

M349 In vitro effect of peppermint (*Mentha piperita*) essential oil and non-fiber carbohydrates on gas production parameters of alfalfa hay. M. Danesh Mesgaran^{*1}, E. Jani², A. Vakili¹, A. Solaimany², and H. Jahani-Azizabadi¹, ¹Dept. Animal Science, Ferdowsi University of Mashhad, Mashhad, Iran, ²Islamic Azad University, Kashmar, Iran.

The aim of this study was to evaluate the effect of peppermint essential oil (PE) and non-fiber carbohydrates (NFC) including sucrose (SUC) and starch (STA) on gas production parameters of alfalfa hay (AH). Treatments were AH, AH plus PE (40 and 80 μ L/g DM), AH supplemented with SUC or STA at 60 and 90 mg/g DM plus PE (0.0, 40 and 80 μ L/g DM). Approximately 0.3 g of each sample ($n = 4$) was placed into a 100 mL glass syringe containing 40 mL of buffered rumen fluid (buffer to rumen fluid was 2:1). Rumen fluid was obtained from 2 rumen cannulated sheep (body weight = 45.5 ± 2 kg) before the morning feeding and strained through 4 layers of cheesecloth. Animals were fed 1.5 kg DM alfalfa hay and 0.4 kg DM concentrate (165 g CP/kg DM) per head/day. Syringes were incubated at 39°C and the volume of gas produced were recorded at 2, 4, 8, 12, 24, 36, 48, 72 and 96 h. Data were fitted to an exponential equation of $P = b(1 - e^{-ct})$, where b is the volume of gas produced, c is the fractional rate constant of gas production (/h), t is the incubation time (h) and P is the volume of gas produced at time t . The gas production parameters of the supplemented samples were compared with AH as control using Dunnett's test at $P < 0.05$. The parameters for AH were $b = 72$ mL and $c = 0.07$ /h. Supplementation of AH with PE reduced the volume of gas produced, however, peppermint essential oil caused to reduce ($P < 0.05$) the volume of gas produced from the samples of AH supplemented with the NFC sources. The rate constant of gas produced (c) from AH was significantly ($P < 0.05$) increased by the adding of the NFC and PE (except PE as 80 μ L/g DM, which had no significant effect on c). The fractional rate constant was significantly increased when PE as 40 μ L/g DM was added to the AH supplemented with the SUC and STA (0.13 and 0.10, respectively). However, at 80 μ L/g DM of PE, c was significantly decreased ($P < 0.05$) for those treatments (0.06 and 0.05, respectively). It was concluded that PE at the both applied rates had a potential to alter the fermentability of AH and AH supplemented with the NFC sources.

Key Words: essential oil, gas production, peppermint

M350 Effect of fennel (*Foeniculum vulgare*) essential oil on in vitro gas production parameters of alfalfa hay supplemented with sucrose or starch. M. Danesh Mesgaran^{*1}, E. Jani², A. Vakili¹, H. Jahani-Azizabadi¹, and A. Solaimany², ¹Dept. Animal Science, Ferdowsi University of Mashhad, Mashhad, Iran, ²Islamic Azad University, Kashmar, Iran.

The aim of the present study was to evaluate the effect of fennel essential oil (FE) on gas production parameters of alfalfa hay (AH) and AH supplemented with sucrose (SUC) or starch (STA). Treatments were AH, AH plus FE (40 and 80 μ L/g DM), AH supplemented with SUC or STA at 60 and 90 mg/g DM plus FE (0.0, 40 and 80 μ L/g DM). Approximately 0.3 g of each sample were placed in a 100 mL glass syringe containing 40 mL of buffered rumen fluid as 2: 1 ($n = 4$). Rumen fluid was obtained from 2 rumen cannulated sheep (body weight = 45.5 ± 2 kg) before the morning feeding and immediately strained through 4 layers of cheesecloth. Animals were fed 1.5 kg DM alfalfa hay and 0.4 kg DM concentrate (165 g CP/kg DM) per head per day. Syringes were incubated at 39°C and the volume of gas produced were recorded at 2, 4, 8, 12, 24, 36, 48, 72 and 96 h. Statistical analysis was conducted using SAS (1999) procedure. The gas production data were fitted to an exponential equation of $P = b(1 - e^{-ct})$, where b is the volume of gas produced, c is the fractional rate constant of gas production (/h), t is the

incubation time (h) and P is the volume of gas produced at time t . The gas production parameters of the supplemented samples were compared with AH as control using Dunnett's test at $P < 0.05$. Supplementation of AH with FE, at both rates applied, reduced the volume of gas produced ($P < 0.05$; 72, 52 and 54 mL/0.3 g DM, respectively), but increased the fractional rate constant of gas production ($P < 0.05$; 0.07, 0.12 and 0.10, respectively). In addition, FE particularly as 40 μ L/g DM, reduced ($P < 0.05$) the volume of gas produced from the AH samples supplemented with both SUC and STA. The rate constant of gas produced (c) from AH supplemented with SUC and STA at both levels (0.09 and 0.08/h, respectively) was increased ($P < 0.05$) by the adding of FE as 40 and 80 μ L/g DM (0.13 and 0.09/h, respectively). It might be concluded that FE, as 40 or 80 μ L/g, caused an alteration in the fermentation potential of AH alone or supplemented with the NFC sources used.

Key Words: essential oil, gas production, fennel

M351 Effect of individual and mixed natural tree extracts on in vitro ruminal fermentation profiles in sheep. F. S. Jiménez-Peralta¹, A. Z. M. Salem^{*1,4}, H. Ammar², M. Ronquío³, and P. B. Albarrán¹, ¹Autónoma del Estado de México, Centro Universitario UAEM-Temascaltepec, Estado de México, C.P. 51300, México, ²Ecole Supérieure d'Agriculture de Mograne, Zaghuan, 1121 Mograne, Tunisia, ³Universidad Autónoma del Estado de México, Facultad de veterinaria, Toluca, Mexico, ⁴Alexandria University, Department of Animal Production, Faculty of Agriculture (El-Shatby), Egypt.

Extracts of 2 tree leaves species [*Salix babilónica* (SB) and *Leucaena leucocephala* (LL)] and their mixture (SBLL, 1:1, v/v) rich in secondary metabolites (ESM, 10 g DM/80 mL of solvent), were in vitro evaluated on ruminal fermentation pattern in 4 levels of 0, 0.6, 1.2, and 1.8 mL extract/g DM of TMR (50:50 forage:concentrate diet). Animals used for the extraction of rumen liquid (RL) for the in vitro incubations were allocated into 2 experimental groups (8 animals/group): control (CG) and treated (TG) group. Animals of CG were fed daily on TMR, while those of TG were fed on the same TMR and drenched a daily oral dose of SBLL (30mL/animal) for 60 d. Concentrations of secondary metabolites (SM) in terms of total phenolics (TP), saponins (SAP) and aqueous fraction (AF, lectins, polypeptides and starch) were examined in each tree extract and gas production was recorded at different incubation times (2, 4, 6, 8, 10, 12, 24, 48 and 72 h) of TMR with different extracts levels. Short chain fatty acids (SCFA), in vitro organic matter degradability (IVD) and metabolizable energy (ME) were estimated. As compared with SB, extracts of LL had higher TP, SAP and AF (i.e., 24, 14 and 116 versus 15, 6 and 74 g/kg DM, respectively). For both animal groups, increasing the extracts dose until 1.8mL/g DM improved ($P < 0.05$) the ruminal fermentation activities of TMR with increasing the extracts dose until 1.8mL/g DM in either TG or CG, probably due to a higher extracts -soluble sugars. However, higher fermentation activities were observed in SB than LL and SBLL extracts. Ruminal fermentative activities of TMR were reduced by more than 50% in TG versus to CG during all the incubation times, except the first 2 h. In conclusion, administration of SBLL during 60 d to animals did not enhance the ruminal fermentation activities of TMR in sheep. Individual extracts-rich in secondary metabolites at 1.8mL/g DM, in particular SB extracts, had the most potential on ruminal microorganism's activities and may serve as an alternate to antibiotics and ionophores as a growth promoter of weaned lambs.

Key Words: extracts, secondary metabolites, in vitro fermentation, sheep

Author Index

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- A**
- Aalhus, J. L., M158, W146
Aami Azghadi, M., M252, T201
Aaron, D. K., 755
Abade, C. C., W273, 488
Abanikannda, O. T. F., M310
Abass, R., T237
Abbott, L. B., T131
Abdalla, A. L., M364, M366, T380
Abdallh, M. E. B., W319
Abdelhadi, L. O., M107
Abdellrazeq, G. S., M59, M62, T155
Abdelqader, M. M., 1140
Abdelrahim, G., 893
Abdi Ghezeljeh, E., W404
Abdullah, M., 744, 796, 1100
Abedini, A., T280
Abi-Ghanem, D., M139, M305
Abrams, S., 417
Abreu, D. C., M410
Abreu, F. M., 847
Abreu, L. R., T83, T84
AbuGhazaleh, A A, M99, W65, W415
Acciaro, M., M376
Acetoze, G., W356
Ackell, E., T144
Acosta Aragón, Y., 818
Adame-López, L. A., W338
Adams, A. L., 419, 862, 906
Adams, D. C., 853, 1037
Adams, D. J., T144
Adams, L. G., 59
Adams, N. J., M117
Adaska, J. M., 275
Addah, W., 1032
Adebiyi, O. A., M254, 985
Adedokun, S. A., 515
Adejinmi, O. O., W189
Adell, N., 1019
Adeola, L., M218
Adeola, O., M209, T197, 352, 515
Aderiye, A., 504
Adesogan, A. T., T384, W117, W133, 96, 454, 1142
Adeyemo, G. O., M206
Adrien, M. L., T259
Adrizal, A., 189
Adrizal, W321
Adu, O. A., M254, 505
Afanador, G., M227, M238, M239, M241, T135, T244, W260, W394
Afanador-Téllez, G., M276, T240, T245, W67
Afolabi, K. D., 505
Afzal, M., T357
Aggrey, S. E., T42, 613
Aghaziarati, N., W430
Aghel, H., W262
Agostinho Neto, L. R. D., M415
Agostini, P. S., T2
Aguerre, M. J., T427, T428, W331
Aguiar, A. D., M127, M432
Aguiar, E. F., M421
Aguiar, V. F., 440
Aguilar, A. S., M94
Aguilar, I., W25, 612, 613, 614, 616
Aguilera, J. F., W106, W222
Aguilera, J. I., M94
Aguilera-Soto, J. I., M470, T32, T324, W440
Aguirre-Robert, C. J., T114
Ahadi, A. H., W42
Ahamdzadeh, A., T271
Ahmad, I., 173
Ahmad, S., 589, 1062
Ahmadi, H., M204
Ahmadzadeh, A., T268, 171, 482
Ahmed, M. F., T357
Ahmed, Y., M24
Ahn, D. U., 673, 674
Ahn, Y. T., W51
Aholá, J. K., 1008, 1009
Ahvenjärvi, S., M451, 561
Aiken, G. E., M121
Aines, G. E., T415
Ajmone-Marsan, P., M82, 615
Ajuwon, K. M., 515
Akbar, T., T237
Akbari, M. K., T304
Akbarian, A., T413, T443
Akbarian, A., T442
Akdemir, F., 976
Akinfemi, A., M254
Akins, M. S., M201, T297, W427
Akpınar-Bayizit, A., W77
Al Ibrahim, R. M., T369, 1137
Alarcón-Zúñiga, B., M441, T114
Albanell, E., 725, 885
Albano, A. P. N., 358
Albarrán, B., T132, T464
Albarrán, P. B., M351
Albin, D. M., M67
Albino, L. F. T., M212, M268, 140
Albino, L. F., M211, M214
Albuquerque, L. G., M77
Albuquerque, R., M225
Aldai, N., M158
Aldrich, J. M., T353, 396, 398, 400
Aldridge, B. E., 834
Aleem, M., 994
Alempour, M., 1074, 1075
Alencar, M. M., M83, W347, W348
Alexander, B. M., M330, 408, 1015
Alexander, D., T94
Alexander, L. J., M75, 852, 923
Alexander, L. S., W234, W265
Alexander, M., 945, 948
Alexander, T. W., M306
Alfonso, L., W460, W466, W467
Ali, M. A., 796
Ali, R., M137
Ali, Z., 374
Aliani, M., M257
Alijani, S., T49, T50, T51
Alikhani, M., 875
Alinovi, C. A., M70
Aljaloud, S. O., W66
Aljamal, A. A., W229
Allard, G., W137
Allen, A. J., M59, M62, T155
Allen, E., W129

Allen, J. D., 28
 Allen, K. D., 835
 Allen, M. D., W72
 Allen, M. S., M391, M408, M430, T395, 1055
 Allen, R. E., 477
 Allen, V. G., 633
 Alleoni, G. F., M170
 Almaraz-Buendía, I., M441
 Almeida, F. N., T222, 1105
 Almeida, R., M11, M12, T317, T417
 Alonso-Díaz, M., W10
 Alphin, R. L., 86, 601
 Al-Rammahi, M., 689
 Al-Rubaye, A. A., T44
 Altmark, G., W399
 Alvarado Parameño, J. F., T122
 Alvarado, C. Z., M226, 376
 Alvarez, E. G., W389
 Álvarez-Sánchez, M. E., T127
 Álvarez-Valenzuela, F. D., M325, M326
 Alves, A. T. S., 794
 Alves, D. D., T26
 Alvino, G., 258
 Aly, S. S., 275, 276
 Amador-Solano, F., T129
 Amamcharla, J. K., T87
 Amamcharla, J., M181, M182, M183, T73, 790
 Amanlou, H., M33, M35, T320, M373, M374, M375, W430, W438, W439, 876, 877, 1053
 Amaral, R. C., M409, M418
 Amaya, G., M471
 Ambrose, D. J., 1079
 Ambrosek, R., M118
 Ameilbonne, A., M388
 Améndola-Massiotti, R. D., T127
 Amer, S., 814, 815
 Ametaj, B. N., T391, T392, W1, W2, W3, W4, W5, 1079
 Am-in, N., W271
 Amini, J., M353
 Ammar, H., M351, M352, M354, M420
 Amonsin, A., M65
 Amornthewaphat, N., M250, 507
 Amstalden, M., 997
 An, J., 255
 An, S. Y., T141
 Anais, C., 493
 Anand, S., M189, W57, 133
 Andersen, P. H., 749, 1147,
 Anderson, C. E., W293
 Anderson, D., 867, 964
 Anderson, D. B., T3
 Anderson, D. M., 1114
 Anderson, D. P., 576
 Anderson, E. M., 370
 Anderson, G. W., W91
 Anderson, J., W111
 Anderson, J. E., 222
 Anderson, J. L., M386
 Anderson, K. E., M317, 377, 1092, 1094
 Anderson, K. L., M198
 Anderson, N. G., 392
 Anderson, R. C., W103, 1029, 1088
 Anderson, R. J., 275, 276
 Anderson, R., 450
 Anderson, S. M., 315
 Anderson, V. L., 1036
 Anderson, W.F., W117
 Andrade, E. H. P., T85, W43, W71
 Andrade, E. M. S. R., M248
 Andrade, E. N., M17
 Andrade, F. L., M410
 Andrade, V. J., W303, W304
 Andreasen, C. B., 271
 Andries, K., 404
 Anele, U. Y., W118, 459
 Angadi, S. V., M109, M110
 Angel, C. R., W321
 Angel, J. C. C., W407
 Angel, R., M134, M221, T206, W203, W319, 158, 541, 544, 545
 Angeles, M. L., T187, 1110
 Angolini, W. A., M419
 Angosto, A., W294
 Anguita, M., M98
 Angulo-Montoya, C., M345
 Anil Kumar, P., W245
 Anil, L., M333, M334, W465, 868, 1014
 Anil, S. S., M333, M334, W465, 762, 764, 868, 1014, 1066
 Ansari, M., T277, T278
 Ansari, S. U., 806
 Anthony, N. B., T42, T43, T44, W296
 Antonacci, L., M427, 874
 Antunes, A. E. C., 954
 Antunes, M. M., M299
 Ao, T., T190, T233, W202, W227, 672, 1111
 Ao, X., M260, T216, T220, W211
 Aono, F., T267
 Aparicio, M., M50, M335
 Apple, J., M168, M169
 Appleby, M., 1026
 Applegate, T., 541, 600, W8, 265
 Applegate, T. J., M220, T148, W319, 309, 350, 544, 545
 Appuhamy, J. A. D. R. N., T261, W297, W298, 664, 1054
 Arab, A., T304, W38
 Aragon, F., W277, W278
 Araiza, A., M234
 Araiza, A. B., M233
 Arana, M., M390, T385
 Aranda-Osorio, G., M150, M151
 Arango, J., W256
 Arante, R. M. E., W53
 Araujo, C. S. S., M225, W268
 Araujo, D. B., W301, 850
 Araujo, L. C., W138
 Araujo, L. F., M225, W268
 Araujo, R. C., M364, M366, T380, W370
 Araujo-Febres, O., W191
 Arbona, D. V., 256, 367, 368
 Arce, J., 1104
 Archer, G., 258
 Archer, G. S., T12, 581, 583, 584
 Archibeque, S. L., M265, 736
 Archile, A. C., T171, T172, 319
 Arcidiacano, S., 975
 Ardalan, M., T45, W33, W34, W40, W41, W437, 879, 1143
 Arechiga, C.F., M94, M470, T32, T322, T324, T467, W440
 Ares, M. S., 165
 Arevalo, L. M., W333
 Argüello, A., T72
 Arias, R. P., W353
 Arief, M372
 Arieli, A., M282, T365, W399
 Arif, M., 806
 Arigbede, O. M., W118, 459
 Arija, I., M251, M274
 Ariyakumar, D. S., 58
 Ariza-Nieto, C., M227, M238, M239, M241, M276, T135, T240, T244, T245, W67, W260, W394
 Armendariz, J., 1138
 Armentano, L. E., 1146
 Armien, A., 58
 Arndt, C., W327
 Arneiro, L., W177
 Arnold, E. T., W197
 Arnold, K. D., 536
 Arnould, V. M.-R., 784, 785
 Arora, D., 357
 Arora, K. L., T147
 Arrigoni, M., M355, M356
 Arrigoni, M. D. B., T28, T29, T30, W378, W379, W380, W381, W387
 Arriola, K. G., W133
 Arriola, S., W419
 Arroquy, J. I., W388
 Arroyo, I., W294

Arshami, J., T234
Arsi, K., 444, 540
Artegoitia, V., T259
Arthington, J. D., M1, M281, W301, 850
Aryana, K., T94, W60, W61, W62, W63
Arzola, A., W108
Arzola, C., M112, M113
Arzola-Alvarez, C., M345
Aschenbach, J. R., 1144
Asgari, M., M34
Asghari, M. R., W38
Ashraf, E., 806
Ashraf, K., 173
Ashraf, S., 173
Ashwell, C. M., 158, 646, 648
Ashwell, M. S., 519, 520
Askari Rankouhi, S., T13, W6
Aslami Nezhad, A. A., W36
Assis, F. B., W135, W136
Astessiano, A.L, M292, T290, T291, W147
Ata, A., M244, M283, T62, T63, T64, T65
Ata, M. A., M120
Atif, F. A., 806
Atkinson, R. L., W346, W382
Attaie, R., T96
Attamangkune, S., M250, 507, 516
Atwell, C., 46, 970,
Atzori, A. S., M395, W447, 724
Austin, K. J., T52, T286, 30, 31
Autran, C. A., 482
Avadhanula, M., M189, W57
Avelar, E., M233
Avellaneda, Y., M227, M239, M241, W260, W394
Avellaneda-Cevallos, J. H., W107
Avenidaño, L., T53
Avenidaño-Reyes, L., M87, M325, M326, T32
Avila, E., M272
Avila, M., W388
Avila, V. S., W295
Avilés, F., T448, T449
Avki, S., T65
Awad, M. M., 989
Awad, S, W45
Ayadi, M., T329
Ayangbile, G., M67, W115
Ayres, H., W281
Ayyash, M. M., 791
Azain, M. J., W469, 149, 676, 1123
Azevedo, M., M20
Azimi, J., W22, 1078
Azzaro, G., 860

B

Baah, J., 1032
Babaei, S., W37
Babar, M. E., 1100
Babinszky, L., T202, T230
Babu, U., 650
Bach Knudsen, K. E., 2, 511
Bach, A., M4, M10, M473, T312, T313, T352, T354, 399, 550, 640, 733, 1038, 1122
Bach, G. S. G., T138
Bäckman, K., 719
Badarina, I., 1103
Badinga, L, W400
Badiola, I., M232
Badtram, G., 416
Bagnell, C. A., 917
Bahie El-Deen, M., M313
Bahrami, H., T302
Bahreini, M., T277, T278
Bahri, F, 528
Baidoo, S. K., M333, M334, W465, 868, 762, 764, 1014
Bailey, C. A., 690
Bailey, C. C., 18
Bailey, D. W., 18, 21, 913
Bailey, E. A., 380
Bailey, M. A., W334
Bailey, R., 417
Bailey, S., 495
Baird, A. N., W353
Baker, A., T250
Baker, K. N., W44
Baker, M. J., 1049
Bakhtiarizadeh, M. R., M202, W39
Bakker, J. A., 884
Bakst, M. R., 532
Balán, M., M423
Baldin, M., M453, T461
Baldin, S. R., T28, T29, T30, W378, W379, W380, W381, W387
Baldock, K. D., 484
Baldwin, C., M141, T20, 650
Baldwin, R. L., W148
Baldwin, T. J., 263
Balestrin, D. C., M415
Balic, A., M244, T63, T64
Ball, R. O., 760
Ballard, C. S., M68, M393, M429, 216, 218
Ballou, M. A., M28, M31, T15, , T154, T156, T337, 124, 390, 1060
Bals, B. D., M430
Bambou, J. C., M338
Bannantine, J., 63
Bannantine, J. P., M59, M60, M61, M63, 58, 62
Bannink, A., 428
Banskalieva, V., T175
Banta, J. P., 851
Bañuelos, J. J., W226
Bao, H., W225
Bao, Y., T99
Barajas, R., W313, W384
Barb, C. R., T255, W469, 711, 1123
Barbano, D. M., M175, 301, 302, 303, 1128
Barbey, S., M146
Barbosa, F. A., M410, W303, W304, W305, W377
Barbosa, L. C. G. S., W268
Barbosa, M., M277
Barbosa, N. A., 337, 656
Barboza, P. B., 567
Barbut, S., 968
Bárcena-Gama, R., M441
Barducci, R. S., T28, T29, T30, W378, W379, W380, W381, W387
Barham, B., M168, M169
Barichello, F., M83
Baril, G., 535
Barioni, L. G., 75
Barioni, W., Jr, W139
Barkema, H. W., M51
Barkley, K. L., 912
Barling, K., 591
Barlow, B., T450
Barlow, J. S., W124
Barneix, W. R., M107
Barnes, J., T252
Barnes, K. M., 149
Barragan-Gonzalez, H., M150
Barrau, D., M368
Barreda, D. R., M309
Barrera, M. A., M233, M234
Barreto, C., M355, M356
Barrett, B. A., 816
Barrientos, A. K., M3
Barrios, M. A., W252, W325, 500
Barros Filho, I. R., T317
Barros, L. F., W375
Barta, J. R., W217, 538
Bartol, F. F., 917
Barton, G. M., 603
Barton, J. T., 89
Baruselli, P. S., W281
Bas, S., W82
Basami, M. R., T234
Basarab, J., M26, M431, W146, 919
Bascuñana, M., W294

- Bashtani, M., M229, M255, M458, T142, W35, W38
 Basso, F. C., T123, W126, W135, W136
 Bastin, C., 931
 Bastos, J. P. S. T., T28, W379, W380, W381, W387
 Basurto-Gutiérrez, R., W338
 Batal, A. B., 151, 155, 338, 670, 687
 Batchelor, D., 689, 1120
 Batchelor, D. J., W204
 Bateman, H. G., II, T353, 396, 398, 400
 Batistel, F., M453
 Battacone, G., M344, M376, W459, 324
 Bauck, S. W., 788
 Bauck, S., W26, 71, 249
 Bauer, L. L., T58
 Bauman, D. E., 959, 961
 Baumgard, L. H., T314, T327, 1126, 1127
 Baum-Lane, C., M445
 Bautista-Ortega, J., 363
 Bayeri Yar, M., T49, T50, T51
 Bayourthe, C., M436, 750
 Bazer, F. W., 7
 Beaman, K. R., W267, 331, 346, 340
 Bean, S., 500
 Bear, D. A., W316, W317, 92, 634
 Beauchemin, K. A., M16, M158, M405, T361, T366, W344, 199, 727, 1136, 1139
 Beaudry, D., W405
 Beaver, J., W112
 Bechtel, P. J., T58
 Bechtel, R. E., W86
 Beck, M. M., T10, 229
 Beck, P., 100
 Beck, P. A., M168, M169
 Becker, J. C., 930
 Becker, K., 869
 Bedford, M., M132
 Bedford, M. R., 1108, 1109
 Bee, G., T177, T178
 Beede, D. K., 209
 Beegle, D., W322
 Beers, K. L., W98
 Behling, L. R., T396
 Behrends, J., T451, 1090
 Beiki, H., T37
 Beitz, D. C., 665
 Bejaei, M., W190
 Beker, A., 342
 Bélanger, G., M392, W137
 Beliciu, C., M188
 Beliveau, R. M., 728
 Belk, K. E., 20
 Bello, A., 362
 Bello, N. M., 720
 Beltman, M. E., T369
 Beltranena, E., 677, 678
 Beltran-Prieto, L. V., T274
 Belvedere, G., M100, T76, 307, 797
 Ben Khedim, M., 885
 Ben M'Rad, M., T329
 Ben Younes, R., T329, 860
 Benahmed, F. H., M444
 Bench, C., M26
 Benchaar, C., M357, M358, T373, W405, W435
 Benes, S. E., W312
 Ben-Ghedalia, D., M382
 Bennett, C., 260
 Bennett, D. C., 147
 Bennett, G. J., 594
 Benoit, S. L. A., T402
 Benson, E. R., 86, 601
 Benson, M. E., 104, 1068
 Bentley, P. A., 476
 Bentley, R. A., T116
 Benton, J. R., 207, 208, 378
 Bequette, B. J., T402, 743
 Beraldin, F., M96, M97
 Beranger, J., W179
 Berardinelli, J. G., 23, 25, 530, 856
 Berchielli, T. T., M152, W336
 Berchieri, A., Jr., M102
 Berg, E. L., M294
 Berg, E. P., M294, 642
 Berg, P. T., 8
 Berger, L. L., 729, 787
 Berger, Y. M., 406
 Bergeron, R., W140, 940
 Berghman, L., M305
 Berghman, L. R., M139, 419
 Bergstrom, J. R., 701
 Berhow, M., 690
 Bernal, H., M234
 Bernal-Barragán, H., T113, T120, T192, T453, W188, W444, W450
 Bernal-Santos, G., 961
 Bernard, J. K., W124, 722, 1133
 Bernardes, T. F., W126, W135, W136
 Bernhard, B. C., 114
 Berri, C., 479
 Berrococo, J. D., T181, W258
 Berry, D., 799
 Berry, E. D., W102
 Berry, E. M., 25, 530
 Berry, J., 845
 Berry, W. D., T287, 364, 810
 Bertechini, A. G., T199, T213
 Berthiaume, R., M96, M97, M392, T34, W137, W140, 453, 456, 815
 Bertics, S. J., M201, T297, W427
 Bertoni, G., M302
 Bertram, M. G., M124
 Bertrand, A., M392, W137
 Bertrand, J. K., M84
 Besser, T. E., M45
 Betancourt, L., M276, T240, T245, W67
 Betancourt, L. L., W320
 Betti, M., T183, T184
 Beukes, P., T315
 Bewley, J., W32, W88, W96, 87, 242, 248
 Beyer, R.S., W252, W325, 500
 Bezdicek, J., T166, W27
 Bhandari, S., T228, W214, W216
 Bhatti, J. A., 1100
 Bhatti, S. A., T357
 Biagi, G., W132
 Bianchi, I., M299
 Bible, M., 1112
 Bidner, T. D., 144
 Bier, L. P. P., T417
 Biggerstaff, J., 38
 Bignardi, A. B., M77
 Bilal, M. Q., 589, 1062
 Bilby, T. R., 997
 Bilgili, S. F., M312, T8, 178, 183
 Bindelle, J., 351
 Bing, J. Q., 228
 Bionaz, M., 468
 Bird, S. L., T264, 1043
 Bischoff, K., T265
 Bisinotto, R.S., T269, T434, W279, 390
 Bissell, H. A., 1061
 Bissonnette, G. K., 346
 Bissonnette, N., M144
 Biswas, A. C., M181, M189, W57
 Bitencourt, L. L., T381, T421, W421
 Bittar, C. M. M., T338, W122
 Bjelland, D. W., T346, 437
 Bjerre-Harpøth, V., T326
 Bjørn, T., M147
 Black, P. L., M289, 712
 Blackburn, H. D., 991
 Blake, J. P., 335, 810
 Blake, R. W., W187
 Blanco, M., M219
 Blasi, A. A., 244
 Blasi, D. A., 11
 Blatcher, C., W419
 Blatchford, R. A., 581
 Blevins, S. R., M126, 912
 Blikslager, A. T., 310
 Block, E., T409, T410, T411, 746, 881, 883
 Block, H. C., 855, 1031

