



## Guidelines for the use and interpretation of assays for monitoring autophagy (4th edition)

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## Guidelines for the use and interpretation of assays for monitoring autophagy (4th edition)<sup>1</sup>

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Girardin<sup>770</sup>, Mridhula Giridharan<sup>771</sup>, Sandy Giuliano<sup>772</sup>, Cecilia Giulivi<sup>773</sup>, Sylvie Giuriato<sup>774</sup>, Julien Giustiniani<sup>160</sup>, Alexander Gluschnko<sup>776</sup>, Veit Goder<sup>777</sup>, Alexander Goginashvili<sup>778</sup>, Jakub Golab<sup>779</sup>, David C. Goldstone<sup>775</sup>, Anna Golebiewska<sup>780</sup>, Luciana R. Gomes<sup>781</sup>, Rodrigo Gomez<sup>782</sup>, Rubén Gómez-Sánchez<sup>783</sup>, Maria Catalina Gomez-Puerto<sup>784</sup>, Raquel Gomez-Sintes<sup>785</sup>, Qingqiu Gong<sup>786</sup>, Felix M. Goni<sup>49</sup>, Javier González-Gallego<sup>787</sup>, Tomas Gonzalez-Hernandez<sup>788</sup>, Rosa A. Gonzalez-Polo<sup>789</sup>, Jose A. Gonzalez-Reyes<sup>790</sup>, Patricia González-Rodríguez<sup>781</sup>, Ing Swie Goping<sup>791</sup>, Marina S. Gorbatyuk<sup>792</sup>, Nikolai V. Gorbunov<sup>793</sup>, Kivanç Görgülü<sup>794</sup>, Roxana M. Gorjod<sup>795</sup>, Sharon M. 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 Dong Hu<sup>900</sup>, Li-Fang Hu<sup>901</sup>, Ming Chang Hu<sup>902</sup>, Ronggui Hu<sup>903</sup>, Wei Hu<sup>904</sup>, Yu-Chen Hu<sup>905</sup>, Zuo-Wei Hu<sup>906</sup>, Fang Hua<sup>907</sup>,  
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 Maria Jimenez-Sanchez<sup>996</sup>, Eun-Jung Jin<sup>997</sup>, Fengyan Jin<sup>998</sup>, Hongchuan Jin<sup>999</sup>, Li Jin<sup>1000</sup>, Luqi Jin<sup>1001</sup>, Meiyang Jin<sup>1002</sup>, Si Jin<sup>1003</sup>,  
 Eun-Kyeong Jo<sup>1004</sup>, Carine Joffre<sup>1005</sup>, Terje Johansen<sup>1006</sup>, Gail V.W. Johnson<sup>1007</sup>, Simon A. Johnston<sup>1008</sup>, Eija Jokitalo<sup>1009</sup>,  
 Mohit Kumar Jolly<sup>1010</sup>, Leo A.B. Joosten<sup>1011</sup>, Joaquin Jordan<sup>1012</sup>, Bertrand Joseph<sup>1013</sup>, Dianwen Ju<sup>1014</sup>, Jeong-Sun Ju<sup>1015</sup>,  
 Jingfang Ju<sup>1016</sup>, Esmeralda Juárez<sup>1017</sup>, Delphine Judith<sup>1018</sup>, Gábor Juhász<sup>1019</sup>, Youngsoo Jun<sup>1020</sup>, Chang Hwa Jung<sup>1021</sup>, Sung-Chul Jung<sup>1022</sup>,  
 Yong Keun Jung<sup>1023</sup>, Heinz Jungbluth<sup>1024</sup>, Johannes Jungverdorben<sup>1025</sup>, Steffen Just<sup>1026</sup>, Kai Kaarniranta<sup>1027</sup>,  
 Allen Kaasik<sup>1028</sup>, Tomohiro Kabuta<sup>1029</sup>, Daniel Kaganovich<sup>1030</sup>, Alon Kahana<sup>1031</sup>, Renate Kain<sup>1032</sup>, Shinjo Kajimura<sup>1033</sup>,  
 Maria Kalamvoki<sup>1034</sup>, Manjula Kalia<sup>1035</sup>, Danuta S. Kalinowski<sup>1036</sup>, Nina Kaludercic<sup>1037</sup>, Ioanna Kalvari<sup>1038</sup>, Joanna Kaminska<sup>1039</sup>,  
 Vitaliy O. Kaminsky<sup>1040</sup>, Hiromitsu Kanamori<sup>1041</sup>, Keizo Kanasaki<sup>1042</sup>, Chanhee Kang<sup>1043</sup>, Rui Kang<sup>1044</sup>, Sang Sun Kang<sup>1045</sup>,  
 Senthilvelrajan Kaniyappan<sup>1046</sup>, Tomotake Kanki<sup>1047</sup>, Thirumala-Devi Kanneganti<sup>1048</sup>, Anumantha G. Kanthasamy<sup>1049</sup>,  
 Arathi Kanthasamy<sup>1050</sup>, Marc Kantorow<sup>1051</sup>, Orsolya Kapuy<sup>1052</sup>, Michalis V. Karamouzis<sup>1053</sup>, Md. Razaul Karim<sup>1054</sup>,  
 Parimal Karmakar<sup>1055</sup>, Rajesh G. Katare<sup>1056</sup>, Masaru Kato<sup>1057</sup>, Stefan H.E. Kaufmann<sup>1058</sup>, Anu Kauppinen<sup>1059</sup>,  
 Gur P. Kaushal<sup>1060</sup>, Susmita Kaushik<sup>1061</sup>, Kiyoshi Kawasaki<sup>1062</sup>, Kemal Kazan<sup>1063</sup>, Po-Yuan Ke<sup>1064</sup>, Damien J. Keating<sup>1065</sup>,  
 Ursula Keber<sup>1066</sup>, John H. Kehrl<sup>1067</sup>, Kate E. Keller<sup>1068</sup>, Christian W. Keller<sup>1069</sup>, Jongsook Kim Kemper<sup>1070</sup>, Candia M. Kenific<sup>1071</sup>,  
 Oliver Kepp<sup>1072</sup>, Stephanie Kermorgant<sup>1073</sup>, Andreas Kern<sup>1074</sup>, Robin Ketteler<sup>1075</sup>, Tom G. Keulers<sup>1076</sup>, Boris Khalpin<sup>1077</sup>,  
