

Prof. Dr. ABDURRAHMAN COSKUN

Kişisel Bilgiler

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Publons / Web Of Science ResearcherID: C-3906-2015

ScopusID: 8909290600

Yoksis Araştırmacı ID: 139593

Eğitim Bilgileri

Lisans, İstanbul Üniversitesi, Açık Ve Uzaktan Eğitim Fakültesi, Felsefe, Türkiye 2016 - 2022

Tıpta Uzmanlık, Erciyes Üniversitesi, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, Türkiye 1996 - 2000

Lisans, Erciyes Üniversitesi, Tıp Fakültesi, Türkiye 1988 - 1994

Araştırma Alanları

Biyokimya

Akademik Unvanlar / Görevler

Prof. Dr., Acibadem Mehmet Ali Aydınlar Üniversitesi, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, 2014 - Devam Ediyor

Doç. Dr., Acibadem Mehmet Ali Aydınlar Üniversitesi, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, 2008 - 2014

Verdiği Dersler

Temel Biyokimya, Yüksek Lisans, 2023 - 2024, 2022 - 2023, 2020 - 2021

Biyokimya II, Doktora, 2023 - 2024, 2022 - 2023, 2021 - 2022

Medical Biochemistry, Lisans, 2023 - 2024, 2022 - 2023, 2020 - 2021

Tıbbi Laboratuvar Organizasyonu, Ön Lisans, 2023 - 2024, 2022 - 2023

Medical Biochemistry, Lisans, 2023 - 2024, 2022 - 2023, 2020 - 2021

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Biyokimya I, Doktora, 2023 - 2024, 2022 - 2023, 2020 - 2021

Medical Biochemistry, Lisans, 2023 - 2024, 2022 - 2023, 2020 - 2021

Medical Biochemistry, Lisans, 2023 - 2024, 2022 - 2023

Yönetilen Tezler

Coskun A., Gestasyonel diabetes mellituslu gebelerde 4-22 karbonlu yağ asitleri ve 8-hidroksi-2'-deoksiguanozin

düzeylerinin değerlendirilmesi, Yüksek Lisans, C.ARSLAN(Öğrenci), 2019

Coskun A., Akciğer kanserinin farklı tip ve evrelerinde gebelikle ilişkili plazma protein-A (PAPP-A)'nın potansiyel bir biyobelirteç olarak kullanılabilirliğinin değerlendirilmesi, Yüksek Lisans, İ.NUR(Öğrenci), 2019

Coskun A., Farklı pasajlardan alınan mezenkimal kök hücre ve fibroblast hücre kültürlerinde IGF-I, IGFBP-3, IGFBP-4 ve PAPP-A düzeylerindeki değişimin araştırılması, Yüksek Lisans, B.ÇETİNER(Öğrenci), 2015

Coskun A., Çinko ile Modifiye edilen University of Wisconsin Solüsyonunun İn Vitro Karaciğer ve Böbrek Yaşam Süresine Etkisi, Tıpta Uzmanlık, İ.ETHEM(Öğrenci), 2007

Coskun A., Modifiye University of Wisconsin Solüsyonunun İn Vitro Karaciğer Yaşam Süresine Etkisi, Tıpta Uzmanlık, E.Çelik(Öğrenci), 2006

Jüri Üyelikleri

Doçentlik Sınavı, Doçentlik Sınavı, Acıbadem Mehmet Ali Aydınlar Üniversitesi, Aralık, 2023

Doçentlik Sınavı, Doçentlik Sınavı, Üniversitelerarası kurul başkanlığı, Aralık, 2022