Block, J., W335, 997, 1020
 Block, S., W16, W19
 Block, S. S., T327
 Blodgett, G., 124
 Bloemhof, S., 430
 Blome, R., M32, W11
 Blore, P. J., 440, 444, 540
 Blum, J. W., W26, 66
 Boaventura Neto, O., M13
 Bobe, G., 26
 Bobel, J., 830
 Bocourt, R., W108
 Bodas, R., M456
 Bodine, T. N., 203
 Bodnar, A. L., W431, W433
 Boe, R., M344, M472, 324
 Boeck, G., 818
 Boehmer, B. H., M154, T272, T296
 Boemo, L., 698
 Boermans, H. J., W217, W245
 Boggs, D. L., 896
 Bohn, J., M66
 Bohnert, D. W., T263, W351, 386, 389
 Boisclair, Y. R., M200, 959, 961
 Boivin, M., 563
 Bojarpour, M., M416
 Bojesen, A. M., 1097
 Bola, L. A., 256, 367, 368
 Bolaji, J. O., 459
 Boland, H. T., W311
 Bolarinwa, O. A., T197
 Boldaje, F., W402
 Bolden-Tiller, O. U., 580
 Boligon, A. A., M77
 Boling, J. A., W292, 559
 Bolt, B. G., T475
 Bolte, J. W., T265, 205, 380, 1005
 Bompadre, T. F. V., M13
 Bond, G. B., M11, M12
 Bond, J. P., 467
 Bongalhardo, D. C., 358
 Bonilla, L., 997
 Bonin, M. N., T167
 Bonnaillie, L. M., W73
 Bonner, N., T36
 Booker, S. L., T160
 Boomgaarden, T. A., T98
 Booth, J. R., W251
 Booth, N. J., M27
 Borbolla, A. G., W261
 Borda, E., M235
 Borgreen, M. J., 530
 Borhami, B. E., 895
 Børsting, C. F., W362
 Borucki Castro, S. I., M96, M97
 Borutova, R., W18
 Bose, R., 213
 Bosques, J., M89
 Boss, D., 856
 Boss, D. L., 21, 913
 Botelho, F. C. E., W377
 Botero, D., T245
 Böttger, C., W118
 Bottje, W. G., T143
 Boucher, S. E., T429, T430, 216, 218, 246
 Bourassa, D. V., 371, 445
 Boutinaud, M., M146
 Bouza, B., 334
 Bouzouagh, E., 1107
 Bowen, O. T., M135
 Bowers, S., W311
 Bowker, B. C., T170
 Bowman, B., 788
 Boyd, G., 867
 Boyd, J., 562, 1133
 Boyer, A. R., 402
 Bradford, B. J., T299, T394, W330, W420, 111, 529, 566, 726, 881, 1135
 Brady, H.A., 124
 Brady, J., 657
 Brady, J. A., W358
 Bragg, L. A., W89
 Brake, J., M137, 177, 700
 Brake, J. T., M245, 174, 187, 865
 Bramwell, R. K., T284, 191, 194, 195
 Brand, J., W204
 Brandon, J., 338
 Brandt, M., M400
 Brankovic, M., 1030
 Brannon, J., W221
 Branton, S. L., M54, T18
 Braun, T., 1117
 Bravo, D., M133, M268, M362, T375, W7, W216, 273, 466, 506, 654, 655, 689, 1017, 1120, 1018
 Bray, D. R., 722
 Bray, J., M139, 270
 Bregendahl, K., W256
 Breiner, C. A., T282
 Breiner, R. M., T282
 Bremer, V. R., 49, 204, 546
 Brenes, A., M251, M274, W294
 Brennan, K. M., T233, W202
 Brennan, M., 96
 Brethour, J. R., M21
 Brett, J., M195
 Brewer, V. B., 184, 329, 588
 Brewin, D. G., 855
 Bridges, G. A., 845, 849, 991
 Bridges, J. A., W87
 Briggs, R. E., 62
 Brigham, B. W., M47, M86, 30
 Brillard, J. P., 532
 Brink, G. E., T133
 Brito, A. F., M392, T34, 456
 Brito, J. A. G., T213
 Brito, M., W312
 Brito, V., M133, 345, 654, 655
 Britten, M., M190, W54, W74
 Broadbent, J., 131
 Broadbent, J. R., 134, 298
 Broadway, P. R., 1090
 Broderick, G. A., T424, 217
 Brooks, C. J., 376
 Brooks, F., 1052
 Brooks, J. C., 114
 Brooks, K., T103
 Brooks, M. A., M442
 Broomhead, J. N., 988
 Brothersen, C., 953
 Brouillette, J., W111
 Brouk, M. J., W330, 881, 1135
 Broussard, C., 342
 Brown, B., T207, 341
 Brown, C., 342
 Brown, C. P., 633
 Brown, D. E., 249
 Brown, D. L., W105
 Brown, E. G., T31
 Brown, K. L., T331
 Brown, K. R., M121, 559
 Brown, L. H., W120
 Brown, M., T175, 10
 Brown, M. A., M72, M73, 402, 403
 Brown, M. S., W340, W358, 1003
 Brown, W. F., 454
 Browne-Silva, J., T131, 10, 22
 Browning, R., Jr., 932
 Bruce, A. M., 118, 125
 Bruce, H. L., T186
 Bruckmaier, R. M., M426, W197
 Brumbaugh, W. B., T108
 Brummer, M., W173, W174, 457
 Bruno, D. F. R., T153
 Bruno, R. G. S., T153, W282, 486
 Bruschi, J. H., T461
 Bryan, M., M23
 Bryant, T. C., 554, 736
 Bu, D. P., M53, M93, M143, M439, T90, T374, T386, T388, T440, W78, W79, W80, W199, 871
 Buaphan, S., 547, 747
 Bubolz, J. W., 475
 Buchanan, J. W., W143
 Buckley, A., 120, 832
 Buckley, F., T414
 Buckmaster, D., W353

Buckner, C. D., 204, 1046
 Buddington, R.K., 292
 Budinich, Mateo, 131
 Buendía-Rodríguez, G., W338
 Buffington, D. E., 811
 Buhr, R., 447
 Buhr, R. J., 371, 442, 445
 Buller, B. G., T108
 Bun, S. D., 343
 Bundy, J. W., T16, T194
 Bünger, L., 432
 Buntinx, S. E., M413
 Buntyn, J. O., T21, 590, 771
 Burciaga-Robles, L. O., 49, 768, 769
 Burden, B. T., 755
 Burdick, N. C., 421, 524
 Burghardt, R. C., 7
 Burgueño-Ferreira, J., T114, T127
 Buriti, F. C. A., 952
 Burk, A. O., 42, 812
 Burke, J. M., 758
 Burke, S., T57
 Burken, D. B., W359, 767
 Burkey, T. E., T16, T194
 Burks, T., 648
 Burley, H. K., 189
 Burlingette, N. A., 587, 943
 Burns, J., M445
 Burns, J. M., W293
 Burns, T. A., W151, W152, W154, 823
 Burrin, D. G., 311, 1118
 Burris, W. R., 559
 Burroughs, C., T283
 Burrows, C. D., 28
 Busboom, J. R., M75, M162, 320
 Busby, D. W., 1040
 Busby, W. D., 1001, 1002
 Busch, D. C., 79
 Busch, L., 1026
 Bush, L. P., M121, W355, W363
 Bush, R., T357
 Butler, B., 805
 Butler, J. C., 446
 Butler, S. T., 163, 169
 Butterworth, A., 52
 Buttrey, E. K., 197, 198, 200
 Butzler, R. E., M5, 904
 Buysel, J., 981
 Buzoianu, S. G., 508
 Buzzard, B., T3
 Bychawski, S., M327
 Byrd, J. A., 181
 Byrem, T., M58, 275

C

Cabezas, E., M409
 Cabezas, E. H., M418
 Cabral Filho, S. L. S., W441, W442, W445
 Cabral, C., M371, T427, T428
 Cabrera, V. E., T321, 807, 1016
 Caccamo, M., T66, T329, 798, 860
 Cáceres, O., W192
 Cach-Gómez, I., T127
 Caddel, J. L., W131
 Cady, R. A., W310, 723
 Caetano, M., W342
 Cai, H., 131
 Caixeta, D. S., T435, T436
 Caja, G., M331, T329, 725, 885, 1019
 Caldari-Torres, C., W400, 873
 Calderón, J. F., W389
 Calderon-Cortes, J. F., W453
 Calderón-Mendoza, D., W308, 1138
 Caldwell, D., M29, 175, 512
 Caldwell, J., M119
 Caldwell, J. D., M120, M123, M125
 Caldwell, L. C., 526
 Callaway, T. R., W103, 450, 451, 1088
 Calsamiglia, S., M16, M362, T375, T459, W370
 Calvo, C., M272
 Camacho, A., W384
 Camacho, D., 1104
 Camacho, L. E., M278, W145
 Camacho, L. M., M352
 Cámara, L., T149, T150, T181, W258, 110
 Camelo-Jaimes, G., 657
 Camfield, P. K., W359
 Cammack, K. M., T52, T286, 27, 31
 Campanini, A. L., T29, T30, W378, W387
 Campbell, C., 322, 1035
 Campbell, J. M., T339, 641
 Campbell, R. E., M175, 128
 Campistol, C., M281, T273
 Campo, P., 951
 Campos, A. F., W337
 Campos, A., M211
 Campos, J. M. S., T435, T436
 Campos, M. A. S. F., M247
 Canavesi, F., 619
 Canesin, R. C., M152
 Canestrari, G., W132
 Cangani, M. T., T123
 Cangiano, C. A., M427
 Cannas, A., M395, W447, 724
 Cannon, M. J., 26
 Cannon, V. B., W315
 Cano, A., W49
 Cano, R., W49
 Cantet, R. J. C., 73
 Cantor, A. H., T190, W227, 327, 647, 672, 1111
 Cao, H., T218, 872
 Cao, Z., T454, T455
 Capa de Àvila, S., W345
 Capozzolo, M. C., T427, T428
 Cappellozza, B., W276
 Cappellozza, B. I., 27
 Capper, J. L., M43, W310, 723, 1011
 Capuco, A. V., W148
 Carabaño, R., M232
 Carareto, R., M348, M419
 Cárdenas, H. S., W239
 Cárdenas, M., M288, M297, M298, W289
 Cardona, J., M332, M337, T6
 Cardoso, D., T132, T464
 Cardoso, F. C., M197
 Cardoso-Jiménez, D., M322, M352
 Cardozo, G. M. B. Q., 954
 Cardozo, P. W., M342, M343
 Carlin, K. M., 1130
 Carlin, K. R., M171
 Carlos, L., M471, W451, W452
 Carlos-Valdez, L., 768
 Carlson, D., T345, 397
 Carlson, D. B., T348
 Carlson, M. S., 82
 Carmack, J. M., W120, W346, W382
 Carmo, L. S., W99
 Carnahan, K. G., T268, 171
 Carné, S., M331, 885, 1019
 Carnevalli, R. A., W185
 Carnier, P., M82
 Carpenter, J. R., T117
 Carpino, S., T66, T76, 797, 860, 951
 Carr, D. L., 400
 Carr, S. N., 966
 Carranco, M. E., M272
 Carrasco, C., W466
 Carrillo, S., W226
 Carriquiry Fossemale, M., W376
 Carriquiry, M., M292, T259, T290, T291, W147, M80, W275
 Carro, M. D., M365, T134, T376, T378
 Carroll, J. A., M18, M28, M281, T15, T21, T24, T154, T156, T273, W17, W383, 19, 529, 590, 771
 Carruthers, C., 260
 Carstens, G. E., 67, 1034
 Carstens, G., 911
 Carta, P., M395

Cartens, G., M15
 Carter, B. H., W301, 19, 734
 Carter, J. A., T471, W300, W352, 323, 752
 Carter, M. P., M5
 Carter, S., 699, 970, T221, 153, 154, 373, 1104, 1112
 Carvajal, T., W320
 Carvalho, E. R., T405, W403, W413
 Carvalho, J. C. C., T199
 Carvalho, M. V., 828, 1121
 Carver, L., W423
 Carzedda, C., M454, M472
 Casal, A., M80
 Casarin, A., M133, 654, 655
 Casas, A., M89, M90, T173
 Casas, E., 772
 Casco, G., 175
 Cascone, G., 860
 Casey, S. J., 990
 Cashell, B. P., 241
 Cason, J., 447
 Cason, J. A., T255, 371, 442, 445
 Casper, D. P., M67, W115, W128, 1057, 1058
 Cassidy, J. P., T33
 Cassell, B. G., T331, 889
 Cassidy, T., 739
 Cassidy, T. W., 214, 481
 Cassiolato, R., W301
 Cassman, K. G., 546
 Castañeda, D. A., W320
 Castañeda, J., W470
 Castañeda, R. A., M423
 Castellano-Perez, R., W19
 Castells, L., 399
 Castilho, L. A., M366
 Castillo Benedetto, G. O., T122
 Castillo, A., T385
 Castillo, A. R., W391, W411
 Castillo, C. J. C., M225
 Castillo, F., W449
 Castillo, G., W409
 Castillo, H., M390, M471, T385, W449, W451
 Castillo, M., T68
 Castillo-Castillo, Y., M345
 Castillo-Lopez, E., M433, T362
 Castonguay, Y., M392, W137
 Castro Montoya, J. M., T122
 Castro, N., T72
 Castro, S. F., T199, T213
 Castro-Ucross, N., W191
 Caton, J., W144
 Caton, J. S., W341, W398, 9, 916
 Catrambone, D. E., W234
 Caulkett, N., 420
 Cavali, J., M155, M161, M166, W365, W373
 Cavender, K. B., 263
 Caviness, J. E., T162
 Cavini, S., T375, T459, W370
 Ceballos, A., 841
 Cébo, C., W201, 962
 Cecava, M. J., M386
 Ceccantini, M.L., T214, T215
 Cedillo, N., M288
 Cejas, V. I., M423, 874
 Celi, P., W280, 172
 Celik, Y., 166, 164
 Cengiz, O., M312, T295
 Centeno, C., M251, M274, 141, 502
 Cerilo, S. L. N., M165, M414, W368, W369
 Cerqueira, M. M. O. P., T83, T84, T85, T318, T319, W43, W53, W59, W71, W99
 Cerrate, S., 684, 703, M231, T196, T241, T242, W219
 Cerri, R. L. A., T269, W272
 Cerrillo-Soto, M., T113, T120, T192, T453, W188, W444, W450
 Cervantes, B. J., W313, W384
 Cervantes, D., M234
 Cervantes, M., M233, M234
 Cezar, I. M., W303, W304
 Cha, C. J., M49
 Cha, M. C., T169, T171, T172, 319
 Chabot, B., M26
 Chae, B. J., T219
 Chagas, L. J., M398
 Chahine, M., W84, W332, W414, 640, 839
 Chaiseha, Y., W290
 Chaiyachet, O., W290
 Chaji, M., M377, M378, M385, M416, M417
 Chamberlin, W.G., W396
 Chamorro, S., M232, M251, M274, 344, 502
 Chan, A., T186
 Chan, J., T183, T184
 Chan-Diaz, D. J., 175
 Chandra, S., 61
 Chang, J., M317
 Chang, S. S., T439
 Chang, Y. F., 61, 63
 Chaouinard, P. Y., T373
 Chapman, J., W429
 Charley, B., W431, W433
 Charley, S. E., W87
 Charlton, B. A., T116
 Chase, C. C., 782
 Chase, C. C., Jr., 854
 Chase, C. C. L., M47, M86, 30
 Chase, L. E., 426, 813
 Chaucheyras Durand, F., M388
 Chaves, A. V., M346, 727
 Chaves, B. D., 1091
 Chaves, L. A., W305
 Chavez, S. J., M445, 910
 Chavez, T. M., 487
 Chaytor, A. C., 987
 Che, T. M., T159
 Chebel, R. C., W273, W282, W287, 486, 488
 Cheema, U. B., 1050
 Cheguru, P., 824
 Chen, A. G., 543
 Chen, B., 880
 Chen, C. Y., 613, 926
 Chen, C.-H., M139
 Chen, J., M75
 Chen, J.-W., 61
 Chen, K. N., W48
 Chen, M. J., W48, 956, 957
 Chen, S., M52
 Chen, W., M286, T281, 644
 Chen, Y., 869
 Chen, Y. P., 956
 Chen, Y. L., 803
 Cheng, G., M39, M40, M41, M42, W20
 Cheng, G. L., M52, 1083
 Cheng, H. W., M311, T7, T38, 261
 Cheng, J., T104, T106
 Cheng, K. M., W190, 147
 Cheng, L., T414
 Chenoweth, P., 170
 Cherian, G., 375
 Cherney, D. J. C., W448
 Cherney, D. J. R., T107, 45
 Cherney, J. H., T107
 Chester-Jones, H., T345, T349, T350, T351, 397
 Chestnut, A., T360
 Chestnut, A. B., 400
 Chetrit, C., M235, W454
 Chi, F., W244, W246
 Chibisa, G. E., 745
 Chicco, C. F., W343
 Chilibroste, P., W312, W390
 Chinnasamy, S., 547, 747
 Chiquette, J., M379
 Chirino, J. O., W389
 Cho, J. H., W468
 Cho, M., T9, 683
 Cho, S. D., T446
 Cho, Y. I., W317

- Choat, W. T., 378
 Choi, C. W., T439, W155, W361
 Choi, D. Y., W461
 Choi, J. K., W50, W52, W395
 Choi, S. H., T439, W155, W360, W361, 825
 Chokchaloemwong, D., W290
 Chou, W., M138
 Chouinard, P. Y., M408, T395, 563
 Chove, L. M., 802
 Christensen, D. A., 745
 Christian, S. L., 1092
 Christiansen, D. L., 1095
 Christiansen, M. M., 712
 Chuammitri, P., 271
 Chudaske, C., 108
 Chung, C. H., T74
 Chung, K. M., 176
 Chung, K. Y., W155, W160, W161, W360
 Chung, Y.-H., M158, M405, 1136
 Cianzio, D., M89, M90, T173
 Cibils, A. F., M130
 Cifuentes, D., M241, W394
 Cisse, R. S., 1123
 Clapham, W. M., 912
 Clapham, W., M159, 321
 Clapper, J., M290
 Clark, C., T315
 Clark, D., T315
 Clark, D. A., 632
 Clark, F. D., T284, 268
 Clark, K. J., W412
 Clark, L. P., W367
 Clark, L., M148
 Clark, N., T409
 Clark, O. G., 866
 Clark, S., 268
 Clark, T. W., W130
 Clarke, A. D., 81
 Claro Júnior, I., T267
 Classen, H. L., T9, T185, W266, 139, 182, 260, 582, 585, 586, 587, 683, 943
 Claus, J. R., 416
 Clavaud, C., 334
 Clavero, T., M129, W109
 Clayshulte, A. M., 290
 Clemensen, A. K., 93
 Clément, F., 535
 Clementino, L. A., T84
 Cleveland, M., M177
 Clifford-Rathert, C., W15, 83
 Cloninger, E. W., 225
 Coate, E. A., M37, 592, 1021
 Cobb, C. J., M28, M31, T337
 Coblenz, W. K., M124, M193, T346, W431, W433, 461, 462
 Cobos-Peralta, M.A., M359, M441
 Cockett, N., M330
 Cockrum, R. R., T52, T286
 Code, W. E., 147
 Codjia, J. C., M100, 307
 Coenen, M., M342
 Coffey, K., M119
 Coffey, K. P., M120, M123, M125
 Cognié, J., 535
 Colbert, R. W., W112
 Colburn, T., T328
 Coldebella, A., W295
 Cole, J., W28
 Cole, J. B., 623
 Cole, K., W183
 Cole, L., 1127
 Cole, N. A., W340, W358, 201, 1003
 Coleman, C. W., W98
 Coleman, G. J., W94
 Coleman, S. W., 782, 854
 Colin, D., T465
 Collar, C., T334
 Collar, C. C., W85
 Collett, S. R., 1012
 Collier, C., 590
 Collier, C. T., T24, W17, 19
 Collier, J. L., T314, 470
 Collier, R., M149
 Collier, R. J., T314, 470, 471
 Collier, S. D., M54
 Colyn, J. J., M26, M431
 Combs, D. K., M193, M387, T112, T118, 571
 Combs, G. F., 98
 Conde, A., W320, W333
 Confer, A. W., 769
 Conn, P. M., 602
 Conn, T., 995
 Conner, D. E., 266, 446, 652
 Connolly, C., M46
 Connor, E. E., W148, 854
 Connor, M. L., W432
 Conrad, E. C., 770
 Consolo, N. R. B., T29, T30, W378
 Conti, G., W409
 Contreras-Govea, F. E., M109, M110
 Conway, C. E., T59, T60, T61
 Cook, A. L., W89
 Cook, D. R., 598
 Cook, K. L., M68
 Cook, M. E., 4
 Cook, N. J., M26
 Cook, P. E., W98
 Cooke, F. N. T., T263, W351, 389
 Cooke, R., M277, W276
 Cooke, R. F., T263, W351, 389
 Coombs, C., W96, 248
 Coombs, C. O., W88
 Coon, C., 684, M231, W219
 Coon, C. N., M205, T196, T241, T242
 Cooper, T. A., 618
 Coopriider, K. L., 24
 Copado, R., M112
 Coppedge, J., M29, 512
 Coppedge, J. R., T207, 341
 Coppola, L. E., T101
 Corah, L. R., 1000, 1001, 1002
 Corcini, C. D., 358
 Corcionivoschi, N., M273
 Cordero, G., T236
 Cordero, J., M288, M297, M298
 Cordero, J. L., W289
 Cordova, S., T22
 Corea Guillén, E. E., M104, M105, T122
 Coria, H., W388
 Corl, B., 739
 Corl, B. A., W153, 211, 245, 356, 873, 960
 Corley, J. R., T24, W17, W383
 Corley, M. M., T162, T163
 Corona, L., M412, M413
 Coronado, E. J. D., T448, T449
 Corr, S. A., 359
 Corral, A., W108
 Corrales, J. C., T460
 Corral-Luna, A., M113
 Correa, B. C., M419
 Correa, J. A., 940
 Corrêa, M. N., M299
 Correa-Calderón, A., M325, M326, T32
 Corredig, M., M174, 945, 946, 947, 948
 Côrtes, C., T444, W405, W435
 Cortes-Diaz, E., M474, T129
 Cortinhas, C. S., M44
 Corzo, A., W254, 143, 499, 671
 Coscojuela, P., M246
 Cossel, S. E., 1126
 Cosstick, T., 653
 Costa, F. G. P., M102, M208, M213, M215, M223, M224, M247, T138, T214, T215
 Costa, J. R., Jr., W185
 Costa, M. R. G. F., M467, M383, T407, T408
 Costa, V. A., T199
 Cotanch, K. W., M393, M429, 216, 218
 Côte-Robitaille, M. E., W209
 Coto, C. A., M207, M210, T189, T208, T224
 Cotta, M., W318

- Cotter, P., 600
 Coude, B., 804
 Coufal, B., W340, 1003
 Coufal, C. D., 539
 Coussens, P. M., 65
 Couto, V. R. M., W373
 Coverdale, J., W182, 121, 1047
 Cowieson, A. J., 333, 1108, 1109
 Cowles, K. E., 666
 Cox, B. E., W329
 Cox, C. M., M132, M140
 Cox, D. A., 29
 Cox, L., 775
 Cox, N. A., 371, 442, 445
 Cox, R. B., T174
 Cox, S. H., T121, 734
 Cozzi, G., M16
 Craig, P. H., W114, W121
 Craig, T. M., 267
 Cramer, G., 905
 Cravener, T. L., 180, 189, 503
 Crawford, G. I., 555, 556
 Crawford, R. J., 763
 Crenshaw, J. D., T339
 Crenshaw, M., M203
 Crenshaw, T. D., W251, 1
 Crespin Payés, E. A., M104, M105
 Crews, D. H., Jr., M81, 67, 68
 Criner, G. K., W89
 Crippen, T. C., 181
 Cristaldo, R.O., M155
 Croissant, A. E., 130
 Cromwell, G. L., W238, W468, 522, 676
 Croney, C. C., 606
 Crook, E. K., 758
 Croom, W. J., 463
 Croomjmas, R., M138
 Crosby-Galván, M. M., W338
 Cross, L. D., 553
 Crouch, T. L., 250
 Crouse, J., T294
 Crow, G., 657
 Crowe, M. A., T369, 163
 Crowe, T., M23, T35, 940, 942
 Crowe, T. G., T185, 585, 587, 943
 Cruppe, L. H., 848, 849
 Cruz, G. D., W356, 16
 Cruz, J. E., W451
 Cruz-Monterrosa, R. G., M438
 Cuca, J. M., W226
 Cuchillo, H. M., M384, 94
 Cue, R. I., 716
 Cuellar, J., M103
 Cueto, M. C., W333
 Cui, R. L., M143
 Culbertson, M., 926
 Culham, A. B., 1068
 Cullor, J. S., T153
 Cunha, A. F., T318, T319
 Cunha, J. G. R., M20
 Cunha, S. K., 358
 Cunnick, J. E., T360
 Cunningham, D. L., 85
 Cunningham, K. B., T422
 Curbelo, J., 1095
 Curci, F. A., M156
 Curi, Rogério, W177
 Curley, K. O., Jr., M18
 Curran, J., 819
 Curry, E., W463, W152
 Curtis, P. A., T473, 266, 377, 446, 897, 899, 900, 1071, 1072, 1092
 Cushman, R. A., M300, 168
 Cutullic, E., M146
- D**
- da Costa Eifert, E., M163, M164
 da Costa Lopes, C., W255
 da Cruz, P. G., W138
 da Cruz, T. M. P., W455
 da Cunha Cornélio, T., M414, T438, W134
 da Silva Brabes, K. C., M165, T26, T438, W134, W368
 da Silva Fernandes, L., W369
 Da Silva, A., 762, 764
 Da Silva, E. L., M215
 da Silva, E. M., W273, 488
 Da Silva, J. H. V., M215
 da Silva-Kazama, D., W435
 Dabak, Murat, 1073
 Dacheux, J.-L., 535
 Dadgar, S., T185
 Dafoe, J., 856
 D'Agosto, E., W400
 Dahiya, J. P., W266
 Dahl, G. E., 475
 Dahlquist, J. M., W307
 Dai, T. Y., 956, 957
 Dailey, J. W., M28
 Dalbach, K. F., T419
 Dale, B. E., M430
 Dale, B. W., T294
 Daley, M. A., 359
 Dalglish, D. G., 132
 Dalla Costa, F. P., W285
 Dalloul, R. A., M132, M140
 Dalmagro, M. R., 337
 Dalton, J. C., T310, W92, 171, 482
 Daly, K., 349, 1119, 357
 Dambros, C. E., W116
 Damiran, D., W434
 Damron, S., 1069
 Danes, M. A. C., M398, M415
 Danesh Mesgaran, M., T416, M349, M350, M434, M435, T370, T371, T379, W404
 Danesh, M., M285, M353, W119
 Dänicke, S., T256
 Daniel, J. A., M291, T258, W141, 5
 Daniel, J. L. P., M409, M418
 Daniels, T. F., M75
 Dann, H. M., M5, T430, 216, 218, 904
 Dannenberger, D., 1039
 Danscher, A. M., 749
 Dardenne, P., 799
 Darici, R., 162
 Darrah, J. D., M393, T430
 Darrah, J. W., M429
 Darre, M., T144
 Darre, M. J., W101, 255
 Das, K. C., 547, 747
 Daskiran, M., T295
 Daubert, J. M., W26, 66, 249
 Daugherty, C., T308, T309
 Daugherty, K., 600
 Davidson, J. A., T422
 Davidson, J. L., 14
 Davidson, R. T., T195
 Davies, M. H., 432
 Davies, R. H., 1024
 Davila-El Rassi, G., T175
 Davín, R., T1
 Davis Rincker, L. E., 393
 Davis, A. J., 138
 Davis, B. L., 414
 Davis, C. J., T10
 Davis, D. K., 1045
 Davis, E., T157, T250, W326, 629
 Davis, J., 455
 Davis, J. D., 441
 Davis, K. C., 856
 Davis, L., W423
 Davis, M. E., 72
 Davis, P. A., 96
 Davis, S., 1109
 Davis, T. A., 6, 604
 Davis, T. C., 201
 Davis, T. L., T268
 Davis, W. C., M59, M62, T155
 Davison, K., T22
 Dawson, K., T349
 Dawson, K. A., M449, T159, T233, T399, T400, W202, W227, 157, 647
 Dawson, L. J., T457, 756
 Dawson, P. L., 1091