 Hany Khalil<sup>1078</sup>, Bilon Khambu<sup>1079</sup>, Shahid Y. Khan<sup>1080</sup>, Vinoth Kumar Megraj Khandelwal<sup>1081</sup>, Rekha Khandia<sup>1082</sup>,  
 Widuri Kho<sup>1083</sup>, Noopur V. Khobrekar<sup>1084</sup>, Sataree Khuansuwan<sup>1085</sup>, Mukhran Khundadze<sup>1086</sup>, Samuel A. Killackey<sup>1087</sup>,  
 Dasol Kim<sup>1088</sup>, Deok Ryong Kim<sup>1089</sup>, Do-Hyung Kim<sup>1090</sup>, Dong-Eun Kim<sup>1091</sup>, Eun Young Kim<sup>1092</sup>, Eun-Kyoung Kim<sup>1093</sup>, Hak-Rim Kim<sup>1094</sup>,  
 Hee-Sik Kim<sup>1095</sup>, Hyung-Ryong Kim<sup>1096</sup>, Jeong Hun Kim<sup>1097</sup>, Jin Kyung Kim<sup>1098</sup>, Jin-Hoi Kim<sup>1099</sup>,  
 Joungmok Kim<sup>1100</sup>, Ju Hwan Kim<sup>1101</sup>, Keun Il Kim<sup>1102</sup>, Peter K. Kim<sup>1103</sup>, Seong-Jun Kim<sup>1104</sup>, Scot R. Kimball<sup>1105</sup>, Adi Kimchi<sup>1106</sup>,  
 Alec C. Kimmelman<sup>1107</sup>, Tomonori Kimura<sup>1108</sup>, Matthew A. King<sup>1109</sup>, Kerri J. Kinghorn<sup>1110</sup>, Conan G. Kinsey<sup>1111</sup>,  
 Vladimir Kirkin<sup>1112</sup>, Lorrie A. Kirshenbaum<sup>1113</sup>, Sergey L. Kiselev<sup>1114</sup>, Shuji Kishi<sup>1115</sup>, Katsuhiko Kitamoto<sup>1116</sup>,  
 Yasushi Kitaoka<sup>1117</sup>, Kaio Kitazato<sup>1118</sup>, Richard N. Kitsis<sup>1119</sup>, Josef T. Kittler<sup>1120</sup>, Ole Kjaerulff<sup>1121</sup>, Peter S. Klein<sup>1122</sup>,  
 Thomas Klopstock<sup>1123</sup>, Jochen Klucken<sup>1124</sup>, Helene Knævelsrød<sup>1125</sup>, Roland L. Knorr<sup>1126</sup>, Ben C.B. Ko<sup>1127</sup>, Fred Ko<sup>1128</sup>,  
 Jiunn-Liang Ko<sup>1129</sup>, Hotaka Kobayashi<sup>1130</sup>, Satoru Kobayashi<sup>1131</sup>, Ina Koch<sup>1132</sup>, Jan C. Koch<sup>1133</sup>, Ulrich Koenig<sup>1134</sup>, Donat Kögel<sup>1135</sup>,  
 Young Ho Koh<sup>1136</sup>, Masato Koike<sup>1137</sup>, Sepp D. Kohlwein<sup>1138</sup>, Nur M. Kocaturk<sup>1139</sup>, Masaaki Komatsu<sup>1140</sup>, Jeannette König<sup>1141</sup>,  
 Toru Kono<sup>1142</sup>, Benjamin T. Kopp<sup>1143</sup>, Tamas Korcsmaros<sup>1144</sup>, Gözde Korkmaz<sup>1145</sup>, Viktor I. Korolchuk<sup>1146</sup>,  
 Mónica Suárez Korsnes<sup>1147</sup>, Ali Koskela<sup>1148</sup>, Janaiah Kota<sup>1149</sup>, Yaichiro Kotake<sup>1150</sup>, Monica L. Kotler<sup>1151</sup>, Yanjun Kou<sup>1152</sup>

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Laurie <sup>1163</sup>, Sergio Lavandero <sup>430</sup>, Betty Yuen Kwan Law <sup>1164</sup>, Helen Ka-wai Law <sup>1165</sup>, Rob Layfield <sup>1166</sup>, Weidong Le <sup>1167</sup>, Herve Le Stunff <sup>250</sup>, Alexandre Y. Leary <sup>1167</sup>, Jean-Jacques Lebrun <sup>961</sup>, Lionel Y.W. Leck <sup>419</sup>, Jean-Philippe Leduc-Gaudet <sup>1168</sup>, Changwook Lee <sup>1169</sup>, Chung-Pei Lee <sup>1170</sup>, Da-Hye Lee <sup>1061</sup>, Edward B. Lee <sup>1174</sup>, Erinna F. Lee <sup>1175</sup>, Gyun Min Lee <sup>1176</sup>, He-Jin Lee <sup>1177</sup>, Heung Kyu Lee <sup>1173</sup>, Jae Man Lee <sup>1062</sup>, Jason S. Lee <sup>1181</sup>, Jin-A Lee <sup>1175</sup>, Joo-Yong Lee <sup>1182</sup>, Jun Hee Lee <sup>1183</sup>, Michael Lee <sup>1184</sup>, Min Goo Lee <sup>1179</sup>, Min Jae Lee <sup>1180</sup>, Myung-Shik Lee <sup>1186</sup>, Sang Yoon Lee <sup>1187</sup>, Seung-Jae Lee <sup>1188</sup>, Stella Y. 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Y. Lie <sup>1230</sup>, Mary A. Lilly <sup>1231</sup>, Hyunjung J. Lim <sup>1232</sup>, Thania R.R. Lima <sup>1233</sup>, Federica Limana <sup>1234</sup>, Chao Lin <sup>1235</sup>, Chih-Wen Lin <sup>1236</sup>, Dar-Shong Lin <sup>1237</sup>, Fu-Cheng Lin <sup>1238</sup>, Jiandie D. Lin <sup>1239</sup>, Kurt M. Lin <sup>1240</sup>, Kwang-Huei Lin <sup>1241</sup>, Liang-Tzung Lin <sup>964</sup>, Pei-Hui Lin <sup>1242</sup>, Qiong Lin <sup>1243</sup>, Shaofeng Lin <sup>1244</sup>, Su-Ju Lin <sup>1245</sup>, Wenyu Lin <sup>1246</sup>, Xueying Lin <sup>1247</sup>, Yee-Shin Lin <sup>370</sup>, Rafaela Linden <sup>1248</sup>, Paula Lindner <sup>642</sup>, Shuo-Chien Ling <sup>882</sup>, Paul Lingor <sup>1251</sup>, Amelia K. Linnemann <sup>1255</sup>, Yih-Cherng Liou <sup>1251</sup>, Marta M. Lipinski <sup>1252</sup>, Saška Lipovšek <sup>1192</sup>, Vitor A. Lira <sup>1253</sup>, Natalia Lisiak <sup>1254</sup>, Paloma B. Liton <sup>1255</sup>, Chao Liu <sup>1257</sup>, Ching-Hsuan