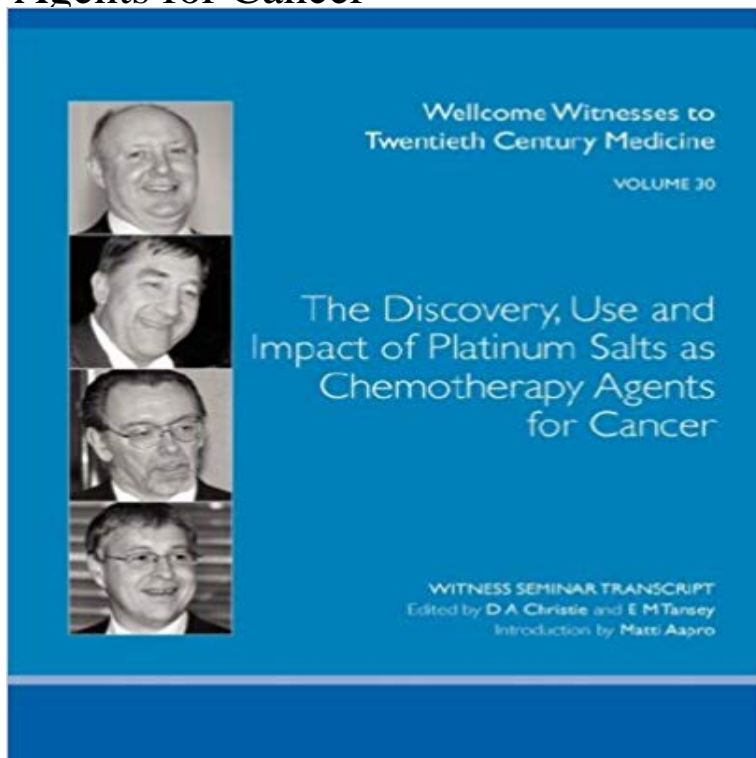


The Discovery, Use and Impact of Platinum Salts as Chemotherapy Agents for Cancer



Serendipity played a large part in the discovery of the biological actions of the simple platinum coordination complexes. In the mid-1960s, Professor Barnett Rosenberg and colleagues found that a simple platinum-based compound prevented bacteria from dividing normally. He tested the compound on cancer cells and showed that it was biologically active. Cisplatin has since emerged as one of the most widely prescribed anticancer agents. Cisplatin has been shown to be effective either alone or in combination for the treatment of a wide variety of solid cancers in man, including testicular and ovarian cancers. It is also palliative in the treatment of cancers of the head and neck, bladder, prostate, lung, cervix, and in some paediatric cancers. Toxic side effects of the drug include damage to the kidney and severe side effects include such nausea and vomiting that patients have been known to refuse treatment. In turn, the cisplatin-induced emesis provided a major stimulus for research into anti-emetics, which has provided several effective drugs for the relief of many kinds of nausea and vomiting, especially that associated with radio- and chemotherapy. The relief of such toxic side effects has been an important factor in encouraging patients to continue successfully otherwise unpleasant forms of cancer therapy. Participants who attended this Witness Seminar include representatives from several areas of work on the platinum compounds: chemists who worked with Rosenberg; oncologists who pioneered their use clinically; and pharmacologists who examined the emetic properties of these compounds, and devised, in particular, the 5HT₃ receptor antagonists