- Day, M., T267
Day, M. L., 848, 849
Dayton, W. R., W158, W159
Daza, A., W218
de Almeida, E. J. D., M111
de Andrés, M. A., M335
de Araújo Gabriel, A. M., M414, T109, T110, T111
De Araújo, J. A., M215
de Avila, J. M., M74
de Blas, C., M232, W212,
de Elia, C., M107
de Faria Pereira, D., M165, M414, T438, W134
de Faria, M. H., M17, M163, M164, M170, T164, T165
De Freitas, J.A, T359
de Godoy, M. R. C., T59, T60, T61
de Haro Martí, M. E., W97, W332, 640, 839
De la Cruz-Honorato, P., M151
De la Fe, C., T460
De la Fuente, M. A., M456
de Lanes, E. C. M. , M111
de Lange, C. F. M., T191, T226, 120, 148, 274, 489
de Lima Costa Filho, C., W455
de Lima, S. B. P., W255
de los Campos, G., 621
de Menezes Gressler, M. G., W116, W134, W369
de Oliveira Carvalho, P. L., W455, W458
de Oliveira, A. S., T435
de Oliveira, E. R. , M414, T109, T110, T111, T438, W116, W134, W368, W369
de Oliveira, J. E., 443, 980, 984
de Passillé, A. M., 53, 905
de Queiroz, A. C., M163, M164, M170, T164, T165
De Santiago-Miramontes, M. A., M328, T466
de Segura, A. G., 759
De Smet, S., 155
de Souza Carneiro, M. S., M14, M465
de Souza, A. L. P., 987
De Souza, J. C., T359
De Souza, J. M. B., M215
de Tonissi e Buschinelli Goes, R. H., M165, M414, T26, T109, T110, T111, T438, W116, W134, W368, W369
de Veth, M. J., T415, W374, 211, 245, 884
De Vries, A., W335, 808, 890, 1020
Dean, L., 130
DeAtley, K. L., 290
deBeer, M, T148
Decandia, M., M344, M376
Dechow, C. D., W26, W90, 66, 249
Decuyper, E., 981, 984
DeDecker, A. E., 409, 410, 411, 412, 413
Deeb, N., 614
Deemer, D. R., W94
Deen, J., M333, M334, 762, 764, 868, 1014, 1066
Deep, A., 585
Deep, G., 129
Defoor, P. J., 50
DeHaan, K. G., 243
Dehareng, F., 799
Dehghan-Banadaky, M., M114, M115, M373, M374, M375, M380, M468, M469, T302, T303, T306, T307, T387, T413, T443, W37, W200, W437, 879, 1143
Dei, C. S., W428
DeJarnette, J. M., 888
Dekleva, M. D., 66
Dekleva, M. W., W26
Del Cacho, E, 650
Del Pino, F. A. B., M299
Del Santo, V. R., W139
del Valle-Mercado, L., T173
DeLaney, D. S., M432
Delany, M. E., 921
DelCurto, T., 630, W314
Dele, P. A., 459
Deleris, I., 296
Delezie, E, 155
Delgado, R., W192
Dell, C., W322
Delvaux, C. L., W157
D'Emilio, A., 860
Deming, J., 246
Demirtas, A., T63, T64
DenBeste, M. D., T292
Deng Akuoch, D. J., 1102
Denicol, A. C., W282
Dennis, R. L., M311, T7, T38, 261
Dennis, T. S., 95
dePersio, S. A., W256
DePeters, E. J., 1060
Der Bedrosian, M. C., W127, 47
DeRouchey, J. M., 492, 701
DeRouen, S. M., 84
Desai, P., 953
DeSilva, U., 387, 768
DesLauriers, A. G. C., 188
Dessauge, F., M146, 472
Detmann, E., W373
Detweiler, G. D., T468, T469, 757
Deutsch, M., 170
Devant, M., M10, 550, 733, 1038
DeVeth, M., T314
Devillard, E, M396, 334
Devillers, N., 418
DeVries, T. J., M8, M9, M51, 392, 570
Devuyt, E., 857
Dewhurst, R., T414
Dewhurst, R. J., 169
Dewulf, J., 1024
Dhakar, K., W83
Dhuyvetter, D. V., W130, 9
Dian, P. H. M., W336
Diao, Q. Y., T340, T355, 394, 395
Dias, R. S., T356
Dias Júnior, G. S., T381, T421, T425, W421
Díaz Padilla, G., W187
Diaz, A., M134, M221, T134
Diaz, D. E., M295, 46
Diaz, G., M238
Diaz-Gomez, M. O., T467
Diaz-Mora, C., M94
Diaz-Plascencia, D., T404
Diaz-Solis, H., M131
Dib, M. G., W385, 204, 378, 557
Dibner, J. J., M295
Dickson, J. S., 423
DiCostanzo, A., 555, 556
Dieguez, J., 283
Dienglewicz, R. L., M135
Dijkstra, J., 428, 1056
Dikeman, C, 933, 937
Dikmen, S., 405, 894
Dilkin, P., 986
Dillwith, J. W., 769, 783
DiLorenzo, N., 50
Dimauro, C, M454, 724, M82, W24
Dimova, M. D., 138
Ding, L., T143
Ding, Y, W225, M56
Dinh, S. K., W114
Diniz-Magalhães, J., 1121
Diogo, J. M. S., W305, W377
Dirandeh, E., M287, 105
Disbennett, P., T221
Disenhaus, C., M146
Diskin, M. G., 163
Dittmar, R. O., III, 97
Dlders, D., T96
do Amaral, B. C., 475
do Carmo, J. P., T435, T436
do Lago, L. F., T435, T436
Doane, P. H., M362, M386
Dobson, K., 268

- Doescher, R. M., W165, 39
Dohme, F., M426
Doko, S., M100, 307
Dolejsiova, A. H., W165, 39
Domby, E., T298
Domènech, A., T460
Domínguez, D., M390, M471, T385, W449, W451, W452
Dominguez, W., 135
Dominguez-Viveros, J., T274
Donaldson, J. R., 671
Donaldson, M. E., W128
Dong, W., T47
Donkin, S. S., T260, T405, W299, W403, W413
Donoghue, A. M., W101, 184, 440, 444, 540, 588
Donoghue, D. J., W101, 440, 444, 540
Dorea, J. R. R., M348, M398, M415
Dormitorio, T.V., 649
Dorton, K., W357, 1048
dos Santos, K. M. O., 952
Doumit, M., 824, 1033
Dourmad, J. Y., 1107
Dove, H., 891
Dow, D. L., 787
Dowd, S., 270
Dowd, S. E., W357, 656, 1048
Dowell, D., T221
Downey, E. D., 770
Dozier, W. A., III, T211, 143, 178, 499, 685
Drackley, J. K., M197, 391, 641, 840, 870, 1060
Drake, K., 59
Drake, M. A., M175, M176, 128, 130, 131, 297, 793
Dreher, M., 390
Dresch, R., M453, T461
Drew, M. D., T158
Drewnoski, M. E., 388, 552, 558
Drinceanu, D, M273
Dritz, S. S., 492, 701
Drouillard, J. S., W172, 382, 383, 384, 551, 731, 732, 1086, 1141
Druart, X., 535
Drummond, R. M. N., W53
Druyan, S., T288
Dschaak, C. M., M191, M196, M422
Du, M., M153, W144, W150, W341, 113, 480, 637, 638, 826, 915
Duarte, M.S., M371, M467, W365
Dubuc, J., 595, 596
Ducatelle, R, 353
Duckett, S. K., M159, W151, W152, W154, 321, 823
Duclos, M. J., 479
Duersteler, M., T157
Dufek, A, T168
Duff, A. M., T471
Duff, G. C., 28
Duffield, T. F., 401, 595, 596, 905
Duffy, P., T369, 1137
Dugan, M. E. R., M158, T447
Duijghuisen, R., 76
Dumitrescu, G., M273
Dunbar, T. V., W462
Duncan, G., 213, T143, 210
Duncan, I. J. H., 570
Dunham, S., 464
Dunkley, C. S., 85
Dunlap, J., 38
Dunlap, R. L., II, 734
Dunn, S. M., T391, T392, W1, W2, W3, W4, W5, 1079
Dunn-Horrocks, S., 512
Dunnington, E. A., 898
Dupass, N. J., 1138
Dupre, Y., 829
Durán, L., M390, W451
Durig, A. C., 123
Dutreuil, M., W201, 962
Dwyer, M. E., 812
Dyer, J., 1119, 357
- E**
- Ealy, A. D., W272, 998
Eanes, M. L., W296
Earing, J., 457
Earing, J. E., W173, W174, 123
Earleywine, T. J., T311, W167, W168, W169
Earnest, J., Jr., W324, 1013
Eastridge, J. S., T170
Eastridge, M. L., W82, W94, 252
Eberle, K. N., W104, 441
Ebner, P., 692
Ebner, P. D., 809, 1089
Ebsim, S. M., 139
Echeverria, R., W390
Echternkamp, S. E., M300, 168
Eckerle, G. J., 11, 14, 380, 1005
Eckerman, S. R., 8
Eckstein, T., 64
Eda, S., M60, M61, M63
Edmonds, M., 381
Edrington, T. S., W103, 450, 1088
Edwards, G., T414
Edwards, H. D., 1029
Edwards, L. N., T3, 11
Edwards, M. S., 935
Edwards, S., 82
Ehrenfeld, R., M103
EhsanUllah, T357
Eichen, P. A., M37, M38, 592, 1021
Eicher, S. D., M1, M2, T4, W87
Eilenfeld, E. M., 252
Einstein, M., T148
Eisemann, J. H., T235
Eivers, M., 1052
Ekeocha, A. H, M254, 504, 505
Ekmay, D. R., T242
Ekmay, R., M231, W219
Ekmay, R. D., M205, T196, T241
Ekstroem, C. T., 749
El Attar, A., W45
El Halawani, M. E., M303, W290, 365, 707
El Soda, M., W45
El-Dlebs hany, A. E., M313
Eler, J. P., T48
Eleswarapu, S., W156
Elías, A., T404
Elías-Argote, X., W68
Elias-Iglesias, A., M345, T120
Elibol, O., 174, 865
Elischer, M. F., T4
Elizondo-Salazar, J. A., M104, M105, T122
Ellason, C. S., T471
Ellersieck, M. R., T333, T335, W15, W396, 842, 843, 844
Ellestad, L. E., 705
Elliot, B. A., M60
Elliot, M., M320
Elliott, A. A., 38
Ellis, E. A., 363
Ellis, J. L., 428
Ellis, M., T217, T254
Ellis, S. E., W148
El-Minshawy, H. A., 658, 971
Elsasser, T., T21, W16, W19
Ely, D. G., 755
Elzo, M. A., W372
Emam Jomeh Kashan, N., T305
Emanuele, S., W423
Emery, K., W111
Emmanuelli, G., W443
Emmick, T, T94
Encinias, A. M., W308, 1138
Encinias, M., M87
Endecott, R. L., 1042
Endres, M. I., 858, 859, 861, 863
Engberg, R. G., T249
Engel, C. L., T116
England, J., M205, T196, T241, T242
Engle, E., 495

Engle, T. E., M281, T3, 20, 30, 379,
548, 554, 736, 835
Engle, T., 831, T298
Engler, D., 965
Enjalbert, F., M436
Ennis, R. B., 109
Enns, R. M., M81, M86, 30, 68, 422
Ensley, S. M., W317
Eom, S. J., M49, W51
Erasmus, L. J., T398
Erasmus, M. A., 262
Erdman, R. A., T330, T402, T423
Erf, G. F., M120, M135, T43, T44
Erickson, G. E., W385, 49, 202, 204,
207, 208, 378, 546, 557, 1037, 1044
Erikson, M., M22
Ernst, C. W., M90, M92
Ernst, C., W271
Erskine, R. J., 720
Esbenshade, K. L., 896
Eschbach, M., T144
Escobar, F. J., T467
Escobar, J., W298, 664, 667, 691, 1054
Eshpari, H., W69
Eslami, M., M416
Eslamizad, M., T302, T303, W200
Esmacilinasab, P., M318
Espasandín Mederos, A. C., W376
Espasandín, A., M80
Espasandín, A. C., T290
Espejo, L. A., 55, 278, 279
Espino, M. A., W313, W384
Esser, N. M., M193, T346, W431,
W433, 437, 571
Estefan, A. G., T24, W17, W383
Estell, R. E., M130
Esteves, E. G., T83
Estevez, I., 259
Estienne, M. J., 763
Estrada-Angulo, A., T120, T453, W188,
W450
Estrella Quintero, H., W95
Eubanks, V. J., 236
Eun, J.-S., M191, M196, M372, M422,
T372
Eusebio-Balcazar, P. E., 177
Evans, A. C. O., 169
Evans, C. B., T195
Evans, E. K., T261
Evans, E., T409, T383, T410, T411,
T441
Evans, F., T333
Everaert, N., 981
Evert, A., 227
Everts, R. E., 391, 729, 1060
Evoock-Clover, C. M., W148

F

Faber, T. A., T56, T58
Facison, K., 407
Fadel, J. G., 16
Faga, M., 417
Fagari-Nobijari, H., M373, M374, M375
Fahey, G. C., Jr., T56, T58
Fahrenkrug, S. C., 707
Fain, J. L., 250
Fairchild, B. D., T255
Fajersson, P., 1101
Fakhri, S., W321
Falck, S. J., 386
Falkenberg, S. M., T21, 590, 771
Famula, T. R., 16
Fanatico, A. C., 184, 444, 588
Fancher, B. I., 582, 585
Fang, X., M88, M91, 1085
Farahvash, T., T49, T50, T51
Faramarzi Garmroodi, A., M434, M435
Farhang, F., T306
Farhangfar, H., M458, T137, T304,
T305, 528, M229, M255, T142, W35,
W36, W38, W236
Faria Estivallet Pacheco, G., W345
Faria, C. O., T425, W421
Faria, M. A. M., M248
Farin, C. E., 228
Farina, G., M237, 697
Farkye, N. Y., T78, T80, T88
Farmer, C., T246, W198
Farnell, M., 512
Farney, J. K., T299
Farris, J., 755
Fasenko, G. M., M309, 186
Fasina, Y. O., T140, 266, 652
Fassbinder-Orth, C. A., W229, 669
Fatehi, F., T212, T307
Fathi Nasri, M. H., T305
Fathi, M. M., M313
Faucitano, L., 418, 940
Faulkner, D. B., W307, 49, 729, 730,
787
Fausto, D. A., M155
Faux, P., 74
Favoreto, M., T269, T384
Favoreto, M. G., W166, 264
Favoretto, M. G., T434
Fay, B., 83
Fazaeli, H., W119
Fazeli, H., W404
Fazli, N., 877
Fehr, J. D., W346, W382
Fei, C., W21
Feijó, G. L. D., M155, M156
Fekete, Z., W193
Felix, T. L., 96, 549
Felker, C. D., W145
Fellner, V., W175
Felver-Gant, J. N., M311, T38
Feng, L., W55
Feng, P., M400
Feng, S. S., 394
Feng, W., T386
Fenghua, L., W21
Fennel, M. M., T108
Fenu, A., M376, 324
Ferguson, D. M., 967
Ferguson, J. D., T382, 1134
Ferguson, N. S., 425, 688
Ferket, P., 702
Ferket, P. R., 137, 646, 700, 902, 972,
977
Fermin, M. L., W294
Fernandes, A. R. M., M157, M160,
M165, W368
Fernandes, C. D., T128
Fernandes, D., M453, T461
Fernandes, H. J., M161, W162, W163
Fernandes, J. S., Jr., T462, T463
Fernandes, M. H. M. R., T462, T463
Fernández-Casado, J. A., 820
Fernandez-Figares, I., W106, W222
Fernando, P.-G., M272
Fernando, R. L., 788, 924
Fernley, P., 1052
Ferraz Filho, P. B., M79
Ferraz, J. B. S., T48, T167
Ferreira, E. M., M455, M457, W447
Ferreira, J., 40
Ferreira, J. A. G., Jr., M236, M237, 698
Ferreira, L. S., T338
Ferreira, M. A., M20
Ferreira, P., 697
Ferreira, R. M., W281
Ferreira, T. G., T68
Ferrell, C. L., M300
Ferret, A., T375, W370
Ferris, C.P., 907
Fetrow, J., 863
Fetterer, R. H., M140
Feugang, J. M., M203
Feyerabend, N. P., T333
Feyereisen, G., W322
Fiaz, M., 1100
Field, M. E., 1126
Fields, S. D., 998
Fierheller, E., 420
Fierro H., J.A., 345
Fife, T., 640

- Fife, T. E., 1008, 1009
 Figueiredo, D. M., W126
 Figueroa, J., M235, T1, W454
 Figueroa, J. L., W289
 Fike, G. D., 1001, 1002
 Fike, J. H., 232
 Filbert, M. E., W105
 Filbin, T., M461
 Filgueiras, E. A., W185
 Filho, A. S. S., M20
 Finck, D. N., T24, W17, W383
 Fink, E., 755
 Finocchiaro, R., 619
 Finot, L., 472
 Fiorellino, N. M., 42, 812
 Fiorotto, M. L., 6, 604
 Firkins, J., W423, 252, 398, 743
 Fish, C. M., M108
 Fisher, K. S., 845, 991
 Fitz-Coy, F., 342
 Fitz-Coy, S., M29, 175
 Flamarique, F., W460, W466, W467
 Flann, K., 1127
 Flann, K. L., 477
 Flint, H. J., 349
 Flis, S. A., M68
 Flores Tensos, J. M., M104, M105, T122
 Flores, C., 725
 Flores, L. R., W313, W384
 Flores-García, E. O., W107
 Flores-Mariñelareña, A., T274
 Flowers, W. L., 520
 Fluharty, F. L., 822
 Flythe, M. D., 123
 Fogle, G. E., 848
 Fokkink, W. B., 396
 Fonseca, E.A., W365
 Fonseca, L. M., T83, T84, T85, T318,
 T319, W43, W53, W59, W71, W99,
 306
 Fontaneli, R. S., 232
 Fontenele, R. M., M14, M465, M466,
 M467
 Fontenot, J. P., M159, 321
 Foo, A., M174
 Foote, A. P., W355, W358
 Foote, M. R., 961
 Foote, R. S., M63
 Forano, E., M388, M396
 Forat, M., M133, 345, 654, 655
 Forbes, T. D. A., M127, M128, W352,
 526, 537, 851
 Ford, J. A., 119
 Ford, J. J., T152
 Ford, M. J., T190, W227, 327, 647, 672,
 1111
 Ford, S., 775
 Ford, S. P., M280, W150, 637, 638, 639,
 914, 915, 999, 1129, 1131, 1132
 Formigoni, A., M106, W132
 Forni, S., 614
 Forsberg, N. E., 836, 837
 Forster, L. A., W346, W382
 Forster, R. J., T403, W406, 567, 728
 Foskolos, A., T459
 Fossler, C., M57
 Foster, H. A., 1008, 1009
 Foulk, D., W176
 Fouquet, A., M96, M97
 Fowler, C. M., 743
 Fowler, J., 690
 Fox, J. T., 591
 Fox, L. K., M43, M45
 Foxcroft, G. R., 1065
 Fraley, G. S., 706
 France, J., T356, 428, 1056
 Francesconi, A. H. D., M344
 Francis, N., T144
 Frank, D. N., 314
 Frankenbach, S. D., 151
 Frantz, N. Z., T61
 Fraser, A. M., W66
 Fredin, S. M., T429
 Freeman, M. E., 138
 Freeman, S., 910
 Freetly, H. C., 70
 Freire, J. M., T214, T215
 Freitas, J. A., M79
 Freitas, L. L., T109, T110, T111
 Freking, B. F., T152
 Fricke, P. M., M199, W283, 165, 807
 Friend, T. H., T55, W301, 419, 862, 906
 Friendship, R. M., M30
 Friggens, N. C., T326
 Frigola, H., 1069
 Frigoni, F., W301
 Frigotto, T. A., T317
 Frikha, M., 141, 497
 Froehlich, D., M26
 Froetschel, M. A., 547, 747
 Froman, D. P., 533
 Fronchetti, D. R., T359
 Frozanmehr, M., W438
 Fruge, C. J., M369
 Fry, R. S., 159, 519, 520
 Fu, C. J., W130
 Fu, S., T47
 Fu, S. J., T204, T227
 Fu, Y. Q., 395
 Fucà, N., T86, 951
 Fuente, B., M272
 Fuentetaja, A., T149, T150
 Fujimoto, M., 955
 Fulford, J. D., W357, 1047, 1048
 Fulton, R. M., 1027
 Fulton, R. W., 768, 769
 Fultz, S. W., T330
 Funnell, B.J., T264
 Funston, R. N., 78, 853, 1006, 1037
 Furlan, A. C., W455
 Fustini, M., M106, W132
 Fyock, T. L., 275
- ## G
- Gäbel, G., 1144
 Gabler, N. K., 674
 Gabrush, T., 260
 Gadberry, M. S., M168, M169
 Gado, H. M., 895
 Gady, C., 1113
 Gafnea, M. E., T258
 Gagliostro, G. A., M423, M425, M427,
 874
 Gagnon, N., W405, W435
 Gaines, A. M., T217, T254
 Gakhar, N., M275, M257, M316
 Galbraith, E. A., T382
 Galindo, D., W394
 Galindo-Velasco, E., W10
 Gallagher, G., M22
 Gallardo, M., W409
 Gallego, A. G., W458
 Galobart, J., M98
 Galvani, D. B., M455, M457
 Galyean, M. L., T15, W161, 50
 Gama, M. A. S., M453, T461
 Gamez, H. G., T467
 Gandy, J. C., 247
 Ganesan, B., 953
 Ganjkhanelou, M., M468, M469
 Ganner, A., W8, 265, 1076
 Gänzle, M., 1079
 Gao, G., W235
 Gao, X. J., W195, 958
 Gao, Y., W55, 982
 Gao, Y. H., 765
 Garbe, J. R., 707
 Garces-Yepepe, P., 3
 Garcez Neto, A. F., T359
 Garcia, A. I., W212
 Garcia, A. L., 124
 Garcia, A. M., M354
 García, E., M288, M297, M298, W289
 Garcia, G., W394
 García, J., M232
 Garcia, M., T434, W166, 264, 1081,
 1142

- Garcia, M. D., M75
 García-Munguía, C. A., 433
 Garcia-Ortiz, J. C., M150, M151
 García-Rebollar, P., W223, W263
 Garciaarena, D. A., M423, M425, M427
 García-Rendón, A., W261
 Gardiner, G. E., 508
 Gardiner, L. K., 408
 Gardner, I. A., 55, 275, 276, 423
 Garey, S. M., 419, 862, 906
 Garibay, L., 1104
 Garmyn, A. J., M167
 Garrett, J., T377
 Garrick, D. J., 289, 788, 924
 Garrido, S., W460
 Gasa, J., T2, W457
 Gasbarre, L. C., 854
 Gasca, S. J., M262
 Gaskins, C. T., M74, M75, T332
 Gaspa, G., M82, W24
 Gast, R. K., 1024, 1093
 Gastal, E., W415
 Gates, K. N., T471, 752
 Gates, R. S., W324, 1013, 1025
 Gath, V. P., 1137
 Gatti, J.-L., 535
 Gauthier, H. M., T430
 Gauthier, S. F., W81
 Gavilan, C. W. S., T109, T110
 Gawthrop, J. C., T339
 Gay, K. D., W87
 Ge, R. L., T238
 Ge, X., 112
 Geary, T. W., 852, 923
 Gehman, A. M., T397
 Gehring, C. K., 340
 Geisert, R. D., 79
 Gekara, O. J., W462
 Gellin, G. L., 123
 Gengelbach, G. P., W115, W128, 1058
 Gengler, N., 74, 784, 785, 799, 931
 Genho, M. R., 20
 Genho, P., 920
 Genovese, K. J., T40
 Gentil, R. S., M455, M457, W447
 Gentry, L. R., W165
 Geor, R. J., 354, 356
 George, J., 964
 George, L. A., 914, 1131, 1132
 Geraert, P. A., 334, 981, 1113, 527
 Gerardo-Cuervo, H., M405
 Germeroth, D., T256
 Gerónimo, D. M., T130
 Gerrard, D. E., W354, 478
 Gerry, A. C., W85
 Gertler, A., T279
 Gervais, R., 563
 Geshlog Olyayee, M., T198, T237
 Gesing, L. M., 417
 Getachew, G., W312
 Gettinger, E., 122
 Ghahramany, G., 825
 Gharib Naseri, K., W6
 Ghasemi, E., T443
 Ghavi Hossein-Zadeh, N., T45, T46, W33, W34, W40, W41
 Ghazvini, N., 973
 Ghelich Khan, M., 1053
 Ghiasvand, M., M380
 Ghirardi, J. J., M331
 Gholibaigi Fard, A., W42
 Gholizadeh, H., M437, T445
 Ghorbani, G.-R., T413, T443, W328, 875
 Ghovvati, S., T379
 Ghyamiyipour, S., T139
 Giacomini, L., 986
 Giambrone, J. J., 649
 Gianola, D., 621
 Giardini, W., T417
 Gibb, D., M16, T366, T367, W393
 Gibb, D. J., 727
 Gibbs, T., 856
 Gibson, D. S., 833
 Gies, D. L., 608
 Giesy, S. L., M200, 961
 Gigax, J. A., 1046
 Gilani, A., M256
 Gilaverte, S., M457
 Giles, R., W286
 Gillespie, H. D., T190, W227, 647, 672
 Gillespie, J., 1030
 Gilliam, G. G., 19
 Gilmore, L. A., W360, 825, 1033
 Gimenes, L. U., W281, 828
 Giordani, J. P., T435, T436
 Giordano, J. O., M199, W283, 165, 807
 Giorgi, M., 493
 Gipson, T. A., T457, T468, T469
 Girard, C. L., M408, T395, W209, 716
 Girgis, G. N., W217, W245, W249
 Girish, C. K., W178, W217, W245, W249
 Giusti, M. M., T81
 Givens, D. I., 766
 Givisiez, P. E. N., M102, M247, T138
 Glahn, R. P., 514
 Glanc, D., 1035
 Glasser, F., W424, 212
 Glaze, J. B., Jr., T271, 640, 1008, 1009
 Glover, C., 567
 Go, G., W155, W360, 825, 1033
 Goad, C. L., 767
 Goddard, M. E., 789
 Godden, S. M., 279, 401, 662, 863
 Godfrey, R. W., 407
 Godoy, S., W343
 Goebel, K. P., 152
 Goers, S., T151
 Goetsch, A. L., T456, T457, T468, T469, 757
 Goher, M., M460
 Golab, G. C., 610
 Goldberg, E., M275, M257, M316
 Goldhawk, C., T35
 Golian, A., M204, M256, M318, T200, T442, W257, M252, M258, M259, T201, T234, W262
 Golian, G., M285
 Golombeski, G., T345, T349, T350, T351
 Golombeski, G. G., 397
 Gomelsky, M., 1085
 Gomes, L. H. S., M20
 Gomes, R. C., T167
 Gomez, J. M., 1106
 Gomez, M. A., T459
 Gomez, R. R., 1034
 Gómez, S., T187, 1110
 Gómez-Cortés, P., M456
 Gómez-Martín, A., T460
 Gomez-Raya, L., M460
 Gomide, L. A. M., M161
 Gonçalves, L. S., 952
 Gonda, M. G., M88, M91
 Gondo, A., M79
 Gong, X., T403
 Gontcharova, V., W357, 1048
 Gonyou, H. W., 586, 940
 Gonzales, B., T417
 González, D., M233
 González, F., T132, T464
 González, J. C., 491
 Gonzalez, J. M., T465
 González, J. S., M420
 González, L., M16, M23, T35
 González, L. A., 420, 942
 González, M., M412, 510
 González, M. J., W226
 González, R., W452
 González, U. A., M412
 Gonzalez, V. M., W389
 González, W., W443
 Gonzalez-Alvarado, J. M., T364, 344, 502, 509
 Gonzalez-Bonilla, G. T., T129
 González-García, E., W192
 González-Martín, S., M331

- González-Muñoz, S. S., M441, T114, W338
 Gonzalez-Padilla, E., T322
 González-Rodríguez, A., 819, 820, 821, 907
 Goodall, S. R., 205
 Goodband, R. D., T3, 492, 701
 Goodell, G., 263
 Gooden, M. C., 758
 Goodgame, S., T208
 Goodie, G. L., T96
 Goodling, R. C., Jr., W90
 Goonewardene, L. A., W146
 Gootwine, E., T279
 Gordin, C. L., T109, T110, T111
 Gordon, M. B., 167
 Goselink, R. M. A., 884
 Gottselig, S. M., 539
 Gouffon, J. S., T160
 Goulart, C. C., M208, M213, M223, M224, M247, T214, T215
 Goulart, R. S., M418
 Gould, B. W., 1016
 Gould, J. C., 109
 Gourdine, J. L., M336, M338
 Gouvea, V. N., M415
 Govindasamy-Lucey, S., T79, 792
 Govoni, K. E., T144
 Gow, H. R., 1023
 Graça, D. S., W303, W304
 Grace, O., 790
 Gracia, M. I., T179, 978
 Grado, A., W108
 Graeff, A. L., W171
 Graff, L. J., 587, 943
 Graham, B. C., 19
 Grandin, T., T3, 416, 934
 Grandini, D., M363, M371
 Grandison, A., W75, W76, 305, 802
 Granneman, J. G., 605
 Grant, A. L., 478
 Grant, J. K., 847
 Grant, K. V., 792
 Grant, R. J., M5, M6, M393, M429, T430, W274, 216, 218, 429, 904
 Grant, W. E., M131
 Gratzl, M., 1117
 Graugnard, D. E., 729, 1124, 1125
 Graumann, A. M., W362
 Gravatte, C., W96, 248
 Gravena, R. A., T11, W232, W250
 Graves, J., M195
 Gray, C. W., W84, 1008, 1009
 Gray, K. A., T33
 Graybill, J. S., W114
 Greco, L. F., T269, T434, W166, W279, 264, 1142
 Green, A. R., 1025
 Green, E., M126
 Green, J., 673
 Green, J. T., M332, M337, T6
 Greene, W. A., T266
 Greenfield, R., T396
 Gregorini, P., T315, 632
 Gregory, R. M., W339, W407
 Greiner, L., W233
 Greiner, S. P., 786
 Gressley, T. F., T22, T343, W422, 46, 1146
 Greter, A. M., M8
 Griffin, W. A., 202, 207, 208, 378, 1037, 1044
 Griffiths, M., 947
 Grignola, P., M80
 Grigsby, K. N., 566
 Grilli, E., 450, 451
 Grimes, J. L., M319, 977
 Grimm, A., M62
 Griswold, K. E., W114, W121
 Groccia, J. E., 578
 Groenendaal, H., 55, 278
 Groenewegen, P., T349, W231, 1032
 Grohn, Y. T., 56, 280, 281, 282
 Grondin, R., M338
 Grott, M. J., W87
 Grove, A. V., T328
 Grubb, P. T., 379
 Gruber, M., M411, 460
 Grummer, J., M185
 Guan, L. L., 186
 Guard, J., 1093
 Guasch, I., M4, T312
 Guay, F., W209, W231
 Güçbilmez, M., 865
 Gudenkauf, K., 674
 Gudla, P., W415
 Guenter, W., 542, 657, 695
 Guenther, J. N., W285, M199, W283, 165
 Guerra-Medina, C. E., W107
 Guerra-Medina, E. C., M359
 Guerrero-Cervantes, M., T120, W188, W444
 Guerrero-Legarreta, I., M438
 Guevara, J. C., M332, M337, T6
 Gugle, T. L., 675
 Guilin, C., W21
 Guilloso, S., 111
 Guimamães, R., Jr., W185
 Guimarães Pimentel, P., M14, M465
 Guimaraes, J., T226
 Guinard-Flament, J., W201, 962
 Guinee, T. P., 299
 Gulay, M. S., M244, M283, T62, T63, T64, T65
 Guler, Z., T95, T97, 950
 Gumen, A., 166, 162, 164
 Gungor, S., T62, T65
 Gunkel, C. D., W172
 Gunn, D., T271
 Gunn, P., 849
 Gunn, P. J., 845, 991
 Gunter, S. A., 98
 Guo, C. Y., T355
 Guo, F. C., T218, 872
 Guo, H., W49
 Guo, J., 325
 Guo, K. J., M42, W20, 1083
 Guo, M., T99, T104, T105, T106
 Guo, Y., 326
 Guo, Y. M., M136, T141, 146, 343
 Guozhong, X., M343
 Guraya, R., 1093
 Gürsoy-Balci, A. C., T95
 Gurung, N., T451, T452, 893
 Guthrie, H. D., T285
 Gutiérrez Castro, V., W376
 Gutierrez, F. J., T32
 Gutiérrez-Ornelas, E., T113, T120, T192, T453, W450
 Guy, M.-M., W81
 Gwazdauskas, F. C., T331
- ## H
- Haan, M. M., 634
 Haas, K., 100
 Hada, F. H., T11, W232, W250
 Hadarbadi, G. H., M229, M255, T142
 Hadfield, T. L., M330
 Hadsell, D., M149, 964, 965
 Haeussler, S., T256
 Hagg, F. M., T347
 Hahn, D., 339
 Haines, M. D., W104
 Halalsheh, R. A., M289, 712
 Hall, J. B., M118, T271, 78
 Hall, L. W., 28
 Hall, M. B., 742, 1059, 1061, 1146
 Hallberg, J., T309
 Hallford, D. M., M289, W145, 19, 25
 Ham, J., 736
 Hamal, K. R., M48, W296
 Hamaoka, T., 192
 Hamburg, J. D., 151
 Hamel, N., M134
 Hamidu, J. A., M309, 186
 Hamilton, M. J., M59, M62, T155