Liu <sup>1256</sup>, Chun-Feng Liu <sup>1257</sup>, Cui Hua Liu <sup>1258</sup>, Fang Liu <sup>1259</sup>, Hao Liu <sup>1260</sup>, Hsiao-Sheng Liu <sup>370</sup>, Hua-feng Liu <sup>1261</sup>, Huifang Liu <sup>881</sup>, Jia Liu <sup>1261</sup>, Jing Liu <sup>1262</sup>, Julia Liu <sup>964</sup>, Leyuan Liu <sup>1263</sup>, Longhua Liu <sup>1264</sup>, Meilian Liu <sup>1265</sup>, Qin Liu <sup>1266</sup>, Wei Liu <sup>1267</sup>, Wende Liu <sup>1219</sup>, Xiao-Hong Liu <sup>1268</sup>, Xiaodong Liu <sup>368</sup>, Xingguo Liu <sup>1269</sup>, Xu Liu <sup>1270</sup>, Xuedong Liu <sup>1271</sup>, Yanfen Liu <sup>1272</sup>, Yang Liu <sup>1273</sup>, Yang Liu <sup>1274</sup>, Yueyang Liu <sup>1275</sup>, Yule Liu <sup>1276</sup>, J. Andrew Livingston <sup>4</sup>, Gerard Lizard <sup>1280</sup>, Jose M. Lizcano <sup>1281</sup>, Senka Ljubojevic-Holzer <sup>1283</sup>, Matilde E. 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Minina<sup>1423</sup>, Hamed Mirzaei<sup>845</sup>, Hamid Reza Mirzaei<sup>745</sup>, Mehdi Mirzaei<sup>823</sup>, Amit Mishra<sup>1434, 1435</sup>, Nandita Mishra<sup>350</sup>, Paras Kumar Mishra<sup>1433</sup>, Maja Misirkic Marjanovic<sup>1437</sup>, Roberta Misasi<sup>1439</sup>, Amit Misra<sup>1440</sup>, Gabriella Misso<sup>1441</sup>, Claire Mitchell<sup>1441</sup>, Geraldine Mitou<sup>1436</sup>, Tetsuji Miura<sup>1447</sup>, Shigeki Miyamoto<sup>1438</sup>, Makoto Miyazaki<sup>1443</sup>, Mitsunori Miyazaki<sup>1444</sup>, Taiga Miyazaki<sup>1108</sup>, Keisuke Miyazawa<sup>1445</sup>, Noboru Mizushima<sup>1446</sup>, Trine H. Mogensen<sup>361</sup>, Baharia Mograbi<sup>1447</sup>, Reza Mohammadinejad<sup>1449</sup>, Yasir Mohamud<sup>1304</sup>, Abhishek Mohanty<sup>1446</sup>, Sipra Mohapatra<sup>361</sup>, Torsten Möhlmann<sup>1448</sup>, Asif Mohammed<sup>1448</sup>, Anna Moles<sup>1450</sup>, Kelle H. Moley<sup>1455</sup>, Maurizio Molinari<sup>1456</sup>, Vincenzo Mollace<sup>1457</sup>, Andreas Buch Møller<sup>1458</sup>, Bertrand Mollereau<sup>49</sup>, Faustino Mollinedo<sup>1460</sup>, Costanza Montagna<sup>1461</sup>, Mervyn J. Monteiro<sup>1462</sup>, Andrea Montella<sup>1463</sup>, L. Ruth Montes<sup>1462</sup>, Barbara Montico<sup>1466</sup>, Vinod K. Mony<sup>1463</sup>, Giacomo Monzio Compagnoni<sup>1465</sup>, Michael N. Moore<sup>1465</sup>, Mohammad A. Moosavi<sup>1466</sup>, Ana L. Mora<sup>1464</sup>, Marina Mora<sup>457, 1459</sup>, David Morales-Alamo<sup>296, 1365</sup>, Rosario Moratalla<sup>742</sup>, Paula I. Moreira<sup>1471</sup>, Elena Morelli<sup>1467</sup>, Sandra Moreno<sup>1472</sup>, Daniel Moreno-Blas<sup>1468</sup>, Viviana Moresi<sup>1469</sup>, Benjamin Morga<sup>1470</sup>, Alwena H. Morgan<sup>1471</sup>, Fabrice Morin<sup>1472</sup>, Hideaki Morishita<sup>1473</sup>, Orson L. Moritz<sup>1474</sup>, Mariko Moriyama<sup>1475</sup>, Yuji Moriyasu<sup>1476</sup>, Manuela Morleo<sup>58</sup>, Eugenia Morselli<sup>1477</sup>, Jose F. Moruno-Manchon<sup>1993</sup>, Jorge Moscat<sup>1479</sup>, Serge Mostowy<sup>1283</sup>, Elisa Motori<sup>1480</sup>, Andrea Felinto Moura<sup>1481</sup>, Naima Moustaid-Moussa<sup>1482</sup>, Maria Mrakovic<sup>1483</sup>, Gabriel Muciño-Hernández<sup>342</sup>, Anupam Mukherjee<sup>1484</sup>, Subhadip Mukhopadhyay<sup>1485</sup>, Jean M. Mulcahy Levy<sup>1486</sup>, Victoriano Mulero<sup>289</sup>, Sylviane Muller<sup>1487</sup>, Christian Münch<sup>581</sup>, Ashok Munjal<sup>1056</sup>, Pura Munoz-Canoves<sup>1488</sup>, Teresa Muñoz-Galdeano<sup>1489</sup>, Christian Münz<sup>1490</sup>, Tomokazu Murakawa<sup>1491</sup>, Claudia Muratori<sup>1492</sup>, Briona M. Murphy<sup>1493</sup>, J. Patrick Murphy<sup>1494</sup>, Aditya Murthy<sup>1495</sup>, Timo T. Myöhänen<sup>1496</sup>, Indira U. Mysorekar<sup>1497</sup>, Jennifer Mytych<sup>1497</sup>, Seyed Mohammad Nabavi<sup>1499</sup>, Massimo Nabissi<sup>1356</sup>, Péter Nagy<sup>1500</sup>, Jihoon Nah<sup>1501</sup>, Aimable Nahimana<sup>1502</sup>, Ichiro Nakagawa<sup>1503</sup>, Ken Nakamura<sup>1504</sup>, Hitoshi Nakatogawa<sup>1505</sup>, Shyam S. Nandi<sup>1433</sup>, Meera Nanjundan<sup>1506</sup>, Monica Nanni<sup>58, 134</sup>, Gennaro Napolitano<sup>1511</sup>, Roberta Nardacci<sup>573</sup>, Masashi Narita<sup>1509</sup>, Melissa Nassif<sup>1513</sup>, Ilana