiei de Endocrinologie a Colegiului Medicilor din Romania (CMR)

Membru in Comisia Nationala de Medicina a CNCSIS-UEFISCDI (2006-2008)

Membru in Consiliul Facultatii de Medicina

Membru in Consiliul Departamentului 5 Specialitati medicale

Abilitati organizatorice/manageriale rezultate si demonstrate prin:

- activitatea de organizare si conducere in calitate de sef de disciplina si sef sectie
- fondator si coordonator al Laboratorului de cercetare translationala in cadrul disciplinei Endocrinologie (culturi celulare, unele tehnici de biologie moleculara – PCR, qPCR, electroforeza i gel etc., imunocitochimie)
- coordonator al centrului de tumori endocrine rare in cadrul rețelei europene ENDO-ERN
- director/coordonator al echipelor de cercetare in proiecte castigate prin competitie la nivel universitar si national
- membru al staffului de lectori ai Cursului de Training postuniversitar in Endocrinologie, Diabet si Metabolism al Societatii Europene de Endocrinologie (2014-2019) si director al cursului editia 2014
- investigator principal in peste 10 studii clinice

Editor sef Revista Romana de Endocrinologie si Metabolism

Editor asociat Acta Endocrinologica Buc

Competențe dobândite la locul de muncă

- Ultrasonografie endocrina
- Absorbtimetria duala cu raze X (DXA), VFA, tehnici aavansate de compozitie corporala
- Imunoanaliza hormonilor RIA si ELISA (tehnica, interpretare)
- Tehnici privind cultura celulare (osteoblaste, adipocite, limfocite)
- Extractia acizilor nucleici, PCR, qPCR (tehnica, interpretare)
- Imunocitochimie (tehnica, interpretare) etc.

Competențe digitale

AUTOEVALUARE				
Procesarea informației	Comunicare	Creare de conținut	Securitate	Rezolvarea de probleme
Specificați nivelul	Specificați nivelul	Specificați nivelul	Specificați nivelul	Specificați nivelul

Niveluri: Utilizator elementar - Utilizator independent - Utilizator experimentat
 Competentele digitale - Grilă de auto-evaluare

Scrieți denumirea certificatului.