- Hammer, C. J., W142, W149, W182, W398, 121
Hammon, H., T257
Hampton, T., 970
Hamzaoui, S., 725
Hamzat, R. A., T197
Han, D., W225
Han, F. F., W242, 765, 982
Han, H., T298
Han, I. Y., 1091
Han, J. H., 454
Hancock, D. D., M43
Hancock, J. D., 675
Hanford, K. J., 49
Hanger, K. G., W359
Hangoor, E., 443, 980
Hanigan, M. D., T261, T331, W297, W298, W354, W419, 427, 664, 1054
Hannah, J. F., 442
Hanning, I., M101, 440
Hansen, D. K., 831, 835
Hansen, J. A., 987
Hansen, L. B., 434, 435, 436, 930
Hansen, P. J., W272, 997, 998
Hansen, S. L., 159, 388, 519, 552, 558
Hanson, A. R., T5, 409, 410, 411, 412
Haq, A., 690
Haratifar, S., 946
Harbac, M. M., M361, 12, 15
Harboe, M., 801
Hardin, M. D., 1029
Hardwick, E. O., T348
Haresign, W., 432
Hargis, B. M., M27, M305, T143, 90, 91, 269, 538
Harmon, D. H., W363
Harmon, D. L., T59, T60, T61, W355
Harner, J. P., 726
Harney, J., 829
Harper, M., W176
Harper, M. T., W181
Harrell, R. J., M295, T218, W233, 699, 970
Harrelson, F. W., 734
Harris, E. K., 642
Harris, P. A., 354, 833
Harrison, G. A., M449, T399, T400
Harrison, J. H., 746, 883
Hart, M. W., M217
Hart, S. P., T457, 756, 757
Härter, C. J., T470
Harthan, L. B., W448
Hartnell, G., M400
Harvatine, K. J., 740, 959
Harvey, B. M., T144
Harvey, R. B., 1088
Harvey, R. M., M442
Hasanlou, S., M468, M469, T307
Hashemipour, H., W257
Hashemzadeh Cigari, F., W328
Hassan, A., M189, W57, 129
Hassan, A. N., M184, 133
Hassan, O., W65
Hassanat, F., W137, 453, 815
Hastings, D., W415
Hatch, B., W429
Hatfield, P. G., 23
Hathaway, M. R., W158, W159
Hathurusinghe, M. H., M99
Hausman, G. J., T255, W469, 711, 1123
Hawley, J., M123
Hax, L. T., M299
Hay, G. M., 84
Hayat, Z., 375, 806
Hayen, M. J., 475
Hayes, D. R., 1023
Hayes, J. E., 503
Hayes, S., 457
Hayes, S. H., W173, W174
Hayirli, A., 976
Hazel, A. R., 434
He, H., T40
He, M. L., M158, M346, M443, T447, W344, 1136
He, S., T67
Heacock, P. S., W89, W91
Heaton, K., 845
Hecht, G. S., 69
Hedayat-Evrigh, N., W37
Heeg, A. M. A., M116
Heegaard, P. M. H., 749
Heguy, J. M., T323, T336, 864
Heick, J. W.-M., T82
Heidari Khormizi, S. R., T306, T307
Heidenreich, J. M., 382
Heidorn, N. L., W469, 711, 1123
Heimbeck, W., T424, 217
Hein, D. C., 892
Hein, S., 999
Heinrichs, A. J., M106, T353, T426, W186, W436, 48, 565, 568, 569
Heins, B. J., 434, 435, 436, 930
Helal, A., T456
Helmbrecht, A., 668
Henderson, L., 928
Hendricks, G. L., III, 827
Hendricks, M. J., W145
Hendrickson, M. K., 81
Hengemuehle, S., W318
Hengst, B. A., T343, W422
Henning, P. H., T347, T398, 1141
Henrique, W., M157, M160
Hensarling, C. M., M127
Hentz, F., W345
Heo, M., W461
Heravi Moussavi, A., M285, M434, M435, T234, T370, T416,
Herkelman, K. L., 495
Herlihy, M. M., W285, W283, 163
Herlin, A. H., 719
Hermes, R. G., 759, 761
Hermida, M., 510
Hernandez-Arrieta, R., M151
Hernandez, J., M227
Hernández, J., T464
Hernandez, L. L., 470, 471, 712
Hernandez, O., W388
Hernandez, R., W320
Hernandez-Briano, P., T324
Hernández-Castellano, L.E., T72
Hernández-Martínez, C.A., T192
Hernandez-Mendo, O., M150, M151, T114
Herndon, C. W., 235
Herpin, P., 76
Herrera, A. M., W343
Herrera-Torres, E., W444
Herrick, K. J., 744
Herring, J. L., 251
Herring, W. O., 926
Hersom, M. J., 779, 780, 781
Hess, B. W., M153, W150, W341, 27, 389
Hess, J. B., M312, T8, T287, 178, 183, 364
Hess, T., 100, M119
Hess, T. A., 810
Hess, T. M., 831, 835
Hester, P. Y., M308, 1027
Heuck-Knubel, K. A., 366
Hewitt, M. A., W249
Hewlett, J. P., 408
Heydari, R., T303, T387, W200
Heyler, K., 739
Heyler, K. S., 40, 481
Hibbard, L. R., 380, 1005
Hickling, D., 979
Hicks, C. L., W64, W70
Hicks, J. A., T19
Hicks, R. B., W359
Higginbotham, G. E., W85
Higgins, J. J., 383
Higgins, S. E., 90, 91, 643
Higginson, J. H., 905
Higgs, R. J., 426
Hill, A. R., M174, 132
Hill, C., T451
Hill, G. M., 385, 901, 1068

- Hill, H., 417
Hill, R. A., 824
Hill, S., M195
Hill, S. R., 233
Hill, T. M., T353, 396, 398, 400
Hilton, G. G., M167, 17
Hinen, J., M400
Hinkle, E., T194
Hinkle, E. E., T16
Hinkle, M. J., 539
Hinton, A., Jr., T255, 447
Hippen, A. R., 659, 744
Ho, J. C. W., W291, 714
Hoar, M. E., 755
Hodgins, D. C., 662
Hoekenga, O. A., 514
Hofacre, C. L., 1087
Hoff, L. A., M88, M91
Hoffman, J. B., 256, 367, 368
Hoffman, P. C., M124, M193, T346,
W431, W433, 437, 461, 462, 571
Hofherr, M. W., T420
Hofsteter, U., W248
Hofstetter, U., W18
Hogan, C., 867
Hogan, D. F., 415
Hogue, D. E., 892, 1049
Højberg, O., 817
Holden, L. A., W86
Holl, J., 926
Holland, B. P., W359, 206
Hollis, L. C., 551
Holliss, A., 274, 489
Hollmann, M., 209
Holman, B., 431
Holt, J. P., M262, T5, 409
Holt, M. S., M196
Holt, P. S., 1024, 1093
Holt, T. N., 556
Holt-Klimek, L., M26
Holtshausen, L., M16, M405, T361
Holub, G. A., 243, 487, 862, 906
Homola, M., T166, T168
Honaker, C. F., 348
Honeyman, M. S., 1040
Hong, P. K., T184
Hong, Q. H., 543
Hong, S. M., M263, M264, T216,
W210, W211, W220
Hong, W. S., 956
Hong, Y. H., T20
Hong, Y.-H., W7
Honrubia, P., 978
Hopkins, A. C., T56
Hopkins, F. M., T474
Hopper, R. M., 1095
Horn, C. H., T398
Horn, G. W., M154, 17, 29, 387
Hornbaek, T., 627
Horner, S. D., W44
Horseman, N., 316
Horseman, N. D., 470, 471
Horstman, L. A., 845
Hoseini Ghafari, M., T442
Hoseinzade, M., W22, 1078
Hoskins, B., 1111
Hossein, J., T237
Hosseini, S. M., T137
Hosseini-Sabeghi, S. H., M375
Hosseini-Vashan, S. J., M318
Hostetler, C. E., 490
Hostetter, J. M., 665
Hotchkiss, J. H., 301
Hou, G., T231
Hou, L., W259
Hou, X., M304
Hougentogler, D. P., 86, 601
Houri Neto, M., T318, T319
House, J. D., M257, M275, M316, 542,
657, 695
Hovey, R. C., W198, 1070
Hovingh, E., M64, 280, 283
Hovingh, E. P., 276
Howe, B. A., M265
Howell, B. J., M21
Hristov, A. N., W322, W323, 40, 214,
481, 739
Hsiao, H. Y., 1114
Htoo, J. K., 492, 494, 677, 678
Hu, H., M143, W78
Hu, J., 113
Hu, W., T457
Hu, Z.-L., 924
Hua, S., 661
Huang, C. H., 326
Huang, F. R., 644
Huang, H. S., T248
Huang, I. N., 956, 957
Huang, J. F., M314, M315
Huang, M., 1082
Huang, T. H., W464
Huang, Y., W144, 637, 638
Hubbard, S., W29, W268
Hubbell, D., 100
Hubbell, D., III, M119, M120
Huber-Rockow, J. C., T89
Huebner, S.M., 4
Huerta Bravo, M., M150, W95, W226,
1099
Hughes, C. A., T471, W352, 323, 752
Huh, C. S., W51, W52
Huhtanen, P., M451, 561
Hui, K. P. C., 943
Huisma, C., 1030
Huisman, A. C., T332
Hulbert, L. E., M28, T15, T24, T154,
T156
Hulet, R. M., 180, 503, 811
Hulland, C., M192
Hume, M., M276, 440
Hume, M. E., 88, 656
Hummel, J., W118
Humphrey, B., W203
Humphrey, B. D., M134, M221, 272,
498
Hun, J., 1142
Hünerberg, M., T361
Hunt, C.W., 203
Hunt, K. M., T23
Huntington, G. B., M445, 878, 910
Hurley, S. L., M307
Hurshman, H. M., 119
Hurst, W., 244
Hurt, E. E., 302
Hurtaud, C., W201, 962
Husfeldt, A. W., 861
Hussain, I., 806
Hutcheson, J. P., W161, 114
Hutchinson, I. A., 169
Hutchinson, J. R., 359
Hutchison, C. F., 39
Hutchison, J. L., W30
Huwe, J. K., 1024
Hux, J., 153, 154, 373
Huyghebaert, G., 155
Huzzey, J. M., W274
Hvelplund, T., T316
Hyler, K. S., 214
Hyon, S. H., T281
- I**
- Ibrahim, S., W415
Ibrahim, S. A., M99, W65, W66
Idlett, M. A., T108
Ido, S., M76
Ijaz, A., 994
Ilf, J. W., 13, 1004
Ilse, B. R., 1036
Im, J. H., W50, W52
Impoco, G., T66, T86, 798
Ingham, S. C., 134
Ingvarsen, K. L., T326
Inostroza, F., M103
Insalaco, E., 938
Invernizzi, G., 468, 840
Ionescu, C., 689, 1120, W216, 1017,
1018

Ipharraguerre, I., T354, 1122
Ipharraguerre, I. R., T352, 908, 909
Iqbal, A., 589
Iqbal, S., T391, T392, W1, W2, W3,
W4, W5, 1079
Irish, D. A., M179, M180
Irlbeck, N., 939
Irsik, M., 779
Isabel, B., T236
Isenhardt, T. M., W316
Ishlak, A., W415
Isikhuemhen, O. S., M307, W65
Islas, A., 1138
Islas-Trejo, A., 661
Issa, S., 675
Isselstein, J., 94
Ito, K., M7, 726
Ivey, S. L., 734
Iwaasa, A. D., 855, 1031
Iyayi, E. A., T209, T210

J

Jabbar, M. A., 374, 375, 796, 1100
Jabbari, S., M416
Jabeen, H., 796
Jackson, K. M., 247
Jackson, M. E., 1114
Jacob, J. P., W324, 1013
Jacob, R., T18
Jacobi, S. K., 310
Jacobs, C. M., M222, 347
Jacobsen, S., 749
Jacques, K. A., W228, W239
Jaeger, J. R., T265, 11, 13, 14, 205, 380,
1004, 1005
Jaeggi, J. J., 792
Jafari Tarbaghan, M., W38
Jafari, M., T413
Jahani Aziz-Abadi, H., M349, M350,
M434, M435, T379
Jahani, H., M353
Jai, V., T78, T88
Jalaludeen, A., 336
James, R. E., W329, 221
Jamison, W., 34
Janagama, H. K., M69
Janati, H., M458
Janevski, O., M184
Jang, H. D., M243, M269, M270, T220,
W220
Jang, S.-I., W7, 273
Jani, E., M349, M350
Janmohammadi, H., T198
Janovick, J. A., 602

Janowski, J. M., T321
Janzen, E., T35, 420
Jarret, J., 1112
Jasso-Diaz, G., W440
Javaid, A., 1050
Jeffrey, M., 674
Jendral, M., T182, 257
Jenkins, K. H., 99, 197, 198, 200, 201
Jenkins, M. C., M140, 656
Jenkins, T., 883
Jenkins, T. C., 37, 746
Jennings, J., 100, M119
Jennings, J. S., M370, W157
Jennings, S. S., M19
Jennings, T. D., 636
Jenny, B. F., W165, 39
Jensen, B. B., T249
Jensen, C., 817
Jensen, D., 21, 913
Jensen, J. L., 801
Jensen, K. S., W92, 1008, 1009
Jeon, S. S., T75, T74
Jeong, J. W., W56
Jeong, J. Y., T180
Jeske, T. M., M171, T176
Jessen, K., M29, T207, 341, 512
Jha, R., 677, 678
Ji, H. F., T238, T247, W213, W259
Ji, H. G., T446
Ji, P., 840, 870
Jia, W., 686, 979
Jian, P., 644
Jiang, H., T289, T293, W153, W156,
112
Jiang, J., 275, 276
Jiang, S. Z., M253, T115, T223, T243,
W244, W246
Jiang, T., M162, 320
Jiang, X. C., M52
Jiang, Z. Y., 679, 680
Jiang, Z., M75, 350
Jianqin, X., W21
Jiménez, F., T464
Jiménez, J., T404
Jiménez-Flores, R., M173, M177, T82,
T89, W49, W68
Jiménez-Moreno, E., 344, 502, 509
Jiménez-Peralta, F.S., M351, M352
Jin, G. W., T439
Jin, M. L., 1082
Jing, M., M275
Jingyi, G., W21
Jinks, E. M., 848
Jo, C., 517
Jo, J. K., T219
Johnson, A. K., T4, 417

Johnson, B. J., T24, W160, W383, 1033
Johnson, B. J., W17, W155, W161,
W360, 114
Johnson, B. R., M118
Johnson, D. G., 434
Johnson, G. A., 7
Johnson, G. C., W396
Johnson, J. S., M37, M38, 592, 1080
Johnson, K. A., T332, 203
Johnson, K. D., W353
Johnson, M. E., T81, 792
Johnson, M. L., 190
Johnson, M. T., 255
Johnson, N. F., M442
Johnson, P. N., 633
Johnson, R., 229
Johnson, R. W., T159
Johnson, S. E., 475, 830
Johnson, S. K., T265, 78
Johnson, T. E., T311, W167, W168,
W169
Johnston, J. D., T397
Johnston, N. P., T195
Jokela, W. E., M124
Jolliff, J. S., 521
Jones, C., 790
Jones, D. A., 244
Jones, D. F., W115, W128, 1058
Jones, D. R., 1024, 1094
Jones, K., W415
Jones, L. R., W123
Jones, M. L., 529
Jones, R. O., 332
Jones-Anding, C., M67
Jonker, A., M411, 460
Joo, S. T., M172, T180
Jordan, A., M29, T207, 341
Jordão Filho, J., M215
Joy, M., M219
Ju, J. W., W395
Juarez, F., W384
Juarez, M., M456
Juárez-Reyes, A. S., T120, T192, T453,
W188, W450
Juárez-Reyes, A., W444
Juchem, S. O., T317, T383, W312
Juchem, S., T441, 1051
Juhnke, J., 93
Julean, C., M273
Julien, C., 750
Jung, B., 670
Jung, E. Y., M172, T180
Jung, H., 117
Jung, H. G., 452, 564
Jung, J. H., M242, M260, M269, T220,
T232, W211

- Jung, S., M296
Junxin, X., M343
Jurado, K. A., W145
Jurkevich, A., 708, 709, 710
Justice-Allen, A., 263
Justino, R., M166
Justolin, P., W277, W278
Juurlink, K., T182, 257
- K**
- Kabara, E., 65
Kadrea Genedy, T71
Kahl, S., W16, W19
Kailasapathy, K., M178
Kaiser, A. M., T286
Kaiser, J., 573
Kakani, R., 690
Kalchayanand, N., W102
Kallenbach, R. L., M85
Kalof, L., 1026
Kalscheur, K. F., 133, 659, 744
Kamanga-Sollo, E., W158, W159
Kammes, K. L., M391, M430
Kanani, J., M125
Kang, C. W., W18
Kang, E. J., M176
Kang, H. S., W461
Kang, S. W., M303, 365, 707
Kanne, K., 1069
Kapphahn, M., 9
Kapur, V., M65, 63
Karakaya, E., 166, 162, 164
Karapinar, T., 1073
Karavan, F., W288
Karcher, D., 541, 544, 545, 1027
Karcher, E. L., 224, 238, 247
Kargar, S., 875
Karges, K. K., 203, 1036
Karimi Torshizi, M. A., M34, M229, M255, T13, T139, T142, W12, W13, W14, 1074, 1075
Karimi, A. J., T189, T208, T224
Karimi, A., 107, M207, M210, T225, W439
Karle, B. M., T323
Karnati, S. K. R., 743
Karns, J., 280
Karns, J. S., 276, 283
Karnuah, A. B., T42
Karr-Lilienthal, L. K., T54
Karrow, N. A., W110, W217, 274, 489
Kastelic, J., M23, M158, T35
Katanbaf, M. N., M308
Kathariou, S., M319
Kattesh, H. G., M281, T273, T300, T474, 176
Kauf, A. C. W., 469
Kaufmann, L. D., M426
Kause, A., 430
Kawassumi, M., 116
Kay, J., 213
Kay, J. K., W194, 721
Kaye, J., W322
Kazama, R., W435
Kebreab, E., 542, 1056
Kee, D. D., T108
Kegley, E. B., M120, M123, M367, 774
Kegley, E., M119
Kehoe, S. I., T325, T348
Keis, E., 829
Keisler, D. H., T258, T270, 403, 771
Keithly, J. I., 23
Keller, K., T25
Keller, W. L., T176
Kelley, K. W., T159
Kelley, S., 495
Kellison, R. L., 633
Kelman, W. M., 891
Kelton, D. F., 905
Kelton, D., 663, 928
Kelzer, J. M., 555, 556, 1043
Kendall, D. C., 987
Kendall, N., W284
Kennedy, P., 630
Kenny, J. J., M394
Kenney, N. M., 97
Kensinger, R. S., 469
Kenyon, A. G., W287, 486
Keown, J. F., W83
Kephart, K. B., W181
Kerley, M. S., M85, M442, W350, 115, 1030
Kermanshahi, H., M252, M256, M258, W236, W257
Kerr, B. J., 685
Kerr, K. R., T57
Kersbergen, R., W91
Kerth, C., 893
Kerth, C. R., 377, 446
Kerth, L. K., 377, 446, 1092
Kertz, A. F., 396
Keskin, A., W285, 166, 162, 164
Kesler, D. J., 78
Kessler, K. L., 31
Ketchen, D. J., 1049
Kethireddipalli, P., 132
Khafipoor, E., W216
Khafipour, E., T390, 841
Khajali, F., M48
Khaksar, V., W257
Khalil, H., T82
Khalilvandi-Behroozyar, H., M114, M115
Khan, M. A., T344, T357
Khan, M. I., W101
Khan, M. J., 1060, 1124, 1125
Khan, M. K., 589
Khan, M. S., T357
Khan, M. Z. U., 374, 806
Khare, S., 59
Khas-Erdene, T90, T440, W408, 871
Khatiwada, J., 893
Khattak, F. M., 375
Khomkamon, C., 516
Khorashadizadeh, M., W417, W426
Khorvash, M., T413, T443, W328, 875
Ki, K. S., W416
Kiaei, M., M34
Kiarie, E., T228, W214
Kidd, M. T., W268, 143, 499
Kiesling, D. D., 1040
Kiess, A. S., W104, 361, 441
Kilcawley, K. N., 299
Killian, G. J., 531
Kim, B. G., 491, 496
Kim, B. W., W395
Kim, D.-K., M141, 466
Kim, E. J., M220, M222
Kim, G. B., M49, W50, W51, W52
Kim, G. D., M172, T180
Kim, H., 1112
Kim, H. J., M49, M242, M260, M264, M267, M271, T232, W51, W210
Kim, H. S., W416
Kim, I. H., M242, M243, M260, M263, M264, M267, M269, M270, M271, T216, T220, T232, W210, W211, W220, W272
Kim, J. S., T219
Kim, K. H., T219
Kim, M., T262
Kim, S., M132, M140
Kim, S. C., W446
Kim, S. W., M217, M226, 137, 987, 1063
Kim, Y. H., T275, T276, 992, 993
Kim, Y. J., T446
Kim, Y. W., T219
Kincaid, R. L., 883, T332
Kinch, J. K., W414
Kindstedt, P., T70
King, M. E., 1001, 1002
King, W. D., T190, W227, 327, 672, 1111
Kinnamon, S. C., 1116
Kinney, C. A., 86

- Kirch, B. H., M121
 Kirksey, R. E., M87
 Kirkwood, R., W271
 Kirovski, D., W298
 Kirsch, J. D., T176, 9, 642
 Kiser, S., 964
 Kishore, D. K., M37, 592
 Kisiday, J. D., 831
 Kistemaker, G., 929
 Kitazawa, H., 955
 Kitt, S., W269, W270
 Kitts, B. L., M8, 570
 Kivipelto, J., 122
 Kizil, O., 1073
 Kizilkaya, K., 924
 Kjaer, J. B., 1027
 Klaenhammer, T. R., 624
 Klaiber, L. B., M5, 904
 Klaiber, L. M., M5, M429, 904
 Klasing, K. C., W224, 518, 694
 Klein, C. M., 37
 Klein, D. R., 267
 Klein, J., M29, T207, 341
 Kleinschmit, D. H., W115, W128, 1058
 Klintworth, R., W296
 Kloepper, M. O., T473, 897, 899, 900, 1071, 1072
 Klopfenstein, T. J., W385, 49, 99, 202, 204, 207, 208, 378, 546, 557, 1037, 1044, 1046
 Klotz, J. L., M121, M122, W355, W363
 Kluth, H., 668
 Knabe, D. A., 7
 Knezacek, T., W266, 260
 Knight, C. D., W233, 153, 154
 Knight, J. W., 898
 Knoebel, N. A., 1054
 Knol, E. F., 430
 Knowlton, K. F., W329
 Knust, B., M66
 Ko, Y. D., W446
 Koch, K., W221
 Kocher, M., T217, T254
 Kochian, L. V., 514
 Koci, M. D., 463
 Koci, M., M137
 Koelkebeck, K. W., W256
 Kogut, M. H., T40
 Kohram, H., M287, T280, T303, W200
 Kojima, C. J., T160, T300
 Kollanoor Johnny, A., W101, 336, 974
 Kommineni, A., M183, T73
 Kondo, S., M381
 Kong, B.-W., M55
 Kong, C., M209
 Kongmun, P., M339, T368
 Kononoff, P. J., M433, T362, W412, 485
 Koontz, A. F., W363
 Kopanko, A. M., 912
 Kordi, M., M406, M407, M428
 Korver, D. R., 190, 501, 513
 Koseoglu, V. K., 1085
 Koser, S. L., T260, W299
 Kosonsiriluk, S., M303, W290, 365, 707
 Kotha, S., T144
 Kott, R. W., 23, 25
 Kouri, K. M., T432
 Kovar, J. L., W316
 Kovner, I., T136
 Krafka, K., 878
 Kraft, B. L., 1089
 Kraft, G., M452
 Kraft, T. K., 14
 Kramer, A. J., 283
 Kramer, J. K. G., M394, 148
 Krantz, J. H., 846
 Krause, D. O., T228, T390, T393, W214, W216, W432, 841
 Krause, K. M., T401, 44
 Krawczel, P. D., M5, M6, 246, 429, 904
 Krawczel, P. K., T430
 Krebs, L. B., T31
 Krehbiel, C. R., 17, 49, 206, 244, 387, 735, 767, 768, 769, 783
 Krehling, J. T., W334
 Kreider, D., M119
 Kremer, C., 269
 Kreuzer, M., T178
 Kriese-Anderson, L. A., 69
 Krishnamoorthy, S., T43
 Krishnan, P., 696
 Kristensen, N. B., M404, T249, T253, T316, T341, T419, W418, 817
 Krizsan, S. J., M451, 561
 Kroeker, A. D., 841
 Kroeker, A., T390, T393
 Krueger, L. A., 251
 Krueger, N., 450
 Krueger, N. A., W103, 1029, 1088
 Krueger, P., W111
 Krueger, W. K., 1034
 Krumheuer, J. M., W230
 Kruse, K. A., 571
 Kruse, S. G., 996
 Krzysik-Walker, S. M., 827
 Ku, B. H., T216
 Kuan, T. C., M145
 Kubat, N., 279
 Kuchida, K., M76
 Kuehn, C., 635
 Kuehn, L. A., 70, 523
 Kuenzel, W. J., 588, 708, 709, 710
 Kugadas, A., M69
 Kuhla, B., T257
 Kühn, I., T202, T230
 Kumar, A., M71, 57, 285
 Kumar, G. S., M101
 Kumar, R., M187, 101
 Kunej, T., M75
 Kung, L., Jr., W121, W127, 47
 Kunz, L., 1117
 Kuo, C. J., 63
 Kurdal, E., T77
 Kutschenko, M., M208, M223, M224
 Kuttappan, V. A., 329, 330, 588
 Kuttinarayanan, P., 974
 Kutzner, B., M400
 Kwak, H. S., T74, T75
 Kweon, E. G., T446
 Kwok, A. H. Y., W291, 369
 Kwon, W. S., T275, T276, 992, 993
 Kwon, Y. M., 107
- ## L
- La O-Leon, O., M345
 La Terra, F., M100, 307
 Laarman, A. H., 483
 LaBresh, J., M141, T20
 Lacasse, P., M96, M97, W405, 317
 Lacerda, P. B., M215
 Lachica, M., W106, W222
 Laforest, J. P., T246, 940
 Lafrenière, C., T34, 456
 Lage, I., M166
 Lage, J. F., W365
 Lago, A., T336, 864
 LaGrow, C., T308
 Lake, S. L., W93, W353, 381, 845
 Laki, A., W37
 Lalman, D. L., 29, 857
 Lamb, G. C., T264, T265, T310, W300, W301, W302, 78, 555, 556, 779
 Lamberson, W. L., M79
 Lambert, B. D., W358, 458
 Lambertucci, D. M., T26
 Lammert, A., T103
 Lamont, E. A., M69, 58, 62, 64
 Lamont, S. J., M138, 271
 Lamptey, A., M320, T205, 878
 Lana, A. M. Q., T318, T319
 Lana, R. P., M410, T406
 Lancaster, P. A., 17, 387, 1034
 Landry, J. C., 240
 Lang, I., M279
 Lanka, K. E., W115, W128, 1058
 Lankford, L. M., M289, 712
 Lanna, D. P. D., M163, M164, T29, T30,