Nathan<sup>1510</sup>, Manabu Natsumeda<sup>1511</sup>, Ryno J. Naude<sup>1512</sup>, Christin Naumann<sup>6</sup>, Olaia Naveiras<sup>1513</sup>, Fatemeh Navid<sup>1513</sup>, Steffan T. Nawrocki<sup>1514</sup>, Taras Y. Nazarko<sup>1515</sup>, Francesca Nazio<sup>447</sup>, Florentina Negoita<sup>959, 1693</sup>, Thomas Neill<sup>276</sup>, Amanda L. Neisch<sup>1517</sup>, Luca M. Neri<sup>856</sup>, Mihai G. Netea<sup>1478</sup>, Patrick Neubert<sup>962</sup>, Thomas P. Neufeld<sup>856</sup>, Dietbert Neumann<sup>1517</sup>, Albert Neutzner<sup>1518</sup>, Phillip T. Newton<sup>513</sup>, Paul A. Ney<sup>1519</sup>, Ioannis P. Nezis<sup>955</sup>, Charlene C.W. Ng<sup>1520</sup>, Tzi Bun Ng<sup>367</sup>, Hang T. T. Nguyen<sup>1525</sup>, Long T. Nguyen<sup>1521</sup>, Hong-Min Ni<sup>1522</sup>, Clíona Ní Cheallaigh<sup>1523</sup>, Zhenhong Ni<sup>1524</sup>, M. Celeste Nicolao<sup>493</sup>, Francesco Nicoli<sup>1525</sup>, Manuel Nieto-Diaz<sup>1526</sup>, Per Nilsson<sup>975</sup>, Shunbin Ning<sup>1527</sup>, Rituraj Niranjan<sup>1528</sup>, Hiroshi Nishimune<sup>1529</sup>, Mireia Niso-Santano<sup>708</sup>, Ralph A. Nixon<sup>1530</sup>, Annalisa Nobili<sup>498</sup>, Clevio Nobrega<sup>1532</sup>, Takeshi Noda<sup>78</sup>, Uxía Nogueira-Recalde<sup>316</sup>, Trevor M. Nolan<sup>1533</sup>, Ivan Nombela<sup>656</sup>, Ivana Novak<sup>1534</sup>, Beatriz Novoa<sup>683</sup>, Takashi Nozawa<sup>1503</sup>, Nobuyuki Nukina<sup>1535</sup>, Carmen Nussbaum-Krammer<sup>1536</sup>, Jesper Nylandsted<sup>1537</sup>, Tracey R. O'Donovan<sup>1393</sup>, Seónadh M. O'Leary<sup>1541</sup>, Eyleen J. O'Rourke<sup>1542</sup>, Mary P. O'Sullivan<sup>1461</sup>, Timothy E. O'Sullivan<sup>1539</sup>, Salvatore Oddo<sup>1540</sup>, Ina Oehme<sup>1541</sup>, Michinaga Ogawa<sup>1542</sup>, Eric Ogier-Denis<sup>1543</sup>, Margret H. Ogmundsdottir<sup>1544</sup>, Besim Ogetmen<sup>1545</sup>, Goo Taeg Oh<sup>1546</sup>, Seon-Hee Oh<sup>1547</sup>, Young J. Oh<sup>1547</sup>, Takashi Ohama<sup>1548</sup>, Yohei Ohashi<sup>1379</sup>, Masaki Ohmura<sup>1550</sup>, Vasileios Oikonomou<sup>1551</sup>, Rani Ojha<sup>1552</sup>, Koji Okamoto<sup>1553</sup>, Hitoshi Okazawa<sup>1554</sup>, Masahide Oku<sup>1555</sup>, Sara Oliván<sup>300</sup>, Jorge M. A. Oliveira<sup>1556</sup>, Michael Ollmann<sup>1557</sup>, James A. Olzmann<sup>1558</sup>, Shakib Omari<sup>1191</sup>, M. Bishr Omary<sup>1559</sup>, Gizem Önal<sup>597</sup>, Martin Ondrej<sup>1560</sup>, Sang-Bing Ong<sup>1561</sup>, Sang-Ging Ong<sup>1562</sup>, Anna Onnis<sup>131</sup>, Juan A. Orellana<sup>1563</sup>, Sara Orellana-Muñoz<sup>427, 428</sup>, Maria Del Mar Ortega-Villaizan<sup>1565</sup>, Xilma R. Ortiz-Gonzalez<sup>1564</sup>, Elena Ortona<sup>1339</sup>, Heinz D. Osiewacz<sup>839</sup>, Abdel-Hamid K. Osman<sup>1566</sup>, Rosario Osta<sup>1567</sup>, Marisa S. Otegui<sup>1567</sup>, Kinya Otsu<sup>1491</sup>, Christiane Ott<sup>1568</sup>, Luisa Ottobrini<sup>1569</sup>, Jing-hsiung James Ou<sup>487</sup>, Tiago F. Outeiro<sup>1570</sup>, Inger Oynebraten<sup>1571</sup>, Melek Ozturk<sup>1572</sup>, Gilles Pagès<sup>768</sup>, Susanta Pahari<sup>1574</sup>, Marta Pajares<sup>1575</sup>, Utpal B. Pajvani<sup>1576</sup>, Rituraj Pal<sup>1577</sup>, Simona Paladino<sup>1578</sup>, Nicolas Pallet<sup>1582</sup>, Michela Palmieri<sup>1578</sup>, Giuseppe Palmisano<sup>1579</sup>, Camilla Palumbo<sup>1580</sup>, Francesco Pampaloni<sup>1581</sup>, Lifeng Pan<sup>1582</sup>, Qingjun Pan<sup>1583</sup>, Wenliang Pan<sup>1584</sup>, Xin Pan<sup>1585</sup>, Ganna Panasyuk<sup>455</sup>, Rahul Pandey<sup>1587</sup>, Udai B. Pandey<sup>1588</sup>, Vrajesh Pandya<sup>1589</sup>, Francesco Paneni<sup>480</sup>, Shirley Y. Pang<sup>881</sup>, Elisa Panzarini<sup>1590</sup>, Daniela L. Papademetrio<sup>734</sup>, Elena Papaleo<sup>1591</sup>, Daniel Papinski<sup>1592</sup>, Diana Papp<sup>1593</sup>, Eun Chan Park<sup>1594</sup>, Hwan Tae Park<sup>1595</sup>, Ji-Man Park<sup>1595</sup>, Jong-In Park<sup>1596</sup>, Joon Tae Park<sup>1597</sup>, Junsoo Park<sup>1598</sup>, Sang Chul Park<sup>1599</sup>, Sang Youel Park<sup>1600</sup>, Abraham H. Parola<sup>1601</sup>,

