



Thanks to Reviewers

TURKISH NEUROSURGERY

Official Journal of the Turkish Neurosurgical Society

Volume 28, Number 1,2,3,4,5,6 Year 2018

REVIEWERS BOARD

Dear Colleagues,

We present the list of our colleagues who provided peer review of the articles we published this year. The best measure of the objectivity of periodic scientific publications is qualified peer review. Evaluation of an article is a task that requires a lot of work and is carried out entirely voluntarily. All our reviewers performed these evaluations satisfactorily and promptly, being fully aware of their responsibility. We thank them for their valuable contributions and sincerely hope that their contributions continue.

Savaş CEYLAN

On behalf of Editorial Board

President Turkish Neurosurgical Society

ACAR Feridun	DANEYEMEZ Mehmet	KABATAŞ Serdar	ÖNAL Çağatay
AÇIKBAŞ Sabri Cem	DENİZ Fatih Ersay	KAFADAR Ali	ÖZDUMAN Koray
ADELEYE Amos Olufemi	DURMAZ Ramazan	KAHİLOĞULLARI Gökmen	ÖZER Fahir
AKANSEL Gür	DURU Soner	KAHRAMAN Serdar	PAKSOY Yahya
AKDEMİR Gökhan	DÜZ Bülent	KANAT Ayhan	PARAMASIVAM Srinivasan
AKIN Aynur	EGEMEN Emrah	KARABAĞLI Pınar	RAJESH Alugolu
AKINCI Ahmet Tolgay	EMEL Erhan	KARABAĞLI Hakan	SADE Burak
AKKAYA Cengiz	EMMEZ Hakan	KARAGÖZ GÜZEY Feyza	SASANI Mehdi
AKYOLDAS Göktuğ	ENCHEV Yavor	KARAOĞLU Derya	SAVAŞ Ali
ALTINÖRS Nur	ER Uygur	KAYA Serdar	SEÇKİN Hakan
ANIK İhsan	ERBAŞ Yahya Cem	KAZAN Mehmet Saim	SELÇUKİ Mehmet
ARAT Anıl	ERCAN Serdar	KERTMEN Hayri	SOLMAZ İlker
AŞIK İbrahim	ERDOĞAN Ersin	KIENING Karl	SPENNATO Piero
ASLANTAŞ Ali	ERER ÖZBEK Sevda	KILIÇ Kaya	ŞAHİNOĞLU Mert
AVCI Emel	ETUŞ Volkan	KILINÇER Cumhur	ŞENEL Alpaslan
AYHAN Selim	EYİGÖR Özhan	KOBAYASHI Hidenori	ŞİMŞEK Serkan
BAVBEK Murad	GEZER Burak	KOCABIÇAK Ersoy	ŞİRİN Sait
BEKAR Ahmet	GİESE Henrik	KOCAELİ Hasan	TANRIÖVER Necmettin
BELDEN Deniz	GÖKSEL Murat	KOÇ Kemal	TEHLİ Özkan
BORA İbrahim	GÜRER Bora	KÖKTEKİR Ender	TEMİZ Cüneyt
BOZKURT Gökhan	HAGHNEGAHDAR Ali	KOTİL Kadir	TÖNGE Mehmet
BOZKURT Melih	HAKAN Tayfun	KÖKNEL TALU Gül	TUĞCU Bekir
BÖRCEK Alp Özgün	HAMAMCIOĞLU Mustafa	KÖSE Gülşah	TÜRK Cezmi
CEYLAN Davut	Kemal	KÜÇÜKYÜRÜK Barış	UÇAR Tanju
CİVELEK Erdinç	HANALIOĞLU Şahin	KURT Ayberk	YAMAN Onur
ÇALIŞANELLER Tarkan	HANCI Murat	KUTLAY Murat	YİĞİTKANLI Kazım
ÇAYLI Süleyman	HAYASHİ Yasuhiko	MOROTA Nobuhito	YILMAZ Atilla
ÇELTİKÇİ Emrah	HAZER Derya Burcu	MURLIMANJU B.V	YILMAZ Derviş
DAĞÇINAR Adnan	HERGÜNSEL Batu	MUZUMDAR Dattatraya	ZİLELİ Mehmet
DAĞTEKİN Ahmet	IACCARİNO Corrado	NADERİ Sait	ZİYAL İbrahim
DALBAYRAK Sedat	ISHII Keisuke	OKAY Önder	
DALGIÇ Ali	İZCİ Yusuf	ÖZTURK Sait	



TURKISH NEUROSURGERY

Official Journal of the Turkish Neurosurgical Society
Volume 28, Number 1,2,3,4,5,6 Year 2018