W342, W347, W348, W380, W381
 La-O, O., T113
 Lapierre, H., M452, T444
 Lapointe, C., W54
 Laporta, J., W147
 Laporte-Urbe, J., 1052
 Lara, EC, W135, W136
 Lara, J., 345
 Lardner, H. A., W367, 101, 855, 1031
 Lardy, G. P., 8
 Larkin, J., T414
 Larsen, K. M., M179
 Larsen, M., M404, T419, W418
 Larsen, R., 93
 Larsen, S., 801
 Larson, B. A., 1015
 Larson, D. M., 853
 Lascano, G. J., W184, W186, 568, 569
 Lassiter, K., T143
 Latorre, M. A., M219, W218
 Latshaw, D., T262
 Laubscher, A., W49
 Lauderdale, J. W., 78
 Lauer, J. G., M108
 Lauriault, L. M., M109, M110
 Lauriault, L., M87
 Lauzon, K., M379
 Lavaf, A., W42
 Lavergne, T. A., 84
 Lawlor, P. G., 508
 Lawlor, T. J., W25, 616
 Lawrence, J. M., M117
 Lawrence, K. C., 328
 Lawrence, L., 457
 Lawrence, L. M., W173, W174, 123
 Lawrence, T. E., 114
 Lay, D. C., Jr., M1, T4, 415, 777, 1027
 Lay, J. O., Jr., M25
 Layfield, K. D., T475
 Layton, S. L., 269, 538
 Lázaro, R., W223, 141, 344, 497, 502, 509, 510
 Lazo-Soto, R., M474
 Le Bihan-Duval, E., 479
 Leachman, L. D., 786
 Lean, I., W280, 172
 Lean, I. J., 886
 Leandro, N., 177
 Leandro, N. M., M137
 Leão, M. I., T406
 Lebel, A., W231
 LeBlanc, M. M., 1098
 LeBlanc, S. J., 595, 596, 662, 663
 Lebold, K., W16
 Lebrilla, C. B., 661
 Leclerc, D., W54
 Ledgard, S. F., 632
 Ledoux, D. R., W243
 Leduc, E., M22
 Lee, A., T146
 Lee, A. E., M464, 267, 458
 Lee, B. D., 517
 Lee, B. Y., 192
 Lee, C., W322, W323, 214, 739
 Lee, E. H., 653
 Lee, H. B., 667, 691
 Lee, H. G., T439, W361
 Lee, H. R., 517
 Lee, J., M29, T208, 512
 Lee, J. H., M243, M263, M264, M270, M271, T219, W51, W58, W210, W211, W220
 Lee, J. S., W416
 Lee, J. T., 539
 Lee, J. T., T207, 341
 Lee, J. Y., M55
 Lee, K., T145, T146, T262, W392
 Lee, K. A. K., T117
 Lee, K.-W, 273, 650
 Lee, M., 1087
 Lee, M. H., W52
 Lee, S. C., W361
 Lee, S. H., T20
 Lee, S. J., T75
 Lee, S. J. P., 1070
 Lee, S. K., 517
 Lee, S. R., M314, M315
 Lee, S. Y., W416
 Lee, S.-H., M141, W7, 273, 466, 650
 Lee, T., 111
 Leeds, T. D., 751
 Lee-Rutherford, L., 1123
 Leeson, S., W228
 Lefebvre, D. M., 716
 LeFloc'h, N., M230
 Legarra, A., W25, 616
 Legrand, A. L., 718
 Lehman, R., 348
 Lehman, R. N., 333
 Lehn-Jensen, H., 1097
 Lehrer, H., M282, T365, W399
 Lei, X. G., T251, W215, W235, W240, W241, W264, 160, 679
 Leigh, A. O., M310
 Leigh, M. B., 567
 Leite, M. O., T83, T84, T85, T318, T319, W43, W53, W59, W71, W99
 Leite-Browning, M. L., 932
 Leitman, N. R., 79
 Leiva, T., M277
 Lekatz, L. A., M278, T176, W142, W149, 1130
 Leksrisompong, N., 187
 Lelis, G., M214
 Lema, M., T450
 Leme, P. R., T167
 Lemenager, R. P., W93, W353, 381, 845
 LeMieux, F. M., M369, T108
 Lemley, C. O., M284, M294, 525
 Lemme, A., 491, 668
 Lempp, B., T109, T110, T111
 Lencioni, P., M363, T427, T428
 Lengi, A. J., 873
 Lents, C. A., W469, 711, 1123
 Lenz, T., 36
 Leonard, E., M445
 Leonard, J. J., 866
 Leonardi, C., W425
 Leonor, S., M272
 Lepage, P., M26
 Lescun, T. B., 834
 Leslie, K. E., M51, 392, 401, 595, 596, 662, 663, 903, 905, 928
 Lester, H., M48
 Leterme, P., 351
 Letourneau Montminy, M. P., T229, W237, 1107
 Leung, F. C., W291, 369, 714
 Lewin, H. A., 391, 729, 1060
 Lewis, A. W., 526, 537, 851
 Lewis, G. S., 577, 631, 751
 Lewis, M. J., 802
 Lewis, M., W75, W76, 305
 Lewis, R. M., M126, 321, 432, 786, 912
 Leytem, A. B., 337
 Leyton Barrientos, L. B., T122
 Li, C., M142, W16, W19
 Li, D., T386
 Li, H. M., 473
 Li, H. T., 146
 Li, J. G., W235
 Li, L. L., 219
 Li, L., M65
 Li, M., T47, 186
 Li, N., M286, T281, M194
 Li, Q. Z., M142, W195, 473, 474, 593, 958
 Li, R., T99, W225
 Li, S., T390, T393, T454, T455, 841
 Li, S. L., 219
 Li, S. S., M53, W79, W80
 Li, W., 544
 Li, X., M138, T67, W58
 Li, X. L., 7
 Li, X. Y., W78
 Li, Y., M305, 474, 984
 Li, Y. L., M306, M424, W344, 1139
 Li, Z., 116

- Liang, C., W225
Liang, K., 219
Liang, X., T99
Liang, X. W., 219, 803
Liang, Y., W350
Liao, S. F., W238, 559
Liburt, N, W180
Licitra, G., M100, T66, T76, T86, 307, 797, 798, 860, 951
Lien, R. J., T8, 183
Liesman, J., 120
Lilburn, M. S., 645
Liljebjelke, K., 447
Lillehoj, E., W7
Lillehoj, H. S., T20, 652
Lillehoj, H., M141, W7, 273, 466, 650
Lilly, K. G. S., W267, 331, 346
Lim, J. M., W127
Lima Neto, R. C., T138
Lima, F. S., T434
Lima, G. S., M213
Lima, H. L., M165, M414, W368, W369
Lima, J. C.M., M363
Lima, J. R., M66, M95, M409, W287, 55, 486
Lima, J. S., W347, W348
Lima, L. D., T470
Lima, M. R., M213, M248
Lima, R. C., T214
Lin, C. C., M314, M315
Lin, C. S., M145
Lin, J. H., M314
Lin, R. S., W464
Lin, T. L., M70, 277
Lin, Y. C., 679, 680
Lin, Y. H., M315
Lin, Y. M., 174
Lindberg, N. N., 591
Lindemann, M. D., W238, W468, 522, 676
Lindholm-Perry, A. K., 70
Lindquist, R., 204
Link, J. E., 901
Linn, J. G., 397, 434, 564, 1041
Linn, J., T345, T351
Lippins, L., W432
Lisserre, A. M., 952, 954
Liska, A. J., 546
Lissemore, K. D., 662
Listiyani, M. A. D., M175
Litherland, N. B., 397, 564, 1041
Liu, D., T293, M136
Liu, F. H., M39, M40, M41, M42, W20, 1083
Liu, F. Z., W206, W207
Liu, G., T39, W199
Liu, H., T454, T455
Liu, H. C., T19, 519
Liu, H. Y., W196, 220, 869
Liu, J. X., W196, 220, 717, 803, 869, 872, 880
Liu, K. L., T90, T386, T440, 871
Liu, L., 1114
Liu, Q. S., T90, T440, 871
Liu, T., M26, M431
Liu, W., 249
Liu, X., 71
Liu, Y., T252, W241, 982
Liu, Y. F., 765, W242
Liu, Z., 220, 545, 717
Livingston, A., T9
Livshitz, L., M282, T365
Liyanage, R., M25
Lloyd, K. E., 878
Lo, L. L., W456, W464
Loar, R. E., II, 499, 671
Lobao, L. M., W94
Lobato, G. B. V., M223, T214, T215
Lobeck, K. M., 863
Lobinski, R., M46, 1017, 1018
Lobo, A., M332, M337, T6
Loboa, E. G., W234
Lodge-Ivey, S. L., T121, T131, W309, 10, 22
Lodi, P., 217
Loeffler, T., 687
Loera, O., M441
Loerch, S. C., W392, 549, 822
Loesel, D., T151
Löest, C. A., 19, 734, 737
Lohakare, J. D., T219
Lollivier, V., M146
Lombard, J., M57
Lombard, J. E., 276
Lombardelli, R., M302
Loncke, C., M452
Londero, A., M236, M237
Loneragan, G. H., M47, M86, 422
Loneran, G. H., 30
Loneragan, P., 169
Long, F. Y., M136
Long, J. A., 995
Long, M., 214, 739
Long, N. M., M280, W150, 637, 914, 1129
Looney, C. R., M19
Loop, S. A., W267, 331, 346, 340
Looper, M., M119
Looper, M. L., M120
Loor, J. J., 210, 391, 468, 729, 730, 840, 870, 1060, 1124, 1125
Lopes, A. M., W378, W381
Lopes, C., W276
Lopes, F., M193
Lopes, F. C. F., M111, T461
Lopes, G., Jr., W285, M199, W282, W283, W287, 486
Lopes, I., W324, 1013
Lopes, J. C., T112, T118
Lopes, L. S., W295
Lopes, N. M., T381, T417, T421, T425, W421
Lopez, A., W388
López, D., T132, T364, T465
López, J., W261
López, J. M. R., T177
López, J. P., T181, 110
Lopez, M. A., W389
López, R., M246
López, S., M420, T356
López-Bote, C. J., W218, T236
Lopez-Carlos, M. A., M94, M470, T32, T324, W440
Lopez-Coello, C., 1104
López-Cruz, I., T127
Lopez-Hernandez, A., T81, T102
López-Mazz, C., T290
López-Ordaz, R., 433
López-Pérez, E., M329
Lorenzen, C. L., 81, 787
Lortal, S., 307, 951
Lory, J. A., 82
Lossie, A. C., 350
Lotfi, M., W6
Lotfolahian, H., M318
Louvandini, H., W441
Louzada Regadas Filho, J. G., M14, M465
Lovandini, H., W445
Love, C. C., 124
Løvendahl, P., T316
Lowman, Z., M317
Loy, D. D., M386
Loya-Holguin, F., W308
Loya-Olguin, F., M87, 1138
Loyd, A. L., 851
Loyd, A. N., 526, 537
Loyd, A., T31
Loyd, T., T265
Lozano, R., T322, T324
Lu, A., M40, M41, W20
Lu, C., M207, M210, T189, T208, T224
Lu, T., W429
Lu, Y., T79, 804
Lu, Z., 56, 280, 281, 282
Lu, Z. Q., 1082, 1084
Luan, C., W242, 982
Luan, G. C., M93

- Luan, W. L., 1083
Luan, W., M40, M41, M42
Lucas, M., T308, T309
Lucas, R. C., M366
Lucey, J. A., T79, T101, 792
Lucey, J., 804
Luchanski, J. B., T80, 300
Luchini, D., T433, T437
Luchini, N. D., T425, W374
Lucia, J. L., W182
Lucy, M. C., 1021
Ludke, J. V., M248
Ludke, M. C. M. M., M248, W255
Luebbe, M. K., 200, 201, 1044
Luevano-Escobedo, R., T120
Lum, J., M305
Lumpkins, B., T205, 653
Luna, S. F., T109, T110, T111
Lund, P., T316
Lund, U., T78
Lundquist, D., W423
Lung'aho, M., 514
Lupton, C. J., M462, M463, 753
Luqman, M., 806
Lusk, J. L., 611
Luther, J. S., 9
Lv, L. J., T247
Lv, Y., 593
Lyons, J. G., 421, 524
- M**
- Ma, L., 960
Ma, W. M., M56
Ma, X. Y., 679, 680
Ma, Y., M101, T67, 639, 914, 1131
Ma, Y. L., 522
MacAdam, J. W., M191
Macalintal, L. M., T190, W227, 647, 672
Macaraeg, D., 970
Macciotta, N. P. P., M82, W2, 615
MacDonald, J. C., W358, 10, 197, 198, 200, 201
Macedo, B. A. O., W441, W445
Macek, M. J., 13, 380, 1004, 1005
Machado, A. B. S., T130, 1121
Machado, M. G., M363
Macías-Cruz, U., M325, M326
Mack, L. A., M311, T4, T38
Mackinnon, A., W390
Macklin, K. S., W334, 266, 335
MacNeil, M. D., M75, 852, 923
Macon, B., 232
Madden, R. D., 769
Maddock, R. J., M171, 1036
- Maddock, T. D., W302, 555, 556, 779
Maddock Carlin, K. R., M278, T176, W142, W149
Madison, R. K., 96
Magalhães, J. D., 828
Magalhães, K. A., W126
Maghsoudi, A., T13
Magliaro-Macrina, A. L., 469
Magnabosco, C. U., W185
Magnin, M., T229, W237, 1107
Magolski, J. D., T176, 642
Mahajan, A., W234
Mahan, D. C., W239, 521
Mahjoubi, E., M33, M35, T320, W438, W439, 1053
Mahmodi, M., M401
Mahmud, A., 374
Mahnken, C. L., 1135
Maia, I. S. G., M383, M466
Maia, M. O., M455, M457
Mainardi, S. R., W422
Makagon, M. M., 253, 254
Makkar, H. P. S., 869
Mako, A. A., 504
Malaspina, C. A., M107
Malau-Aduli, A. E. O., 431, 1102
Maldonado, F., T165
Maldonado-Siman, E., M474, W10, M150
Malhado, C. H. M., M79
Malheiros, R. D., 700, 972, 977
Malik, G., T158, 351
Malinowski, D. P., W357, 1047, 1048
Mallmann, C. A., 986
Mallo, J. J., 978
Mallory, D. A., 80, 842, 843, 844
Malot, J., W176
Maltecca, C., M88
Mamede, M. M. S., W185
Mamedova, L. K., T299, T394, 111, 529
Man, S., 748
Manangi, M., 153, 154, 373, 1104
Manca, M. G., M472, W459, 324
Mancini, R., T144
Mancio, A. B., T26, T406
Mandarino, R. A., W305, W377
Mandell, I. B., T171, T191, W366, 319, 738
Mandell, I., 322, 1035
Manenti, M., M100, 307
Mangold, B. L., 276
Manidari, E., W438
Manjarin, R., W271, 832
Mann, G., W284
Manoharan, M., 270
Manriquez, O. M., W389
- Manso, A., M50
Manso, T., M456
Manteca, X., T2, W457, T1, W454, 145
Mantecón, A. R., M456
Mantovani, H. C., 748
Mantz, G. K., 925, 1010
Manzanilla, E. G., W457
Manzo, R., W92
Mao, X. Y., T100
Maquivar, M., 848, 849
Maradiaga, W., M332, M337, T6
Marchand, S., M26
Marchant-Forde, J. N., 415
Marchant-Forde, R. M., 415
Marcinkowski, D. P., W91
Marcondes, M. I., W373
Marden, J. P., 750
Marella, C., 949
Mariani, T. M., T28, W379, W380, W381, W387
Marino, C., M355, M356
Marino, G., T66
Mariscal Aguayo, D. V., W95
Marks, D. L., W141
Marks-Callahan, A., 867
Marques, R. H., T11, W232, W250
Marquez, A. F., M165, M414, W368
Márquez, G. C., 432
Marquezini, G. H. L., T264, W300, W302
Marr, C., W252
Marra, A. L., M415
Marricle, M. M., 712
Marsalis, M. A., M109, M110
Marshall, J., 192
Marshall, J. K., 351
Marshall-Jones, Z., 294
Marsola, R. S., T384, T434, W166, W279, 264
Marta, S., 21
Martel, C. A., 529
Martha, G. B., Jr., 75
Marti, S., M10, 550, 733, 1038
Martin, A., W106
Martin, C., M396
Martin, J. J., W359
Martin, J. L., 853
Martin, N. P., 461
Martin, R., T396
Martin, S. K., T59, T60, T61
Martineau, R., T444
Martínez, A., W470
Martínez, G. M., M423, M425
Martínez, J. C., M397, M399
Martínez-González, J.C., M131
Martínez-Hernandez, P., M474, T129,

W10
 Martínez-Ibarra, J. A., M131, W107
 Martínez-Pérez, M. F., W308, 1138
 Martínez Ramírez, H. R., 148
 Martini, S, T69
 Martín-Orúe, S. M., 761, 759
 Martins, C. L., T28, T29, T30, W378,
 W379, W380, W381, W387
 Martins, L. T., T269, T434, W166,
 W279, 264
 Martins, P. G. M. A., W301, 850
 Martins, T. S., M363
 Martinson, K., 36, 117, W129
 Martorana, K., M134, W230
 Martynova-Van Kley, A., 270
 Marubashi, T., 192
 Marx, G. D., 930
 Masa' deh, M. K., T188, 669
 Masching, S., W8, 265, 1076
 Massey, R. E., 82
 Mateescu, R. G., M167, W143, 783
 Mateo, R. D., M217
 Mateos, G. G., M232, T149, T150,
 T181, W223, W258, W263, 110, 141,
 344, 497, 502, 509, 510, W212
 Mateos, I., T134
 Mathews, B. W., T117
 Mathis, G., T205, 1087
 Mathis, G. F., 653
 Mathison, R. D., 1043
 Matsumura, K., T281
 Matsunami, R., 965
 Matte, J. J., M230, W209
 Matthews, J. C., W238, W292, 312, 559
 Matthews, W. A., 1023
 Mattiauda, D., T259
 Matuk, C. M., 640, 839
 Maughan, C., 136
 Maulfair, D. D., W436, 565
 Mauro, L. J., 707
 Maxin, G., W424, 212
 Maxwell, C. L., W340, 1003
 Maxwell, D., 1040
 May, K. C. P., 26
 Mayes, R. W., M126
 Mays, T. L., 402
 Mazhari, M., T200
 Mazza, A., M454
 Mazzarella, R., 860
 Mazzenga, A., M16
 Mazzette, A., M454
 Mazzolari, A., T391, T392
 Mazzuco, H., W295
 Mba, E., M321
 McAdams, S., 275
 McAllister, C. M., M47, M81, M86, 30
 McAllister, T., M16, M340, M341,
 W393
 McAllister, T. A., M158, M304, M306,
 M346, M347, M357, M358, M443,
 T361, T366, T367, T403, T447, W344,
 W406, 199, 420, 439, 727, 728, 866,
 1032, 1136, 1139
 McBride, B. W., 401, 570, 1145
 McCann Thies, T., 918
 McCann, M. A., W354
 McCahey, C., 1137
 McCarthy, J., T105
 McClelland, K. M., 327
 McClung, J. P., W234
 McCollum, F. T., III, 197, 198, 201
 McConahey, S., M194
 McConnel, C., W286
 McCormick, M. E., W425
 McCormick, R. J., M153, 637, 638,
 1085
 McCosh, R. B., 25, 530
 McCown, S., 457
 McCown, S. M., W173, W174
 McCuiston, K., M432
 McCullouch, M. M., M446
 McDaniel, C. D., W104, 361, 441
 McDaniel, M. R., 737
 McDonald, T., 775
 McDonald, T. J., M361, 12, 15
 McDonell, E. E., W121
 McDowell, K. J., M122
 McDowell, L. R., 96
 McEachern, J. K., 754
 McElhenney, W. H., T452
 McElroy, A. P., M132, 333, 348
 McEwen, P. L., 738
 McEwen, P., T191
 McFadden, T. B., 467
 McFarland, D. C., 106
 McGill, D., T357
 McGilliard, M., W419
 McGilliard, M. L., T331, W329, 873
 McGinn, S. M., 1136
 McGlone, J. J., 35
 McGrath, M. F., M199
 McGuire, M. A., T23, W9, W414, W429,
 482
 McIlwraith, C. W., 831
 McIntyre, D. R., 599
 McKeever, K., W180
 McKeith, F. K., 381
 McKinnon, J. J., M306, T366, 101, 199,
 728
 McLaughlin, C., T308
 McLeod, K. R., T59, T60, T61, W363
 McLeod, S. J., W175
 McMahan, D. J., M179, M180, 136,
 793, 795, 953
 McMeniman, J. P., 50
 McMillan, A., T182, 257
 McMurphy, C. P., 29, 857
 McNamara, J. P., W280, 172, 210
 McNamara, J., 213
 McNamara, T. J., T174
 McParland, S., 799
 McReynolds, J. L., M139, 266, 539
 McRoberts, K. C., W187
 McSweeney, K., W286
 Means, W. J., M153, W150, W341, 113,
 1085
 Medeiros, S. R., M155, M156
 Medel, P., W467
 Medina B., J. C., 345
 Medina, P., W394
 Medina-Flores, C. A., T32, T324
 Medrano, J. F., 661
 Meikle, A., T259, W275
 Meissner, H. H., T398
 Mejia, H. P., M354, T448, T449
 Mejia, L., 499
 Mejía, O., M288, M297, M298, W289,
 W440
 Mejía, R. M., W184
 Mellado, M., M328, T466
 Mello, R., M163, M164, M170, T164,
 T165
 Melo, C. M. R., M78
 Melo, D., M166
 Melo, G. M. P., W336
 Melo, L. Q., T381
 Meme, N., T229, 1107
 Mena, S., T404
 Mench, J., 258
 Mench, J. A., T12, 253, 254, 581, 583,
 584, 1022, 1027
 Mendes, C. Q., M455, M457, W447
 Mendes, E., M15, 911
 Mendes, E. D. M., 67
 Mendes, T. Q., 794
 Mendez de Lara, S., T32
 Mendez, F., W440
 Méndez, V., M234
 Mendez-Llorente, F., M94, M470, T32
 Mendonça, A. H., W53
 Mendonca, L. G. D., W273, W282,
 W287, 486, 488
 Meneghetti, C., T199, T213
 Meneghetti, M., W301
 Meneghini, R. C. M., M457
 Meneses-Mayo, M., M441
 Meneze, C. R., 954
 Meng, Q. W., M242, M243, M263,

M267, T232, W210
 Mengarelli, R., M162
 Mengel, H., M342
 Menten, J. F. M., M240, W253
 Mercadante, M. E. Z., M77
 Mercadante, V. R. G., T264, W300, W302
 Mercedes, M., T217, T254
 Mercier, Y., 981
 Mereu, A., T352
 Mertens, D. R., 452, 560, 562, 1057
 Mertz, K., 1134
 Mertz, K. J., T382
 Meshkibaf, S., W216
 Messias, R. K. G., M212, 140
 Messman, M., T415
 Mestra, L., W260, W394
 Metcalf, J. A., 425
 Metcalf, J. H., 440, 444, 540
 Metges, C. C., M279
 Metzger, L. E., M181, M182, M183, T73, 127, 790, 949
 Metzger, L., M184
 Metzger, L. M., T87
 Meullenet, J. F., 329, 330
 Meuwissen, T. H. E., 613
 Meyer, A., W144
 Meyer, A. M., W341, W398, 9, 916
 Meyer, D., T323
 Meyer, M. D., M449, T399, T400
 Meyer, M. J., W164
 Meza-Herrera, C. A., M328, T466
 Mezzomo, R., M161, M363, M371, W365
 Mi, X., W55
 Miao, S. Y., 803
 Michael, J., W318
 Michael, M., W47
 Michael, N. A., T310
 Michal, J. J., M75, T332
 Michaud, R., M392, W137
 Michel-Parra, J. G., W470
 Middelbos, I. S., T56
 Middendorf, B. J., W239
 Middleton, J. R., W396
 Middleton, T. F., 987
 Miele, M., 1026
 Mielenz, M., T257
 Miglior, F., 928, 929
 Mikiashvili, N., M36, T161
 Milam, A. B., T258
 Miles, J. R., M295, T152, 168, 523
 Millen, D. D., T28, T29, T30, W378, W379, W380, W381, W387
 Miller, A. L., T112
 Miller, B. L., T311, T422, W167, W168, W169
 Miller, D. B., 255
 Miller, J., W428
 Miller, J. E., 758
 Miller, K. A., 383, 384, 731, 732
 Miller, M., W324, 1013
 Miller, M. F., 114
 Miller, P. S., T16, T194
 Miller, R. H., 927
 Miller, R. K., 1029
 Miller, S. P., T171, 319, 738, 922
 Miller-Cushon, E. K., M9
 Millman, S. T., 392, 663, 905
 Mills, D., 626
 Mills, R., 386
 Mills, R. L., 768
 Mills, R. R., W314, W349, 389
 Min, B. R., T451, W357, 1048
 Min, Y., M207, M210, T189, T224
 Min, Y. N., W206, W207
 Miner, J. L., M433, T362
 Minkin, S., 38
 Minor, R. C., M307
 Minton, E. J., 529
 Minton, N. O., M85
 Miquilin, F. A. S., T30, W378, W387
 Mir, P. S., M158, M304
 Mirabella, S., M100
 Miracle, E., 131
 Miracle, R. E., M175, 128, 793
 Mirae Ashtiani, S. R., T304
 Miranda, C. H. B., T124, T125, T128
 Miranda, K. M., 306
 Miranda-Romero, L. A., M441
 Miron, J., M382
 Mirzaee, M., T442
 Mirzaei Alamouti, H. R., W438, 876, 877
 Miska, K. B., M140
 Misra, Y., 476
 Mistry, V. V., 304
 Mistura, C., T26
 Misztal, I., M84, W25, 430, 612, 613, 614, 616, 926
 Mitchell, A., 177, 337
 Mitchell, A. D., T136
 Mitchell, R., 670
 Mitchell, R. M., 280, 283
 Mitloehner, F. M., 24, 1025
 Mitra, A., T39
 Mitsuya, K., 775
 Miura, M., T418
 Moallem, U., M282, T365, W399
 Modarresi, J., M458, W35
 Moehn, S., 760
 Moeini, M., 877
 Moeller, L. M., T310
 Moeller, S. J., 751
 Moeser, A. J., 310, 693
 Moffet, C. A., 577, 631
 Mogielnicka, M., 979
 Mohamed, E. A., T275, T276, 992, 993
 Mohamed, F. R., 658, 971
 Mohammadabadi, T., M377, M378, M385, M416, M417
 Mohammed, R., M394
 Mohan, M. S., 133
 Mohankumar, P., 601
 Moisa, S. J., 729, 730
 Moisyadi, S., 116
 Mojgani, N., T139
 Mokhtabad, Y., M33, M35
 Molento, C. F. M., M11, M12
 Mølgaard, A., 801
 Molina, P., M288, M297, M298, W289
 Molina-Ramírez, L., M326
 Molist, F., 759, 761
 Molitor, M. S., T101
 Møller, J. W., M147
 Moncada, M., W62
 Monção, F. P., T110, T111
 Moncoulon, R., 750
 Monegue, H. J., W468
 Monegue, J. S., W238
 Mongeon, M., W140
 Monif, G. R. G., 277
 Monnerat, J. P. I. S., M363, W365
 Monson, R. L., 230
 Montagner, P., M299
 Montañez, O., W470
 Montañez-Valdez, O. D., M131, M359, M360, W107
 Montaña, M. F., T53, W389, W453
 Monteiro, L. R., 952
 Montelongo, M., 769
 Montiel-Olguín, L. J., W338
 Montoro, C., T354, 1122
 Mooney, C. S., M5, 904
 Moorby, J. M., 715
 Moore, D., 772, 773
 Moore, D. A., T14
 Moore, D. T., 348, 977
 Moore, P. A., Jr., 540, 1025
 Moore, S., M148, M432, 536
 Moore, T. D., W230
 Mora, R. E., W343
 Moradi Nejad, M., W22, 1078
 Moradi Shahr Babak, M., M202, T37, T277, T278, T302, W39
 Moraes, T. G. V., M323
 Moraes, V., M137, 177
 Moraes, V. M. B., T11, W232, W250
 Mora-Gutierrez, A., T96
 Morais, S. A. N., M213
 Morais Júnior, N. N., T421, T425

- Morales, A., M233, M234
 Morales, E., M272
 Morales, J., M50, M246, T236, M335
 Morales, J. I., T181, 110
 Morales-delaNuez, A., T72
 Moran, A., 689, 1119, 1120
 Moran, C. A., T159
 Moraru, C. I., M186, M188
 Moravej, H., M249, M261, T203, T212
 Moreaux, S., 23
 Moreira, I., W455, W458
 Moreira, V. R., W425
 Morelli, P., W277, W278, 997
 Morello, G., W324, 1013
 Moreno, I., 954
 Moreno, R., T16, T194
 Moreno-Indias, I., T72
 Moreno-Valdéz, A., M131
 Moresco, Gabriel, W458
 Morgan, M., M27, T143
 Morgan, M. J., 269, 538
 Morgan, S. L., 526, 851
 Morgan, S. R., W194, 721
 Morgano, M. A., 794
 Morgavi, D., M396
 Moriel, P., W341, 27, 389
 Morielli, A. D., 476
 Moritz, J. S., W267, 331, 346, 340
 Morrical, D. G., W316, 92, 1040
 Morris, C., T57
 Morrison, M., 313, 975
 Morrissey, J. K., 833
 Morstad, J. S., T54
 Morsy, A. S., M364
 Mortson, M., W178
 Mosavi, S. S., 877
 Moser, R., W269, W270
 Mosoni, P., M388, M396
 Moss, G. E., M330, 1015
 Mot, D., M273
 Mota, D. A., W126
 Mota, M., W177
 Motaghinia, G., M458
 Motawee, M. M., M179, T71
 Mott, C. R., T41
 Mottet, R. S., M294
 Moulds, M., 272
 Moulton, K., 829, 1095
 Moulton, K. E., 1090
 Moura, H. M., W100
 Moura, L. S., M371
 Moura, L. V., T110, T111
 Moura, M. R. A., W43, W59
 Mourao, G. B., M348, W122, W342, W364, W380, W381
 Mourão, G. B. M., M419
 Mourer, G. L., 857
 Mousavi, S. N., 973
 Mousel, M. R., 751
 Moussavi Heravi, A. R., T371
 Moustaid-Moussa, N., T160
 Moya, D., M16
 Moyes, K. M., T326
 Moyes, L., 793
 Moyle, J. R., T284, 191, 194, 195
 Moynat, C., M133, 654, 655
 Mueller, C. J., W314, W315, W349, 26, 320
 Muhammad, G., 589, 1062
 Muir, J. P., 458
 Muir, W. M., 613
 Mukherjee, M., 704
 Mukhopadhyay, S., T80
 Mukhtar, H., M24, M36
 Muktar, H., T161
 Mullen, K. A. E., M198
 Mullens, B. A., 1027
 Müller, U., M279
 Mulligan, C., 831
 Mulligan, C. M., 835
 Mulligan, F. J., T369, 1137
 Mulliniks, J. T., W309, 734
 Mullins, C. R., T394, 726
 Mullis, N. A., 722
 Mulvaney, D. R., 578, 899, 1071, 1072
 Münger, A., M426
 Munoz, A., T135, T244
 Muñoz-Salas, L. C., T32
 Muns, R., T2, W457
 Munz, C. M., 237
 Muramalla, T., W60, W63
 Muraro, G. B., M418
 Murdoch, G., 824
 Murdoch, K., 193
 Murdoch, R., 600
 Murdock, C., W308
 Murillo-Ortiz, M., W444
 Murphy, E., 690
 Murphy, K. D., T328
 Murphy, M. R., M197, 666
 Murray, L. W., W172, 11
 Murray, S., T450
 Muscha, J., W309
 Musgrave, J. A., 99, 1037
 Musgrove, M. T., 1092, 1094
 Mussard, M. L., 848, 849
 Musser, R., 9
 Musser, R. C., T311
 Mussini, F., T208
 Mustafa, A., 453, 815
 Mustafa, A. F., 814
 Muthukumarappan, K., 949
 Mutsvangwa, T., 745
 Muya, C. M., T347
 Mwangi, W., M139
 Myagi, E. S., W116
 Myer, R. O., W372
 Myers, A. J., 701
 Myers, R., M320
 Myers, W., M329
 Myers, W. G., 574
N
 Naatjes, M., 494
 Nadeau, K. L., 501
 Naeem, A., 391
 Naemipour, H., W38
 Nagaraja, T. G., 206, 1086
 Naghizadeh, A., W6
 Nahashon, S., M324, T36
 Nain, S., T301, 185
 Nair, S. C., 974
 Najjar, T., T329
 Najim, N., W61
 Nakagawa, K., 137
 Nakahashi, Y., M76
 Nalian, A., 270
 Naranjo, V. D., 144
 Narciso, C. D., W282, 390
 Narcy, A., T229, W237, 1107
 Nardone, A., M82, 615
 Narvaez, N., M340, M341, M357, M358
 Nascente, M., M240
 Nascimento, A. B., W285, W283
 Nascimento, M. L., W347, W348
 Naserian, A., M402, M403, M406, M407, M428
 Naserian, A. A., M385, T416, W288, W417, W426, M437, T445, W402
 Nash, J. M., 842, 843, 844
 Nash, S. A., 1008, 1009
 Nash, T. G., W307
 Nasir, M., 796
 Nasiri Moghaddam, H., W404
 Nasr Abad, A., M229
 Nassib, T. A., T71
 Nassiri, M., T371
 Nathanielsz, P. W., M280, 637, 638, 639, 775, 914, 999, 1129, 1131, 1132
 Navara, K. J., 370
 Navarrette, A. E., 997
 Navarro, J. I., W93
 Navarro, O. A., M384
 Navidizadeh, M. E., T137
 Nayananjalie, W. A. D., W298, W354
 Nayigihugu, V., 27

