

Prof. SERAP GÜR

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Education Information

Doctorate, Ankara University, Sağlık Bilimleri Enstitüsü, Farmakoloji (Dr) (Eczacılık), Turkey 1987 - 1993

Postgraduate, Ankara University, Sağlık Bilimleri Enstitüsü, Farmakoloji (YI) (Tezli), Turkey 1985 - 1987

Undergraduate, Ankara University, Eczacılık Fakültesi, Eczacılık Pr., Turkey 1980 - 1984

Undergraduate, Ankara University, Eczacılık Fakültesi, Eczacılık Pr., Turkey 1980 - 1984

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Diabetik sıçanlarda, Ankara University, Sağlık Bilimleri Enstitüsü, Farmakoloji (Dr) (Eczacılık), 1987

Postgraduate, Diabetik sıçanlarda, Ankara University, Sağlık Bilimleri Enstitüsü, Farmakoloji (YI) (Tezli), 1987

Research Areas

Health Sciences

Academic Titles / Tasks

Professor, Ankara University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri Bölümü, 1985 - Continues

Professor, Tulane University, Medicine, Urology, 2016 - 2016

Courses

Farmakoloji, Undergraduate, 2015 - 2016

Advising Theses

GÜR S., Parsiyel mesane obstrüksiyonlu sıçanlarda hidrojen sülfür donörü sodyum hidrojen sülfid ve fosfodiesteraz 5 inhibitörü tadalafil tedavisinin erektil disfonksiyon üzerine etkisi, Doctorate, D.YILMAZ(Student), 2018

GÜR S., Mesane boynu obstrüksiyonu (hafif ve orta derecede) ve hiperkolesterolemi sonucu gelişen erektil disfonksiyonun altında yatan mekanizmalarının araştırılması, Doctorate, N.BAYATLI(Student), 2015

GÜR S., Normal ve ovariectomized dişi sıçanların, korpus kavernosum ve klitoris dokusunda pürinerjik reseptörlerin mekanizmalarındaki olası değişiklikler., Postgraduate, K.DEMİRTÜRK(Student), 2012

GÜR S., Parsiyel mesane obstrüksiyonu yapılan sıçanlarda sildenafil tedavisinin erektil disfonksiyon üzerindeki olası düzeltici etkileri, Postgraduate, B.YURDAARMAĞAN(Student), 2011

GÜR S., Diabetik rat mesanelerinde α 1-adrenerjik reseptör subtiplerinin yoğunluğu ve/veya duyarlılığındaki olası değişiklikler ve detrusor kontraktıl yanıtlarına etkisi, Doctorate, M.KOŞAN(Student), 2010

GÜR S., Diabetes mellitus'un yol açtığı erektil disfonksiyonda asetilsalisilik asit kullanımının koruyucu rolü olup olmadığının araştırılması, Doctorate, G.HAFEZ(Student), 2009

GÜR S., Kronik diabetik sıçanlardan alınan korpus kavernosum dokularındaki nörojenik, endotelial ve non-endotelial yanıtlardaki değişiklikler ve bunların altında yatan mekanizmalar, Postgraduate, Y.OZAN(Student), 2004

GÜR S., Benign prostat hiperplazisinin kontrolü için kullanılan ilaç tedavilerinin gözden geçirilmesi, Postgraduate, G.ULUTAN(Student), 2004

GÜR S., Diabetik ve non-diabetik sıçanlardan alınan idrar kesesi preparatlarında kolinerjik ve pürinerjik sistem yanıtlarına parsiyel obstrüksiyonun etkileri, Postgraduate, G.HAFEZ(Student), 2003

GÜR S., Orta yaşlı diabetik sıçanlardan alınan erektil dokulardaki kastırıcı ve gevşetici yanıtlardaki değişiklikler: Askorbik asit ve insülin tedavisinin olası düzeltici etkileri, Postgraduate, M.BADILLI(Student), 2001