AUTHOR INDEX

- ABDALLAH Anas - 29
ABDELFATAH Mohamed - 400
ABDI Zahra - 19
ABDIOGLU Ahmet Atilla - 889
ACAR Halil Ibrahim - 234
ACAR Manolya - 79
ACERBI Francesco - 341
ACIKEL Cengizhan - 248
ACKERMANS Linda - 483, 929
ADILAY Utku - 434, 954
ADIN CINAR Suzan - 630
AGNOLETTO Guilherme José - 689
AHMEDOV Merdin Lyutviev - 193
AJLER Pablo - 877
AKAR Aykan - 667
AKAY Ali - 186, 469
AKCALI Omer - 799
AKGUL Erol - 211
AKGUL Gulsah - 1
AKGUN Bekir - 263, 405, 625, 710
AKGUN Mehmet Yigit - 193
AKKAN Koray - 550
AKPINAR Elif - 731
AKSU Hasan Salih Zeki - 589
AKTAS Ozgur - 282, 723, 740
AKTAS Serdar - 111, 654
AKTURK Hacer - 79
AKYOL Sibel - 630
AKYOLDAS Goktug - 843
AL MAHDI Mohamad-Motaz - 313
AL-BEYATI Eyyub S M - 349, 675
ALAGOZ Fatih - 62
ALFIERO Tommaso - 454
ALIBAI Ehsanali - 394
ALICI Emin - 799
ALKAN Alpay - 563
ALKILIC Aysegul - 940
ALPTEKIN Onur - 483
ALTUN Adnan - 663
ANDIC Cagatay - 544
ANIK Ihsan - 963
ANIK Yonca - 963
ANSARI Sahar Hojaat - 447
ARALASMAK Ayse - 563
ARAS Yavuz - 571
ARSLAN Mehmet - 234
ARSLAN Yusuf Kemal - 589
ARTAS Gokhan - 625, 989
ARTAS Hakan - 989
ASHRAF Mohammad Hossein - 394
ASILTURK Murad - 29
ATES Ozkan - 904
ATTAR Ayhan - 149
AURICH Lucas Alves - 689
AYAZ Murat - 421
AYDEMİR Fatih - 667
AYDEMİR Isil - 858
AYDIN Elcin - 72, 219, 469
AYDIN Hasan Emre - 889
AYDIN Mehmet Dumlu - 48
AYDIN Nazan - 48
AYDIN Sule - 288
AYDIN Suleyman - 989
AYDOGAN Berna Imge - 826
AYTAR Murat Hamit - 105, 257
AZIZ Waseem - 118
BAGCI-ONDER Tugba - 571
BAGDATOGLU Celal - 811
BAGGA Veejay - 763
BAHARVAHDAT Humain - 317
BAI Jiwei - 530
BAJAJ Jitin - 329
BAKAY ILHAN Didem - 654
BAL Cengiz - 142
BALAZ Marek - 296
BARADARAN Aslan - 317
BASKAYA Mustafa K. - 839
BAYAR Mehmet Akif - 62
BAYKAL Orhan - 48
BAYRAKTAROGLU Taner - 323
BELE Sylvia - 369
BELEN Deniz - 490
BERETTA Elena - 341
BHASHYAM Niketh - 597
BILGIC Bilge - 29
BILGIN Erkan - 550
BOCKOVA Martina - 296
BOKHARI Iram - 763
BOLUKBASI Fatih Han - 204
BORCEK Alp - 1
BORCEK Alp Ozgun - 550
BOTELLA Céline - 500
BOZKAYA Halil - 219
BOZKURT Huseyin - 792
BOZKURT Ismail - 889
BOZKURT Melih - 149, 349, 675, 970
BOZKUS Hakan - 630
BRAGA Vinicius Lopes - 934
BRANDIS Almuth - 313
BRANDMEIER Sema - 204
BRAWANSKI Alexander - 369
BRÜNDL Elisabeth - 369
BUKI Andras - 410
CABUK Burak - 963
CAGLAR Y. Sukru - 149, 866
CAGLI Sedat - 602
CAI Hong-Ru - 897
CAI Yu - 88
CAKIN Hakan - 405
CALDIROLI Dario - 341
CALISKAN Mine - 79
CAN Songul Meltem - 776
CANER Hakan - 667
CANSEVER Tufan - 667
CAROZZI Carla - 341
CAVALHEIRO Sérgio - 934
CELIK Haydar - 62
CELTİKCI Emrah - 1, 166, 167
CELTİKCI Pinar - 1009
CEMIL Berker - 270