Jan B. Parys<sup>1602</sup>, Adrien Pasquier<sup>58</sup>, Benoit Pasquier<sup>1603</sup>, João F. Passos<sup>1604</sup>, Nunzia Pastore<sup>1604</sup>, Hemal H. Patel<sup>1605</sup>, Daniel Patschan<sup>1606</sup>, Sophie Pattingre<sup>1607</sup>, Gustavo Pedraza-Alva<sup>1608</sup>, Jose Pedraza-Chaverri<sup>1608</sup>, Zully Pedrozo<sup>259</sup>, Gang Pei<sup>1610</sup>, Jianming Pei<sup>1611</sup>, Hadas Peled-Zehavi<sup>104</sup>, Joaquín M. Pellegrini<sup>735</sup>, Joffrey Pelletier<sup>46</sup>, Miguel A. Peñalva<sup>1613</sup>, Di Peng<sup>1244</sup>, Ying Peng<sup>1614</sup>, Fabio Penna<sup>1615</sup>, Maria Pennuto<sup>1615</sup>, Francesca Pentimalli<sup>1616</sup>, Cláudia MF Pereira<sup>58, 133, 134</sup>, Gustavo J. S. Pereira<sup>1617</sup>, Lilian C. Pereira<sup>1619</sup>, Luis Pereira de Almeida<sup>344</sup>, Nirma D. Perera<sup>1620</sup>, Ángel Pérez-Lara<sup>1621</sup>, Ana B. 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Reiling<sup>1700</sup>, Theo Rein<sup>1701</sup>, Siegfried Reipert<sup>1702</sup>, Rokeya Sultana Rekha<sup>1697</sup>, Hongmei Ren<sup>1703</sup>, Jun Ren<sup>1703</sup>, Weichao Ren<sup>1703</sup>, Tristan Renault<sup>2312</sup>, Giorgia Renga<sup>1704</sup>, Karen Reue<sup>1704</sup>, Kim Rewitz<sup>190</sup>, Bruna Ribeiro de Andrade Ramos<sup>41</sup>, S. Amer Riazuddin<sup>35</sup>, Teresa M. Ribeiro-Rodrigues<sup>1705</sup>, Jean-Ehrland Ricci<sup>1351</sup>, Romeo Ricci<sup>1704</sup>, Victoria Riccio<sup>553</sup>, Des R. Richardson<sup>1708</sup>, Yasuko Rikihsa<sup>1709</sup>, Makarand V. Risbud<sup>1706</sup>, Ruth M. Risueño<sup>1707</sup>, Konstantinos Ritis<sup>1149</sup>, Salvatore Rizza<sup>1710</sup>, Rosario Rizzato<sup>20</sup>, Helen C. Roberts<sup>1711</sup>, Luke D. Roberts<sup>1713</sup>, Katherine J. Robinson<sup>1715</sup>, Maria Carmela Roccheri<sup>1715</sup>, Stephane Rocchi<sup>1716</sup>, George G. Rodney<sup>1716</sup>, Tiago Rodrigues<sup>1714</sup>, Vagner Ramon Rodrigues Silva<sup>577</sup>, Amaia Rodriguez<sup>707</sup>, Ruth Rodriguez-Barrueco<sup>1710</sup>, Nieves Rodriguez-Henche<sup>1711</sup>, Humberto Rodriguez-Rocha<sup>738</sup>, Jeroen Roelofs<sup>1184</sup>, Robert S. Rogers<sup>1717</sup>, Vladimir V. Rogov<sup>1718</sup>, Ana I. Rojo<sup>487</sup>, Krzysztof Rolka<sup>1719</sup>, Vanina Romanello<sup>1615</sup>, Luigina Romani<sup>1345</sup>, Alessandra Romano<sup>1720</sup>, Patricia S. Romano<sup>1721</sup>, David Romeo-Guitart<sup>1722</sup>, Luis C. Romero<sup>790</sup>, Montserrat Romero<sup>947</sup>, Joseph C. Roney<sup>412</sup>, Christopher Rongo<sup>1594</sup>, Sante Roperto<sup>1723</sup>, Mathias T. Rosenfeldt<sup>1051</sup>, Philip Rosenstiel<sup>1724</sup>, Anne G. Rosenwald<sup>1725</sup>, Kevin A. Roth<sup>1726</sup>, Lynn Roth<sup>1727</sup>, Steven Roth<sup>1728</sup>, Kasper M.A. Rouschop<sup>1732</sup>, Benoit D. Roussel<sup>1733</sup>, Sophie Roux<sup>1730</sup>, Patrizia Rovere-Querini<sup>1734</sup>, Ajit Roy<sup>1735</sup>, Aurore Rozieres<sup>665</sup>, Diego Ruano<sup>1732</sup>, David C. Rubinsztein<sup>1736</sup>, Maria P. Rubtsova<sup>1738</sup>, Klaus Ruckdeschel<sup>1739</sup>, Christoph Ruckenstuhl<sup>123</sup>, Emil Rudolf<sup>1736</sup>, Rüdiger Rudolf<sup>1737</sup>, Alessandra Ruggieri<sup>1738</sup>, Avnika Ashok Ruparelia<sup>1740</sup>, Paola Rusmini<sup>485</sup>, Ryan R. Russell<sup>1740</sup>, Gian Luigi Russo<sup>1742</sup>, Maria Russo<sup>1741</sup>, Rossella Russo<sup>1743</sup>, Oxana O. Ryabaya<sup>1744</sup>, Kevin M. Ryan<sup>1745</sup>, Kwon-Yul Ryu<sup>1746</sup>, Maria Sabater-Arcis<sup>94</sup>, Ulka Sachdev<sup>1747</sup>, Michael Sacher<sup>1748</sup>, Carsten Sachse<sup>1749</sup>, Abhishek Sadhu<sup>1750</sup>, Junichi Sadoshima<sup>1751</sup>, Nathaniel Safren<sup>147</sup>, Paul Saftig<sup>514</sup>, Antonia P. 