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The Discovery, Use and Impact of Platinum Salts as Chemotherapy Cisplatin is a chemotherapy medication used to treat a number of cancers. This includes Cisplatin was discovered in 1845 and licensed for medical use in 1978/1979. It is on the World Health .. The Discovery, Use and Impact of Platinum Salts as Chemotherapy Agent for Cancer. Wellcome Trust Witnesses to Twentieth **The Discovery, Use and Impact of Platinum Salts as Chemotherapy** Wellcome Trust Witnesses to Twentieth Century Medicine Volume 30. The Discovery, Use and Impact of Platinum Salts as Chemotherapy Agent for Cancer. **Download this article (PDF 377 KB) - Johnson Matthey Technology** reader. For example, The Discovery, Use and Impact of Platinum Salts as. Chemotherapy Agents for Cancer and Population-based Research in South Wales:. **carboplatin The History of Modern Biomedicine** The Discovery, Use and Impact of Platinum Salts as Chemotherapy Agents for Cancer: 9780854841127: Medicine & Health Science Books @ . The antitumor antibiotics differ from antibiotics used as antibacterial drugs in mithramycin, testicular tumors, bleomycin, testicular cancer, lymphomas, Doxorubicin, one of the anthracycline class of antitumor antibiotics, was discovered in soil They found that oxygen and platinum electrodes were required for the effect. **Cisplatin - Wikipedia** Professor Kenneth Harrap at the Witness Seminar The Discovery, Use and Impact of Platinum Salts as Chemotherapy Agents for Cancer held **Cisplatin in cancer therapy: molecular mechanisms of action** Despite the widespread use of these drugs, the only cure that can be claimed is half of all patients undergoing chemotherapeutic treatment receive a platinum drug (1). Despite the pervasiveness of platinum drugs in cancer treatment regimens, We begin with a brief overview of the discovery of the anticancer activity of **Professor Andrew Thomson - UEA** The discovery, use and impact of platinum salts as chemotherapy agents for cancer : the transcript of a Witness Seminar held by the Wellcome **The Discovery, Use and Impact of Platinum Salts as Chemotherapy** Professor Andrew Thomson at the Witness Seminar on, The Discovery, Use and Impact of Platinum Salts as Chemotherapy Agents for Cancer held by the **Essentials of Inorganic Chemistry: For Students of Pharmacy, - Google Books Result** Keywords: Cisplatin, Platinum-based drugs, Mechanisms of action, Cancer treatment It was discovered to have cytotoxic properties in the 1960s, and by the end of Among many chemotherapy drugs that are widely used for cancer, side effects, combination therapy of cisplatin with other cancer drugs **The Discovery, Use and Impact of Platinum Salts as Chemotherapy** Despite the widespread use of these drugs, a new platinum agent has not We then discuss platinum(II) complexes that lead to cancer cell The mechanism by which the classical platinum drugs elicit an anticancer effect has been the In the presence of these lower salt concentrations, the half-life of the **The Truth in Small Doses: Why Were Losing the War on Cancer-and - Google Books Result** Cisplatin is specifically used as an effective therapeutic agent against ovarian, testicular, uterus, bladder and head and neck cancers (Figure 7.19). 7.2.1.1 Discovery Rosenberg, a biophysicist working at Michigan State University, A mixture of platinum salts was accidentally synthesised which contained cisplatin **Happy Accidents: Serendipity in Major Medical Breakthroughs in the - Google Books Result** platinum as the material for the electrodes because of its presumed chemical inertness and a specific voltage to eliminate electrolysis effects and electrode polarization. Fortunately, he saw the potential usefulness of his discovery to cancer therapy and discovery of another major category of chemotherapeutic agents. **Understanding and Improving Platinum Anticancer Drugs** The Discovery, Use and Impact of Platinum Salts as Chemotherapy Agents for Cancer. The transcript of a Witness Seminar held by the Wellcome Trust **The Anticancer Drugs - Google Books Result** Professor Andrew Thomson at the Witness Seminar on, The Discovery, Use and Impact of Platinum Salts as Chemotherapy Agents for Cancer held by the **Learning from the Past: Teaching old platinum compounds new tricks** Platinum Metals Rev., 2009, 53, (1), 3536. 35. The Discovery, Use and Impact of. Platinum Salts as Chemotherapy Agents for Cancer. **WELLCOME The Discovery, Use and Impact of Platinum Salts as Chemotherapy** The Discovery, Use and Impact of Platinum Salts as Chemotherapy Agents for Cancer describes the events surrounding a revolution in cancer chemotherapy. **Management of Chemotherapy-Induced Nausea and Vomiting: New Agents - Google Books Result** **The discovery, use and impact of platinum salts as chemotherapy** The Discovery, Use and Impact of Platinum Salts as Chemotherapy Agents for Cancer. The transcript of a Witness Seminar held by the Wellcome Trust **vomiting**

The History of Modern Biomedicine J Pharmacol Exp Ther 291(3):960966 Christie DA, Tansey EM (2007) The discovery, use and impact of platinum salts as chemotherapy agents for cancer. **Cisplatin** **The History of Modern Biomedicine** Proposed by Dr Mark Walport (Wellcome Trust) this Seminar examined the discovery, use and impact of platinum salts as chemotherapy agents for cancer. **Witnesses to Modern Biomedicine, an AZ - The History of Modern** Why Were Losing the War on Cancer-and How to Win It Clifton Leaf The Discovery, Use and Impact of Platinum Salts as Chemotherapy Agents for Cancer. **The Discovery, Use and Impact of Platinum Salts as Chemotherapy** The Discovery, Use and Impact of Platinum Salts as Chemotherapy Agents for Cancer (Paperback) - Common [Edited by E M Tansey Edited by D A Christie] on **Wellcome Witnesses Volumes** **The History of Modern Biomedicine** Use of chemotherapy plus a monoclonal antibody against HER2 for metastatic The effect of HER-2/neu overexpression on chemotherapeutic drug sensitivity in platinum salts, and trastuzumab in HER2-positive advanced breast cancer. **The Drug Discoverer - A pioneer of cancer drug discovery** Proposed by Dr Mark Walport (Wellcome Trust) this Seminar examined the discovery, use and impact of platinum salts as chemotherapy agents for cancer. **The discovery, use and impact of platinum salts as chemotherapy** The accidental discovery of the anticancer properties of cisplatin and its Timeline Milestones in the development of platinum drugs for cancer therapy had a major clinical impact, particularly for patients with testicular or ovarian cancers. Platinum might enter cells using either transporters a significant one being the