- CENTENO Ricardo Silva - 934
 CETIN Eyup - 282
 CETINALP Nuri Eralp - 251, 589
 CEYHAN Dilek - 288
 CEYLAN Savas - 963
 CEYLAN Seda - 13
 CHADDAD-NETO Feres - 934
 CHAMPEAUX Charles - 500
 CHANG BuQing - 462
 CHANG Sio long - 36
 CHEN Jinchuan - 923
 CHEN Robert E. - 682
 CHEN Xiao-Juan - 910
 CHEN Xuan - 538
 CHENG Xiaoping - 538
 CHO Hyun-Jin - 428
 CHRASTINA Jan - 296
 CIKLA Ulas - 839
 CINAR Celal - 72, 219, 469
 CINDIL Emetullah - 550
 CIPLAK Necati Mert - 756
 CIRAK Musa - 963
 CIVI Soner - 105, 544
 COKLUK Cengiz - 479
 COLLU Fatih - 858
 COMERT Ayhan - 234, 349, 866
 CORDELLA Roberto - 341
 COSAN Didem - 142
 COSAN T. Erhan - 142
 CUI Han-Jin - 241
 CZEITER Endre - 410
 DA COSTA Marcos Devanir Silva - 934
 DAGCINAR Adnan - 663
 DAGDEVIREN Attila - 128
 DAGLI Adile Ferda - 989
 DALBAYRAK Sedat - 610
 DANA Aykutlu - 963
 DANEYEMEZ Mehmet Kadri - 783
 DE LA GARZA RAMOS Rafael - 597
 DEHGHANIAN Amir Reza - 1005
 DEVAUX Bertrand - 500
 DEVELI Sedat - 949
 DIAZ Roberto J. - 682
 DIMECO Francesco - 341
 DING Hong-Jun - 849
 DIRIL Serkan - 211
 DJUROVIC Branko - 636
 DOGAN Ihsan - 349, 675, 866, 970
 DONG Hua-Jiang - 696, 1013
 DONG Huajiang - 849
 DORUK Ebru - 723
 DU Chunyan - 616
 DUNDAR Tolga Turan - 563
 DURANSOY Yusuf Kurtulus - 858
 DURDAG Emre - 544
 DURUM Yasemin - 557
 EGEMEN Nihat - 970
 EGHBAL Keyvan - 1005
 EISSA Ehab Mohamed - 523
 ELMACI Ilhan - 204
 EMEL Erhan - 29
 EMMEZ Hakan - 550
 EMMEZ O. Hakan - 1
 EMRAL Rifat - 826
 ERASLAN Onder - 1009
 ERBULUT Deniz Ufuk - 756
 ERCAN Ipek - 128
 ERDAG Ece - 571
 ERDEM Ilknur - 904
 ERDEM Yavuz - 62
 ERDI Fatih - 7
 ERDIM Ibrahim - 915
 ERDOGAN Hakan - 663
 ERDOGAN Uzay - 505, 954
 EREN Burak - 282, 723
 ERGUN Ertan - 105
 ERGUN Onur - 1009
 ERKASAP Nilufer - 142
 ERKEN Haydar Ali - 654
 ERMAN Tahsin - 251
 EROGLU Umit - 349, 970
 EROL Fatih Serhat - 263, 405, 625, 710, 989
 ERSOY Gulfem - 654
 ESEN Hasan - 7
 ESENKAYA Asim - 72
 ESKANDARY Hossien - 19
 ETUS Volkan - 137, 303
 EVERS Silvia - 929
 EZGU Mehmet Can - 364
 FEITOVA Věra - 296
 FENG Hu - 462
 FENG Jinyi - 716
 FEYZIOGLU Bahadir - 7
 FINDIK Siddika - 7
 GALZIO Renato Juan - 454
 GANJEIFAR Babak - 317
 GAO Xiang - 897
 GAO Xiao - 462
 GAZIOGLU Nurperi - 193
 GEMICI Ali - 940
 GENÇ Cetin - 571
 GEZERCAN Yurdal - 251
 GHAFFARPASAND Fariborz - 394, 1005
 GOK Mustafa - 72, 469, 557
 GOKBEL Aykut - 963
 GOKCE Emre Cemal - 270
 GOKSEL Murat - 434
 GOKTURK Dilek - 13, 853
 GOLDSCHMIDT Ezequiel - 877
 GONEN Murat - 989
 GONG Haiyi - 983
 GUBLER Felix S. - 483
 GUGLU Bulent - 434
 GUCYETMEZ Bulent - 174
 GUDUK Mustafa - 174
 GUI Songbai - 530
 GUL Sanser - 323
 GULEC Ilker - 723
 GULER ABDALLAH Betul - 29
 GULERYUZ Pinar - 940
 GULLU Sevim - 826
 GULTEKIN Alper - 799
 GUNALDI Omur - 505, 915, 954
 GUNDOGDU Cemal - 48
 GUNDOGDU Gokcen - 29
 GUNEY Guven - 889
 GUNEYLI Serkan - 469
 GUO Dong - 43
 GURBUZ Mehmet Sabri - 94
 GURCU Beyhan - 858
 GUVENC Yahya - 62
 HA Sung-Kon - 882
 HACIYAKUPOGLU Ersin - 211
 HACIYAKUPOGLU Sebahattin - 211
 HAKAN Tayfun - 820
 HAN Guoqiang - 356
 HAN Xin-Wei - 43
 HANCERLI TORUN Selda - 79
 HANCI Mehmet Murat - 630
 HARMAN Ferhat - 257
 HASSAN Tamer - 118
 HATIOGLU Sevgi - 248
 HATTAB Mohamed Nejib - 495
 HE Shaohui - 983
 HELVACIOGLU Fatma - 128
 HEMBERGER Frank - 995
 HERGUNSEL Batu - 979
 HIM Aydin - 479
 HONG Bujung - 313
 HRABOVSKY Dušan - 296
 HSIEH Cheng-Ta - 36
 HSU Shih-Wei - 582
 HU Baoshan - 716
 HUANG Kai - 462
 HUR Jung-Woo - 428
 HUSSAIN Muhammad Masood - 763
 IBRAHIM Tamer - 118
 ILGIT Erhan - 550
 INAL Ayse Seza - 589
 IS Merih - 94
 ISIK Hasan Serdar - 602, 731
 ISIKSACAN OZEN Ozlem - 667
 ISLEKEL Sertac - 186
 ISLER Cihan - 193, 282
 ISMAILOGLU Ozgur - 111
 IZGI Nail - 79, 571