- Microsoft Office
- Statistica biomedicala

Alte competențe

- Instrument muzical

Permis de conducere

B

- Citări
- *Indice HIRSCH* - 13
 - *Indice Google Scholar* - 19

Carti/Capitole de carti

1. Popa-Ilie I, **Georgescu CE**. Diagnostic tests and algorithms in endocrinology Editura UMF Iuliu Hațieganu, **2022**, pg. 1-176, ISBN 978-606-075-052-9
2. **Georgescu CE** Polycystic ovary syndrome and non-alcoholic fatty liver disease. In: Polycystic ovary syndrome: challenges issue in the modern era of individualized medicine. Diamanti-Kandarakis Evanthia (Ed.), Springer International, Springer Nature Switzerland AG, **2022**, chapter 12, pg187-216, ISBN 9780128230459, eBook ISBN 9780128230466
3. **Georgescu CE**. Polycystic ovary syndrome. In: Practical Clinical Endocrinology. Igaz Peter (Ed.), Springer International, Springer Nature Switzerland AG, **2021**, pg 391-403, ISBN 978-030-62010-3.
4. **Georgescu C**, Vulpoi C, Ungureanu MC. Autoimunitatea in endocrinologie. Ed. Gr.T.Popa Iasi, **2017**, pg1-167, ISBN 978-606-544-467-6.
5. **Georgescu CE**. Orbitopatie tiroidiana – update. Editura Gr.T.Popa UMF Iasi, **2017**, pg 63-71, ISBN 978-606-544-467-6.
6. Valea A, Carsote M, **Georgescu CE**. Tiroidita cronica autoimuna: conexiuni patogenetice si implicatii practice privind cancerul tiroidian diferentiat. Editura Gr.T.Popa UMF Iasi, **2017**, pg 148-157, ISBN 978-606-544-467-6.
7. **Georgescu CE**. Insulinorezistenta si receptorul insulinei: aspecte practice pentru endocrinologi. Editura Gr.T.Popa UMF Iasi, **2016**, pg 69-76, ISBN 978-606-544-403-4.
8. Valea A, Carsote M, **Georgescu CE**. Implicatiile selenoproteinelor in autoimunitatea si oncogeneza tiroidiana. Editura Gr.T.Popa UMF Iasi **2016** pg. 86-93 ISBN 978-606-544-403-4
9. **Georgescu CE** (coord). Endocrinologia in balneo-fiziokinetoterapie si recuperare medicala. Editura Medicala Universitara Iuliu Hatieganu, **2016**, pg 1-70, ISBN 978-973-693-676-0
10. Valea A, **Georgescu CE**. A perspective on the current medical approach of advanced medullary thyroid carcinoma. In: Ahmadzadehfar H. Thyroid cancer – diagnosis and therapy. InTech Open, **2016**, pg 193-214, ISBN 978-953-51-2588-4.
11. **Georgescu CE**. Neoplasmale (tumorile) neuroendocrine gastro-entero-pancreatice. Cadru nosologic. In M.Grigorescu, A. Irimie, M.Beuran. Tratatul de Oncologie Digestiva vol III Editura Academiei Romane Bucuresti, **2015**, pg 609-612, ISBN 978-973-27-2567-2
12. Fetica B, **Georgescu CE**. Morfopatologia. In M.Grigorescu, A. Irimie, M.Beuran. Tratatul de Oncologie Digestiva vol III Editura Academiei Romane Bucuresti, **2015**, pg 635-648, ISBN 978-973-27-2567-2
13. Ilie IR, **Georgescu CE**. Tumorile neuroendocrine pancreatice functionale - Tabloul clinic. Evolutia naturala. In: Tratat de Oncologie digestiva, vol III, Grigorescu M, Irimie A, Beuran M, Editura Academiei Romane, **2015**, pg 700-721, ISBN 978-973-27-2567-2
14. **Georgescu CE**. Tratatamentul medical in tumorile neuroendocrine gastro-entero-pancreatice. In M.Grigorescu, A. Irimie, M.Beuran. Tratatul de Oncologie Digestiva vol III Editura Academiei Romane Bucuresti, **2015**, pg 744-765, ISBN 978-973-27-2567-2