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Impact of COVID-19 on male urogenital health: Success of vaccines**
Kucukyildiz K., YILMAZ ORAL D., Turkcan D., Oztekin C. V., GÜR S.
DRUG DISCOVERY TODAY, vol.27, no.10, 2022 (SCI-Expanded)
- II. **Sodium butyrate ameliorates erectile dysfunction through fibrosis in a rat model of partial bladder outlet obstruction**
Kaya Sezginer E., Yilmaz Oral D., Kirlangic Ö. F., Yilmaz S., Ozen F. Z., Asan M., Gür S.
ANDROLOGY, vol.10, no.7, pp.1441-1453, 2022 (SCI-Expanded)
- III. **An update on the current status and future prospects of erectile dysfunction following radical prostatectomy**
Asker H., YILMAZ ORAL D., Oztekin C. V., GÜR S.
PROSTATE, vol.82, no.12, pp.1135-1161, 2022 (SCI-Expanded)
- IV. **Effects of varying degrees of partial bladder outlet obstruction on urinary bladder function of rats: A novel link to inflammation, oxidative stress and hypoxia**
Kaya Sezginer E., Yilmaz Oral D., Lokman U., Nebioglu S., Aktan F., Gür S.
LUTS-LOWER URINARY TRACT SYMPTOMS, vol.11, no.2, 2019 (SCI-Expanded)
- V. **Advances in stem cell therapy for erectile dysfunction**
GÜR S., Abdel-Mageed A. B., Sikka S. C., Hellstrom W. J. G.
EXPERT OPINION ON BIOLOGICAL THERAPY, vol.18, no.11, pp.1137-1150, 2018 (SCI-Expanded)
- VI. **Potential therapeutic value of transient receptor potential channels in male urogenital system**
Toktanis G., KAYA SEZGİNER E., YILMAZ ORAL D., GÜR S.
PFLUGERS ARCHIV-EUROPEAN JOURNAL OF PHYSIOLOGY, vol.470, no.11, pp.1583-1596, 2018 (SCI-Expanded)
- VII. **MIRABEGRON ELICITS RECOVERY OF ERECTILE FUNCTION IN A RAT MODEL OF STREPTOZOTOCIN-INDUCED DIABETES**
KAYA SEZGİNER E., Oral Y. D., Askin D., Koroglu G., GÜR S.
JOURNAL OF SEXUAL MEDICINE, vol.15, no.7, 2018 (SCI-Expanded)
- VIII. **TESTOSTERONE REPLACEMENT THERAPY MAY UPREGULATE PRO-ERECTILE MARKERS BY MODULATING ENDOTHELIAL FUNCTION IN HYPOGONADAL MEN WITH ERECTILE DYSFUNCTION**

Alzweri L., GÜR S., Abdel-Mageed A. B., Hellstrom W. J.

JOURNAL OF SEXUAL MEDICINE, vol.15, no.7, 2018 (SCI-Expanded)