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Santana<sup>615, 2315</sup>, Giorgio Santoni<sup>1771</sup>, Alberto Sanz<sup>1772</sup>, Pascual Sanz<sup>1773</sup>, Shweta Saran<sup>1774</sup>, Marco Sardiello<sup>1575</sup>, Timothy J. Sargeant<sup>189</sup>, Apurva Sarin<sup>1775</sup>, Chinmoy Sarkar<sup>1776</sup>, Sovan Sarkar<sup>1777</sup>, Maria-Rosa Sarrias<sup>1778</sup>, Surajit Sarkar<sup>1779</sup>, Dipanka Tanu Sarmah<sup>376</sup>, Jaakko Sarparanta<sup>1780</sup>, Aishwarya Sathyanarayanan<sup>1784</sup>, Ranganayaki Sathyanarayanan<sup>1785</sup>, K. Matthew Scaglione<sup>1783</sup>, Francesca Scatozza<sup>499</sup>, Liliana Schaefer<sup>1788</sup>, Zachary T. Schafer<sup>1789</sup>, Ulrich E. Schaible<sup>348</sup>, Anthony H.V. Schapira<sup>1786</sup>, Michael Scharl<sup>1787</sup>, Hermann M. Schatzl<sup>1792</sup>, Catherine H. Schein<sup>1793</sup>, Wiep Schepers<sup>1794</sup>, David Scheuring<sup>1795</sup>, Maria Vittoria Schiaffino<sup>1792</sup>, Monica Schiappacassi<sup>1793</sup>, Rainer Schindl<sup>1794</sup>, Uwe Schlattner<sup>1795</sup>, Oliver Schmidt<sup>1796</sup>, Roland Schmitt<sup>1797</sup>, Stephen D. Schmidt<sup>1798</sup>, Ingo Schmitz<sup>1799</sup>, Eran Schmukler<sup>1800</sup>, Anja Schneider<sup>1800</sup>, Bianca E. Schneider<sup>1801</sup>, Romana Schober<sup>1802</sup>, Alejandra C. Schoijet<sup>1803, 1804</sup>, Micah B. Schott<sup>1805</sup>, Michael Schramm<sup>771</sup>, Bernd Schröder<sup>1806</sup>, Kai Schuh<sup>1807</sup>, Christoph Schüller<sup>1808</sup>, Ryan J. Schulze<sup>1809</sup>, Lea Schürmanns<sup>839</sup>, Jens C. Schwamborn<sup>1810</sup>, Melanie Schwarten<sup>1811</sup>, Filippo Scialo<sup>1812</sup>, Sebastiano Sciarretta<sup>1813</sup>, Melanie J. Scott<sup>659</sup>, Kathleen W. Scotto<sup>1814</sup>, A. 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Joshua T. Selsby<sup>1826</sup>, Michael Sendtner<sup>1303</sup>, Serif Senturk<sup>1827</sup>, Elena Seranova<sup>1777</sup>, Consolato Sergi<sup>1828</sup>, Ruth Serra-Moreno<sup>1829</sup>, Hiromi Sesaki<sup>1830</sup>, Carmine Settembre<sup>58, 134</sup>, Subba Rao Gangi Setty<sup>1831</sup>, Gianluca Sgarbi<sup>144</sup>, Ou Sha<sup>1832</sup>, John J. Shacka<sup>1833</sup>, Javeed A. Shah<sup>1834</sup>, Dantong Shang<sup>407</sup>, Changshun Shao<sup>1835</sup>, Feng Shao<sup>612</sup>, Soroush Sharbati<sup>1836</sup>, Lisa M. 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Shukla<sup>1864</sup>, Timothy E. Shutt<sup>1865</sup>, Valentina Sica<sup>1866</sup>, Aleem Siddiqui<sup>1867</sup>, Amanda Sierra<sup>1868</sup>, Virginia Sierra-Torre<sup>27</sup>, Santiago Signorelli<sup>1869</sup>, Payel Sil<sup>1648</sup>, Bruno J. de Andrade Silva<sup>836</sup>, Johnatas D. Silva<sup>1121</sup>, Eduardo Silva-Pavez<sup>202</sup>, Sandrine Silvente-Poirot<sup>1868</sup>, Rachel E. Simmonds<sup>1869</sup>, Anna Katharina Simon<sup>1870</sup>, Hans-Uwe Simon<sup>1871</sup>, Matias Simons<sup>1872</sup>, Anurag Singh<sup>1873</sup>, Lalit P. Singh<sup>1874</sup>, Rajat Singh<sup>85</sup>, Shivendra V. Singh<sup>1875</sup>, Shrawan K. Singh<sup>1876</sup>, Sudha B. Singh<sup>1877</sup>, Sunaina Singh<sup>153</sup>, Surinder Pal Singh<sup>1878</sup>, Debasish Sinha<sup>1879</sup>, Rohit Anthony Sinha<sup>1880</sup>, Sangita Sinha<sup>1881</sup>, Agnieszka Sirk<sup>1882</sup>, Kapil Sirohi<sup>1883</sup>, Efthimios L. Sivridis<sup>760</sup>, Panagiotis Skendros<sup>1884</sup>, Aleksandra Skirycz<sup>1885</sup>, Iva Slaninová<sup>1886</sup>, Soraya S. Smaili<sup>1887</sup>, Andrei Smertenko<sup>1888</sup>, Matthew D. Smith<sup>1889</sup>, Stefaan J. Soenen<sup>1889</sup>, Eun Jung Sohn<sup>1890</sup>, Sophia P. M. Sok<sup>1891</sup>, Giancarlo Solaini<sup>1892</sup>, Thierry Soldati<sup>318</sup>, Scott A. Soleimanpour<sup>1893</sup>, Rosa M. Soler<sup>733</sup>, Alexei Solovchenko<sup>1894</sup>, Jason A. Somarelli<sup>392</sup>, Avinash Sonawane<sup>1895</sup>, Fuyong Song<sup>1896</sup>, Hyun Kyu Song<sup>1897</sup>, Ju-Xian Song<sup>1898</sup>, Kunhua Song<sup>1899</sup>, Zhiyin Song<sup>1900</sup>, Leandro R. Soria<sup>58</sup>, Maurizio Sorice<sup>745</sup>, Alexander A. Soukas<sup>1892</sup>, Sandra-Fausia Soukup<sup>1893</sup>, Diana Sousa<sup>1894</sup>, Nadia Sousa<sup>1691</sup>, Paul A. Spagnuolo<sup>1895</sup>, Stephen A. Spector<sup>1671</sup>, M. M. Srinivas Bharath<sup>1896</sup>, Daret St. Clair<sup>1897</sup>, Venturina Stagni<sup>1898</sup>, Leopoldo Staiano<sup>58</sup>, Clint A. Stalnecker<sup>558</sup>, Metodi V. Stankov<sup>1901</sup>, Peter B. Stathopoulos<sup>1902</sup>, Katja Stefan<sup>1903</sup>, Sven Marcel Stefan<sup>1904</sup>, Leonidas Stefanis<sup>1905</sup>, Joan S. Steffan<sup>1906</sup>, Alexander Steinkasserer<sup>1907</sup>, Harald Stenmark<sup>1908</sup>, Jared Sterneckert<sup>1909</sup>, Craig Stevens<sup>1910</sup>, Veronika