- JEONG Tae Seok - 226
 JIANG Jinli - 805
 JIANG Yongchong - 152
 JIN Sung-Won - 882
 JOVANOVIĆ Milan - 636
 KACAR Yunus - 364
 KADIOĞLU Hakan Hadi - 474
 KAHİLOĞULLARI Gokmen - 137, 149, 303, 970
 KAHRAMAN CETİN Nesibe - 111, 654
 KAHRAMAN Serdar - 257
 KAKA Gholamreza - 645
 KALDIRIMOĞLU Ayca - 776
 KALKAN Erdal - 7
 KANDEMİR Ersin - 128
 KANDZIORA Frank - 995
 KAPLAN Metin - 263, 979
 KARAARSLAN Numan - 904
 KARAASLAN Burak - 1
 KARABACAK Busra - 128
 KARABAGLI Hakan - 137, 303, 421
 KARAGOZ GUZEY Feyza - 282, 723, 740
 KARAKAS Sacide - 557
 KARAKOC Omer - 364
 KARAMAN Can Zafer - 557
 KARATAS İdil - 128
 KARATAS Yasar - 7
 KARDES Ozgur - 544
 KAUR Ahmet Cemil - 820
 KAYA Ahmet Hilmi - 663
 KAYA Bulent - 7
 KAYA İsmail - 792
 KAYMAZ A. Memduh - 1
 KAYMAZ Fevziye Figen - 105
 KAYMAZ Memduh - 105
 KAZAN Saim - 405
 KE Tie - 897
 KELEBEK Hasim - 13
 KELES Sadullah - 48
 KESKİL Semih - 434
 KESKİN Fatih - 7
 KIBAR Filiz - 589
 KILANI Mohamed - 495
 KİLİNC M Cemil - 349
 KİM Eun Young - 226
 KİM Jin-Sung - 428
 KİM Myeong Jin - 226
 KİM Sang-Dae - 882
 KİM Woo Kyung - 226
 KINA Hakan - 505
 KINON Merrit D. - 597
 KIRAZ Murat - 915
 KIRCELLI Atilla - 667, 776
 KIRIK Alparslan - 783
 KİTİS Serkan - 563
 KIZILAY Zahir - 111, 654
 KOBAN Orkun - 610
 KOCABİCAK Ersoy - 483, 929
 KOCACAN Süleyman Emre - 479
 KOCAOĞLU Sarper - 740
 KOÇMAN Atacan Emre - 288
 KOMOTAR Ricardo J. - 682
 KOMUR Suheyla - 589
 KONG Jinhai - 439
 KOSAY Can - 799
 KOSE Aydan - 288
 KOSE Gulsah - 248
 KOU Jianqiang - 616
 KOUCHESFEHANI Homa Mohseni - 645
 KOZAN Serpil - 979
 KRAUSS Joachim K. - 313
 KUBBEN Pieter - 929
 KUBBEN Pieter L. - 483
 KUCUK Ahmet - 158
 KUCUKYURUK Baris - 193
 KULOĞLU Tuncay - 989
 KUMAR Sushil - 326
 KURT OMURLU İmran - 111
 KURTARAN Behice - 589
 KURUOĞLU Enis - 479, 663
 KUSCU Ferit - 589
 KUZU Fatih - 323
 LAKICEVIĆ Novak - 636
 LAN Chu-Mei - 582
 LEE Anselm Chi-wai - 847
 LEE Hong-Jae - 428
 LEE Hwa - 882
 LEE Jun Seok - 99
 LEE Kim Shang - 847
 LEE Sang Weon - 99
 LEE Timothy - 847
 LEE Tsung-Han - 582
 LEFEVRE Etienne - 500
 LENG Lige - 703
 LI Chuzhong - 530
 LI Gang - 696, 849, 1013
 LI Hai-Tao - 241
 LI Kun-Zheng - 910
 LI Lusheng - 179
 LI Ning - 88
 LI Teng-Fei - 43
 LI Yingliang - 179
 LIANG Ping - 179
 LIM Dong-Jun - 882
 LIN Ling - 696, 849
 LIN Shengrong - 716
 LIU Chuangxi - 356
 LIU Hua - 748
 LIU Peng - 275
 LIU Tielong - 439
 LIU Xiangyun - 616
 LIU Yi - 923
 LU Cheng-Hsien - 582
 LUO Yuechen - 849, 1013
 LUZZI Sabino - 454
 MA Ji - 43
 MA Lu - 389, 511
 MANSOUR Osama - 118
 MARANGOZ Abdullah Hilmi - 479
 MARANGOZ Cafer - 479
 MARO KIRIS İrem - 691
 MASHAYEKHI Sohail - 447
 MASOUDI Mohammad Sadehgh - 394
 MEHTIYEV Royal - 364
 MENEKSE Guner - 62
 MENG Hui-Peng - 1013
 MENKU Ahmet - 158
 METE Mesut - 67, 858
 METİN TELLİOĞLU Ayfer - 557
 MEYBODI Keyvan Tayebi - 678
 MILLIMAGGI Daniele Francesco - 454
 MILOSEVIĆ Cedomir - 636
 MOATTARI Mehrnaz - 645
 MOHAMED Abbas - 416
 MORALI GULER Tugba - 303
 MURADOVA Aygozel - 79
 MUSLUMAN Ahmet Murat - 776
 MUT Senem Ertugrul - 783
 NADERİNABI Bahram - 447
 NAGHDI Majid - 645
 NAKAMURA Makoto - 313
 NAKHLA Jonathan - 597
 NASSER Rani - 597
 NAZLİCAN Ersin - 211
 NEMATOLLAHI-MAHANI Seyed Nouredin - 19
 NİE Hai - 275
 NJİM Leila - 495
 NORCIA Valerio di - 454
 NOVAK Zdeněk - 296
 NSİR Atef Ben - 495
 OĞRENCİ Ahmet - 610
 OKCESİZ İzzet - 405
 OKTAY Kadir - 251
 OKTEN Ali İhsan - 307
 OKTENOĞLU Tunc - 756
 OKUTAN Ozerk - 731
 OMEROĞLU Muhammed - 954
 ONAL Baran - 550
 ONAL Mehmet Bulent - 995
 ONAL Selami Ates - 263
 ONEN Mehmet Resid - 48
 ORAL Sukru - 158
 ORAN İsmail - 72, 219, 469
 ORENA Eleonora - 341
 ORHAN KİLİC Betül - 940