- IX. **Effect of l-arginine addition on long-term storability of ram semen**
KAYA Ş. Ö., GÜR S., Kaya E.
ANDROLOGIA, vol.50, no.4, 2018 (SCI-Expanded)
- X. **EFFECT OF THE CRANBERRY (VACCINIUM MACROCARPON) EXTRACT ON THE RELAXATION OF HUMAN CORPUS CAVERNOSUM TISSUE IN VITRO: CAN CRANBERRIES CONTRIBUTE TO REDUCE THE INCIDENCE OF ERECTILE DYSFUNCTION?**
GÜR S., DeLay K. J., Alzweri L., Abdel-Mageed A. B., Bartolome A. R., Sikka S. C., Hellstrom W. J.
JOURNAL OF SEXUAL MEDICINE, vol.15, no.2, 2018 (SCI-Expanded)
- XI. **IVABRADINE (I(F) FUNNY CHANNEL CURRENT BLOCKER, CORLANOR (R)) INHIBITS HUMAN CORPUS CAVERNOSUM CONTRACTION IN VITRO VIA INTERFERENCE WITH THE CALCIUM AND POTASSIUM TRANSFER: A POTENTIAL OPTION FOR ERECTILE DYSFUNCTION**
GÜR S., DeLay K. J., Alzweri L., Sikka S. C., Abdell-Mageed A. B., Kadowitz P. J., Hellstrom W. J.
JOURNAL OF SEXUAL MEDICINE, vol.15, no.2, 2018 (SCI-Expanded)
- XII. **Management of Erectile Dysfunction: An Under-recognition of Hypertension**
Koroglu G., KAYA SEZGİNER E., YILMAZ ORAL D., GÜR S.
CURRENT PHARMACEUTICAL DESIGN, vol.24, no.30, pp.3506-3519, 2018 (SCI-Expanded)
- XIII. **Male Urogenital Disorders and Metabolic Syndrome: Possible Links, Characteristics and Potential Treatment Strategies**
Oztekin C. V., KAYA SEZGİNER E., YILMAZ ORAL D., GÜR S.
CURRENT PHARMACEUTICAL DESIGN, vol.24, no.9, pp.1019-1033, 2018 (SCI-Expanded)
- XIV. **Destination Penis? Gene Therapy as a Possible Treatment for Erectile Dysfunction**
GÜR S., Abdel-Mageed A. B., Sikka S. C., Bartolome A. R., Hellstrom W. J. G.
CURRENT GENE THERAPY, vol.18, no.4, pp.225-239, 2018 (SCI-Expanded)
- XV. **beta(3)-Adrenoceptor Control of Lower Genitourinary Tract Organs and Function in Male: An Overview**
Kaya E., Sikka S. C., Oral D. Y., ÖZAKCA GÜNDÜZ I., GÜR S.
CURRENT DRUG TARGETS, vol.19, no.6, pp.602-612, 2018 (SCI-Expanded)
- XVI. **Characterisation of pomegranate juice effects on human corpus cavernosum**
GÜR S., Rezk B. M., Abd Elmageed Z. Y., Kadowitz P. J., Sikka S. C., Hellstrom W. J. G.
ANDROLOGIA, vol.49, no.8, 2017 (SCI-Expanded)
- XVII. **The Beneficial Effect of Fesoterodine, a Competitive Muscarinic Receptor Antagonist on Erectile Dysfunction in Streptozotocin-induced Diabetic Rats**
YILMAZ ORAL D., Bayatli N., GÜR S.
UROLOGY, vol.107, 2017 (SCI-Expanded)
- XVIII. **THE BENEFICIAL EFFECT OF HYDROGEN SULFIDE DONOR, SODIUM HYDROSULFIDE ON ERECTILE DYSFUNCTION IN L-NAME-INDUCED HYPERTENSIVE RATS**
Oral Y. D., Kaya E., Yilmaz E., Bayatli N., Cengiz T., ÖZAKCA GÜNDÜZ I., GÜR S.
JOURNAL OF SEXUAL MEDICINE, vol.14, no.4, 2017 (SCI-Expanded)
- XIX. **Effects of Silodosin, a Selective Alpha-1A Adrenoceptor Antagonist, on Erectile Function in a Rat Model of Partial Bladder Outlet Obstruction**
Bastaskin T., Kaya E., ÖZAKCA GÜNDÜZ I., Yilmaz D., Bayatli N., Akdemir A. O., GÜR S.
NEUROUROLOGY AND URODYNAMICS, vol.36, no.3, pp.597-603, 2017 (SCI-Expanded)
- XX. **SACUBITRIL/VALSARTAN (ENTRESTO (R)) AND VALSARTAN/SILDENAFIL COMBINATION IMPROVES FUNCTIONAL RESPONSES ON ISOLATED RAT CORPUS CAVERNOSUM FROM NERVE-CRUSH INJURY MODEL**
GÜR S., Sikka S. C., Kadowitz P. J., Haney N. M., DeLay K. J., Hellstrom W.
JOURNAL OF SEXUAL MEDICINE, vol.14, no.2, 2017 (SCI-Expanded)
- XXI. **Aging and sexual health: getting to the problem**
Kaya E., Sikka S. C., Kadowitz P. J., GÜR S.

