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Nota di contenuto	<p>About the Special Issue Editors -- Nunzio Denora and Giovanni Natile  An Updated View of Translocator Protein (TSPO), doi: 10.3390/ijms18122640 -- Anna M. Giudetti, Eleonora Stanca, Luisa Siculella, Gabriele V. Gnoni and Fabrizio Damiano  Nutritional and Hormonal Regulation of Citrate and Carnitine/Acylcarnitine Transporters: Two Mitochondrial Carriers Involved in Fatty Acid Metabolism doi: 10.3390/ijms17060817 -- Leo Veenman, Alex Vainshtein, Nasra Yasin, Maya Azrad and Moshe Gavish  Tetrapyrroles as Endogenous TSPO Ligands in Eukaryotes and Prokaryotes: Comparisons with Synthetic Ligands, doi: 10.3390/ijms17060880 -- Valentino Laquintana, Nunzio Denora, Annalisa Cutrignelli, Mara Perrone, Rosa Maria Iacobazzi, Cosimo Annese, Antonio Lopalco, Angela Assunta Lopodota and Massimo Franco  TSPO Ligand-Methotrexate Prodrug Conjugates: Design, Synthesis, and Biological Evaluation doi: 10.3390/ijms17060967 -- Salvatore Savino, Nunzio Denora, Rosa Maria Iacobazzi, Letizia Porcelli, Amalia Azzariti, Giovanni Natile and Nicola Margiotta  Synthesis, Characterization, and Cytotoxicity of the First Oxaliplatin Pt(IV) Derivative Having a TSPO Ligand in the Axial Position, doi: 10.3390/ijms17071010 -- Eleonora Da Pozzo, Chiara Giacomelli, Barbara Costa, Chiara Cavallini, Sabrina Taliani, Elisabetta Barresi, Federico Da Settimo and Claudia Martini  TSPO PIGA Ligands Promote Neurosteroidogenesis and Human Astrocyte Well-Being, doi: 10.3390/ijms17071028 -- Ji Young Choi, Rosa Maria Iacobazzi, Mara Perrone,</p>

Nicola Margiotta, Annalisa Cutrignelli, Jae Ho Jung, Do Dam Park, Byung Seok Moon, Nunzio Denora, Sang Eun Kim and Byung Chul Lee Synthesis and Evaluation of Tricarbonyl <sup>99m</sup>Tc-Labeled 2-(4-Chloro) phenyl-imidazo[1,2-a] pyridine Analogs as Novel SPECT Imaging Radiotracer for TSPO-Rich Cancer doi: 10.3390/ijms17071085 -- Gurpreet Manku and Martine Culty Regulation of Translocator Protein 18 kDa (TSPO) Expression in Rat and Human Male Germ Cells, doi: 10.3390/ijms17091486 -- Tamara Azarashvili, Olga Krestinina, Yulia Baburina, Irina Odinkova, Vladimir Akatov, Igor Beletsky, John Lemasters and Vassilios Papadopoulos Effect of the CRAC Peptide, VLNYYVW, on mPTP Opening in Rat Brain and Liver Mitochondria doi: 10.3390/ijms17122096 -- Nasra Yasin, Leo Veenman, Sukhdev Singh, Maya Azrad, Julia Bode, Alex Vainshtein, Beatriz Caballero, Ilan Marek and Moshe Gavish Classical and Novel TSPO Ligands for the Mitochondrial TSPO Can Modulate Nuclear Gene Expression: Implications for Mitochondrial Retrograde Signaling doi: 10.3390/ijms18040786.

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Sommario/riassunto

The high number of papers submitted and ultimately accepted for publication in this special issue attests the great amount of research being conducted on TSPO and its role in living cells. Thus, TSPO has become an extremely attractive subcellular biomarker for the early detection of disease states overexpressing this protein and for the selective delivery to mitochondria of drugs and probes. Moreover, the effort in the design and synthesis of new, more specific and effective TSPO ligands proves to be very valuable. All these topics have been addressed in the special issue.

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