- ORNEK Mustafa - 282, 723
 OZATIK Orhan - 288
 OZBEK Hanefi - 904
 OZDAMAR Dilek - 963
 OZDEMIR Huseyin - 563
 OZDEMIR Meryem Damla - 853
 OZDEMIR Mevci - 149
 OZEK Erdinc - 563
 OZER Ali Fahir - 756, 843
 OZGURAL Onur - 349, 970
 OZISIK Pinar - 940
 OZMETE Ozlem - 544
 OZNAM Kadir - 904
 OZONER Baris - 776
 OZSOY Kerem Mazhar - 251, 589
 OZTOPRAK Bilge - 792
 OZTURK Sait - 263, 405, 625, 710, 979, 989
 PADUREAN Vlad Adrian - 768
 PAKSOY Kemal - 889
 PAMIR M. Necmettin - 174
 PAN Qi - 910
 PANDEY Paritosh - 56
 PARIHAR Vijay - 329
 PASAOGLU Aydin - 105
 PASCALAU Raluca - 768
 PATERIYA Anurag - 329
 PECEN Ahmet - 128
 POLAT Ayse Gizem - 557
 POLAT Sait - 211
 POSTALCI Lutfi Sinasi - 505, 915
 PROESCHOLDT Martin - 369
 PRUTHI Nupur - 56
 PU Chunhua - 88
 QIAN Ming - 439
 QUINONES-HINOJOSA Alfredo - 682
 QULIYEV Huseyin - 219
 RAHMANIAN Abdolkarim - 394
 RAMAZANOGLU Leyla - 48
 RASMUSSEN Jorge - 877
 RASULIC Lukas - 636
 RATRE Shailendra - 329
 REHMAN Lal - 763
 RICCI Alessandro - 454
 ROSHAN Nema Mohamadian - 317
 RUI Gang - 716
 RUSCHEL Leonardo Gilmore - 689
 RYU Kyeong-Sik - 428
 SABERI Alia - 447
 SADI AYKAN Filiz - 164
 SADRAIE Seyed Homayoon - 645
 SAHIN Balkan - 776
 SALEHI Zivar - 447
 SALMAN Nuran - 79
 SAMARDZIC Miroslav - 636
 SANDAL Evren - 602
 SANDOR Janos - 410
 SANUS Galip Zihni - 193
 SARI Ramazan - 204
 SARMA Pragyan - 56
 SASANI Mehdi - 756
 SATYARTHEE Guru Dutta - 326
 SAVIC Andrija - 636
 SCHEBESCH Karl-Michael - 369
 SCHEITZACH Judith - 369
 SCHLEICHER Philipp - 995
 SCHOLZ Matti - 995
 SCHÖDEL Petra - 369
 SECER Halil Ibrahim - 257, 783
 SEKMEN Haydar - 970
 SELCUKI Deniz - 67
 SELCUKI Mehmet - 67, 858
 SENCAR Leman - 211
 SENCELIKEL Tugce - 128
 SENTURK Salim - 756, 843, 889
 SEONG Ji-Hoon - 428
 SERARSLAN Ulas - 799
 SEYITHANOGLU Mehmet Hakan - 563
 SHANG Chong-Zhi - 1013
 SHANG Hanbing - 88
 SHIH Fu-Yuan - 582
 SHUI Shao-Feng - 43
 SIDDIQI Shamim Ul Haq - 763
 SIMIC Vesna - 636
 SIMSEK Serkan - 851
 SIRIN Alperen - 839
 SOMAY Hakan - 94
 SOMER Ayper - 79
 SON Dong Wuk - 99
 SONG Geun Sung - 99
 SORINOLA Abayomi - 410
 SOYER GULDOGAN Esra - 1009
 SU Tsung-Ming - 582
 SULTAN Ahmed - 118, 416
 SUN H. Ibrahim - 174
 SUN Naikun - 716
 SUN Yu - 152
 SUN Yuanliang - 616
 SUN Zhenghui - 805
 SUN Zhengwang - 439
 SUNER Halil Ibrahim - 544
 SUNG Soon Ki - 99
 SURME Mehmet Besir - 710
 SUTCU Murat - 79
 SUZER Tuncer - 756
 SZABO Bianca Aurora - 768
 TAGHVAEI Mohammad - 678
 TAHTA Alican - 571
 TANELI Fatma - 858
 TANG Tao - 241
 TANIK Canan - 954
 TANRIOVER Necmettin - 193
 TANRIVERDI Osman - 505, 915, 954
 TAS Abdurrahim - 282, 723
 TASKENT Ismail - 710
 TASKIRAN Emine - 204
 TASOVA Yesim - 589
 TEHLI Ozkan - 248
 TEKINER Ayhan - 62
 TEMEL Yasin - 483, 929
 TEMIZ Nail Caglar - 248, 364
 TENEKECI Goktekin - 811
 TONGE Mehmet - 929
 TOPCU Abdullah - 111
 TOPRAK Huseyin - 563
 TOSCANO Maximiliano - 877
 TSAI Ming Dar - 36
 TUBBS R. Shane - 234
 TUFAN Azmi - 282, 723, 740
 TUFAN Kadir - 544
 TUGCU Bekir - 915, 954
 TUGLU Mehmet Ibrahim - 858
 TUMTURK Abdulfettah - 158
 TUN Kagan - 270
 TUNALI Selcuk - 940
 TURKOGLU Mehmet Erhan - 1009
 TUTUNCU Necmettin - 811
 UCLER Necati - 979
 ULU Aslihan - 589
 ULUC Kutluay - 839
 UNAL Meric - 799
 UNAL Mustafa - 323
 UNAL Sakir - 811
 UNLU Agahan - 137, 303, 675
 UNLU UNSAL Ulkun - 858
 UNLUTURK Ugur - 826
 UYSAL Mustafa Levent - 29
 UYSAL Omer - 563
 UZUNER Kubilay - 142
 VATANDAS Gokhan - 858
 VATANSEVER Mustafa - 282, 723
 VITOSEVIC Filip - 636
 VLIS Tim Bouwens van der - 929
 VOSGERAU Ronaldo Pereira - 689
 VURAL Murat - 142
 WANG Chao - 356
 WANG Da - 983
 WANG Fuyu - 805
 WANG Hongyun - 530
 WANG Ting - 616
 WANG Wenming - 748
 WANG Yong - 152
 WEI Haifeng - 983
 WEI Yongxu - 88
 WEN Gong - 1013
 WEN Xue - 538
 WETZELAER Pim - 929
 WHAREN Robert E. - 682

- WU Chen - 805
 WU Si - 538
 XIAO Jianru - 439, 983
 XIAO Zong-Yu - 910
 XU Bainan - 805
 XU Wei - 897
 XU Zheng - 923
 XUE Zhe - 805
 YADAV Yad Ram - 329
 YAĞMURLU Kaan - 934
 YALTIRIK BILGIN Ezel - 550
 YAMAN Mesut Emre - 889
 YAMAN Onur - 610, 756, 843
 YAN Lei - 43
 YANARDAG Sirma Basak - 421
 YANG Jian - 748
 YANG Qing-Zhi - 910
 YANG Tuck Loong - 847
 YANG Xinghai - 983
 YANG Yue - 696
 YAO Zhong - 389
 YAPICIER Ozlem - 174
 YASSARI Reza - 597
 YAZICI Mine Zahide - 915
 YEE Gi Taek - 226
 YEHA Ahmed - 118
 YEN David Hung-Tsang - 36
 YIGITKANLI Kazim - 851
 YILDIRIM Engin - 288
 YILDIRIM Fatma - 164
 YILDIRIM Hanefi - 405, 710
 YILDIRIM Timur - 62, 731
 YILMAZ Adem - 776
 YILMAZ Ali - 62, 111, 731
 YILMAZ Atilla - 756
 YILMAZ Cem - 667
 YILMAZ Dervis Mansuri - 13, 211, 589
 YILMAZ Ibrahim - 904
 YILMAZ Ilhan - 48, 954
 YILMAZ Mesut - 610
 YILMAZ Necat - 811
 YOO Chan Jong - 226
 YOON Jang W. - 682
 YOU Chao - 356, 389, 511
 YOU Hi-Jin - 882
 YU ChaoJiang - 462
 YU Guoqiang - 530
 YU Shengyuan - 530
 YU Zhiyuan - 511
 YUCEL Murat - 282, 723
 YUKSEL Mehmet Onur - 94
 ZEINALIZADEH Mehdi - 678
 ZEMAN Florian - 369
 ZENGI Oguzhan - 740
 ZHAI Xuan - 179
 ZHANG Dan - 983
 ZHANG Li - 152
 ZHANG Qi-Mei - 241
 ZHANG Qiang - 241
 ZHANG Xu-Ming - 897
 ZHANG Yazhuo - 530
 ZHANG Yuting - 179
 ZHAO Jie - 462
 ZHAO Ming-Liang - 1013
 ZHAO Mingliang - 849
 ZHAO Peng - 530
 ZHAO Weiguo - 88
 ZHENG Jun - 511
 ZHENG Xiujun - 616
 ZHONG Jian-Hua - 241
 ZHONG Nanzhe - 439
 ZHOU Hua-Jun - 241
 ZHOU Jing-Hua - 241
 ZHOU Yudong - 179
 ZIMELEWICZ OBERMAN Dan - 877