15. **Georgescu CE.** Îndreptar practic de endocrinologie. Editura Medicala Universitara Iuliu Hatieganu, **2013**, pg 1-185, ISBN 978-973-693-521-3
16. Duncea I, **Georgescu CE** (eds.). Sindromul ovarelor polichistice – aspecte diagnostice, terapeutice si complicatii. Risoprint, **2013**, pg 1-93, ISBN 978-973-53-0960-2
17. Ilie I, Ilie R, Mocan L, **Georgescu (Pepene) C**, Duncea I, Mocan T, Ghibu S, Iancu C. The polycystic ovary syndrome status - a risk factor for future cardiovascular disease. In: Mehnaz Atiq (Ed.) Recent Advances in Cardiovascular Risk Factors. IntechOpen, **2012**, pg 151-198, ISBN 978-953-510-321-0
18. **Georgescu CE.** Principles of Clinical Endocrinology – A Manual for English Students. Editura Medicala Universitara **2012**, pg 1-27, ISBN 978-973-693-516-9
19. **Georgescu CE.** New insights into the diagnosis and management of pregnancy-related diabetes insipidus. In Kyuzi Kamoi (Ed.) Diabetes insipidus. IntechOpen **2011**, pg 79-100, ISBN 978-953-307-367-5
20. **Georgescu CE.** Sindromul de apnee in somn si bolile endocrine. In D. Todea (ed.) Apneea in somn si comorbiditatile sale. Editura Medicala Universitara Cluj-Napoca **2011**, pg 73-87, ISBN 978-973-693-464-3
21. **Georgescu CE.** Notiuni generale. Hipotalamusul endocrin. Glanda hipofiza. In I. Duncea (ed.) Endocrinologie. Editura Medicala Universitara Cluj-Napoca, **2011**, pg 1-70, ISBN 978-973-693-430-8
22. **Georgescu CE.** Osteoporoza. In I. Duncea (ed.) Endocrinologie. Editura Medicala Universitara Cluj-Napoca, **2011**, pg 1-70 si 340-350, ISBN 978-973-693-430-8
23. Iancu C, Ilie I, Mocan L, **Georgescu C**, Ilie R, Duncea I, Mocan T, Iancu D, Zaharie F. Human Cord Blood-Derived Stem Cells In Transplantation And Regenerative Medicine. In: Ali Gholamrezanezhad (Ed.) Stem Cells in Clinic and Research. IntechOpen **2011**, pg 151-198, ISBN 978-953-307-797-0
24. Duncea I, **Georgescu C.** Endocrinopatiile la vârstnic. Editura Medicala Universitara, Cluj-Napoca **2010**, pg 1-236, ISBN 978-973-693-356-1
25. **Georgescu C.** Endocrinologia clinică în Medicina dentară. Editura Medicala Universitara, Cluj-Napoca **2009**, pg 1-214, ISBN 978-973-693-340-0
26. Duncea I, **Georgescu CE**, Paul A, Hazi G, Drăgoteiu Gh, Gozariu L. The pattern of magnesium and calcium metabolism in spasmophilia, hyperthyroidism and osteoporosis. In: Porr PJ, Nechifor M, Durlach J (Eds.): Advances in Magnesium Research, New Data JOHN LIBBEY EUROTTEXT Montrouge France, **2006**, pg 237-241, ISBN 274200606-0
27. **Georgescu CE**, Duncea I, Orbai P, Hazi G. Drăgoteiu Gh, Gozariu L. The relationship of bone mineral density to magnesium intake and metabolism in postmenopausal women. In: Porr PJ, Nechifor M, Durlach J (Eds.): Advances in Magnesium Research, New Data JOHN LIBBEY EUROTTEXT Montrouge France, **2006**, pg 241-244, ISBN 274200606-0
28. **Georgescu C.** Noțiuni generale. Hipotalamusul endocrin. Glanda hipofiză. În Duncea I, Ghervan C, Georgescu C, Valea A, Grigorescu-Sido A, Lencu C. Endocrinologie. Editura Medicala Universitara, Cluj-Napoca **2006**, pg 11-64, ISBN 978-973-693-164-1
29. **Georgescu C.** Osteoporoza. În Duncea I, Ghervan C, Georgescu C, Valea A, Grigorescu-Sido A, Lencu C. Endocrinologie. Editura Medicala Universitara, Cluj-Napoca **2006**, pg 325-336, ISBN 978-973-693-164-1
30. **Georgescu CE.** Osteoporoza. Risoprint, **2005**, pg 1-450, ISBN 973-751-135-2
31. **Georgescu C.** Infertilitatea si disfunctia erectila in bolile endocrine. In: Coman Ioan (ed.). Andrologie clinica. Editura Medicala Universitara, **2004**, pg 243-309, ISBN 973-693-046-

32. **Pepene (Georgescu) C.** Explorarea paraclinică a ovarului. În Duncea I (Ed.) Explorări paraclinice în bolile endocrine. Editura Medicala Universitara, Cluj-Napoca **2000**, pg 103-130, ISBN 973-8019-30-3
33. **Pepene (Georgescu) C.** Explorări paraclinice în osteoporoză. În Duncea I (Ed.) Explorări paraclinice în bolile endocrine. Editura Medicala Universitara, Cluj-Napoca **2000**, pg 155-162, ISBN 973-8019-30-3