Doçentlik Sınavı, Doçentlik Sınavı, Üniversitelerarası kurul , Haziran, 2022

Doçentlik Sınavı, Doçentlik Sınavı, Üniversitelerarası kurul, Ocak, 2022

Doçentlik Sınavı, Doçentlik Sınavı, Üniversitelerarası kurul, Mart, 2020

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayımlanan Makaleler

- I. **A New Concept for Reference Change Values-Regression to the Population Mean.**
Jones G. R. D., Aarsand A. K., Carobene A., Coskun A., Fernandez-Calle P., Bartlett B., Diaz-Garzon J., Sandberg S.
Clinical chemistry, 2024 (SCI-Expanded)
- II. **Prediction interval: A powerful statistical tool for monitoring patients and analytical systems**
Coskun A.
BIOCHEMIA MEDICA, cilt.34, sa.2, ss.1-11, 2024 (SCI-Expanded)
- III. **Analytical performance specifications based on biological variation data – considerations, strengths and limitations**
Coskun A.
CLINICAL CHEMISTRY AND LABORATORY MEDICINE, cilt.62, sa.3, ss.1-7, 2024 (SCI-Expanded)
- IV. **The impact of physiological variations on personalized reference intervals and decision limits: an in-depth analysis**
Coskun A., Lippi G.
CLINICAL CHEMISTRY AND LABORATORY MEDICINE, cilt.62, sa.-, ss.1-12, 2024 (SCI-Expanded)
- V. **The European Biological Variation Study (EuBIVAS): Biological variation data for testosterone, follicle stimulating hormone, prolactin, luteinizing hormone and dehydroepiandrosterone sulfate in men.**
Itkonen O., Jonker N., Aarsand A. K., Sandberg S., Diaz-Garzon J., Fernandez-Calle P., Coskun A., Bartlett W. A., Locatelli M., Carobene A.
Clinica chimica acta; international journal of clinical chemistry, ss.117806, 2024 (SCI-Expanded)
- VI. **Bias in Laboratory Medicine: The Dark Side of the Moon.**
Coskun A.
Annals of laboratory medicine, cilt.44, sa.1, ss.6-20, 2024 (SCI-Expanded)
- VII. **Biological variation of inflammatory and iron metabolism markers in high-endurance recreational athletes; are these markers useful for athlete monitoring?**
Coskun A.
CLINICAL CHEMISTRY AND LABORATORY MEDICINE, cilt.62, sa.2, ss.1-9, 2023 (SCI-Expanded)
- VIII. **Biological variation estimates of Alzheimer's disease plasma biomarkers in healthy individuals.**
Brum W. S., Ashton N. J., Simrén J., di Molfetta G., Karikari T. K., Benedet A. L., Zimmer E. R., Lantero-Rodriguez J.,

Montoliu-Gaya L., Jeromin A., et al.

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- IX. **Sex-related differences in within-subject biological variation estimates for 22 essential and non-essential amino acids.**
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- X. **Biological variation estimates for serum neurofilament light chain in healthy subjects.**
Carobene A., Maiese K., Abou-Diwan C., Locatelli M., Serteser M., Coskun A., Unsal I.
Clinica chimica acta; international journal of clinical chemistry, cilt.551, sa.2023, ss.117608, 2023 (SCI-Expanded)
- XI. **Personalized and Population-Based Reference Intervals for 48 Common Clinical Chemistry and Hematology Measurands: A Comparative Study.**
Coskun A., Sandberg S., Unsal I., Cavusoglu C., Serteser M., Kilercik M., Aarsand A. K.
Clinical chemistry, cilt.69, sa.8, ss.1009-1030, 2023 (SCI-Expanded)
- XII. **Personalized laboratory medicine in the digital health era: recent developments and future challenges**
Coskun A., Lippi G.
CLINICAL CHEMISTRY AND LABORATORY MEDICINE, cilt.62, sa.3, ss.1-8, 2023 (SCI-Expanded)
- XIII. **Physiological Rhythms and Biological Variation of Biomolecules: The Road to Personalized Laboratory Medicine**
Coskun A., Zarepour A., Zarrabi A.
INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, cilt.24, ss.6275-6298, 2023 (SCI-Expanded)
- XIV. **Long-Term Within- and Between-Subject Biological Variation Data of Hematological Parameters in Recreational Endurance Athletes.**
Diaz-Garzon J., Fernandez-Calle P., Aarsand A. K., Sandberg S., Coskun A., Equey T., Aikin R., Soto A. B.
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- XV. **Performance specifications for sodium should not be based on biological variation**
Oosterhuis W. P., Coskun A., Sandberg S., Theodorsson E.
CLINICA CHIMICA ACTA, cilt.540, sa.2, ss.117221, 2023 (SCI-Expanded)
- XVI. **Biological variation: recent development and future challenges.**
Sandberg S., Carobene A., Bartlett B., Coskun A., Fernandez-Calle P., Jonker N., Díaz-Garzón J., Aarsand A. K.
Clinical chemistry and laboratory medicine, 2022 (SCI-Expanded)
- XVII. **Biological variation of serum iron from the European biological variation study (EuBIVAS).**
Carobene A., Aarsand A. K., Coşkun A., Díaz-Garzón J., Locatelli M., Fernandez-Calle P., Sandberg S., Ceriotti F.
Clinical chemistry and laboratory medicine, 2022 (SCI-Expanded)
- XVIII. **Bias, the unfinished symphony**
Coskun A.
BIOCHEMIA MEDICA, cilt.32, sa.3, ss.1-3, 2022 (SCI-Expanded)
- XIX. **Melatonin in preservation solutions prevents ischemic injury in rat kidneys.**
Coskun A., Arbak S., Serteser M., Özpınar A.
PLOS ONE, cilt.17, sa.8, ss.1-19, 2022 (SCI-Expanded)
- XX. **Melatonin in preservation solutions prevents ischemic injury in rat kidneys**
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- XXI. **Measurement uncertainty for practical use.**
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- XXII. **Wrong Sigma metric causes chaos**
Coskun A.
Journal of Laboratory Medicine, cilt.46, sa.2, ss.143-145, 2022 (SCI-Expanded)

