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WMIC 2014 Plenary Talk: Highlight Lecture

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The vascular bed is essential for survival of all multicellular organisms that are larger than a millimeter. Accordingly, all changes in the structure and function of tissues, which occur in health and disease, during development or degeneration, are accompanied and often induced by vascular changes. The group of Michal Neeman aims to map the regulatory network controlling the growth and function of blood and lymphatic vessels. Imaging tools are applied to non-invasively obtain dynamic, structural, functional and molecular information on activity of multiple steps in the angiogenic process and thereby improves our understanding of the key regulatory elements and critical checkpoints of vascular remodeling. Identifications of these checkpoints can be used for defining new targets for intervention, while imaging can assist in pre-clinical and clinical development of such novel targeted therapies.

Michal Neeman is the dean of the faculty of Biology at the Weizmann Institute and heads the Clore Center for Biological Physics and the Krenter Institute for Imaging and Genomics.