AGING MALE, vol.20, no.2, pp.65-80, 2017 (SCI-Expanded)

- XXII. **Intracavernous Injection of Human Umbilical Cord Blood Mononuclear Cells Improves Erectile Dysfunction in Streptozotocin-Induced Diabetic Rats**
Cengiz T., Kaya E., Oral D. Y., ÖZAKCA GÜNDÜZ I., Bayatli N., KARABAY A. Z., Ensari T. A., KARAHAN S. T., Yilmaz E., GÜR S.
JOURNAL OF SEXUAL MEDICINE, vol.14, no.1, pp.50-58, 2017 (SCI-Expanded)
- XXIII. **The 2015 parliamentary elections in Egypt**
GÜR S.
ELECTORAL STUDIES, vol.44, pp.461-464, 2016 (SSCI)
- XXIV. **Pomegranate juice causes a partial improvement through lowering oxidative stress for erectile dysfunction in streptozotocin-diabetic rat**
Onal E., Yilmaz D., Kaya E., Bastaskin T., Bayath N., GÜR S.
INTERNATIONAL JOURNAL OF IMPOTENCE RESEARCH, vol.28, no.6, pp.234-240, 2016 (SCI-Expanded)
- XXV. **Mirabegron causes relaxation of human and rat corpus cavernosum: could it be a potential therapy for erectile dysfunction?**
GÜR S., Peak T., Yafi F. A., Kadowitz P. J., Sikka S. C., Hellstrom W. J. G.
BJU INTERNATIONAL, vol.118, no.3, pp.464-474, 2016 (SCI-Expanded)
- XXVI. **Current therapies for premature ejaculation**
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DRUG DISCOVERY TODAY, vol.21, no.7, pp.1147-1154, 2016 (SCI-Expanded)
- XXVII. **TREATMENT WITH ANTI-CONVULSANT PREGABALIN AT HIGH DOSAGE PROTECTS THE PENILE ERECTILE RESPONSES IN RAT MODEL OF ACUTE ANXIETY**
Oral Y. D., Caliskan H., Akat F., Zaloglu N., GÜR S.
JOURNAL OF SEXUAL MEDICINE, vol.13, no.5, 2016 (SCI-Expanded)
- XXVIII. **MIRABEGRON ELICITS SMOOTH MUSCLE RELAXATION OF HUMAN AND RAT CORPUS CAVERNOSUM TISSUES VIA NON NITRIC OXIDE-CGMP PATHWAYS**
Yafi F. A., GÜR S., Peak T. C., Kadowitz P. J., Sikka S. C., Hellstrom W. J. G.
JOURNAL OF SEXUAL MEDICINE, vol.13, no.5, 2016 (SCI-Expanded)
- XXIX. **Effect of Short- and Long-Term Sildenafil Treatment on Erectile Dysfunction in Rats With Partial Bladder Outlet Obstruction**
GÜR S., Yurdaarmagan B., Bayatli N., Sikka S. C.
NEUROUROLOGY AND URODYNAMICS, vol.35, no.1, pp.108-114, 2016 (SCI-Expanded)
- XXX. **Overview of potential molecular targets for hydrogen sulfide: A new strategy for treating erectile dysfunction**
GÜR S., Kadowitz P. J., Sikka S. C., Peak T. C., Hellstrom W. J. G.
NITRIC OXIDE-BIOLOGY AND CHEMISTRY, vol.50, pp.65-78, 2015 (SCI-Expanded)
- XXXI. **A Comprehensive Review of Metabolic Syndrome Affecting Erectile Dysfunction**
Kaya E., Sikka S. C., GÜR S.
JOURNAL OF SEXUAL MEDICINE, vol.12, no.4, pp.856-875, 2015 (SCI-Expanded)
- XXXII. **2015 Update of Erectile Dysfunction Management Following Radical Prostatectomy: From Basic Research to Clinical Management**
GÜR S., Sikka S. C., Kadowitz P. J., Silberstein J., Hellstrom W. J. G.
CURRENT PHARMACEUTICAL DESIGN, vol.21, no.11, pp.1440-1454, 2015 (SCI-Expanded)
- XXXIII. **L-Arginine and tetrahydrobiopterin, but not sodium nitrite partially restored erectile dysfunction in aged rats**
Un O., Yilmaz D., Bayatli N., Kaya E., GÜR S.
AGING MALE, vol.17, no.4, pp.248-255, 2014 (SCI-Expanded)
- XXXIV. **Preliminary Proteomic Data of Penile Tissue from the Neonatal Non-Insulin Dependent (Type 2) Diabetic Rats**
Kaya E., Yildizhan H., Gur S., Yilmaz D., Nebioglu S., Demiralp D. O.
DIABETES, vol.63, 2014 (SCI-Expanded)