TURKISH NEUROSURGERY

Official Journal of the Turkish Neurosurgical Society

Volume 28, Number 1,2,3,4,5,6 Year 2018

SUBJECT INDEX

- 2-methoxyestradiol - 241
Accessory anterior cerebral artery - 839
Adolescent - 923
Aggressive pituitary adenoma - 826
Alpha lipoic acid - 740
Anatomic variation - 557
Anatomical variation - 783
Anatomy - 234
Aneurysm - 226, 550, 563, 805, 970, 1009
Aneurysmal subarachnoid hemorrhage - 36
Angiogenesis - 241, 696
Anterior cerebral artery - 820
Anterior cervical discectomy - 678
Anterior cervical fusion - 678
Anterior transarticular screw fixation - 995
Anti-apoptosis - 696
Anti-platelet - 99
Antiepileptic drug - 389
Antioxidant - 667, 740
Anxiety - 434
AO spinal trauma classification system - 282
AOSpine thoracolumbar injury classification system - 94
Apelin - 989
Apelin receptor - 989
Apoptosis - 105, 858
Apparent diffusion coefficient - 710
Application - 349
Aqueductal stenosis - 963
Arachnoid cyst - 776
Arachnoid web - 689
Arginine vasopressin - 211
Art - 307
Arteriovenous malformation - 500
Ascending cervical artery - 234
Ascorbic acid - 13
Aspirin - 99
Assisted delivery - 940
Astrocytoma - 989
Atlanto-Axial stabilization - 995
Atlantoaxial instability - 602, 843
Atlantoaxial joint - 270
Atorvastatin - 571
Awake craniotomy - 186
Axonal action potential - 421
Bayesian network - 167
Benign appearance - 983
Betamethasone - 645
Bevacizumab - 954
Bilateral fixation - 731
Biodegradable membrane - 645
Biology-inspired architecture - 691
Biomechanical comparison - 995
Birth trauma - 940
Bispectral index - 341
Body mass index - 897
Bone marrow - 654
Bone resorption - 882
Brachial plexus - 783
Brachial plexus palsy - 636
Brachyury - 174
Brain abscess - 79
Brain lesion - 186
Brain motor area - 341
Brainstem - 768
Bregma - 877
Burr hole - 400, 748
C1 lateral mass - 602
C2 laminar - 602
C2 pedicle - 602
C2-Pars interarticularis screw - 995
Cadaver - 234
Caffeic acid phenethyl ester - 625
Capillary malformation - 811
Case fatality ratio - 410
CD105 - 954
CD133 - 910
CE-MRA - 563
Central nervous system - 495
Central sulcus - 877
Cephalhematoma - 940
Cerebellopontine angle - 313, 763
Cerebral angiography - 1009
Cerebral vasospasm - 211
Cerebro-spinal fluid - 62, 142
Cerebrospinal fluid leak - 193
Cervical hemilaminoplasty - 158
Cervical radicular artery - 234
Cervical spine - 557, 678
Cervical spondylotic myelopathy - 257
Chiari 0 malformation - 251
Chiari I Malformation - 67
Chiari malformation type 1 - 710
Chiasma - 691
Child - 79
Children - 523
Chordoma - 174
Chronic subdural haematoma - 748
Chronic subdural hematoma - 400, 405, 776
Cine flow magnetic resonance imaging - 251
Cine-MRI - 963
Clinical characteristic - 983
Clinical predictor - 36
Clip - 369
Clipping - 970
Clival meningioma - 505
Cognitive impairment - 369
Coil - 369
Coiling - 43
Communicant branch of the radial nerve - 949
Complication - 99, 186, 329, 763, 897, 929, 1009