- Naziripour, A., W224, 518
 Neary, M. K., 95
 Nebzdoski, S. J., W422
 Neel, J. P. S., M159, 321, 912
 Neibergs, H. L., M64, M74, T14, 288, 772, 773
 Neibergs, J. S., T14, 772, 773
 Neijat, M., 542
 Nelson, A. H., M84
 Nelson, B., 401
 Nelson, M., 640, 839
 Nelson, M. L., M162, 320
 Nelson, P., T174
 Nelssen, J. L., 492, 701
 Nemeč, L. M., T22, T343, W422, 46
 Nennich, T. D., 95
 Neri, T. G., M348, W364
 Nerren, J.R., T40
 Nery, F. M., T263, W351, 389
 Nestor, K., 485
 Nestor, K. E., Jr., W111, 47
 Neto, F. A. C., M410
 Neto, L. R. D. A., M95
 Neto, R. C. L., M208, M223, M224, T214
 Nettleton, D. S., 665
 Neuendorff, D. A., 524, 526, 537, 851
 Neuhold, K. L., 379
 Neumann, A., 464
 Névarez-Carrasco, G., W444
 Neves, C. A., M166, W373
 Neves, D. A., 687
 Neville, B. W., 8
 Neville, M. C., 315
 Neville, T. L., W142, W149, W398, 642
 Newberry, R. C., 1027
 Newbold, M. W., 303
 Newman, L., 342
 Newton, G. R., W44
 Ngapo, T., 969
 Ngonyamo-Majee, D., M400
 Niazi, F., T320, W430
 Nichols, B. M., M361, 12, 15
 Nichols, W. T., 114
 Nicholson, C. F., W187
 Nicodemus, L. V., M153
 Nicodemus, M., T472, W179
 Nicodemus, N., W212
 Nicol, C. J., 1027
 Nicolazzi, E. L., M82, 615
 Nicoli, J. R., W53
 Nicolini, P., M80, W275
 Nieto, R., M288, M297, M298, W289
 Nieto, R. M., W106, W222
 Nijland, M., 775
 Nikbacht, M., M382
 Niknafs, F., W14
 Niknam, A., W22, T13, 1078
 Nisbet, D., M276
 Nisbet, D. J., W103, 1029, 1088
 Niu, Z., W434
 Niu, Z. Y., W206, W207
 Njongmeta, L., M139
 Noble, R., M24
 Noble, R. C., M269
 Nobre, I. S., T214
 Nocek, J. E., T418, 215
 Noffsinger, T., M21
 Nogueira, E. T., M208, M211, M213, M214, M223, M224
 Nogueira, K. A. G., M414, T438, W116, W134
 Nogueira, M., W135, W136
 Noirot, V., T239
 Noland, R. L., M464
 Noll, S. L., W221
 Nonneman, D. J., M293
 Noonan, C., 645
 Noori, G. R., M33, M35
 Norell, R. J., W84
 Nørgaard, J. V., T249, T253
 Norman, H. D., W29, W30, W31, W32, W90, 927
 Northcutt, S., 788
 Norvell, T. M., M361, 12
 Norwell, G., 599
 Norwood, B., 1026
 Norwood, F. B., 611, 1023
 Notter, D. R., 751, 786
 Nourozi, M., W119
 Novak, C. L., 156, 339
 Novak, K. N., T157
 Noviandi, C. T., M372
 Nowelsky, E. A., 833
 Nozière, P., M452, 741
 Nsofor, U., T91, T92
 Nudda, A., M344, M376, M472, M473, W459, 324
 Nuernberg, G., 1039
 Nuernberg, K., 1039
 Nuez-Ortín, W. G., M447, T412
 Null, D., W28
 Nuñez, A. J. C., W342
 Nuñez, J., W289
 Núñez-Domínguez, R., W95, 433, 1099
 Núñez-Romero, N., W223, W263
 Nussio, L. G., M95, M409, M418, W122
 Nusz, S. A., 403
 Nuti, L. C., W44
 Nuttelman, B. L., 208
 Nuyens, F., 108
 Nyachoti, C. M., T228, W214, 352, 686
 Nyachoti, M. C., W216
 Nydam, D. V., W274
 Nykamp, S. G., 262
 Nyman, A., 386
 Nyren, P., 925, 1010
- O**
- Oates, S. H., T287
 Oates, S. S., 364
 Oba, M., M148, M405, T367, W393, 483, 727, 1140
 Oberg, C. J., 793
 Oberg, E. N., M179
 Oberg, T. S., 134
 Obi, C. N., 362
 Obregon, J. F., T453, W450
 O'Brien, D. J., 758
 O'Callaghan, D., T68
 O'Connell, J. R., 622
 O'Connor, A. M., 423
 O'Connor, G. A., 96
 O'Connor-Robison, C. I., 681
 Odetallah, N., T221, 1104
 O'Diam, K., W183
 Odle, J., T235, W234, 310
 O'Donnell, C., T68
 O'Donovan, M., 819
 Oetzel, G. R., 597
 O'Fallon, J., 320
 Ofori, R., T182
 Ogan, M. M., 405
 Ogawa, E. S., W379
 O'Gorman, D., T393
 O'Grady, L., T369
 O'Grady, S. M., 64
 Oguey, S., 1017, 1018
 Ogunwole, O. A., 985
 Oh, S., W56, W461
 Oh, S. A., T275, T276, 992, 993
 Oh, S. H., M269
 Oh, Y. K., W361
 O'Hare, T. H., 921
 Ohimain, E. I., M307
 Ojeda, F., W192
 Okine, E., M26, T361
 Okine, E. K., M431, W146, 727, 1032
 Okut, H., 166, 162, 164
 Olabi, A., T103
 Olanite, J. A., 459
 Olanrewaju, H. A., M54
 Old, C. A., M448
 Oldham, J., 76
 Olea, W., M149, 965
 Olenich, S. A., M91
 Olivares, L., M288, M297, M298

- Olivares, M., M103
Oliveira, A. S., M410, T436
Oliveira, C. F. S., M208, T214, T215
Oliveira, C. J. B., T138
Oliveira, D., M13
Oliveira, D. E., M453, T461
Oliveira, D. L. S., T84
Oliveira, E. A., M157, M160
Oliveira, I. M., M161, W365, W373
Oliveira, J. A., 16
Oliveira, J. C. V., M20
Oliveira, J. S., M111
Oliveira, L. J., 1142
Oliveira, N. S., T130
Oliveira, P. S., T48
Oliveira, R. A., T123, 390
Oliveira, R. C., T417
Oliveira, T. S., M383, M421
Oliver, W. T., M295, W102
Ollhoff, R. D., T317
Ologhobo, A. D., M206
Olsen, J., 856
Olson, D., T94
Olson, K. C., M88, M91, T265, 11, 13, 14, 31, 205, 380, 838, 1004, 1005
Olson, K. M., 438
Olukosi, O. A., T197, 515
Olumide, M. D., 985
Olupona, J. A., W189
Omana, D. A., T183, T184
Onetti, S., T396
Oni, A. O., 459
On-Nom, N., W75, 305, W76
Onol, A. G., T295
Onyango, B., 119
Onyenwoke, A., W46
Ooster, A., M279
Orellana, R. A., 6, 604
Orhan, C., 150, 976
Orlandi, T., W345
Orman, A., 405, 858
Ormenese, R. C. S. C., 794
O'Rourke, S. T., 1130
Ort, D.T., 193
Ortega, J. A., M345, M112, M390, M471, T385, W449, W452
Ortega, M. E., M297, M298, M413
Ortega, M. F., T358
Orth, M. W., 681
Ortigue-Marty, I., M452, T444
Ortiz-Colón, G., T173
Ortuño, J. A., W184
Osman, M. A., 665
Osorio, J. S., 840, 870
Ostan, S., T198
Osterstock, J., W357, 1048
Osterstock, J. B., W358, 10
Ostrensky, A., M11, M12
O'Sullivan, D. J., W58, 135
O'Sullivan, N., W256
O'Sullivan, N. P., 1027
Otani, H., 955
Otero, W., M355, M356
Otomo, N., 192
Ottó, D., T202
Otu-Nyarko, E., 255
Ouellet, D. R., T444
Ouwens, A. M. T., 980
Overhults, D. G., W324, 1013
Overton, M. W., 726
Overton, T. R., M200, W274, 426, 1128
Oviedo-Rondón, E. O., M137, 177, 187, 337, 646, 656
Owens, C. M., 184, 329, 330, 588
Owens, F. N., W120
Ozcan, T., T77, W77
Ozer, B., 640, 839
Özli, S., 865
- P**
- Pacheco Cervantes, A., W95
Pacheco, D., 816
Pacheco, L. A., T265, 11, 13, 14, 380, 838, 1004, 1005
Pacheco, R. D. L., T28, T29, T30, W378, W379, W380, W381, W387
Pacheco, W. J., 700
Packer, I. U., M78
Paddock, Z. D., 1086
Pagan, M., M89, M90, M92, T173
Painter, K. A., 903
Paisley, S. I., M153
Paiva, C. A. V., T318, T319
Paiva, D. M., 348
Paiva, L. M., W162, W163
Pajor, E., T35, 1026
Pajor, E. A., T4
Pakdel, A., M202, T37, W39
Palacios, C., T134
Palic, D., 271
Palin, M. F., W198, W405
Paliyath, G., 946
Pallás, R., M335
Palmonari, A., M106, W132
Palomino, J., W394
Pan, F. M., M439
Pan, Y., 1089
Pan, Z. X., M75
Pandorfi, H., W255
Pandulli, I., M80
Pang, M. G., T275, T276, 992, 993
Panja, P., W243
Panouille, M., 296
Panting, R. R., 1008, 1009
Panwar, A., 285
Panzera, A., M453
Pape-Zambito, D. A., 469
Parada, P., 1101
Paranhos da Costa, M. J. R., M13
Parcell, J. L., 79, 80
Pardo, C., T177, T178
Parillo, A. A., T294
Park, D. J., W56
Park, H. G., T446
Park, H. Y., T216
Park, J. H., M207, M210, T224
Park, K. H., W461
Park, K. T., M59, M62, T155
Park, M. S., M141, T20, 273, 650, 652
Park, S., 478
Park, S. J., M226
Park, Y. J., T275, T276, 992, 993
Park, Y. W., T95, T97, 950
Parker, H. M., 361
Parks, A. G., W174
Parlow, A., M149
Paroczay, E. W., T170
Parr, S. L., W161, W383
Parra, F. S., T28, T29, T30, W378, W379, W380, W381, W387
Parrish, J. J., M301, 230
Parrott, T., W326
Parsans, G. L., 384
Parsons, C. M., M220, M222, W256, 347
Parsons, D., T107
Parsons, G. L., 383, 731, 732
Parys, C., T424
Pascoa, A. G., M13
Pasha, T. N., 375, 1100
Pasta, C., T66, T76
Pasteiner, S., 818
Pate, J. L., 822
Paterson, J. A., M361, 12, 15, 1042
Patience, J. F., 678
Patino, H. O., T356, W339, W407
Patiño, R., W67
Paton, N. D., W300, 598
Patterson, D. J., 78, 79, 80, 842, 843, 844
Patterson, J., 200
Patterson, P. H., 180, 189, 503, 811
Patton, E., M66, 55
Patton, R. A., M450, T119, T126, T424, W113, W125, 217
Patton, R. S., 744
Patussi, R. A., T438, W116

Paul, D. C., 179
 Paul, D., 188, 196
 Paul, M., 1111
 Paulino, M. F., M166, W162, W163, W365
 Paulino, P. V. R., M155, M156, M161, M166, M363, M371, M466, M467, T164, W365, W373
 Paulk, C. B., 675
 Paulson, C., M290
 Paulus, C., 337
 Paxton, H., 359
 Payan, J. A., M112
 Payan-Garcia, J. A., M113
 Payne, F. A., T68
 Payne, R. L., 144, 683
 Pearson, A. C., W175
 Pearson, V. J., 1064
 Peçanha, M. R. S. R., M364
 Pediliggieri, C., M100, 797
 Pedrosa, V. B., T48
 Pedroso, A. F., W139
 Pedroso, A. M., M348, M398, M415, M419, W364
 Pedroso, F. W., T109, T110, T111
 Peebles, E. D., T18, 360, 362
 Peel, R. K., M47, M86, T27, 30, 379, 778
 Peinado, J., T179, W460, W466
 Pekel, A. Y., 180, 189, 503
 Pellerin, D., 716
 Pellizari, V., M355, M356
 Pelz, M., 1076
 Pempek, J. A., W94
 Pena, C. F. A. M., T318, T319
 Peñagaricano, F., M80
 Pencharz, P. B., 760
 Pendley, C. T., 67, 68
 Penna, C. F. A. M., T83, T85, W43, W53, W59, W71, W99
 Penner, D., W318
 Penner, G. B., 1144, 1145
 Peralta, J., M288, M297, M298, W289
 Perdomo, M. C., T17, 390, W400
 Perecmanis, S., W100
 Pereira, A. S. C., T29, T30
 Pereira, E. S., M383, M466, M467, T407, T408
 Pereira, G. T., M152
 Pereira, J. C., M421
 Pereira, L. V. B., W268
 Pereira, M. N., T381, T417, T421, T425, W421
 Pereira, O. G., W337
 Pereira, R. A. N., T381, T421, T425, W421
 Peres, M. S., W364
 Peres, R., T267
 Perez de Villareal, M., 259
 Pérez, A., T53, W389
 Perez, C., W453
 Pérez, J. F., M235, T1, W454, 759, 761
 Perez-Cháves, A., M322
 Perez-Clariget, R., M292, T290, T291, W147
 Perez-Gil, F. R., M384
 Pérez-Sato, M., M359
 Perfield, J. W., 1127
 Perfield, K., T396
 Perfield, K. L., M200
 Perret-Gentil, M. I., M217
 Perry, B. L., 846
 Perry, G. A., M88, M91, 78, 846, 847
 Perry, K. Y., T268
 Persia, M. E., 673, 674
 Pescatore, A. J., T190, W227, W324, 327, 647, 672, 1013, 1111
 Pessoa Júnior, G., T425, W421
 Pessoa, R. A. S., M20
 Pesti, G. M., M228
 Peters, M., M279
 Peters, R. R., T330
 Peters, S. O., 290, 924
 Petersen, G. I., M216
 Petersen, M. K., W309, 734
 Petersen, M. R., 1097
 Peterson, B. A., T217, T254
 Peterson, B. C., M27
 Peterson, P. R., 564
 Peterson, R. E., 49
 Peterson, R. K., 554
 Peterson, S. E., W414
 Petersson-Wolfe, C. S., 239
 Petit, H. V., T373, W405, W435
 Petri, D., 983
 Petriglieri, R., 860
 Petriz-Celaya, Y., W453
 Petroli, N. B., M225
 Petrolli, T. G., M268
 Pettey, L. A., W230
 Pettifor, N. L., M459
 Pettigrew, J. E., T159, T252
 Pevzner, I. Y., T40
 Peyraud, J. L., 212
 Pezzopane, J. R., W138
 Pfeiffer, F. A., M462, M463
 Pfeiler, T. W., W234
 Pfuhl, R., 635
 Phadungath, C., 127
 Phandanavong, V., M276, W67
 Pharazyn, A., 688
 Phebus, R. K., W47
 Philipp, D., M119, M120, M125
 Phillips, M., M178
 Phillips, R. L., 452
 Phyn, C. V. C., W194, 721
 Piano, L. M., W455, W458
 Piao, X., T218
 Picarelli, J., W232, W250
 Piccioli-Cappelli, F., M302
 Pickworth, C. L., T266, 822
 Pieper, R., 351
 Pieramati, C., 615
 Pierce, J. L., T190, T233, W202, W227, 327, 647, 672, 1111
 Pierson, E. E. M., 339
 Pietig, J. L., 490
 Pietrosemoli, S., M332, M337, T6
 Pighetti, G. M., T273, T300, 38
 Pike, K., W354
 Pilevar, M., T201, T234
 Pimentel, C. M., W445
 Pimentel, P. G., M383, M466, M467, T407, T408
 Pinchak, W. E., W357, 450, 1047, 1048, 1088
 Pineda, A., 641
 Pineiro, C., M50, M246, M335, T236,
 Pinto, F. A., T84
 Pinto, M. A., W470
 Pintus, E., W24
 Pintus, M. A., M82, 615
 Pinzon, J., 953
 Pinzón-Sánchez, C., M192
 Piper, T. E., M108
 Pires, A. V., M364, M366, M397, M418, M455, M457, T380, W447, 848, 849
 Pirisi, A., 948
 Pishnamazi, A., M323, M321, 179, 188, 196
 Pitta, D. W., W357, 450, 1047, 1048
 Piva, A., 450, 451
 Pivaro, T. M., M157, M160
 Pizarro, M., M274
 Plain, R., 82
 Plaizier, J. C., W432, T390, T393, 841
 Plank, J. E., T431
 Plante, P.-A., T246
 Plascencia, A., M412, W453
 Pohl, S., M29, T207, 175, 512
 Pohler, K. G., 842
 Poletto, R., 415
 Pollak, E. J., M86
 Pomar, C., W237
 Pompeu, L. B., T333, T335
 Ponce, C. H., W340, 10
 Ponce, J. F., T53
 Ponchon, B., M146

- Ponder, M. A., 691
 Poock, S. E., 79, 80
 Poole, D. H., 822
 Poore, M. H., T33
 Poovey, A. K., 526
 Pope, W. L., W239
 Popowski, J. M., T174
 Popp, M., M119
 Poppy, G., W428
 Porcionato, M. A. F., M44
 Portanguen, J., M146
 Portelli, G., T66
 Porter, R. E., 1027
 Porter, T. E., W290, 90, 91, 366, 643, 704, 705
 Portilho, F. P., W375, W441, W442, W445
 Portillo-Loera, J. J., T453, W450
 Porto, M. O., W162
 Porto-Fett, A. C. S., 300
 Possenti, R. A., M170
 Potts, J. C., W330, 726
 Pouliot, Y., M190, W74, W81
 Poulsen, H. D., T249, T253
 Poulsen, J.-C. N., 801
 Poureslami, R., 155
 Powell, J. G., M367
 Powell, J. M., W327, W331
 Power, R., M46
 Power, R. F., T233, 647
 Powers, W., W319, 541, 544, 545
 Powers, W. J., 553
 Pradhan, A., M64
 Pradhan, A. K., 280, 283
 Prado, W. S., T109, T110, T111
 Prakobsaeng, N., W290
 Prates, E., T356
 Pratt, S., 1003
 Pratt, S. L., W151, W152, W154, W463, 823
 Pratt-Phillips, S. E., 228
 Preveraud, D. P., 527
 Previero, T., M225
 Preynat, A., 1106
 Price, K. L., 667, 691
 Price, M. A., W146
 Price, N. P., T56
 Price, P. L., M153, T323
 Primot, Y., 493, M230
 Prince, R., M22
 Prinz, C., 1117
 Pritchard, S. R., M178
 Pro, A., 175
 Proszkowiec-Weglarz, M., 643
 Proudfoot, K. L., W401
 Proudman, C. J., 349
 Provenza, F. D., 93
 Puch, H. C., T422
 Puchala, R., T456, T468
 Puddu, A., T352
 Puga, D. C., M384
 Puig, P., 1019
 Pulikanti, R., 360, 362
 Pulina, G., M454, M344, M376, 324, 724
 Pullen, L. D., 912
 Pulley, S. L., T265
 Puls, C. L., T217, T254
 Pumford, N., M27, T143
 Pumford, N. R., 269
 Puntenney, S., 836
 Puntenney, S. B., 837
 Purdy, P. H., 991
 Purslow, P. P., T169, T171, T172, 319
 Purswell, J. D., T18
 Purswell, J. L., 441
 Putarov, T. C., T28
 Pyatt, N. A., M386
 Pyatt, N. D., M362
 Pye, T. A., M154, T272, T296
- Q**
- Qashqayi, E., T320, W430
 Qi, A., M286, M461, T281
 Qi, M., T403, W406
 Qian, B., W55
 Qian, L. C., T204, T227
 Qin, G. S., 219
 Qin, L., T99
 Qin, Q., 72
 Qin, T., W240
 Qobadi, Z., T225
 Quant, A. D., 327
 Queiroz, H. M., M95
 Queiroz, M. F., W133
 Queiroz, O. C. M., M409, W117, W133, 454, 1142
 Queiroz, S. A., T11, W232, W250
 Quezada-Casasola, A., T274
 Quigley, J. Q., T339
 Quilaguy-Ayure, A., M427
 Quinn, M. J., 731
 Quintans, G., M292, T291, W147
 Quintino Cintora, M., M368
 Quintino Cintora, M. E., M389
 Quinton, C. D., 922
 Quirk, T. E., M43
 Qvist, K. B., 801
- R**
- Ra, C. S., T219
 Raadsma, H., W280, 172
 Rabello, C. B. V., M248, W255
 Rabello, J., W253
 Rabiee, A., W280, 172
 Rabiee, A. R., 886
 Rabinovitch, L., 170
 Racanicci, A. M. C., M240, W253
 Radcliffe, J. S., 834
 Radu, J., 342
 Rae, A. B., M116
 Raeber, A. J., M58
 Raes, K., 155
 Raeth-Knight, M., T345, T349, T350, T351
 Raeth-Knight, M. L., 397, 564, 1041
 Rafat, A., T49, T198
 Raffrenato, E., 43
 Ragauskas, A., 975
 Raggio, G., W140
 Raginski, C., 586
 Rahimi, A., W13, 1074, 1075, 1077
 Rahimi, S., W22, M34, M319, T139, W6, W12, W13, W14, 1074, 1075, 1077, 1078
 Rainho, N. M., M335
 Raisianzadeh, M., W119
 Rajala-Schultz, P., W82
 Rajamahendran, R., 167
 Rajbhandari, P, T70
 Raji, A. M., W189
 Rakhshandeh, A., 274, 489
 Rakow, G., 979
 Ramachandran, R., 827
 Ramanathan, R., T144
 Rambo, Z. J., W371
 Ramirez Ramirez, H. A., 485
 Ramirez, J. R., 536
 Ramirez, M. M. H., W339, W407
 Ramirez, R. G., M470
 Ramirez, S., W452
 Ramirez-Bribiesca, E., M438
 Ramirez-Godinez, J. A., T274
 Ramirez-Valverde, R., 1099
 Ramirez-Vlaverde, R., 433
 Ramirez-Yañez, G. O., 657
 Ramos, M. H., 115, 1030
 Ramsay, K. H., 1006
 Ramsey, W. S., M463, 323
 Ranathunga, S. D., 659
 Randel, P., W443
 Randel, R. D., M18, M127, M128, W352, 421, 524, 526, 537, 851
 Rangel Santos, R., W95
 Ranilla, M. J., M365, T134, T376, T378
 Rankin, A. R., T102

Rankin, M. K., 601
 Rankin, S. A., T81, T101, T102, 792
 Rankins, D. L., Jr., T452
 Rapisarda, T., T76
 Rapp, C., M333
 Rasaputra, K. S., M25
 Rashford, B. S., 408
 Rashid, H., T304
 Rasmussen, M. A., M444
 Rassu, S. P. G., M472, M454
 Rastani, R. R., T343
 Rath, N. C., M25
 Rathgeber, B., T182, 257
 Rathmann, R. J., 114
 Rattanatabtimthong, S., M250, 507, 516
 Rauber, R. H., 986
 Rauch, B. J., 594
 Rault, J. L., 415
 Raun, B. M. L., T419
 Rauw, W., M460
 Ravindran, G., W205
 Ravindran, V., W205, 142, 1108
 Rawls, E. L., M281, T273
 Raybould, H. E., 1115
 Raymond, M., M221
 Raymond, M. A., 498
 Razavi, A., W288
 Razz, R., M129, W109
 Ré, D. d., W339, W407
 Rea, M. C., 508
 Read, S., 171
 Realini, C., 550
 Rebeca, R., M272
 Rebollar, P. G., 510
 Rebollar, S., T464
 Rebollar, S. R., M322
 Recktenwald, E. B., 426
 Redden, R. R., 25
 Reddy, M. R., M99
 Redmer, D. A., W398, 9, 916
 Redmond, S. B., 271
 Redshaw, M. S., 492, 668
 Reecy, J. M., 287, 770, 924
 Reed, J. J., W398
 Reed, L. D., W85
 Reed, R. B., T474
 Reeves, J. J., M74
 Regadas Filho, J. G. L., M383, M421, M466, M467, T407, T408
 Regmi, P. R., 688
 Rehberger, J., W326
 Rehberger, T., W326, T250, 629
 Rehfeldt, C., M279, T151
 Rehman, H., 173, 994
 Reicher, S., T279
 Reichert, J. L., W251
 Reilley, J. L., 458
 Reina, M., 145
 Reinhardt, C. D., 111, 805, 1000
 Reinhardt, T. A., 318
 Reis, C. B. M., M44
 Reis, M., W277, W278
 Reis, R. A., M152, W336, W126, W135, W136
 Reis, R. B., T112, T118
 Reis, R. G., M95
 Reis, S. F., M155, M156, M161
 Reisinger, N., W8, 265
 Rekaya, R., W469, 71
 Relling, A. E., W392
 Rempel, L. A., 523, M293
 Rensburg, D. W., 1134
 Ren, D. X., 803
 Ren, L. J., W195
 Ren, Y., T47, 1084
 Renaudeau, D., M336, 493, M338
 Renema, R. A., M321, M323, T301, 179, 185, 188, 196
 Renney, D. J., 385
 Renter, D. G., 1086
 Rentfrow, G., 522, 676
 Rentfrow, G. R., 327
 Resende, F. D., M17, M163, M164, M170, T164, T165
 Resende, K. T., M13, T462, T463, T470
 Retz, S., T325
 Revelo, X. S., 660
 Rexford, J., 831
 Rexford, J. K., 835
 Reyes-Estrada, O., W444
 Reyes-Gutiérrez, J. A., M360
 Reyes-Herrera, I., 440, 444, 540
 Reynal, S. M., 217
 Reynnells, R. D., 32
 Reynolds, C. K., W392
 Reynolds, J., 33, 268
 Reynolds, L., W144
 Reynolds, L. P., W398, 916
 Rezac, D. J., 566, 881
 Rezaee, A. R., T234
 Rezaei, M., W6
 Rezaii, F., T370, T371, T379
 Rezamand, P., T23, W9, W414, W429
 Rezayazdi, Kamran, M114, M115, M380, T302, T303, T387, W37, W200, W437, 876, 879, 1143
 Rezende, M. A., M156
 Rezvani, M., M249
 Rhein, R., M125
 Rhoads, D., T43
 Rhoads, D. D., T44
 Rhoads, M. L., 1126
 Rhoads, R. P., T314, T327, 477, 1126, 1127
 Riad, A. W., T339
 Riad, S. A., 658, 971
 Riasi, A., T304, W236
 Riaz, A., 994
 Ribeiro, E. S., T269, T434, W279
 Ribeiro, F. R. B., M128, T471, W352, 323, 752
 Ribeiro, K. G., W337
 Ribeiro, M. L. G., M215
 Ribeiro, R. A., 1121
 Ribeiro, R. P., 697
 Ribera, D., M342
 Rich, A. R., 1044
 Richards, C. J., W359, 735, 767
 Richards, J. D., 46, 699, 970
 Richardson, L. J., 442, 445
 Richert, B. T., T4
 Richeson, J. T., 774
 Richmond, J. P., T294, W293
 Richter, E. L., 388, 552, 558
 Ricks, D. W., W170
 Rico, D. E., 740
 Ridpath, J. F., 770
 Rieron, R. D., W325
 Rieron, R., W252, 500
 Rigby, F. L., M346
 Rigsby, L. L., 371
 Rigueira, J. P., W127
 Riha, J., T166, W27
 Rihan, H. M., M59, M62, T155
 Riley, D. G., W301, 782, 854
 Riley, J., 193
 Riley, R. R., 323
 Rill, C. R., W429
 Rimbey, N. R., 575, 1008, 1009
 Rinaman, L. M., 1115
 Rincon, G., 661
 Rincon, M., M94, M470, T32, T324, T467
 Rincon, M. I., T102
 Rincon, R., W440
 Rios, F. G., T453, W450
 Rios, I. R., T381
 Ríos-Rincón, F., W444
 Ríos-Rincón, F. G., W188
 Risco, C. A., W279
 Ritter, G., 464
 Ritter, M. J., 417, 966
 Rius, A. G., W194, W298, 721
 Rivas, M., M390
 Rivas, R., M17
 Rivera, A. R., T470
 Rivera, F. A., W282
 Rivera, J. D., 590