- XXIII. **The European Biological Variation Study (EuBIVAS): a summary report.**
Carobene A, Aarsand A. K, Bartlett W. A, Coskun A, Diaz-Garzon J, Fernandez-Calle P, Guerra E, Jonker N, Locatelli M, Plebani M, et al.
Clinical chemistry and laboratory medicine, cilt.60, ss.505-517, 2022 (SCI-Expanded)
- XXIV. **Biological variation estimates of thyroid related measurands - meta-analysis of BIVAC compliant studies.**
Fernández-Calle P, Díaz-Garzón J, Bartlett W, Sandberg S, Braga F, Beatriz B, Carobene A, Coskun A, Gonzalez-Lao E, Marques F, et al.
Clinical chemistry and laboratory medicine, cilt.60, ss.483-493, 2022 (SCI-Expanded)
- XXV. **Critical appraisal and meta-analysis of biological variation estimates for kidney related analytes.**
Jonker N, Aslan B, Boned B, Marqués-García F, Ricós C, Alvarez V, Bartlett W, Braga F, Carobene A, Coskun A, et al.
Clinical chemistry and laboratory medicine, cilt.60, ss.469-478, 2022 (SCI-Expanded)
- XXVI. **Within- and between-subject biological variation data for tumor markers based on the European Biological Variation Study.**
Coşkun A, Aarsand A. K, Sandberg S, Guerra E, Locatelli M, Díaz-Garzón J, Fernandez-Calle P, Ceriotti F, Jonker N, Bartlett W. A, et al.
Clinical chemistry and laboratory medicine, cilt.60, ss.543-552, 2022 (SCI-Expanded)
- XXVII. **Long-term within- and between-subject biological variation of 29 routine laboratory measurands in athletes.**
Diaz-Garzon J, Fernandez-Calle P, Aarsand A. K, Sandberg S, Coskun A, Carobene A, Jonker N, Itkonen O, Bartlett W. A, Buno A.
Clinical chemistry and laboratory medicine, cilt.60, ss.618-628, 2022 (SCI-Expanded)
- XXVIII. **Personalized reference intervals - statistical approaches and considerations**
COSKUN A, Sandberg S, Unsal I, Yavuz F. G, Cavusoglu C, SERTESER M, KILERCIK M, Aarsand A. K.
CLINICAL CHEMISTRY AND LABORATORY MEDICINE, cilt.60, sa.4, ss.629-635, 2022 (SCI-Expanded)
- XXIX. **European Biological Variation Study (EuBIVAS): within- and between-subject biological variation estimates for serum thyroid biomarkers based on weekly samplings from 91 healthy participants.**
Bottani M, Aarsand A. K, Banfi G, Locatelli M, Coşkun A, Díaz-Garzón J, Fernandez-Calle P, Sandberg S, Ceriotti F, Carobene A.
Clinical chemistry and laboratory medicine, cilt.60, ss.523-532, 2022 (SCI-Expanded)
- XXX. **Critical review and meta-analysis of biological variation estimates for tumor markers**
Marques-Garcia F, Boned B, Gonzalez-Lao E, Braga F, Carobene A, COSKUN A, Diaz-Garzon J, Fernandez-Calle P, Carmen Perich M, Simon M, et al.
CLINICAL CHEMISTRY AND LABORATORY MEDICINE, cilt.60, sa.4, ss.494-504, 2022 (SCI-Expanded)
- XXXI. **Within- and between-subject biological variation data for serum zinc, copper and selenium obtained from 68 apparently healthy Turkish subjects**
Coşkun A, Carobene A, Aarsand A. K, Aksungar F, Serteser M, Sandberg S, Díaz-Garzón J, Fernandez-Calle P, Karpuzoğlu F. H, Coskun C, et al.
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- XXXII. **Systematic review and meta-analysis of within-subject and between-subject biological variation estimates of serum Zinc, Copper and Selenium.**
Coşkun A, Aarsand A. K, Braga F, Carobene A, Díaz-Garzón J, Fernandez-Calle P, Jonker N, Lao E. G, Marques-Garcia F, Sandberg S.
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- XXXIII. **Biological variation of serum insulin: updated estimates from the European Biological Variation Study (EuBIVAS) and meta-analysis.**
Carobene A, Lao E. G, Simon M, Locatelli M, Coşkun A, Díaz-Garzón J, Fernandez-Calle P, Sandberg S, Aarsand A. K.
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- XXXIV. **Personalized reference intervals: Using estimates of within-subject or within-person biological**