Granturi/Proiecte de cercetare castigate prin competitie

1. Grant national Decoding the immuno-inflammatory axis in rare non-medullary thyroid cancer as an innovative approach for novel combinatory therapeutic approaches. PNRR, Contract de finanțare nr. 760067 / 23.05.2023 2023-2026 MEMBRU IN GRANT
2. Proiect European ACTIUNEA COST CA20122 Harmonizing clinical care and research on adrenal tumors in European countries (HARMONIZATION) 2021-2025 MEMBRU IN GRANT
3. Proiect European EUROPEAN REFERENCE NETWORK FOR RARE ENDOCRINE DISEASES. Reteaua Europeana de Boli endocrine rare ENDO-ERN 2022 - 2027
4. Grant national Dezvoltarea unui sistem inteligent combinat imagistic-citologic-molecular pentru stratificarea riscului, ghidarea diagnosticului si a managementului in cancerul tiroidian TIRCITOGEN (PN-III-P2-2.1-PED-20) MEMBRU IN GRANT
5. Grant intern cadre didactice Impactul polimorfismelor genelor selenoproteinelor de tip glutathionperoxidaza (GPX1) si selenoproteina P plasma1 (SEPP1) in susceptibilitatea la cancerul tiroidian diferentiat si tiroidita cronica autoimuna 2016-2018. MENTOR
6. Grant intern cadre didactice - UMF Iuliu-Hatieganu NR. 1494 / 2 / 28.01.2014- "MicroRNAs dysregulation in polycystic ovary syndrome (PCOS) - identification of novel biomarkers of PCOS-related cardio-metabolic risk 2014-2016 MENTOR
7. Grant intern studenti Rolul visfatinei in sinteza de osteocalcina in adipocite: studiu experimental pe culturi de celule. 2016-2018 MENTOR
8. Proiect castigat prin competitie nationala Nr 24084/31.10.2016 Ferring Pharmaceuticals Testarea genetica a copiilor cu statura mica pentru diagnosticul precoce in deficitul de hormon de crestere. 2016-2017 DIRECTOR DE PROIECT
9. Grant ROMANIA-AUSTRIA Osteocalcina decarboxilata in boala cronica de rinichi si diabetul tip 2: rolul adiponektinei si al unor markeri ai disfunctiei endoteliale (DORADE) 2014-2015 MEMBRU IN GRANT
10. Grant european FP7 Nr. 279171 Genetic and environmental factors of insulin resistance syndrome and its long-term complications in immigrant Mediterranean populations. MEDIGENE. 2012-2016 MEMBRU IN GRANT
11. Proiect European ACTIUNEA COST BM1105 Insuficiența GnRH: Elucidarea controlului neuro-endocrin al reproducerii umane. Director proiect: Prof. Dr. Andrew Dwyer 2012-2016 MEMBRU IN PROIECT
12. Grant national Rolul și Reglarea Endocrină a Hormonului Osteocalcină în Adipocite și Relevanța Statusului Osteocalcinei în Insulinorezistență. (PN-II-ID-PCE-2011-3-0879/PROGRAM IDEI, PROIECTE DE CERCETARE EXPLORATORIE) 2011-2016 DIRECTOR DE GRANT
14. Grant national Cercetari clinice si experimentale privind poluantii organici persistenti cu functie de disruptori endocrini in medii biologice umane si animale si implicarea in determinismul insulinorezistentei/sindromului metabolic METRISKED. (PNCDI-II-41_068/PROGRAM PARTENERIATE 2007-2010) DIRECTOR DE GRANT