- Computed tomography - 270, 877
 Conservative treatment - 282
 Contralateral approach - 610
 Cost - 929
 Cranial nerve - 768
 Craniocervical region - 72
 Craniometric points - 877
 Craniopharyngioma - 313
 Cranioplasty - 882
 Craniotomy - 682
 Cranium - 416
 Creatine - 128
 Crush injury - 740
 Cryopreservation - 882
 CTA - 563
 CTP - 563
 Cultural history - 490
 Curcumin - 288
 Cushing disease - 323
 Cushing's disease - 826
 Cyanoacrylate - 416
 Cytotoxicity - 13
 Decompression - 251, 616
 Decompressive craniectomy - 582, 882
 Decompressive surgery - 792
 Deep brain stimulation - 296, 483, 929
 Deep cervical artery - 234
 Deformation - 805
 Degenerative spinal disease - 897
 Depression - 434
 Dexamethasone suppression test - 323
 Difficulty - 663
 Diffusion - 405
 Diffusion-weighted imaging - 710
 Dissecting anterior inferior cerebellar artery aneurysm - 675
 Distal catheter - 663
 Drainage - 748
 Drop metastasis - 29
 Duraplasty - 251
 Dynamic rod - 756
 Dynamic stabilization - 756
 Dynamic system - 756
 Eagle syndrome - 219
 Ectopic recurrence - 313
 Efficacy - 416
 Elabela - 989
 Elbow flexion recovery - 636
 Electron microscope - 128
 Embolization - 43, 118
 Encephalitis - 495
 Endonasal approach - 193
 Endoplasmic reticulum - 538
 Endoscope - 193
 Endoscopic approach - 505
 Endoscopic surgical procedure - 329
 Endoscopic third ventriculostomy - 963
 Endoscopic transsphenoidal surgery - 915
 Endoscopic ventriculostomy - 500
 Endovascular - 43
 Endovascular diagnosis - 469
 Endovascular management - 72
 Endovascular treatment - 469, 550
 Ependymoma - 158
 Epidermoid lesion - 763
 Epidural - 263, 1005
 Epidural fibrosis - 111, 954
 Epilepsy - 479
 Etanercept - 111
 Etiology - 589
 Etoposide - 13, 853
 Evoked potentials - 204
 Experiment - 740
 Experimental - 142
 Extracranial-intracranial bypass - 394
 Eye - 691
 Facet-sparing - 610
 Failed back surgery - 111
 Female rat - 479
 Fetus - 783
 Fiber tracking - 934
 Fixation - 416, 843
 Flow diverter - 550
 Focal cerebral ischemia - 571
 Foramen transversarium - 557
 Fourth ventricular surgery - 523
 Fracture - 416
 Frame-based stereotaxy - 296
 Full outline of unresponsiveness score - 248
 Geriatrics - 226
 Glasgow coma score - 248
 Glioblastoma - 7, 13, 853
 Glioblastoma multiforme - 19
 Glioma - 538, 989
 Glucose-regulated protein - 78 - 538
 Google Glass - 682
 Guideline - 410
 Guideline introduction - 410
 Gunshot injury - 820
 Hardware - 929
 Healing - 654
 Hemangioma - 811
 Hemodynamic - 805
 Hemorrhage - 137
 Hemorrhagic complication - 544
 Hinged screw - 756
 Histopathology - 19, 625
 hsa-miR-1207-5p - 179
 hsa-miR-208a-3p - 179
 Human derived neural progenitor cell - 571
 Hungary - 410
 Hydrocephalus - 137, 142, 226, 303, 317, 663
 Hypophysis - 915
 Hypothermia - 703
 Hypoxia-inducible factor-1 α - 241
 Iatrogenic - 675
 Iatrogenic injury - 72
 Iatrogenic vascular injury - 469
 IL-6 - 625
 Image fusion - 483
 Image-guided - 682
 Immune system - 630
 Immunohistochemistry - 174
 Immunomodulatory - 696
 Implant - 630, 904
 Indocyanine green - 970
 Infection - 929
 Infection rate - 904
 Injury - 474, 654
 Insert-and-rotate technique - 462
 Instrumentation - 799
 Intensive care unit - 248
 Interbody fusion - 731
 Interlaminar - 716
 Internal capsule - 934
 Intervertebral disc degeneration - 447
 Intracerebral hemorrhage - 241, 389, 511
 Intracranial - 1, 563
 Intracranial pressure - 703
 Intractable thrombocytopenia - 400
 Intradural extramedullary tumor - 158
 Intralaminar screw - 995
 Intramuscular injection - 474
 Intraoperative angiography - 149
 Intraoperative imaging - 149
 Intraoperative monitoring - 204, 296
 Intraoperative neuromonitoring - 428
 Intraventricular - 137
 Invasive - 530
 Ion channel - 421
 Ion concentration - 421
 Ipsilateral approach - 610
 Iran - 394
 Irrigation - 748, 904
 Isocitrate dehydrogenase 1 - 7
 Isthmic spondylolisthesis - 462
 Klingler's method - 934
 Kyphosis - 439
 L5/S1 level - 923
 Laminar screw - 723
 Laminectomy - 111, 616
 Laminoplasty - 152, 257

- Ligamentum flavum - 678, 716
 Light reflex - 48
 Logistic regression analysis - 167
 Lordosis - 257
 Low back pain - 434
 Lumbar degenerative disc disease - 731
 Lumbar degenerative disease - 756
 Lumbar disc herniation - 716, 923
 Lumbar spinal stenosis - 792
 Lumboperitoneal shunt - 62
 Lumbosacral - 1005
 Lumbosacral spine degenerative disease - 454
 Machine learning - 167
 Macroprolactinoma - 826
 Magnetic resonance imaging - 405, 689, 792
 Magnetic resonance myelography - 792
 Malignant peripheral nerve sheath tumor - 317
 Malignant peripheral nerve sheath tumor - 983
 Management - 483, 929
 MAPK signaling pathway - 179
 Matrix metalloproteinase-1 - 447
 Matrix metalloproteinase-3 - 447
 Medial head of triceps brachii muscle - 949
 Medical anthropology - 490
 Medical ethics - 490
 Medicine - 307
 Medulloblastoma - 179
 Meningioma - 1, 910, 979
 Mesenchymal stem cell - 654, 696
 Meta-analysis - 389
 Microdiscectomy - 263
 microRNA - 530
 Microscopic transsphenoidal surgery - 915
 Microsurgery - 174
 Microvascular anastomosis - 56
 Microvascular decompression - 88
 Minimal invasive procedure - 329
 Minimalism - 307
 Minimally invasive spine surgery - 454
 Minimally invasive surgery - 428
 Miniplate - 158
 Mobile health - 866
 Modified frailty index - 897
 Modified Jaslow technique - 462
 Morbidity - 186
 Morphometry - 270
 Mortality - 589
 Motor evoked potentials - 341
 Mouse derived neural progenitor cell - 571
 Moyamoya disease - 394
 Multi-level fusion operation - 99
 Multi-segment - 439
 Multi-segment spinal cord compression - 152
 Multimodality - 204
 Multiple intracranial aneurysms - 43
 Mutation - 7
 Myelomeningocele - 303
 Myelopathy - 689
 National Surgical Quality Improvement Program - 597
 Neck remnant - 970
 Neonate - 137, 303
 Nerve conductive velocity - 654
 Nerve grafting - 636
 Nerve injury - 288
 Nerve transfer - 636
 Nestin - 910
 Neural network - 167
 Neural progenitor cell - 571
 Neuroendoscopy - 137, 329
 Neurological deficit - 275
 Neurological outcome - 79
 Neurological symptom - 219, 275
 Neuronavigation - 682
 Neuropathic pain - 288
 Neuroprotection - 858, 889
 Neuropsychological outcome - 369
 Neuroregeneration - 889
 Neurosurgery - 167, 248, 307, 589
 Neurosurgical oncology - 204
 Newborn rat - 142
 Non-invasive - 530
 Normal pressure hydrocephalus - 62
 Oblique lateral interbody fusion - 428
 Obstructive hydrocephalus - 500, 963
 Oleocanthal - 858
 Ossification of ligamentum flavum - 616
 Osteopontin - 954
 Outcome - 36, 88
 Oxidative stress - 740
 Papaverine - 479
 Parenchymal pressure - 142
 Parkinson's disease - 296
 Patency - 56
 Pathology - 1
 Pedicle screw - 152, 866
 Pedicle screw fixation - 454
 Penetrating head injury - 820
 Penicillin - 479
 Percutaneous endoscopic interlaminar discectomy - 923
 Percutaneous surgery - 454
 Perfusion - 405
 Perianeurysmal bone - 805
 Perihematoma edema - 511
 Perimedullary - 118
 Perioperative technical complication - 483
 Peripheral nerve - 654
 Peripheral nerve injury - 740
 Pineal gland - 29
 Pituitary adenoma - 364, 530, 915
 Pituitary apoplexy - 323
 Planning station - 483
 Platelet transfusion - 400
 Polymorphism - 447
 Polysomnography - 364
 Posterior cervical stabilization - 723
 Posterior cervicothoracic stabilization - 723
 Posterior fossa tumor - 523
 Posterior surgery - 799
 Postoperative meningitis - 589
 Posttraumatic cerebral infarction - 582
 Predictive factor - 118
 Primary - 7
 Primary intracranial germinoma - 29
 Primitive neuroectodermal tumor - 1005
 Proanthocyanidin - 667
 Prognosis - 511
 Prognostic factor - 983
 Propofol - 341
 Pseudoaneurysm - 820
 Pupil diameter - 48
 Quetiapine - 105
 Radiculopathy - 263
 Radiological imaging - 557
 Radiotherapy - 29
 Range of motion - 257
 Rat - 56, 111
 Rats - 571, 645, 654, 667, 740
 Rebleeding - 1009
 Remifentanyl - 341
 Repair - 645
 Representation - 691
 Resection - 505
 Residual aneurysm - 970
 Resveratrol - 889
 Retrosigmoid approach - 356
 Revascularization - 394
 Rhomboid fossa - 768
 Rifampicin - 904
 Rosmarinus Officinalis - 853
 Rupture - 675
 Ruptured aneurysm - 839
 Scalp swelling - 940
 Scalpel - 689