- XXXV. **The Effect of Intracavernosal Avanafil, a Newer Phosphodiesterase-5 Inhibitor, on Neonatal Type 2 Diabetic Rats With Erectile Dysfunction**
Yilmaz D., Bayatli N., Un O., Kadowitz P. J., Sikka S. C., GÜR S.
UROLOGY, vol.83, no.2, 2014 (SCI-Expanded)
- XXXVI. **Imatinib Mesylate (Gleevec) Induces Human Corpus Cavernosum Relaxation by Inhibiting Receptor Tyrosine Kinases (RTKs): Identification of New RTK Targets**
GÜR S., Sikka S. C., Abdel-Mageed A. B., Abd Elmageed Z. Y., Rezk B., Pankey E., Kadowitz P. J., Hellstrom W. J. G.
UROLOGY, vol.82, no.3, 2013 (SCI-Expanded)
- XXXVII. **Analysis of Erectile Responses to Imatinib in the Rat**
Pankey E. A., Lasker G. F., GÜR S., Hellstrom W. J. G., Kadowitz P. J.
UROLOGY, vol.82, no.1, 2013 (SCI-Expanded)
- XXXVIII. **Update on Drug Interactions With Phosphodiesterase-5 Inhibitors Prescribed as First-Line Therapy for Patients with Erectile Dysfunction or Pulmonary Hypertension**
GÜR S., Kadowitz P. J., Gokce A., Sikka S. C., Lokman U., Hellstrom W. J. G.
CURRENT DRUG METABOLISM, vol.14, no.2, pp.265-269, 2013 (SCI-Expanded)
- XXXIX. **Effects of 5-alpha reductase inhibitors on erectile function, sexual desire and ejaculation**
GÜR S., Kadowitz P. J., Hellstrom W. J. G.
EXPERT OPINION ON DRUG SAFETY, vol.12, no.1, pp.81-90, 2013 (SCI-Expanded)
- XL. **PDE5 Inhibitor Treatment Options for Urologic and Non-Urologic Indications: 2012 Update**
GÜR S., Kadowitz P. J., Serefoglu E. C., Hellstrom W. J. G.
CURRENT PHARMACEUTICAL DESIGN, vol.18, no.34, pp.5590-5606, 2012 (SCI-Expanded)
- XLI. **Inhibition of sympathetic neuroeffector transmission in human corpus cavernosum**
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BJU INTERNATIONAL, vol.110, no.6, pp.856-862, 2012 (SCI-Expanded)
- XLII. **Incomplete Recovery of Erectile Function in Rat after Discontinuation of Dual 5-Alpha Reductase Inhibitor Therapy**
Oztekin C. V., GÜR S., Abdulkadir N. A., Lokman U., Akdemir A. O., Cetinkaya M., Hellstrom W. J. G.
JOURNAL OF SEXUAL MEDICINE, vol.9, no.7, pp.1773-1781, 2012 (SCI-Expanded)
- XLIII. **Drugs of the future for Peyronie's disease**
GÜR S., Kadowitz P. J., Hellstrom W. J. G.
MEDICAL HYPOTHESES, vol.78, no.2, pp.305-311, 2012 (SCI-Expanded)
- XLIV. **The effect of diabetes mellitus on α 1-adrenergic receptor subtypes in the bladder of rats**
Gonulalan U., KOŞAN T. M., Hafez G., Arioglu E., Akdemir O., Ozturk B., GÜR S., Cetinkaya M.
Urology, vol.80, no.4, 2012 (SCI-Expanded)
- XLV. **The Effects of Chronic 5-Alpha-Reductase Inhibitor (Dutasteride) Treatment on Rat Erectile Function**
Pinsky M. R., GÜR S., Tracey A. J., Harbin A., Hellstrom W. J. G.
JOURNAL OF SEXUAL MEDICINE, vol.8, no.11, pp.3066-3074, 2011 (SCI-Expanded)
- XLVI. **Imatinib Mesylate (Gleevec) as Protein-tyrosine Kinase Inhibitor Elicits Smooth Muscle Relaxation in Isolated Human Prostatic Tissue**
Ozgur-Akdemir A., Demirturk K., Karabakan M., Volkan-Oztekin C., Abdulkadir N. A., Cetinkaya M., GÜR S., Hellstrom W. J. G.
UROLOGY, vol.78, no.4, 2011 (SCI-Expanded)
- XLVII. **Current status and new developments in Peyronie's disease: medical, minimally invasive and surgical treatment options**
GÜR S., Limin M., Hellstrom W. J. G.
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- XLVIII. **RhoA/Rho-Kinase as a Therapeutic Target for the Male Urogenital Tract**
GÜR S., Kadowitz P. J., Hellstrom W. J. G.
JOURNAL OF SEXUAL MEDICINE, vol.8, no.3, pp.675-687, 2011 (SCI-Expanded)
- XLIX. **Effect of Sildenafil Citrate on Penile Weight and Physiology of Cavernous Smooth Muscle in a Post-**