Stoka<sup>1911</sup>, Stephan Storch<sup>1912</sup>, Björn Stork<sup>1913</sup>, Flavie Strappazzon<sup>1914</sup>, Anne Marie Strohecker<sup>1915</sup>, Dwayne G. Stupack<sup>1916</sup>, Huanxing Su<sup>1917</sup>, Ling-Yan Su<sup>1918</sup>, Longxiang Su<sup>1919</sup>, Ana M. Suarez-Fontes<sup>1920</sup>, Carlos S. Subauste<sup>1921</sup>, Selvakumar Subbian<sup>1922</sup>, Paula V. Subirada<sup>1923</sup>, Ganapasam Sudhandiran<sup>1924</sup>, Carolyn M. Sue<sup>1925</sup>, Xinbing Sui<sup>1926</sup>, Corey Summers<sup>1927</sup>, Guangchao Sun<sup>1928</sup>, Jun Sun<sup>1929</sup>, Kang Sun<sup>1930</sup>, Meng-xiang Sun<sup>1931</sup>, Qiming Sun<sup>1932</sup>, Yi Sun<sup>1933</sup>, Zhongjie Sun<sup>1934</sup>, Karen K.S. Sunahara<sup>1935</sup>, Eva Sundberg<sup>1936</sup>, Katalin Susztak<sup>1937</sup>, Peter Sutovsky<sup>1938</sup>, Hidekazu Suzuki<sup>1939</sup>, Gary Sweeney<sup>1940</sup>, J. David Symons<sup>1941</sup>, Stephen Cho Wing Sze<sup>1942</sup>, Nathaniel J. Szewczyk<sup>1943</sup>, Anna Tabęcka-Łonczynska<sup>1944</sup>, Claudio Tabolacci<sup>1945</sup>, Frank Tacke<sup>1946</sup>, Heinrich Taegtmeyer<sup>1947</sup>, Marco Tafani<sup>1948</sup>, Mitsuo Tagaya<sup>1949</sup>, Haoran Tai<sup>1950</sup>, Stephen W. G. Tait<sup>1951</sup>, Yoshinori Takahashi<sup>1952</sup>, Szabolcs Takats<sup>1953</sup>, Priti Talwar<sup>1954</sup>, Chit Tam<sup>1955</sup>, Shing Yau Tam<sup>1956</sup>, Davide Tampellini<sup>1957</sup>, Atsushi Tamura<sup>1958</sup>, Chong Teik Tan<sup>1959</sup>, Eng-King Tan<sup>1960</sup>, Ya-Qin Tan<sup>1961</sup>, Masaki Tanaka<sup>1962</sup>, Motomasa Tanaka<sup>1963</sup>, Daolin Tang<sup>1964</sup>, Jingfeng Tang<sup>1965</sup>, Tie-Shan Tang<sup>1966</sup>, Isei Tanida<sup>1967</sup>, Zhipeng Tao<sup>1968</sup>, Mohammed Taouis<sup>1969</sup>, Lars Tatenhorst<sup>1970</sup>, Nektarios Tavernarakis<sup>1971</sup>, Allen Taylor<sup>1972</sup>, Gregory A. Taylor<sup>1973</sup>, Joan M. Taylor<sup>1974</sup>, Elena Tchetina<sup>1975</sup>, Andrew R. Tee<sup>1976</sup>, Irmgard Tegeder<sup>1977</sup>, David Teis<sup>1978</sup>, Natercia Teixeira<sup>1979</sup>, Fatima Teixeira-Clerc<sup>1980</sup>, Kumsal A. Tekirdag<sup>1981</sup>, Tewin Tencomnao<sup>1982</sup>, Sandra Tenreiro<sup>1983</sup>, Alexei V. Tepikin<sup>1984</sup>, Pilar S. Testillano<sup>1985</sup>, Gianluca Tettamanti<sup>1986</sup>, Pierre-Louis Tharaux<sup>1987</sup>, Kathrin Thedieck<sup>1988</sup>, Arvind A. Thekkinghat<sup>1989</sup>, Stefano Thellung<sup>1990</sup>, Josephine W. Thinwa<sup>1991</sup>, V. P. Thirumalaikumar<sup>1992</sup>, Sufi Mary Thomas<sup>1993</sup>, Paul G. Thomas<sup>1994</sup>, Andrew Thorburn<sup>1995</sup>, Lipi Thukral<sup>1996</sup>, Thomas Thum<sup>1997</sup>, Michael Thumm<sup>1998</sup>, Ling Tian<sup>1999</sup>, Ales Tichy<sup>2000</sup>, Andreas Till<sup>2001</sup>, Vincent Timmerman<sup>2002</sup>, Vladimir I. Titorenko<sup>2003</sup>, Sokol V. Tod<sup>2004</sup>, Krassimira Todorova<sup>2005</sup>, Janne M. Toivonen<sup>2006</sup>, Luana Tomaipitina<sup>2007</sup>, Dhanendra Tomar<sup>2008</sup>, Cristina Tomas-Zapico<sup>2009</sup>, Sergej Tomic<sup>2010</sup>, Benjamin Chun-Kit Tong<sup>2011</sup>, Chao Tong<sup>2012</sup>, Xin Tong<sup>2013</sup>, Sharon A. Tooze<sup>2014</sup>, Maria L. Torgersen<sup>2015</sup>, Satoru Torii<sup>2016</sup>, Liliana Torres-López<sup>2017</sup>, Alicia Torriglia<sup>2018</sup>, Christina G. Towers<sup>2019</sup>, Roberto Towns<sup>2020</sup>, Shinya Toyokuni<sup>2021</sup>, Vladimir Trajkovic<sup>2022</sup>, Donatella Tramontano<sup>2023</sup>, Quynh-Giao Tran<sup>2024</sup>, Leonardo H. Travassos<sup>2025</sup>, Charles B. Treford<sup>2026</sup>, Shirley Tremel<sup>2027</sup>, Ioannis P. Trougakos<sup>2028</sup>, Betty P. Tsao<sup>2029</sup>, Mario P. Tschan<sup>2030</sup>, Hung-Fat Tse<sup>2031</sup>, Tak Fu Tse<sup>2032</sup>, Hitoshi Tsugawa<sup>2033</sup>, Andrey S. Tsvetkov<sup>2034</sup>, David A. Tumbarello<sup>2035</sup>, Yasin Tumtas<sup>2036</sup>, María J. Tuñón<sup>2037</sup>, Sandra Turcotte<sup>2038</sup>, Boris Turk<sup>2039</sup>, Vito Turk<sup>2040</sup>, Bradley J. Turner<sup>2041</sup>, Richard I. Tuxworth<sup>2042</sup>, Jessica K. Tyler<sup>2043</sup>, Elena V. Tyutereva<sup>2044</sup>, Yasuo Uchiyama<sup>2045</sup>, Aslihan Ugun-Klusek<sup>2046</sup>, Holm H. Uhlig<sup>2047</sup>, Marzena Ułamek-Kozioł<sup>2048</sup>, Ilya V. Ulasov<sup>2049</sup>, Midori Umekawa<sup>2050</sup>, Christian Ungermann<sup>2051</sup>, Rei Unno<sup>2052</sup>, Sylvie Urbe<sup>452, 492</sup>, Elisabet Uribe-Carretero<sup>708</sup>, Suayib Üstün<sup>2056</sup>, Vladimir N. Uversky<sup>516</sup>, Thomas Vaccari<sup>2057</sup>, Maria I. Vaccaro<sup>2058</sup>, Björn F. Vahsen<sup>2059</sup>, Helin Vakifahmetoglu-Norberg<sup>2060</sup>, Rut Valdor<sup>2061</sup>, Maria J. Valente<sup>2062</sup>, Ayelén Valko<sup>2063</sup>, Richard B. Vallee<sup>1058</sup>, Angela M. 