variation requires different statistical approaches.

Coskun A., Sandberg S., Unsal I., Cavusoglu C., Serteser M., Kilercik M., Aarsand A. K.

Clinica chimica acta; international journal of clinical chemistry, cilt.524, ss.201-202, 2022 (SCI-Expanded)

XXXV. **Personalized reference intervals: from theory to practice**

COSKUN A., Sandberg S., Unsal I., SERTESER M., Aarsand A. K.

CRITICAL REVIEWS IN CLINICAL LABORATORY SCIENCES, cilt.59, sa.7, ss.501-516, 2022 (SCI-Expanded)

XXXVI. **The European Biological Variation Study (EuBIVAS): Biological Variation Data for Coagulation Markers Estimated by a Bayesian Model.**

Aarsand A. K., Kristoffersen A. H., Sandberg S., Støve B., Coşkun A., Fernandez-Calle P., Díaz-Garzón J., Guerra E., Ceriotti F., Jonker N., et al.

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XXXVII. **IGFBP-4: A promising biomarker for lung cancer.**

Nur S. I., Ozturk A., Kavas M., Bulut I., Alparslan S., Aydogan E. S., Atinkaya B. C., Kolay M., Coskun A.

Journal of medical biochemistry, cilt.40, ss.237-244, 2021 (SCI-Expanded)

XXXVIII. **False negative results and tolerance limits of SARS-CoV-2 laboratory tests.**

Çubukçu H. C., Coşkun A.

Pathogens and global health, cilt.115, ss.137-138, 2021 (SCI-Expanded)

XXXIX. **Truncation limits of patient-based real-time quality control: a new model derived from between-subject biological variations**

Coşkun A., Çavuşoğlu C., Serteser M., Serdar M. A., Kilercik M., Aksungar F., Ünsal İ.

CLINICAL CHEMISTRY AND LABORATORY MEDICINE, cilt.59, sa.4, 2021 (SCI-Expanded)

XL. **Utilization of biological variation data in the interpretation of laboratory test results - survey about clinicians' opinion and knowledge**

Emre H. O., Karpuzoglu F. H., Coskun C., Sezer E. D., Ozturk O. G., Ucar F., Cubukcu H. C., Arslan F. D., Deniz L., Senes M., et al.