radical Prostatectomy Model of Erectile Dysfunction in Rats

Ozden E., Ozturk B., KOŞAN T. M., Tezel G. G., AKI F. T., GÜR S., Ergen A., Ozen H.
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- L. **A Protein Tyrosine Kinase Inhibitor, Imatinib Mesylate (Gleevec), Improves Erectile and Vascular Function Secondary to a Reduction of Hyperglycemia in Diabetic Rats**
GÜR S., Kadowitz P. J., Hellstrom W. J. G.
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- LI. **Chronic inhibition of nitric-oxide synthase induces hypertension and erectile dysfunction in the rat that is not reversed by sildenafil**
GÜR S., Kadowitz P. J., Gurkan L., Chandra S., DeWitt S. Y., Harbin A., Sikka S. C., Agrawal K. C., Hellstrom W. J. G.
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- LII. **Purinergic contraction of the rat vas deferens in L-NAME-induced hypertension: effect of sildenafil**
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ASIAN JOURNAL OF ANDROLOGY, vol.12, no.3, pp.415-421, 2010 (SCI-Expanded)
- LIII. **Exploring the Potential of NO-Independent Stimulators and Activators of Soluble Guanylate Cyclase for the Medical Treatment of Erectile Dysfunction**
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- LIV. **Characterization of Erectile Function in Monocrotaline-Treated Pulmonary Hypertensive Rats**
GÜR S., Kadowitz P. J., Thammasitboon S., Lasky J. A., Hellstrom W. J. G.
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- LV. **Activation of P2Y1 and P2Y2 nucleotide receptors by adenosine 5'-triphosphate analogues augmented nerve-mediated relaxation of human corpus cavernosum**
GÜR S., Hellstrom W. J. G.
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- LVI. **Management of Erectile Function by Penile Purinergic P2 Receptors in the Diabetic Rat**
GÜR S., Kadowitz P. J., Abdel-Mageed A. B., Kendirici M., Sikka S. C., Burnstock G., Hellstrom W. J. G.
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- LVIII. **Alfuzosin attenuates erectile dysfunction in rats with partial bladder outlet obstruction**
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- LIX. **A review of current progress in gene and stem cell therapy for erectile dysfunction**
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- LX. **Novel phosphodiesterase-5 (PDE5) inhibitors in the alleviation of erectile dysfunction due to diabetes and ageing-induced oxidative stress**
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- LXI. **Guide to drug therapy for lower urinary tract symptoms in patients with benign prostatic obstruction - Implications for sexual dysfunction**
GÜR S., Kadowitz P. J., Hellstrom W. J. G.
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- LXII. **L-Carnitine Treatment Partially Restores Urinary Bladder Function of Streptozotocin Diabetic Rats**
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- LXIII. **Optimizing nitric oxide production by time dependent L-arginine administration in isolated human corpus cavernosum**
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- JOURNAL OF UROLOGY, vol.178, no.4, pp.1543-1548, 2007 (SCI-Expanded)
- LXIV. **Peripheral mechanisms of erectile dysfunction in a rat model of chronic cocaine use**
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- LXV. **Gene and stem cell therapy in the treatment of erectile dysfunction and pulmonary hypertension; Potential treatments for the common problem of endothelial dysfunction**
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- LXVI. **Purinergic (P2) receptor control of lower genitourinary tract function and new avenues for drug action: An overview**
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- LXVII. **Pharmacological management of Peyronie's disease**
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Metrics

Publication: 157

Citation (WoS): 913

Citation (Scopus): 405

H-Index (WoS): 17

H-Index (Scopus): 12