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| Collana | International review of child neurology series |
| Altri autori (Persone) | RaymondGerald V |
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| Livello bibliografico | Monografia |
| Note generali | Description based upon print version of record. |
| Nota di bibliografia | Includes bibliographical references and index. |
| Nota di contenuto | <p>""CONTENTS""; ""AUTHORSa€? APPOINTMENTS""; ""FOREWORD""; ""1 LEUKODYSTROPHY AND MYELIN""; ""Introduction""; ""Definition of leukodystrophies""; ""2 MYELINATION IN HEALTH AND DISEASE""; ""Introduction""; ""Oligodendrocytes have a highly polarized shape""; ""Molecular composition of myelin and oligodendrocyte membranes""; ""Molecular mechanisms of myelin membrane formation""; ""Reciprocal interactions between axons and oligodendrocytes""; ""Summary and conclusions""; ""3 THE ROLE OF ASTROCYTES IN WHITE MATTER DISEASE""; ""Introduction""; ""Cellular lineage systems in the mammalian brain""</p> <p>""Astrocytes in development and adult life""""Leukodystrophies with distinct astrocyte pathology""; ""Possible mechanisms of white matter damage secondary to astrocyte dysfunction""; ""Summary and future perspectives""; ""4 MICROGLIA AND LEUKODYSTROPHIES""; ""Introduction""; ""Macrophage populations in the central nervous system""; ""Defining microglial activation""; ""Microglia in development and repair""; ""Brain colonization, self-renewal, and post-lesional recruitment of microglia""; ""Microglia in the pathogenesis of leukodystrophies""; ""Adrenoleukodystrophy""</p> <p>""Does VLCFA accumulation cause microglial activation?""""How does microglial activation relate to demyelination in adrenoleukodystrophy?""; ""Metachromatic leukodystrophy""; ""Microglia in globoid cell leukodystrophy (Krabbe disease)""; ""The role of microglia in transplantation""; ""Concluding remarks""; ""5 X-LINKED</p> |

ADRENOLEUKODYSTROPHY"; "Introduction"; "Biochemical and molecular basis"; "Clinical features"; "Diagnosis"; "Animal models"; "Pathogenesis"; "Therapy in adrenoleukodystrophy"; "Expanded screening for asymptomatic individuals"

"6 KRABBE DISEASE (GLOBOID CELL LEUKODYSTROPHY)""

Introduction"; "Clinical features"; "Diagnostic evaluation"; "Pathological findings"; "Biochemical findings"; "Molecular genetics"; "Newborn screening"; "Studies in animal models"; "Therapy"; "Conclusions"; "7 ALEXANDER DISEASE"; "Introduction"; "Clinical presentation"; "MRI characteristics"; "Pathology"; "Diagnosis"; "GFAP mutations"; "Cases without GFAP mutations"; "Recent cases"; "Disease mechanisms"; "Treatment"; "Concluding remarks"; "8 METACHROMATIC LEUKODYSTROPHY"

"Classification and definition""Incidence and prevalence"; "Genetics"; "Biochemical background"; "Pathophysiology"; "Clinical features"; "Laboratory and genetic diagnosis"; "Therapy"; "9 CANAVAN DISEASE"; "Introduction"; "Molecular basis"; "Clinical features"; "Variant forms of the disease"; "Differential diagnosis"; "Pathogenesis and pathophysiology"; "Prognosis"; "Epidemiology"; "Gene therapy"; "Prevention"; "10 PELIZAEUSa€?MERZBACHER DISEASE: GENETIC MODELS AND MECHANISMS"; "Involvement of myelin proteolipid protein"; "The PLP1 gene"; "Genetics of PMD/SPG-2"