- Rivera, M. T., T467
Rivera, P., M89
Rivera-Ahumada, J. A., W188
Rivera-Torres, V., 702
Rivero, T., W260
Robbe-Austerman, S., M61
Robbins, J. A., W97
Roberts, A. J., 15, 852, 923
Roberts, C. A., 923
Roberts, M. P., T300
Roberts, R. F., W46
Robertson, K. L., M431
Robichaud, A., M96, M97
Robina, A., T179
Robinson, A., 928
Robinson, P. H., T383, T441, W312, 1051
Robinson, W., 226
Robison, T., T268
Robitaille, G., M144, W54
Robollar, R.S., T449
Roça, R. O., M17
Roca-Fernández, A. I., 819, 820, 821, 907
Rocco, S., 210, 213
Roccon, J., W232, W250
Rocha-Chavez, G., M131, W107, W470
Roche, J. R., W194, 721
Rochell, S. J., 685
Rochesel, J. R., W378
Rode, L. M., M443
Rodehutsord, M., 668
Rodenburg, J., M51
Rodrick, G. E., 448, 449
Rodrigues, D. A., M348
Rodrigues, G. H., W447
Rodrigues, G. P., 828
Rodrigues, I., W18, W248
Rodrigues, J. F. H., M161, M166, W126
Rodrigues, P., M355, M356
Rodrigues, R., M277, T83, T84, T318, T319
Rodrigues, V. P., M208, M223, M224, T214
Rodríguez, A. A., W443
Rodríguez, D., T135, T244
Rodríguez, E., M112
Rodríguez, F., M276, M413
Rodríguez, H., M94, M470
Rodríguez, H. M., T358
Rodríguez, J. C., T390, T393
Rodríguez, J. D., W212
Rodríguez, M., T375
Rodríguez, M. A., M423, 874
Rodríguez-DeLara, R., W10
Rodríguez-Estévez, V., M335
Rodríguez-García, J., M325
Rodríguez-Lecompte, J. C., 352, 657, 841
Rodríguez-Macias, R., M360
Rodríguez-Martínez, R., M328, T466
Rodríguez-Muela, C., M345, M112, M113, T404, W108
Rodríguez-Munoz, J. C., M203
Rodríguez-Prado, M., T459, W370
Rodríguez-Ramírez, H. E., W108
Rodríguez-Ramírez, M. R., M360
Rodríguez-Sánchez, J. A., M219
Rodríguez-Saona, L. E., T81
Rodríguez-Zas, S. L., 391, 729, 1060
Roehle, R., 432
Roffe, T. J., 530
Rogers, C. J., W469, 711, 1123
Rogiewicz, A., 686, 979
Rojas, N. M., W333
Rojas-Olivares, M. A., M331, 1019
Rojo, R., M322, M354, T132, T364, T464, T465
Rojo, R. R., M352
Roldan, L., M238
Rolf, M. M., 787
Rolfe, K., 557
Rolfe, K. M., 202, 204
Rollin, B., 609
Roman-Muniz, I. N., M265
Romera, A., T315
Romero, C., M251, W212, W319, 344
Romero, J. J., 454
Romero, L. F., 142
Romo, J. A., W313
Rompato, G., 953
Roncancio-Peña, C., M98
Ronchesel, J. R., T28, T29, T30, W379, W380, W381, W387, 735
Ronquio, M., M351, M354
Rood, K. A., 286
Roof, C. A., T121
Rortvedt, L. A., W251
Rosa, A. P., 697, 698, M236, M237
Rosa, B. L., M157, M160
Rosa, G. J. M., 621
Rosa, H. D., T28
Rosa, L. O., W337
Roseberg, R. J., T116
Rosebrough, R. W., T136
Rosenberger, T., 690
Rosenkrans, C., Jr., M119, M120
Rosen-Molina, J. T., 1022, 1023
Röser, W., 108
Roshan, H., T305
Ross, C. L., 547, 747
Ross, D. A., M446, T420, 45, 426, 892
Ross, R. P., 508
Ross, T. N., 831
Ross, T. T., M289, 712
Rossi, P., T190, 672
Rossi Paneto, B., W49
Rossitto, P.V., T153
Rossnagel, B. R., 351
Rossoni, M., T252
Rossow, H. A., W356
Rostagno, H.S., M208, M211, M212, M213, M214, M268, 140
Rostagno, M. H., W87
Roth, A. P. T. P., W135, W136
Rottinghaus, G. E., M295
Rotulo, J., W390
Rotz, C. A., 632
Rouquette, F. M., Jr., M127, M128, W352
Roura, E., W208, 145
Roux, M., W269, W270
Rowe, C. P., 722
Rowe, D. E., 360
Rowell, J. E., M327
Rowson, A., 836, 837
Roy, S., T93
Royón, F. D., 509
Roza, T., W43, W71
Rozeboom, D., W318
Rozegurt, E., 1115
Rozell, T. G., 1135
Rozenboim, I., W290
Ruanganit, Y., M250, 507, 516
Rubattu, R., M344
Rubio, H., T404
Ruch, F., T207, 341
Rucker, D. K., W44
Rudar, M., T191
Rude, B., M195
Rude, B. J., 455
Rude, C. M., W252, W325, 500
Rudolph, M. C., 315
Ruegg, P. L., M192
Rufino, L. D. A., M371
Ruggieri, A. C., T123
Ruiz de la Torre, J. L., T2, W457, 145
Ruiz, J., T179
Ruiz, O., M112, M113
Ruiz-Barrera, O., M345, W108
Ruiz-Díaz, M. D., T72
Ruiz-Feria, C. A., 175
Ruiz-Feria, C. A., 363
Ruiz-Flores, A., 433
Ruiz-López, M. A., M360
Ruiz-Moreno, M., T363, T377, 555
Rule, D. C., 1129
Rulquin, H., W424, 212

Rungcharoen, P., M250, 507
Rungruang, S., T314
Rupprechter, G., W275
Rushen, J., 53
Russell, J. R., M386, W316, W317, 92,
634
Russell, L. E., T339
Russell, M. A., 809
Russell, M., 1069
Russell, M. L., 18
Russell, R. A., 223
Rust, S. R., 553
Rutherford, W. C., 69
Ruy, D. C., W100
Ryan, P. L., M203, 829, 1095
Ryland, D., M257

S

Sá Filho, O., T267, W277, W278
Sá, L., M213
Saberifar, T., M287
Saddoris-Clemons, K. L., 598
Sadjadian, M., M353
Saeed, A. A., T163
Saenmahayak, B., 178
Saevre, C. S., 9
Saez, A. C., 1089
Safa, S., M285
Safaa, H. M., 497, 658, 971
Saffon, M., M190, W74
Safranski, T.J., 82, W463
Sahin, K., 976
Sahin, N., 150, 976
Sahlu, T., T456, T457, T468, 757
Sahoo, A. W., 374
Saima, , 374
Saint-Eve, A., 296
Sainz, R. D., W185, 75
Sakomura, N. K., 337, 656
Salahi, A., M401, M402, M403
Salak-Johnson, J. L., M47, M86, 30,
409, 410, 411, 412, 413
Salama, A. A. K., M331, 725, 885, 1019
Salas, C., M205, M231, T196, T241,
T242, W219
Salcedo, E., W260
Salcedo-Pérez, E., M360
Saleh, H., W13
Salehi, R., T280
Salem, A. Z. M., M322, M351, M352,
M354, M420, T132, T364, T448,
T449,
T464, T465
Sales Pereira, E., M14, M465
Saliba, E. O. S., T421
Salim, H., 738
Salim, H. M., 517
Salin, M. M., W301
Salinas Munguia, F. M., M104, M105
Salinas, J., M112, M113, W389
Salinas-Chavira, J., 3
Salisbury, M. W., M463
Salmerón, J. J., W452
Saltman, R. L., 594
Salunke, P., M182, T87, 949
Salvador, F., T404
Salvati, G. G. S., T421, T425
Salvatore, E., 948
Sampaio, A. A. M., M157, M160
Samuel, R. S., 760
San Vito, E., M371
Sanal, H., T97
Sánchez, D. L., W343
Sánchez, J., W467
Sanchez, L., W320
Sánchez, M., T179, W460, W466, W467
Sanchez, P. H., 22
Sánchez, T., M288, M297, M298, W289
Sanchez, W. K., W420, W428
Sanchez-DelReal, C., M474
Sánchez-Macias, D., T72
Sanders, A. H., W335, 1020
Sanders, M. E., 628
Sanders, S. R., 1126, 1127
Sanderson, M. A., T133
Sandoval, A. P., W333
Sandri, E. C., M453, T461
Sangild, P., 689
Sanjabi, M. R., W42
Santana Júnior, M. L., T48
Santana, A. P., W100
Santana, M. C. A., M152, W336
Santellano, E., W451
Santellano-Estrada, E., M113
Santiago, A. M. F., T435, T436
Santillano-Cázares, J., W131
Santos, A. K. R., W59
Santos, C. S., T214, T215
Santos, D. C., M20
Santos, E. G., M102
Santos, F. A. P. S., M419
Santos, F. A. P., M348, M397, M398,
M399, M415, W364
Santos, G. T. D., W435
Santos, J. E. P., T17, T269, T384, T434,
W166, W279, W287, 264, 390, 1081
Santos, M. B., W255
Santos, M. C., W127
Santos, M. V., M44, M166
Santos, P. M., W138
Santos, V. P., M418
Santos-Haliscak, J. A., T113
Santos-Rosell, S., W223, W263
Santschi, D. E., 716
Santurio, J. M., M236, M237
Santus, E., 615
Sanz, M. A., M219
Sapienza, D. A., M448
Sapienza, D., T429
Saraee, H., M458
Saraiva, A., 1063
Saravia, P. A., M107
Sargeant, J. M., 392, 423
Sargent, K. M., T333
Saro, C., M365, T134, T376, T378
Sarti, L. M. N., T28, T29, T30, W378,
W379, W380, W381, W387
Sartin, J. L., M291, T21, W141, 5, 102,
771
Sartsoongnoen, N., W290
Sarturi, J. O., W122, 204, 207, 557
Sarwar, M., T357
Sato, T., 955
Saucedo, J. S., T53
Saucier, L., 418
Sauer, A., M186, M188
Sauerwein, H., T256, T257, M279
Saunders-Blades, J. L., 501
Sauvant, D., M452, 702, T444, 560, 741
Sauvé, A., M245
Savage, E. M., 328
Savage-Clarke, K. L., 81
Savary-Auzeloux, I., M452
Savell, J. D., 780, 781
Savell, J. W., 323
Savin, M., M119
Savoini, G., 468
Sawyer, J. E., T55, W371, 97
Saylor, W., T206, W203
Scanga, J. A., 20
Scaria, J., 61
Scarpa, A., W276
Scarpa, A. B., T263, W351, 389
Scarsi, A., W147
Schacher, P., M58
Schadt, I., T76, T329
Schaefer, A. L., M26, M431
Schafer, D. W., W306
Scharf, B. S., M37
Scharf, B., M38, 592, 1080
Schatzmayr, A., 818
Schatzmayr, G., W8, 265, 1076
Schauer, C. S., M278, T176, W142,
W149, 8, 9, 1036, 1130
Schauermann, N., 831
Schauermann, N. L., 835
Schauff, D. J., W115, W128, 1058

Scheffler, J. M., 478
 Scheffler, T. M., 478
 Scheideler, S., 339
 Scheideler, S. E., T188, W229, 669, 696
 Scheifele, P. M., 255
 Schepis, S., W23
 Scher, A., M236, M237, 697, 698
 Schimek, D., T345, T351, 397
 Schinckel, A., T148
 Schingoethe, D. J., 659, 744
 Schlageter, A., 885
 Schlotterbeck, R. L., T353, 396, 398, 400
 Schmelz, N. S., T405, W403
 Schmidek, A., M17
 Schmidt, K., W15
 Schmidt, K. A., T98, W47
 Schmidt, P., T317, W122
 Schmidt, R., W431, W433
 Schmidt, T. B., T21, 771, 13, 590, 1004, 1005, 1090
 Schmitt, E., M299, 1060
 Schnabel, R. D., 788
 Schneider, A., M299
 Schoenberg, K. M., M200
 Schoendorfer, K., 818
 Schoenfuss, T. C., M185, M187, 800
 Scholey, D., W284
 Scholljegerdes, E. J., W353
 Schoten, M. S., T359
 Schott, H. C., 832
 Schramm, R. D., T23, W9
 Schrick, F. N., W363
 Schroeder, A. L., 379, 381
 Schroeder, G. F., T375, T415
 Schuenemann, G. M., W82
 Schukken, Y. H., M64, 56, 276, 280, 281, 282, 283, 594
 Schulz, M., T221
 Schuster, G., 1090
 Schutz, J. S., 20
 Schütz, K. E., 718
 Schutz, M. M., M1, M2, W31, W32, W87, 87
 Schwab, C. G., T429
 Schwab, C., T433, T437
 Schwarte, K. A., 634
 Schwartz, C. A., T176
 Schwartzkopf-Genswein, K. S., M16, M23, T35, 420, 942
 Schwean-Lardner, K., T9, W266, 182, 260, 582, 585, 586
 Schwegler, E., M299
 Schwertner, L. R., T15, T154
 Sciabica, K. S., W148
 Scott, C. B., 267
 Scott, M., W214
 Scott, M. C., M60, M63
 Scott, M. P., W431, W433
 Scott, S. L., M431, 855, 1031
 Scott, T. A., 443, 980, 984
 Scropo, M. M., 712
 Scully, B. T., W124
 Seabolt, B. S., W234, W265
 Seabrook, J. L., T27, 30, 778
 Seck, M., M408, T395
 Secrist, D. S., 203
 Sedano, G., 978
 Sedghi, M., M252, M258, M259
 See, M. T., 987
 Sefton, A. E., W228
 Seguin, G., M51
 Seguin, P., 453, 815
 Seidel, G. E., T27, T283, W286, 778, 887, 996
 Seifi, K., W22, 1078
 Seigel, P. B., T41
 Seitz, E., T377
 Sejrsen, K., M147
 Selaive Villarroel, A. B., M14, M465
 Selby, C. C., 842
 Selegato, A. L. M., M455
 Selinger, L. B., W406
 Selle, P. H., 1108
 Sellers, J. S., 1040
 Selsby, J. T., 417
 Selvaraj, R. K., 651
 Semler, J. W., T330
 Seneviratne, R. W., W146
 Seo, K. Y., M172, T180
 Seo, S., W416
 Sepulveda, A., W470
 Serna, O., M112
 Serna-Beltran, O., M113
 Seroussi, E., T279
 Serr, J., T262
 Serrano, A., T460
 Serrano, M. P., T149, T150, T181, W258, W263, 110, 141, 497, 510
 Severy, A. M., T342
 Sevier, D. L., W9
 Sevim, O., T295
 Sewalem, A., 928, 929
 Seward, K., 193
 Sewell, J., T360
 Sexson, C., W349
 Sexten, A. K., 70, 783
 Sexten, W. J., 1045
 Seyed Dokht, A., W36
 Seykora, A. J., 434
 Shabani, A., M374, M375
 Shackelford, S. D., T152
 Shadparvar, A., M458
 Shafer, W. R., 787
 Shaffer, J., W16, W19
 Shafii, B., W429, 482
 Shah, N. P., 791
 Shahid, M. Q., 859
 Shahir, M. H., M373
 Shalit, U., 170
 Shan, D. C., W259
 Shan, T. Z., 325
 Shand, P. J., T185, 587, 943
 Shane, E. M., 859
 Shanmugasundaram, R., 651
 Shannon, M. C., 81
 Shao, Y., 963
 Sharafbafi, N., 945
 Sharif, H., W83
 Sharif, S., 657
 Sharkey, H. L., 594
 Sharma, C. S., 448, 449
 Sharman, E. D., 17, 29, 387
 Sharpton, C., 323
 Shaver, R. D., M108, M201, T297, W427, W431, W433
 Shaver, R., M103
 Shaw, A. L., 335
 Shaw, R. W., M63
 Shawrang, P., T443
 She, R., W225
 She, R. P., M56
 Sheaffer, C., 117, W129
 Sheaffer, C. M., 242
 Sheffield, C. L., 181
 Sheffield, R. E., W332
 Shekhar, S., 841
 Shellem, T. A., 812
 Shelton, A., 149
 Shelton, N. W., 492
 Shen, J. S., M93
 Shen, X., 1039
 Shen, Z., T47
 Shen, Z. Q., T204, T227
 Shenkoru, T., M194
 Shepherd, D. M., 211, 245, 873
 Sherrow, E., 404
 Sherwood, D., 836
 Shewmaker, G. E., W84
 Shi, J., W235
 Shi, L., T281, M194
 Shields, D., M32
 Shields, S. L., W9
 Shields, T. H., M369
 Shike, D. W., 730
 Shimelis, O., 800
 Shimosato, T., 955
 Shin, D. H., T216

Shin, J. H., T384, W446, 454, 1081
 Shin, J. S., W395
 Shin, S., T145, T262
 Shinde, P. L., T219
 Shinzato, I., T418, 215, 218, 1051
 Shipka, M. P., M327
 Shipley, L. A., M329
 Shiranjang, R., 865
 Shirazi-Beechey, S. P., W204, 349, 689, 1119, 1120, 357
 Shires, L. K., W267, 331, 346, 340
 Shirley, R. B., 138
 Shirzadi, H., T203, T212
 Shishodiya, A., 285
 Shivaramaiah, S., 538, 90
 Shivazad, M., M249, M261, T203, T212, 973
 Showrang, P., T413
 Shukla, P. K., 1130
 Si, H., T293
 Siam, S. S., 658, 971
 Siciliano, P. D., W175
 Siécola Júnior, S., T381
 Siegel, P. B., 648
 Sikand, V., T93
 Siletzky, R., M319
 Silguero, R., 536
 Silva del Rio, N., T334, T336, W391, W411, 864
 Silva, A. F., W255
 Silva, A. G., W163
 Silva, C. T., M215
 Silva, E. C., M20
 Silva, E. F., M95
 Silva, F., T245
 Silva, F. M., M20
 Silva, H. G. O., T470
 Silva, I. S., M78, W305, W377
 Silva, J. D. T., T11
 Silva, J. D. T., W232, W250
 Silva, J. H. V., M102, M247, T138
 Silva, J. H. V., M213, M223, M224
 Silva, J. L. B., M95
 Silva, J. M. P., T29
 Silva, J. M., 358
 Silva, J. M., T322, T324
 Silva, J. R. M., W421
 Silva, J. T., T338
 Silva, L. F. P., T130, 828, 1121
 Silva, L. H. P., M371, W365
 Silva, L. H. X., T109
 Silva, L. O. C., M78, M79
 Silva, M. L. P., W347, W348
 Silva, M. M. C., M161
 Silva, N. M. A., W71
 Silva, P. T., M410
 Silva, R. A., M155, M156
 Silva, S. L., T167
 Silva, V. K., T11
 Silveira, M. L. A., W117
 Silveira, V. A., T381, T417, T421, T425, W421
 Silver, G. A., 290, 924
 Silvestre, F.T., T269, T384
 Silvey, D. T., W360, 825, 1033
 Silvia, C., M272
 Sim, J. H., W52
 Simeone, R., 612
 Simeonovova, J., T168
 Simm, G., 432
 Simon, K. C., W165
 Simpson, M. M., 755
 Simroth-Rodriguez, J., 1003
 Sims, M. H., T474
 Sims, M., 506
 Sindt, J. J., 378
 Singh, A.V., M71, 57, 284
 Singh, B., M71, 57, 285
 Singh, M., 178
 Singh, P., 107
 Singh, P. K., M71, 57, 284
 Singh, S. V., M71, 57, 284, 285
 Singh, Y., W205
 Singleton, W. L., 991
 Sini, M., W459
 Siqueira, A. V., T417
 Siqueira, G. R., M17, T164, T165
 Siqueira, W., M274
 Siragusa, G., 464
 Sirski, T. K., 855
 Sitta, C., M348, M419
 Sitzia, M., M376
 Skaggs, C. L., W371
 Skewes, P. A., T10
 Skinner, M. K., 776
 Skirpstunas, R. T., 263
 Skrzypek, M. V., T327, 1126, 1127
 Slagel, T., T143
 Slavik, M. F., 440
 Slavik, M., M101
 Slay, L. J., 1034
 Sloan, B., T433, T437
 Slominski, B. A., 332, 686, 979
 Sloth, K. H., 817
 Sloth, N. M., T249
 Slough, T. L., W172
 Smarsh, D., W180
 Smiley, S., T58
 Smith, A. H., T157, T382
 Smith, D. L., 484
 Smith, D. P., 372
 Smith, D. R., 49
 Smith, G. C., 20
 Smith, G. R., M109, M110
 Smith, J., 280
 Smith, J. F., W330, 726
 Smith, J. M., 276, 283
 Smith, J. M., M64
 Smith, M. F., 79, 80
 Smith, M. F., T270, 842, 843, 844
 Smith, M. O., 176
 Smith, R., 280
 Smith, R. L., 56, 281, 282
 Smith, R. M., 239
 Smith, S. B., T439, W155, W360, W361, 825, 1033
 Smith, T. K., W178, W217, W245, W247, W249
 Smith, T., T143, 590
 Smith, T. P. L., 70
 Smith, V., 268
 Snauwaert, C., W45
 Snelling, W. M., 70
 Snowden, G. D., 424
 Snyder, L. J., W93
 So, H., T298
 Soares, G. H., T435, T436
 Soares, W. V. B., M44
 Soberon, F., T342, W164
 Soberon, M. A., 45
 Soca, P., M292, T290, T291
 Socha, M. T., M201, T297, W427, 886
 Soder, K. J., T133
 Soetrisno, E., 1103
 Sohail, M. U., 173, 994
 Sohal, J. S., 284
 Sokale, A. O., 362
 Solaiman, S., T451
 Solaiman, S. G., T452
 Solaimany, A., M349, M350
 Solà-Oriol, D., M235, T1, W454
 Soleimani, A., M285
 Soleimani, M., W14
 Soleimani, P., M258, M259
 Solis de los Santos, F., 440
 Sollenberger, L. E., T117, W117, 232
 Somers, I., 108
 Sommer, D. A., T81
 Sommerer, D. K., W15
 Somni, H., 304
 Son, K. H., T216
 Son, Y.-S., W56
 Song, D., M99, W65, W66
 Song, J., T39
 Song, M. K., T439, W361
 Song, X. Z., 1083
 Song, Y., 106
 Sorbara, J. O. B., M212, 140, 697, 698

Sorbolini, S., W24
 Sordillo, L. M., 247
 Sørensen, M. T., M147
 Soriano, S., W277, W278
 Soto-Gaspar de Alba, A., W308
 Soto-Navarro, S. A., W308, W389, 1138
 Sottosanti, J. R., 348
 Souchon, I., 296
 Sousa, J. E. L., T407, T408
 Southern, L. L., 144
 Souto, L. A., 849
 Souza Castagnino, P., W345
 Souza, A. C. S., T435, T436
 Souza, E. J. O., M248
 Souza, G. B., W139
 Souza, J., M453, T461
 Souza, J. C., M79
 Souza, K. A., M165, M414, T438,
 W116, W134, W368, W369
 Souza, M. R., T83, T85, T318, T319,
 W43, W53, W59, W71, W99
 Souza, N. K. P., W373
 Souza, R. B., M213
 Souza, R. C., W303, W304
 Souza, S. F., M13
 Sowerby, M. E., 231, 237
 Sowinski, J., M32, W11
 Soyeurt, H., 784, 785, 799
 Spadoti, L. M., 794
 Spain, J. N., W396
 Spangler, D. A., M67, W115
 Spangler, M. L., W385
 Spanu, G., 324
 Sparks, B. L., 845, 991
 Spears, J. W., 159, 519, 520, 878
 Speidel, S. E., M81
 Speiser, K. L., T286
 Spell, A. R., W300
 Spence, C., W318
 Spencer, J. D., 681
 Spencer, T. E., 7
 Spiers, D. E., M37, M38, T333, T335,
 592, 1021, 1080
 Spliid, N. H., 817
 Sproul, N. A., 11, 380, 1005
 Sreekumar, K. P., 974
 Sreevatsan, S., M65, M69, 58, 62, 64
 Srichana, D., M381, W243
 Srichana, T., W243
 Srinivasan, R., W254
 Sriperum, N., M228
 Srivastva, A., M71
 Stabel, J. R., M59, M61, 62, 665
 Stahl, C. H., W234, W265
 Stalder, K. J., 417
 Stalker, L. A., 99, 386, 1037, 1046
 Stallings, C. C., W329
 Stamey, J. A., 211, 245, 873
 Stamey, J., 391
 Stampelou, I., 797
 Stanford, K., 439
 Staniar, W. B., W171, 833
 Stanisiewski, E., T308, T309
 Stanko, R. L., 536
 Stanley, C. C., 244
 Stanton, A. L., 663
 Staples, C. R., T384, T434, W166,
 W272, W400, 232, 264, 454, 1081,
 1142
 Stapp, A. D., W145
 Stark, C. R., 700, 902
 Starkl, V., W18
 Stebulis, S. E., 1055
 Steele, B. P., M291, W141
 Steele, J., 131
 Steele, J. L., 134, 298
 Steele, M. A., 1145
 Steer, M., 1052
 Stef, D., M273
 Stef, L., M273
 Stefanutti, E., M173
 Steibel, J. P., W271, 720
 Stein, D., 768, 783
 Stein, H. H., M216, T193, T222, 152,
 491, 496, 1105
 Stein, R. A., T458
 Steiner, T., 353, T350
 Steinfeld, H., 77
 Stencil, J. M., W64
 Step, D. L., 767, 768, 769
 Stephens, M., M400
 Stephens, T. P., 439
 Steri, R., W24, 615, 724
 Stern, M. D., T363, T377
 Sternini, C., 1115
 Stevenon, M. A., 886
 Stevenson, D. M., 748
 Stevenson, J. S., T265, T282, 161
 Stevenson, K., M8
 Stevenson, L. M., T287, 364
 Stewart, A. N., W15
 Stewart, B. A., W329
 Stewart, B. M., 997
 Stewart, G., W247
 Stewart, K. R., 520
 Stewart, T. S., 991
 Stewart, W. S., T471
 Stewart-Smith, J., W146
 Stinckens, A., 981
 Stobart, R. H., 1015
 Stockton, M. C., 99
 Stokes, M. R., W91
 Stokes, R. H., M118
 Stoll, B., 1118
 Stomp, A., M317
 Stomp, H., T205
 Stone, A. R., T452
 Storer, W. A., M369, T108
 Storm, A., M70
 Stormshak, F., T270
 Stott, J. L., T153
 St-Pierre, N., T431, W391, W411, W428
 Stradiotto, M., M44, M355, M356
 Strathe, A. B., 1056
 Strawford, M. L., 587, 943
 Streeter, M. N., 114
 Streiter, P., 322
 Streltsova, J., W180
 Strickland, J. R., M121, W292, W355
 Stringfellow, K., 512
 Strohbahn, D. R., 78, 1040
 Strohm, A., 829
 Stromberg, A. J., 559
 Strudsholm, F., W362
 Stuard, L. H., M132, M140
 Stull, C. L., 941
 Stumpff, F., 1144
 Stutts, K. J., M19, W170
 Su, C. H., M314
 Su, F., T70
 Suagee, J. K., 356
 Suárez, J. A., W208
 Suarez, S. S., 534
 Suarez-Mena, F. X., T353, 48
 Subrt, J., T166, T168
 Such, X., 725
 Suchodolski, J. S., 293
 Südekum, K.-H., W118, 459
 Sueiro, S., 510
 Suever, E., M195
 Suh, Y., T146, T262
 Sulistyowati, E., 1103
 Sullivan, C. P., W314
 Sullivan, J., T363
 Sullivan, M. L., W420
 Sultan, J. I., 1050
 Sultan, Javed Iqbal, 1062
 Sultana, H., T447
 Summers, A. F., 853, 1006
 Sumner, D. A., 1022, 1023
 Sumrit, A., W243
 Sun, J. Y., T204, T227
 Sun, L. H., W215, W241
 Sun, P., M93, T90, T374, T440, W408,
 W410, 871
 Sun, Q. J., T141
 Sun, Y. L., M145
 Suriyanto, M. S., T102