15. Grant national Rolul sistemului osteoprotegerină/ligandul receptorului activator al NF-kappa B în densitatea osoasă și compoziția corporală la copil și adult, și relația cu hormoni sistemici și markeri endoteliali (CNCSIS A 552/PROGRAM CNCSIS) 2007-2008 DIRECTOR DE GRANT
16. Grant national mplicarea genei factorului de creștere insulin-like (IGF)-I în determinismul capitalului osos maxim, al compoziției corporale și în riscul unor forme de osteoporoză endocrină 2004-2006 (CNCSIS A 52/PROGRAM CNCSIS).DIRECTOR DE GRANT
17. Grant national Studii interdisciplinare privind influența factorilor de risc asupra osteoporozei. Realizarea hărților de risc. INFOSTEO CEEEX 4951/ PROGRAM CEEEX MODUL I 2006-2008 MEMBRU IN GRANT
18. Grant national Ameliorarea calității vieții la pacienții cu disfuncție erectilă și optimizarea tratamentului medicamentos. OPTIMSEX CEEEX 7158 PROGRAM CEEEX MODUL I 2006-2008 MEMBRU IN GRANT
19. Grant national Cercetari privind optimizarea alimentatiei si a tehnicii de crestere la vipera in corelatie cu influenta acestor factori asupra complexului de polipeptide farmacodinamic active din structura veninului. CNCSIS A 749/PROGRAM CNCSIS 2001-2004 MEMBRU IN GRANT
20. Grant national Centru Național de Cercetări Biologice și Clinice în Osteoporoză. BCUM CNCSIS E/PROGRAM CNCSIS 1996-2002. MEMBRU IN GRANT

Articole originale in reviste cotate ISI (SELECTIV)

1. Pînzariu O, **Georgescu CE**. Metabolomics in acromegaly: a systematic review. J Investig Med. **2023**;71(6):634-645.
2. Popa Ilie IR, **Georgescu CE**. Immunotherapy in Gastroenteropancreatic Neuroendocrine Neoplasia. Neuroendocrinology. **2023**;113(2):262-278.
3. Lozovanu V, **Georgescu CE**, Florescu LM, Georgiu C, Silaghi H, Fratea A, Silaghi CA. Xanthogranuloma of the Sellar Region: A Comprehensive Review of Neuroimaging in a Rare Inflammatory Entity. J Pers Med. **2022**;12(6):943.
4. Silaghi H, Lozovanu V, **Georgescu CE**, Pop C, Nasui BA, Cătoi AF, Silaghi CA. State of the Art in the Current Management and Future Directions of Targeted Therapy for Differentiated Thyroid Cancer. Int J Mol Sci. **2022**;23(7):3470.
5. Georgescu B, Boaru AM, Muntean L, Sima N, Struți DI, Păpuc TA, **Georgescu C**. Modulating the Fatty Acid Profiles of *Hermetia illucens* Larvae Fats by Dietary Enrichment with Different Oilseeds: A Sustainable Way for Future Use in Feed and Food. Insects. **2022**;13(9):801.
6. Pivonello R, Zacharieva S, Elenkova A, Tóth M, Shimon I, Stigliano A, Badiu C, Brue T, **Georgescu CE**, Tsagarakis S, Cohen F, Fleseriu M. Levoketoconazole in the treatment of patients with endogenous Cushing's syndrome: a double-blind, placebo-controlled, randomized withdrawal study (LOGICS). Pituitary. **2022**;25(6):911-926.
7. Silaghi CA, Lozovanu V, **Georgescu CE**, Georgescu RD, Susman S, Năsui BA, Dobrea A, Silaghi H. Thyroseq v3, Afirma GSC, and microRNA Panels Versus Previous Molecular Tests in the Preoperative Diagnosis of Indeterminate Thyroid Nodules: A Systematic Review and Meta-Analysis. Front Endocrinol (Lausanne). **2021**;12:649522.
8. Ilcus C, Silaghi H, **Georgescu CE**, Georgiu C, Ciurea AI, Nicoara SD, Silaghi CA. Molecular Pathology and Targeted Therapies for Personalized Management of Central Nervous System Germinoma. J Pers Med. **2021**;11(7):661.
9. Popa Ilie IR, Herdean AM, Herdean AI, **Georgescu CE**. Spontaneous remission of Cushing's disease: A systematic review. Ann Endocrinol (Paris). **2021**;82(6):613-621

10. Silaghi CA, Lozovanu V, Silaghi H, Georgescu RD, Pop C, Dobrean A, **Georgescu CE**. The Prognostic Value of MicroRNAs in Thyroid Cancers-A Systematic Review and Meta-Analysis. *Cancers (Basel)*. **2020**;12(9):2608.
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