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Selected contributions
- Reduction of Group II Metabotropic Glutamate Receptors during Development of Benzodiazepine Dependence: Okamoto, R. (Fukuoka); Itoh, Y. (Gifu); Murata, Y.; Kobayashi, D.; Hosoi, M.; Mine, K. (Fukuoka)
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- Pharmacokinetics of Single Ascending Doses of the P-Glycoprotein Inhibitor Tarivid in Healthy Subjects: Bauer, M.; Zeitlinger, M.; Todorut, D.; Böhmderfer, M.; Müller, M. (Vienna); Langer, O. (Vienna/Selbersdorf); Jäger, W. (Vienna)
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Pharmacology

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The catalytic activity of an enzyme can be either reported in nkat or mkat (1 kat, KATAL = 1 mol .s–1) or as μmol.min–1 under stated conditions (temperature, pH, kind of buffer, ionic strength, etc.). Catalytic activity concentration should be given as nkat.l–1 or μkat.l–1, or as μmol.min–1.l–1 or, when referring the activity per mass of protein or another reference basis, by an appropriate mass unit (kg, g, mg). Enzyme assays in tissues, that are considered to measure (relative) concentrations, can be confirmed by other assays only in relation to some standard. Authors are therefore encouraged to give, as part of the method, the activity in some generally available standard or in some common reference tissue such as adult male rat liver.

For the other quantities the Recommendations of the Section of Clinical Chemistry of the International Union of Pure and Applied Chemistry (IUPAC) and of the International Federation of Clinical Chemistry (IFCC) should be considered (Quantities and Units in Clinical Chemistry. Pure Appl Chem 1974;37:517,547). The abbreviations and most common units are listed as follows:

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<th>Abbreviation</th>
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<tr>
<td>AMP, ADP, ATP</td>
<td>Adenosine-5'-monophosphate, di- and triphosphate</td>
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<td>CoA</td>
<td>Coenzyme A</td>
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<tr>
<td>DNA</td>
<td>Deoxyribonucleic acid</td>
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<td>EDTA</td>
<td>Ethylenediaminetetraacetic acid</td>
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<td>EGTA</td>
<td>Ethylene glycol-bis(β-aminoethylether)-N,N',N'-tetraacetic acid</td>
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<tr>
<td>FAD</td>
<td>Flavin adenine dinucleotide</td>
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<td>FMN</td>
<td>Flavin mononucleotide</td>
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<td>GABA</td>
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<td>HEPES</td>
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<td>5-HT</td>
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<td>NAD (NADH)</td>
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<td>NADP (NADPH)</td>
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<td>RNA</td>
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<tr>
<td>UDP, UTP</td>
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<td>SDS</td>
<td>Sodium dodecyl sulphate</td>
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An expertly written, practical handbook for the clinical assessment and management of children with inherited and acquired bleeding and clotting disorders

SickKids Handbook of Pediatric Thrombosis and Hemostasis

Editors
Victor S. Blanchette
Vicky R. Breakey
Shoshana Revel-Vilk

This handbook takes the reader through the entire field of pediatric thrombosis and hemostasis. An introductory section concisely explains the complex pathophysiology of hemostasis and thrombosis. The chapters that follow include practical, evidence-based information on the diagnosis and management of inherited and acquired bleeding disorders and thrombotic events of the venous, arterial, cardiac and central nervous systems that affect children. Special features include practical clinical algorithms and appendices that cite normal laboratory reference ranges, as well as recommended dosages of blood products and major hemostatic agents. A standalone chapter is dedicated to developmental hemostasis and bleeding in the neonate. A chapter on antithrombotic therapy in children gives succinct information on the old and new anticoagulants, antiplatelet drugs and thrombolytic agents.

Written and reviewed by international experts in the field, this handbook is intended for health care professionals involved in the assessment and care of children with inherited and acquired bleeding and clotting disorders, including general and specialist pediatricians (in particular intensivists, neonatologists, cardiologists/cardiac surgeons, rheumatologists and nephrologists), hematologists/oncologists (pediatric and adult), as well as medical trainees, nurses, nurse practitioners and pharmacists.

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