- Suryawan, A., 6, 604
 Susenbeth, A., 494
 Susin, I., M455, M457, W447
 Sutherland, M. A., 414
 Suttitham, W., W243
 Sutton, A., 867
 Swaggerty, C. L., T40
 Swamy, H. V. L. N., M116, M117, W110
 Swanepoel, N., T441
 Swanson, J., 35
 Swanson, J. C., 54, 607, 1028
 Swanson, K., T356, 1035
 Swanson, K. C., W366, 738
 Swanson, K. S., T57, T58, 291
 Swanson, T. J., W142, W149
 Swartz, H., 83
 Swartz, H. A., W15
 Swecker, C. W., Jr., 912
 Swecker, W., 321
 Swecker, W. S., M159
 Sweeney, R. W., 276
 Swenen, Q., 981
 Swening, C. D., M464
 Swingle, R. S., 114
 Swinker, A., W176, W181
 Syam-Mohan, K., 336
 Sylvester, J., W183
 Szabó, F., T25, W193
 Szasz, J. I., 203
- T**
- Tactacan, G. B., 695
 Tadano, Y., 192
 Tager, L. R., T401, 44
 Taghizadeh, A., T198, W328
 Taha, E., T451
 Tahmasbi, A., M256, M402, M403, M406, M407, M428, M434, M435, T442
 Tahmasebi, A. M., T445
 Tahmorespour, M., W36
 Tai, M. E., W456, W464
 Taicher, G., T136
 Taira, H., T10
 Tait, R. G., Jr., 323, 770
 Tajkarimi, M., M99
 Tako, E., 514
 Talaat, A. M., 60
 Talaty, P. N., M308
 Tamminga, E., 940
 Tan, T. J., M186
 Tan, W., 131
 Tang, J. Y., W264
 Tang, J., M56
 Tang, Q. F., 219
- Tangara, M., 644
 Tanner, A. E., M126, 912
 Tao, S., 475
 Tapia-Gonzalez, J. M., M131, W107, W470
 Tarouco, J. U., T167
 Tatli, O., T295
 Tatone, E. H., 903
 Tauck, S., 856
 Taupier, R., 990
 Taxis, T. M., 787
 Taylor, A., M290
 Taylor, D., T350
 Taylor, E. C., M449
 Taylor, J. B., 572, 577, 631
 Taylor, J. F., M74, 787, 788
 Taylor, K.M., 737
 Taylor, N., 832
 Taylor, N. P., W271
 Taylor, R. L., Jr., 648
 Teather, R. M., T403
 Tedeschi, L. O., M15, M127, M128, M432, M453, T462, T463, W162, W163, W352, W412, W447, 911
 Tedo, G., 145
 Teeter, R. G., 342
 Teixeira, I. A. M., M13, T462, T463, T470
 Teixeira, M. B. M., M95
 Tejido, M. L., M365, T134, T376, T378
 Tekippe, J. A., 40, 481
 Tellez, A. M., 947
 Tellez, G., M27, 90, 269, 538
 Tellez, G. I., 91
 Tempelman, R. J., 720
 Teodoro, A. L., W369
 TerHune, T. H., 381
 Terré, M., M473, 399
 Terrill, C. L., T55, 419, 862, 906
 Terrill, S. J., 767, 769
 Teter, B. B., T423
 Tetileanu, R., M273
 Tewolde-Medhin, A., M131
 Teymourizadeh, Z., W12
 Thackaberry, C., T414
 Thanissery, R., T140, 266
 Thatcher, W. W., T269, T434, W166, W272, W279, 264
 Theil, P. K., M147
 Thibault, C., M144
 Thin, D., M460
 Thoenfer, M. B., 749
 Thøgersen, R., 817
 Thomas, D. L., 406
 Thomas, M. G., 18, 21, 290, 913, 924
 Thomas, S. J., T140
- Thompson, C. D., 223
 Thompson, I. M., W272
 Thompson, L. C., 1031
 Thompson, L. D., 376
 Thompson, L. K., 383, 384, 732, 1141
 Thompson, M. M., 8, 1036
 Thompson, P. B., 1026
 Thomson, D. U., 13, 111, 591, 805, 838, 1004, 1005
 Thomson, J., M148
 Thonney, M. L., M459, W143, 892, 1049
 Thorne, M. S., T117
 Thorup, V. M., T326
 Thrift, T. A., 779, 780, 781
 Thurman, W. N., 1023
 Tian, F., T39
 Tian, J., W225
 Tian, L., 474
 Ticiani, E., M453
 Tillman, P. B., M228, 143, 499
 Tilman, P. B., 138
 Timmerman, C., 648
 Timoney, P. J., 1096
 Tinoco, J.L., M354, T132, T448, T449, T464, T465
 Tippetts, M., T69
 Tishida, G., 320
 Titgemeyer, E. C., 427
 Tiwari, A., 57, 827
 Tmanova, L., W46
 Todd, C. G., 392
 Toffano, S., W409
 Tohno, M., 955
 Tokach, M. D., 492, 701
 Tokach, R. J., W160
 Toledo Filho, S. G., M409, M418
 Toledo, E., W261
 Toledo, J. B., W455, W458
 Tölle, K. H., 494
 Tolleson, D. R., W306, 28
 Tomasula, P. M., T80, W73, 300
 Tomaszewski, M. A., 243
 Tomazella, D., T28, T29, T30, W378, W379, W387
 Tompkins, D., M141, T20, 650
 Tong, H. L., W195, 958
 Tong, J. F., M153
 Tong, P., T103
 Tong, P. S., T93, T100, W69, W72
 Tooker, M. E., 620
 Topper, P. A., 189
 Torell, L. A., 575
 Torrallardona, D., W208
 Torrence, M. E., 423
 Torrentera, N. G., W389

- Torrentera-Olivera, N. G., M325
 Torres Júnior, R.A.A., M78, M83, M155, M156
 Torres, A., T72
 Torres, C. A., 513
 Torres, R. M., 81
 Torres, S., 805
 Torres, T. R., M248
 Torrey, S., 418, 940
 Tosh, S. M., 945
 Tossenberger, J., T202, T230
 Tousley, C. B., W150
 Tower, J. E., 95
 Towhidi, A., T277, T278, 105
 Traber, M., W16
 Tracey, L. N., T131, 10
 Tracey, L., 22
 Trakooljul, N., T19
 Tran, H., T16, T194
 Tran, S.-T., W247
 Trejo, C. O., W307
 Trelea, C., 296
 Tremblay, G. F., M392, W137
 Trento, F. K. H. S., 794
 Trevisanuto, C., M277
 Trevisi, E., M302
 Tricarico, J. M., M370, T397, W186, 569
 Tricarico, J., T349
 Troche, C., 350
 Trott, J. F., W198
 Trottier, N. L., W271, 120, 355, 832
 Truax, S., W176
 Trujillo, A. I., M80
 Trujillo, J. D., 286
 Trushenski, J., W415
 Tsai, C. C., W456, W464
 Tschida, G. L., W314, W315
 Tseng, Y. C., W70
 Tsuruta, S., M84, W25, 613, 926
 Tu, Y., T340, T355, 394, 395
 Tucker, A. L., M30, W140
 Tucker, C. A., 268
 Tucker, C. B., 254, 718
 Tucker, H. L. M., 224
 Tucker, J., M119
 Tucker, T. W., W187
 Tuersunjiang, N., 1131
 Tufekcioglu, M., W316
 Tullio, R. R., W347, W348
 Tuminello, L., 798, 951
 Tung, S., M305
 Tunick, M. H., T80
 Turk, M., 600
 Turk, P. J., 346
 Turkmen, I. I., 894
 Turnbaugh, P., 295
 Turner, P. V., 262
 Turpin, S., 416
 Tuzcu, M., 976
 Tyler, H. D., T292, T360
 Tyler, P. J., 125, 126
 Tylutki, T. P., 429
 Tyus, J., M324, T36
- U**
- Ubah, E. J., 505
 Uddin, Z., M309
 Ueng, T. H., M315
 Ulery, M. C., 676
 Ulmer, J. D., 227
 Umaña, J. A., W320
 Underwood, K. R., M153, 636
 Ungerfeld, E. M., 567
 Unruh-Snyder, L. J., W353, 95
 Unsal, H., T295
 Urbinati, E., T123
 Urriola, P. E., T193
 Urrutia, J., T467
 Urschel, K. L., 109, 354
 Usry, J. L., 138
 Üstüner, H., 405, 894
 Ustunol, Z., T91, T92
 Uthlaut, A., 999
 Uthlaut, A. B., M280, 637, 914
 Uthlaut, V.A., 1015
 Utsumi, S. A., M130
 Utt, M. D., 667
 Utterback, C. W., W256
 Utterback, P. L., M220, M222, W256, 347
 Uwituzze, S., 551
 Uzu, G., 1106
- V**
- Vacatko, E., T166
 Vacchina, V., 1017, 1018
 Vaez Torshizi, R., T13, W42
 Vafa, T. S., T416
 Vakili, A., M349, M350, T370, T371, T379
 Vakili, A. R., M353, M434, M435, W404
 Val Neto, E. R., T406
 Val, H. N., T406
 Valadares Filho, S. C., M155, M156, M363, M371, T435, T436, W337, W365, W373
 Valdez, J. A., W389
 Valdivie-Navarro, M., T192
 Valencia, D. G., T149, T150, 141, 497
 Valencia, E., W112
 Valente, A. L. S., 358
 Valente, É. E. L., M161
 Valentini, A., M82, 615
 Valipouri, A. R., 1077
 Valizadeh, R., M385, M401, M402, M403, M406, M407, M428, T416, W417, W426, T445
 Valles, J., 805
 Vallet, J. L., M293, T152, 523
 Vallimont, J., 66
 Valvekar, M., 1016
 Van Alstine, W. G., T159
 Van Amburgh, M. E., M446, T342, T420, W164, 43, 426, 1128
 van Baal, J., 884
 Van Bibber, C. L., 384
 Van Campen, H., M47, M86, 30, 422
 Van De Craen, S., 108
 van den Brink, H., 801
 Van Dender, A. G. F., 794
 van der Vossen, J. M. B. M., 980
 van der Werf, J. H., 789
 van Donk, S. J., 1046
 van Dorland, H. A., M426
 Van Dyck, S., 108
 Van Eenennaam, A. L., 24, 789
 Van Emon, M. L., W149, 8, 1130
 Van Enom, M. L., M278, W142
 Van Hekken, D. L., T80, 300
 van Immerseel, F., 353
 van Kaam, J. T., 615
 Van Kessel, A. G., T158, 351, 983
 Van Kessel, A., 192
 Van Kessel, J. S., 276, 283
 Van Tassell, C. P., 621
 van Vuuren, A. M., 884
 Vance, E. R., 907
 Vandamme, P., W45
 Vanderick, S., 784, 785, 931
 Vanelli Weschenfelder, A., 418
 VanKessel, J. A., 280
 Vann, R. C., M18, 421, 524
 VanOverbeke, D. L., M167, W359, 1008, 1009
 VanRaden, P. M., W30, 438, 617, 618, 620, 622
 VanWagoner, H. C., 913
 Vanzant, E. S., T59, T60
 Varela Junior, A. S., 358
 Varga, G. A., W26, W86, 40, 481
 Varner, D. D., 124
 Vasconcelos, J. L., M277, T267, W276, W277, W278
 Vasconcelos, J. T., 207, 557

- Vasquez, P., W312
 Vasseur, E., 53
 Vatandoust, A., W402
 Vazquez, A. I., 621
 Vazquez, C., T322
 Vazquez, J. F., T132, T464, T465
 Vázquez-Añón, M., T221, W233, W409, 153, 154, 373, 699, 872, 970, 1104
 Vázquez-Armijo, J. F., T364
 Vázquez-Pedroso, Y., T192
 Vázquez-Yáñez, O. P., 820, 821
 Vega, N., M90
 Veira, D. M., T344, W397
 Velazquez, E. A., W313, W384
 Velázquez-Morales, J. V., M325
 Veldkamp, A., W326
 Velez, D., M90, M92
 Velez, M., T358, W184, W186
 Véliz, F. G., M328, T466
 Velleman, S. G., 106, 822
 Vellios, H. L., M37, T333, 592, 1080
 Vendramini, J. M. B., W117
 Venegas-Ordóñez, M. R., T114
 Venkitanarayanan, K., W101, 440, 444
 Vera, J. M., M372, T372
- Vera-Avila, H., T467
 Veras, J. F., W99
 Veras, M., W277, W278
 Verdugo, M., W313, W384
 Vergara-Lopez, J., W191
 Vernet, J., M452, T444
 Versalovic, J., 625
 Verzignassi, J. R., T128
 Vester Boler, B. M., T58, 936
 Vestergaard, M., T341, W362
 Viana, E. P., T435, T436
 Viana, G. S., M363, W365
 Vibart, R. E., 816
 Vicario, D., M82, 615
 Vicente, J. G., T236
 Vickers, L. A., W397
 Vieira, D. V. G., M215
 Vieira, F., W276
 Vieira, L. D. C., W347, W348
 Vieira, R. A. M., M421
 Vieira, S. L., T211
 Vieira, T. N. N., 698, M236
 Vierck, J., 213, 210
 Viguera, J., T179, W460, W466, W467
 Vikari, A., 506
 Villalba, J. J., 93, 908, 909
 Villalobos, G., M390, M471, T385, W449, W451, W452
 Villarroel, A. B. S., M466, M467
 Vilmar Kozloski, G., W345
- Vink, S., T103
 Virden, S., 1113
 Visconti, A. M., 412
 Viso, A., M342
 Viswanathan, T. V., 336
 Viveros, A., M251, M274, W294
 Vizcarra, J., 893
 Vizzier-Thaxton, Y., M195
 Voelker Linton, J. A., M408, T395
 Vogel, G. J., W386
 Vogel, K. D., 416
 Voigt, L. A., 1042
 Voitle, R. A., 810
 Voland, P., 1117
 Voltolini, T. V., M397, M399
 von Bernuth, R., W318
 von Keyserlingk, M. A. G., M3, M6, M7, T344, W397, W401, 726
 von Soosten, D., T256
 Vonnahme, K. A., M278, M294, T176, W142, W144, W149, W398, 103, 642, 916, 1130
 Voogd, E., 416
 Voyer, N., W81
 Vriesekoop, P., 76
 Vyas, D., T423
- W**
- Wadhwa, A., M60, M63
 Wadhvani, R., M180, 136, 795
 Waggoner, J. W., 205
 Waghela, S. D., M139
 Wagner, A. L., 109
 Wagner, B., M141, 650
 Wagner, E. L., 118, 125, 126
 Wagner, J. J., 379, 381, 554, 736
 Wahlberg, M. L., 321, 912
 Wahrmund, J. L., W359, 735, 767
 Waldron, D. F., M462, M463
 Waldron, M. R., 660, 1127
 Waldroup, A. L., W98
 Waldroup, P.W., M207, M210, T189, T208, T224, 107, 703
 Walhof, C., T328
 Walk, C. L., 333, 348
 Walker, C. E., 382, 383, 1086
 Walker, D. A., 737
 Walker, E.L., 83, 119, 227, 402, 403, 1067
 Walker, J. A., M88, M91
 Walker, J. W., M463
 Walker, N. D., M368, M388, M389
 Walker, P. M., T5, W120, W346, W382, 409, 410, 411, 412
 Walker, R. S., 1043
 Wall, D., M307
 Wall, E., 799
 Wall, E. H., 467
 Wall, S. K., 1089
 Wallace, J. O., W340, 1003
 Wallace, L. D., T265, T282, W170
 Waller, J. C., M281, T273
 Walraven, T., 1112
 Walsh, H., T104
 Walsh, M. C., 508
 Walsh, T. J., 1109
 Walter, J., T16, T194
 Walter, L. J., 199
 Walters, D. T., 546
 Walters, F. K., 1095
 Waltman, D., 1024
 Walton, J. S., 595, 596
 Wan, H. L., M73
 Wan, Z. Y., 958
 Wanapat, M., M339, T368
 Wang, A., T289, T293, W156
 Wang, B., 326
 Wang, B. L., 1085
 Wang, C., 220, 717, 872
 Wang, C. M., 473, 474
 Wang, D., 305, T218, W166, 264, 1081
 Wang, D. M., 220, 717
 Wang, F., T251
 Wang, F. M., W259
 Wang, H., M286, W144, 71, 1085
 Wang, H. L., M72
 Wang, H. Y., W206, W207
 Wang, J., T106, T238, T247, T388, W199, W213, W259
 Wang, J. H., 872
 Wang, J. H., M72, M73
 Wang, J. J., 7
 Wang, J. P., M242, M260, M263, M264, M267, M270, M271, W211
 Wang, J. Q., M53, M93, M143, M439, T90, T374, T386, W79, W80, W408, W410, 871
 Wang, J. Q., T440, W78
 Wang, K. N., W235, W264
 Wang, K. Z., M56
 Wang, L., T231, T454, T455, 679, 680
 Wang, L. F., 688
 Wang, L. N., M142
 Wang, M., M39, T374
 Wang, N., W20
 Wang, P., W406
 Wang, R., M305
 Wang, S. X., T238, T247, W213, W259
 Wang, S. Y., W48, 957

Wang, T., T231
 Wang, X., T100
 Wang, X. H., W206, W207
 Wang, X. M., 543
 Wang, X. X., 1084
 Wang, Y., M253, M340, M341, M346, M347, M357, M358, M411, W291, 369, 460, 714, 836, 837, 1079
 Wang, Y. M., T238, T247, W213, W259, 220, 872, 1082
 Wang, Y. Z., W242, 325, 682, 765, 982, 1082, 1084
 Wang, Y.-J., M39
 Wang, Z., M136, T115, W146, 543, 757
 Ward, M. M., W300
 Ward, M. P., M70
 Ward, N. E., T211
 Ward, N., T206
 Ward, R. T., W123
 Ward, R., M450, T119, T126, W113, W125
 Ward, T. L., M334, 868, 1014
 Wardani, A. K., W64
 Warkentin, T. D., 139
 Warner, R. D., 967
 Warnock, T. M., 779
 Warren, J. C., 758
 Warren, L. K., 122, 830
 Warriach, H. M., T357
 Washburn, S. P., M198, 234
 Waterman, R. C., 852, 923, 1042
 Wathes, C. M., 1025
 Watkins, M., T350
 Wattiaux, M. A., T427, T428, W327, W331, 579
 Watts, J. M., 587, 943
 Watts, T., M461
 Waugh, T., T360
 Weaver, R. L., M38, M47, M79, M85, M86, T333, T335, 30, 81, 422, 787, 924, 1080
 Weakley, D. C., M108
 Weary, D. M., M3, M6, M7, T344, W397, W401
 Weaver, A. D., 636
 Weaver, S., M450, T126, W113
 Webb, G. W., 119, 402
 Webb, S. P., 119, 227
 Weber, D., 881
 Weber, P., W271
 Weber, W. J., W158, W159
 Webster, A. B., 1012
 Weeks, H. L., 221
 Wehnes, C. A., T157
 Wehrman, M. E., 25
 Wei, C.-W., 60
 Wei, H. Y., W79, M93, M143, M439, W78
 Wei, J., 964
 Wei, S. J., 219
 Weigel, K. A., T346, 437, 621, 622
 Weikard, R., 635
 Weimer, B. C., 953
 Weimer, P. J., 748
 Weisbjerg, M. R., T316, T341
 Weiss, W. P., T431, W82
 Welch, G. R., T285
 Welch, S. J., M303
 Weld, J., W176
 Wellberg, E. A., 315
 Wellnitz, O., W197
 Wells, J. B., 361
 Wells, J. E., W102
 Wells, S., 55
 Wells, S. J., M66, 278, 279
 Welsh, T. H., Jr., M18, M19, 421, 526, 524, 1034
 Wen, C., T231
 Wen, Z., 156
 Weng, X. Y., T204, T227
 Wenner, B. A., 238
 Wenz, J., 772, 773
 Wenz, J. R., M43, M45, T14
 Wertz-Lutz, A. E., W157, 636
 West, B. N., W267, 346
 West, C., M119
 West, C. P., M120
 West, J., 1133
 Wester, T. J., W205
 Westover, E. C., 736
 Wettemann, R. P., M154, T272, T296
 Wey, D., T226
 Weyker, R. E., 416
 Wheeler, E. F., 189
 Wheeler, T. L., T152
 Whiley, A., 417
 Whipple, S. M., T284, 191, 194, 195
 Whisnant, C. S., 878
 Whisnant, S., T235
 Whitaker, B. D., 990
 White, C. H., 308
 White, H., T405, W403
 White, H. M., T260, W299, W413
 White, K., W49
 White, K. S., T294
 White, M. E., W158, W159
 White, S., 830
 Whiteford, L., W92
 Whitehead, T., W318
 Whitehouse, N., T433, T437
 Whitehouse, N. L., T429
 Whitley, N. C., 758
 Whitlock, B. K., M291, T258, W141, 5
 Whitlock, R. H., M64, 275, 276, 280, 283
 Whitney, T. R., M464, 267, 458, 753, 754
 Whittier, J. C., T27, 778
 Whitworth, W., M168, M169
 Wickersham, T. A., W357, W371, 97, 487, 1047, 1048, 1088
 Wickramasinghe, S., 661
 Wideman, A. F., M48
 Wideman, R., T43
 Wideman, R. F., M48, M135, T44, W296
 Widjaja-Greefkes, H. C. A., 884
 Widmann, P., 635
 Widowski, T., 940
 Widowski, T. M., 262
 Wierenga, K. T., 727
 Wiggans, G. R., 617, 618, 622
 Wilborn, R., 251
 Wilcox, C. S., W87
 Wildeus, S., T458
 Wileman, B. W., 838
 Wiles, T. R., W297, W354
 Williams, S. B., 598
 Wilkie, A. C., 237
 Wilkinson, J., 856
 Wilkinson, N. S., 96
 Willard, S., 1090
 Willard, S. T., M203, M296, W311, 1095
 Willcutt, R., 455
 Willemsen, H., 981, 984
 Williams, C., W180
 Williams, C. C., W165, 39, 222, 240
 Williams, C. M., M191, M196, M422
 Williams, J., 76
 Williams, J. E., T333, T335, W414, W429, 277
 Williams, M. J., 782
 Williams, R. E., W87
 Williams, S. K., 448, 449
 Williams, S. M., 675
 Williams, T. J., 504
 Williams, Z. T., W334
 Williamson, M. G., M464, 754
 Willian, K. R., T452, 377, 1024
 Willing, B., 465
 Willingham, T. D., M463
 Willis, W. L., M307
 Willson, B. D., M265
 Willyard, A., 120
 Wilmoth, T. A., M284
 Wilson, B. K., 206, 767
 Wilson, C. L., 393

Wilson, D. J., 263, 286
Wilson, J. L., 442
Wilson, J. W., 337
Wilson, K. M., 42, 812
Wilson, M. E., M284, M333, M334,
525, 484, 868, 1014
Wilson, R. L., 1008, 1009
Wiltbank, M. C., W285, W283, 165,
166, 807
Windeyer, C., 662
Wineland, M. J., M137, 177, 193, 977,
646
Wineman, T., 699
Winkelman, L. A., 1128
Winsco, K. N., W182, 121
Winslow, B. L., T33
Winslow, N., 149
Winston, D. R., 221, 239, 245
Wistuba, T. J., M367
Witmore, B. K., 18
Witt, M. A., M370
Wittenberg, K. M., 686
Wolf, J., T25, W193
Wolfenden, A., T143
Wolfenden, A. D., 90, 91, 269
Wolfenden, R., T143
Wolfenden, R. E., 90, 538
Wolfenson, D., 849
Wolfgang, D., 280
Wolfgang, D. R., 276
Wolfová, M., T25, W193
Wolfswinkel, T. L., T360
Wolter, B. F., T217, T254
Womack, S., 360
Wong, C. F., W291
Wong, E. A., T41
Wood, B. J., 599, 922
Wood, C. M., 898
Wood, D., M32, W11
Wood, K. M., W366, 738
Wood, M. L., M27
Woods, J. A., 944
Woods, L. C., III, T285
Woodward, A. D., 120, 355, 832
Woodward, B., 71
Woodward, B. W., 788
Woolever, J. T., M387
Workman, J. D., W82
Worku, M., M24, M36, T161, W23
Wormuth, J., 663
Woyengo, T. A., 332, 352
Wrenn, R. L., 1070
Wright, C. L., 31
Wright, D., M324
Wright, J. R., W29, W90, 927
Wright, R. W., Jr., M75

Wu, B., T67
Wu, C., T22
Wu, C. C., M70, 277
Wu, G., W360, 7, 137
Wu, J. P., M72, M73
Wu, J. X., M88
Wu, T., 325, 682
Wu, W. X., T389
Wu, X. J., M72, M73
Wu, Z., T382, 717, 1134
Wuelling, B., 153, 154, 373
Wu-Haan, W., 541
Wulff, F. P., W15
Wuliji, T., M286, M461, T281, M194
Wyatt, C. L., 1109

X

Xia, X., W240
Xia, X. J., T251, W215, W235, W241,
W264
Xia, Z. S., 219
Xiao, L., T248
Xiao, N., T47
Xiaoyu, Z., W21
Xie, G., 28
Xie, J., 708, 709, 710
Xie, M. Y., W215, W241
Xie, Y. G., W242, 765, 982
Xin, H., 1025
Xing, J., W241
Xu, C. L., 1082
Xu, J. Q., M39, M40, M41, M42, W20,
1083
Xu, L., T148
Xu, S., 866
Xu, Z., M340, M341, M347
Xue, Y., W292
Xuriguera, H., M331

Y

Yaghobfar, A., M318
Yagi, K., M429, 216
Yahav, S., 174
Yahyabeig, A., 105
Yakout, H. M., 156
Yalamanchili, T., 376
Yamka, R. M., T59, T60, T61
Yan, F., 699, 970, T189, T221, T224,
1104
Yan, L., M243, M264, T220, W220
Yan, X., W144, 637, 638
Yang, B. W., M263, M267
Yang, B. Z., 219
Yang, C. M., 543
Yang, F., 220
Yang, G., T90, T440, W408, 871
Yang, H. E., M306
Yang, H. S., M172, T180, 546
Yang, J., M304, 116
Yang, L., M72, M73
Yang, W., M194, T115, 199
Yang, W. R., M253, T223, T243, T248
Yang, W. Z., M306, M424, T366, T367,
T373, T391, T392, W344, 728, 1139
Yang, Y. X., M52, M53, W79, W80,
W199
Yang, Z. B., M253, M266, T115, T223,
T243, T248, W244, W246
Yanke, L. J., M347
Yao, C., T67
Yaqoob, M., 589, 1050, 1062
Yart, Y., 472
Yates, D. A., 114
Yates, D. T., M289
Yatno, W321
Yazwinski, T.A., 268
Yen, C. Y., M145
Yersin, A. G., M320, T205
Yiannikouris, A., M46
Yildiz-Gulay, O., M283, M244, T62,
T63, T64, T65
Yilmazbas-Mecitoglu, G., 166, 162, 164
Yilmaz-Ersan, L., W77
Yin, J., W225
Yin, P., W20
Yingying, D., M343
Yoho, D. E., 194, 195
Yohoo, D. E., 191
Yokoyama, M., W318
Yoo, J. S., M242, M260, M267, T232,
W210
Yoon, B. H., W56
Yoon, I., W357, W420, 1048
Yoon, K. J., W317
Yoon, S. J., T275, T276, 992, 993
Yosef, E., M382
Yotsuyanagi, K., 794
You, Y. A., T275, T276, 992, 993
Youn, E., W357, 1048
Younas, M., 1062
Young, A., M119
Young, A. J., M191, M196, M422, T372
Young, A. N., M120, M125
Young, B., 82
Young, M. G., 677, 678
Young, T. R., W383
Yousaf, M. S., 994
Yousaf, S., 173
Yu, J., M39, M41, M42, W20, W156
Yu, P., W225, M411, M447, T412,

- W434, 460
 Yu, R., T243
 Yu, T., M39
 Yu, Y., T39
 Yu, Z., M339, T368, 743
 Yuan, C. Y., M142
 Yuan, J., 326
 Yuan, J. M., M136
 Yuan, Z., 682
 Yue, L., 981
 Yue, W., 1085
 Yue, W. F., 826
 Yue, Z., W225
 Yun, Q., T340, 394, 395
 Yunusova, R. D., W398
 Yusrizal, W321
 Ywazaki, M., 759
- Z**
- Zacarchenco, P. B., 794, 952, 954
 Zacaroni, O. F., W421
 Zacho, H. D., T249, T253
 Zachut, M., M282, T365
 Zaghari, M., M249
 Zagmutt, F. J., 55, 278
 Zahmatkesh, D., M33, M35, W430
 Zahraei Salehi, T., 1077
 Zahroojian, N., M261
 Zali, A., M468, M469, T387
 Zamora, V., W271
 Zanabria, R., 947
 Zaneb, H., 173
 Zanella, R., M74, 772
 Zanton, G. I., T426, W436, 48, 565
 Zappitelli, L. A., W251
 Zaragoza-Ramirez, J. L., T129
 Zarate, M. A., 454
 Zarghi, H., W262
 Zaviezo, D., 986
 Zebeli, Q., T391, T392, W1, W2, W3, W4, W5, 1079
 Zeinali, A., M229, M255, T142, W236
 Zeoula, L. M., W435
 Zerby, H. N., 751
 Zerhdaran, S., W402
- Zeringue, L. K., W425
 Zeron, Y., 170
 Zhai, H., M218
 Zhai, W., 360, 362
 Zhang, B. K., 146
 Zhang, C., T388, W199
 Zhang, D. Y., T238, T247, W213, W259
 Zhang, G., T228
 Zhang, G. F., M253
 Zhang, G. G., T115, T223, T243
 Zhang, H., T39
 Zhang, H. M., T87
 Zhang, H. T., W410
 Zhang, J., 1089
 Zhang, J. Y., T374
 Zhang, L., 1131, 1132, 914
 Zhang, L. P., M72, M73
 Zhang, L. Y., M53, W79, W80
 Zhang, N., W20
 Zhang, N. F., T355
 Zhang, Q. Q., T223
 Zhang, Q. S., W264
 Zhang, S., W55
 Zhang, Y. F., 325, 1084
 Zhang, Z., T105
 Zhao, B., 116
 Zhao, D., T88
 Zhao, D. Q., 146
 Zhao, F.-Q., 476, 963
 Zhao, H., T251, W240, W241, W264
 Zhao, H. L., M52
 Zhao, J., W233, 699, 970, T218, W144
 Zhao, J. X., 113, 826
 Zhao, K., W196
 Zhao, L., W153
 Zhao, R., 1039
 Zhao, S., T388, W199
 Zhao, X., M266
 Zhao, Y., 137, 1063
 Zhao, Z., W215
 Zheljzkov, V. D., 40, 481
 Zheng, C. T., 680
 Zhong, R., W55
 Zhou, B., M40, M41
 Zhou, H., M138
- Zhou, J., T100
 Zhou, J. C., W264
 Zhou, L. Y., M53, M143, M439, T90, T374, T388, T440, W78, W79, W80, W199, 871
 Zhou, R., M439
 Zhou, S., T248
 Zhou, S. H., 326
 Zhou, T. X., M243, M269, M270, M271, T220, T232, W220
 Zhou, Y., T231, T340, 394, 395
 Zhou, Z. F., M93, T231
 Zhu, C. L., T191, T226
 Zhu, F., W216
 Zhu, L. N., 1084
 Zhu, M. J., W144, 113, 637, 638, 639, 826, 915, 1085
 Zhu, X.-Y., M39, W20
 Zhuang, H., 328
 Ziaie, H., M229, M255, T142, W236
 Zicker, S., T59, T60
 Ziegler, B., T345, T351, 397
 Ziegler, D., T345, T349, T350, T351, 397
 Ziemer, C., 975
 Zijlstra, R. T., 677, 678, 688
 Zilverburg, C. J., 633
 Zinn, R. A., 3, 51
 Zinn, S. A., T294, W293
 ZoBell, D. R., M372, T372
 Zom, R., 884
 Zoni, M. S., T417
 Zopollatto, M., W122
 Zou, C. X., 219, 803
 Zou, Y., T243
 Zuidhof, M. J., M321, M323, 179, 188, 196
 Zukermann, E., M382
 Zulewska, J., 303
 Zulovich, J., 82
 Zúñiga, C. H., W258, 110
 Zurfluh, A., M58
 Zwald, D., M58
 Zwarycz, B., T41