BIOCHEMIA MEDICA, cilt.31, sa.1, 2021 (SCI-Expanded)

XLI. **Personalized Reference Intervals in Laboratory Medicine: A New Model Based on Within-Subject Biological Variation.**

Coşkun A., Sandberg S., Unsal I., Cavusoglu C., Serteser M., Kilercik M., Aarsand A.

Clinical chemistry, cilt.67, ss.374-384, 2021 (SCI-Expanded)

XLII. **Biological Variation of Cardiac Troponins in Health and Disease: A Systematic Review and Meta-analysis.**

Diaz-Garzon J., Fernandez-Calle P., Sandberg S., Özcürümez M., Bartlett W., Coskun A., Carobene A., Perich C., Simon M., Marques F., et al.

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XLIII. **Biological variation of morning serum cortisol: updated estimates from the European Biological Variation Study (EuBIVAS) and meta-analysis.**

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Clinica chimica acta; international journal of clinical chemistry, cilt.509, ss.268-272, 2020 (SCI-Expanded)

XLIV. **The European Biological Variation Study (EuBIVAS): weekly biological variation of cardiac troponin I estimated by the use of two different high-sensitivity cardiac troponin I assays.**

Ceriotti F., Díaz-Garzón M., Fernández-Calle P., Maregnani A., Aarsand A., Coskun A., Jonker N., Sandberg S., Carobene A., European F.

Clinical chemistry and laboratory medicine, cilt.58, ss.1741-1747, 2020 (SCI-Expanded)

XLV. **European Biological Variation Study (EuBIVAS): within- and between-subject biological variation estimates of β -isomerized C-terminal telopeptide of type I collagen (β -CTX), N-terminal propeptide of type I collagen (PINP), osteocalcin, intact fibroblast growth factor 23 and uncarboxylated-unphosphorylated matrix-Gla protein-a cooperation between the EFLM Working Group on Biological Variation and the International Osteoporosis Foundation-International Federation of Clinical Chemistry Committee on Bone Metabolism.**

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- XLVI. **European Biological Variation Study (EuBIVAS): within- and between-subject biological variation estimates for serum bioactive parathyroid hormone based on weekly samplings from 91 healthy participants.**
Bottani M, Banfi G, Guerra E, Locatelli M, Aarsand A, Coşkun A, Díaz-Garzón J, Fernandez-Calle P, Sandberg S, Ceriotti F, et al.
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- XLVII. **Analytical Performance Specifications for Lipoprotein(a), Apolipoprotein B-100, and Apolipoprotein A-I Using the Biological Variation Model in the EuBIVAS Population.**
Clouet-Foraison N, Marcovina S, Guerra E, Aarsand A, Coşkun A, Díaz-Garzón J, Fernandez-Calle P, Sandberg S, Ceriotti F, Carobene A.
Clinical chemistry, cilt.66, ss.727-736, 2020 (SCI-Expanded)
- XLVIII. **Statistical distributions commonly used in measurement uncertainty in laboratory medicine.**
Coskun A, Oosterhuis W.
Biochemia medica, cilt.30, ss.10101, 2020 (SCI-Expanded)
- XLIX. **Six Sigma revisited: We need evidence to include a 1.5 SD shift in the extraanalytical phase of the total testing process.**
Coskun A, Ialongo C.
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- L. **Systematic review and meta-analysis of within-subject and between-subject biological variation estimates of 20 haematological parameters**
COSKUN A, Braga F, Carobene A, Tejedor Ganduxe X, Aarsand A. K, Fernandez-Calle P, Diaz-Garzon Marco J, Bartlett W., Jonker N., Aslan B., et al.
CLINICAL CHEMISTRY AND LABORATORY MEDICINE, cilt.58, sa.1, ss.25-32, 2020 (SCI-Expanded)
- LI. **An Assessment of HbA1c in Diabetes Mellitus and Pre-diabetes Diagnosis: a Multi-centered Data Mining Study.**
Serdar M. A., Serteser M., Uçal Y., Karpuzoglu H., Aksungar F., Coşkun A., Kilercik M., Ünsal İ., Özpınar A.
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- LII. **The short story of the long-term Sigma metric: shift cannot be treated as a linear parameter**
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- LIII. **European Biological Variation Study (EuBIVAS): Within- and Between-Subject Biological Variation Data for 15 Frequently Measured Proteins**
Carobene A, Aarsand A. K, Guerra E, Bartlett W. A., Coskun A, Diaz-Garzon J, Fernandez-Calle P, Jonker N, Locatelli M, Sandberg S, et al.
CLINICAL CHEMISTRY, cilt.65, sa.8, ss.1031-1041, 2019 (SCI-Expanded)
- LIV. **Biological variation data for lipid cardiovascular risk assessment biomarkers. A systematic review applying the biological variation data critical appraisal checklist (BIVAC)**
Diaz-Garzon J, Fernandez Calle P, Minchinela J, Aarsand A. K, Bartlett W. A., Aslan B., Boned B., Braga F., Carobene A., COŞKUN A., et al.
CLINICA CHIMICA ACTA, cilt.495, ss.467-475, 2019 (SCI-Expanded)
- LV. **Quality will determine the future of mass spectrometry imaging in clinical laboratories: the need for standardization**
UÇAL Y., COŞKUN A., ÖZPINAR A.
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- LVI. **Measurement uncertainty in laboratory medicine: the bridge between medical and industrial metrology**