- Sciatic nerve - 474, 645
 Sciatic nerve injury - 128
 SCL-90-R - 434
 Scoliosis surgery - 799
 Screw - 602
 Screw malposition - 723
 Secondary - 7
 Secondary damage - 105
 Seizure - 389
 Shunt - 226
 Shunt failure - 500
 Shunt infection - 303
 Shunt malfunction - 303
 Shunt-dependent hydrocephalus - 36
 Sigmoid sinus - 356
 Simpson grade - 979
 Simulation - 421
 Sinonasal complication - 915
 Skull base - 193
 Skull fracture - 940
 Skull X-ray - 940
 Sleep - 364
 Smartphone - 349, 866
 Somatization - 434
 Somatotroph adenoma - 826
 Sox2 - 910
 Spinal arteriovenous fistula - 118
 Spinal cord compression - 678
 Spinal cord injury - 105, 234, 625, 889
 Spinal deformity - 597
 Spinal dural arteriovenous fistula - 149
 Spinal dysraphism - 811
 Spinal intradural tumor - 317
 Spinal stenosis - 610
 Spinal surgery - 469
 Spinal trauma - 282
 Spinal tuberculosis - 275
 Spine - 866, 904
 Spine - 983
 Stainless steel - 630
 Stem cell therapy - 19
 Stent - 43
 Stent-assisted coiling - 544
 Stenting - 550
 Stereotactic frame - 483
 Stereotactic localizer - 483
 Stereotactic radiosurgery - 1
 Steroid injection - 263
 Stress - 805
 Styloid process - 219
 Subarachnoid hemorrhage - 48, 211, 226, 369, 1009
 Subarachnoidal hemorrhage - 667
 Subaxial cervical spine fracture - 152
 Suboccipital decompression - 710
 Subthalamic nucleus - 296
 Superficial temporal artery - 820
 Superior cervical ganglia - 48
 Support vector machine - 167
 Suprasellar region - 29
 Surgery - 288, 439, 776
 Surgical outcome - 763
 Surgical site infection - 597, 882
 Surgical technique - 843
 Sympathetic innervation - 48
 Synangiosis - 394
 Syringomyelia - 689
 Target gene - 179
 Telovelar approach - 523
 Temozolomide - 13, 826
 Tethered Cord Syndrome - 67
 Thioredoxin reductase 1 - 7
 Third A2 - 839
 Thoracic myelopathy - 616
 Thoracic spine - 616
 Thoracic tuberculosis - 439
 Thoracolumbar burst fracture - 94
 Thoracolumbar injury - 94
 Thoracolumbar injury classification and severity score - 94
 Three-column osteotomy - 597
 Three-dimensional sliced computed tomography reconstruction - 356
 Titanium - 630
 TLICS system - 282
 TNF- α - 625
 TOF-MRA - 563
 Training - 56
 Training program - 329
 Tramadol - 288
 Transarticular screw - 270
 Transclival route - 505
 Transferrin receptor - 538
 Transforaminal - 263
 Transforaminal endoscopic discectomy - 716
 Transforaminal lumbar interbody fusion - 454, 462
 Transverse sinus - 356
 Traumatic aneurysm - 820
 Traumatic brain injury - 410, 582, 696, 703, 858
 Triangular vertebral canal shape - 792
 Trigeminal neuralgia - 88
 Tropheryma whippelii - 495
 TUNEL - 889
 Ulnar nerve - 949
 Umbilical cord - 696
 Unilateral fixation - 731
 Univariate analysis - 983
 Untethering - 67
 V1 receptor antagonist - 211
 Vasospasm - 667
 VEGF - 954
 Ventral midline - 193
 Ventral spinal - 979
 Ventriculoatrial shunt - 663
 Ventriculostomy - 544
 Vertebro-basilar system - 768
 Video-streaming - 682
 Videoangiography - 149
 Visual system - 691
 Visualization - 349
 Whipple disease - 495
 White matter - 934
 Wnt signaling pathway - 179
 X-Ray - 349