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 Clarissa Von Haefen<sup>1057</sup>, Marc A. Vooijs<sup>1051</sup>, Wolfgang Voos<sup>2045</sup>, Ljubica Vucicevic<sup>2046</sup>, Richard Wade-Martins<sup>2047</sup>,  
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 Guansong Wang<sup>2062</sup>, Han Wang<sup>2063</sup>, Hao Wang<sup>2064</sup>, Hexiang Wang<sup>2065</sup>, Hong-Gang Wang<sup>1942</sup>, Jianrong Wang<sup>1293, 1508</sup>,  
 Jigang Wang<sup>2067</sup>, Jiou Wang<sup>1274</sup>, Jundong Wang<sup>2068</sup>, Kui Wang<sup>2069</sup>, Lianrong Wang<sup>391</sup>, Liming Wang<sup>2074</sup>,  
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 Zhouguang Wang<sup>2091</sup>, Gary Warnes<sup>1149</sup>, Verena Warnsmann<sup>1016</sup>, Hirotaka Watada<sup>2095</sup>, Eizo Watanabe<sup>716</sup>,  
 Maxinne Watchon<sup>2097</sup>, Anna Wawrzynska<sup>1849</sup>, Timothy E. Weaver<sup>674</sup>, Grzegorz Wegryzn<sup>2098</sup>, Ann M. Wehman<sup>2099</sup>,  
 Huafeng Wei<sup>2100</sup>, Lei Wei<sup>2101</sup>, Taotao Wei<sup>2102</sup>, Yongjie Wei<sup>2103</sup>, Oliver H. Weiergräber<sup>1811</sup>, Conrad C. Weihs<sup>2104</sup>,  
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 W. Haung Yu<sup>2209</sup>, Zhengping Yu<sup>2210</sup>, Zhou Yu<sup>2211</sup>, Junying Yuan<sup>2212</sup>, Ling-Qing Yuan<sup>2213</sup>, Shilin Yuan<sup>2214</sup>, Shyhng-Shiou F. Yuan<sup>2215</sup>,  
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 Silvia Zappavigna<sup>1434, 1435</sup>, Pilar Zaragoza<sup>300</sup>, Konstantinos S. Zarbalis<sup>2219</sup>, Amir Zarebkohan<sup>1906</sup>, Amira Zarrouk<sup>2220</sup>,  
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 Wei Zhang<sup>415</sup>, Xiangnan Zhang<sup>416</sup>, Xiao-Wei Zhang<sup>488</sup>, Xiaolei Zhang<sup>2241</sup>, Xiaoyan Zhang<sup>1211, 2083</sup>, Xin Zhang<sup>1221</sup>,  
 Xinxin Zhang<sup>2242</sup>, Xu Dong Zhang<sup>2243</sup>, Yang Zhang<sup>2244</sup>, Yanjin Zhang<sup>2245</sup>, Yi Zhang<sup>2246</sup>, Ying-Dong Zhang<sup>2247</sup>,  
 Yingmei Zhang<sup>1665</sup>, Yuan-Yuan Zhang<sup>2069</sup>, Yuchen Zhang<sup>368</sup>, Zhe Zhang<sup>2248</sup>, Zhengguang Zhang<sup>2249</sup>, Zhibing Zhang<sup>1430</sup>,  
 Zhihai Zhang<sup>2250</sup>, Zhiyong Zhang<sup>2251</sup>, Zili Zhang<sup>2252</sup>, Haobin Zhao<sup>2253</sup>, Lei Zhao<sup>2254</sup>, Shuang Zhao<sup>2255</sup>, Tongbiao Zhao<sup>727</sup>,  
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 Kai Zheng<sup>2261</sup>, Ling Zheng<sup>2262</sup>, Shizhong Zheng<sup>2263</sup>, Xi-Long Zheng<sup>2264</sup>, Yi Zheng<sup>1952</sup>, Zu-Guo Zheng<sup>1948</sup>,  
 Boris Zhivotovsky<sup>2265</sup>, Qing Zhong<sup>2266</sup>, Ao Zhou<sup>2267</sup>, Ben Zhou<sup>2268</sup>, Cefan Zhou<sup>2269</sup>, Gang Zhou<sup>2270</sup>, Hao Zhou<sup>2271</sup>,  
 Hong Zhou<sup>2270</sup>, Hongbo Zhou<sup>2271</sup>, Jie Zhou<sup>2272</sup>, Jing Zhou<sup>2273</sup>, Jing Zhou<sup>2274</sup>, Jiyong Zhou<sup>2275</sup>, Kailiang Zhou<sup>2276</sup>,  
 Rongjia Zhou<sup>407</sup>, Xu-Jie Zhou<sup>2277</sup>, Yanshuang Zhou<sup>2278</sup>, Yinghong Zhou<sup>2279</sup>, Yubin Zhou<sup>2280</sup>, Zheng-Yu Zhou<sup>2281</sup>,  
 Zhou Zhou<sup>2280</sup>, Binglin Zhu<sup>2281</sup>, Changlian Zhu<sup>2282</sup>, Guo-Qing Zhu<sup>2283</sup>, Haining Zhu<sup>2284</sup>, Hongxin Zhu<sup>2285</sup>, Hua Zhu<sup>2286</sup>,  
 Wei-Guo Zhu<sup>2287</sup>, Yanping Zhu<sup>2042</sup>, Yushan Zhu<sup>2288</sup>, Haixia Zhuang<sup>669</sup>, Xiaohong Zhuang<sup>491</sup>, Katarzyna Zientara-Rytter<sup>2289</sup>,  
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