- COSKUN A, Inal B. B., Serdar M. A.
TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGISI, cilt.44, sa.2, ss.121-125, 2019 (SCI-Expanded)
- LVII. **Sigma metric revisited: True known mistakes**
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- LVIII. **Cofilin-1 as a potential biomarker to evaluate acute kidney injury**
COŞKUN A., UÇAL Y., BERBER İ., ÇAKIR Ü., SERTESER M., Moldur D. E., Derelioglu E. I., Yozgatli T. K., ÖZPINAR A., Unsal I.
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- LIX. **Systematic review of the biological variation data for diabetes related analytes**
Gonzalez-Lao E., Corte Z., Simon M., Ricos C., Coskun A., Braga F., Aarsand A. K., Carobene A., Bartlett W. A., Boned B., et al.
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- LX. **Proteomic Analysis of Liver Preservation Solutions Prior to Liver Transplantation**
COSKUN A., BAYKAL A. T., Oztug M., KAZAN D., KAYA E., EMİROĞLU R., YILMAZ S., DÜNDAR H. Z., Akgoz M., BERBER İ., et al.
CURRENT PROTEOMICS, cilt.16, sa.2, ss.119-135, 2019 (SCI-Expanded)
- LXI. **Biological variation estimates for prostate specific antigen from the European Biological Variation Study; consequences for diagnosis and monitoring of prostate cancer**
Carobene A., Guerra E., Locatelli M., Cucchiara V., Briganti A., Aarsand A. K., Coskun A., Diaz-Garzon J., Fernandez-Calle P., Roraas T., et al.
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- LXII. **Harmonization initiatives in the generation, reporting and application of biological variation data**
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- LXIII. **Providing Correct Estimates of Biological Variation-Not an Easy Task. The Example of S100-beta Protein and Neuron-Specific Enolase**
Carobene A., Guerra E., Locatelli M., Ceriotti F., Sandberg S., Fernandez-Calle P., Coskun A., Aarsand A. K.
CLINICAL CHEMISTRY, cilt.64, sa.10, ss.1537-1539, 2018 (SCI-Expanded)
- LXIV. **The EuBIVAS: Within- and Between-Subject Biological Variation Data for Electrolytes, Lipids, Urea, Uric Acid, Total Protein, Total Bilirubin, Direct Bilirubin, and Glucose**
Aarsand A. K., Diaz-Garzon J., Fernandez-Calle P., Guerra E., Locatelli M., Bartlett W. A., Sandberg S., Roraas T., Ceriotti F., Solvik U. O., et al.
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- LXV. **Within-subject and between-subject biological variation estimates of 21 hematological parameters in 30 healthy subjects**
Coskun A., Carobene A., Kilercik M., Serteser M., Sandberg S., Aarsand A. K., Fernandez-Calle P., Jonker N., Bartlett W. A., Diaz-Garzon J., et al.
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