

FORMATO EUROPEO
PER IL CURRICULUM
VITAE



INFORMAZIONI PERSONALI

Nome

GIOVANNI BOTTIROLI

ESPERIENZA LAVORATIVA

Data

- Nome e indirizzo del datore di lavoro
- Tipo di azienda o settore
- Tipo di impiego
- Principali mansioni e responsabilità

- 2011-up today: Contract Professor at University of Pavia – Dept Biology & Biotechnology
- 2011-2018: Associated to IGM-CNR (DSB.AD007.078 – Methods in Optical Biopsy)
- 2007- 2020: Member of the Editorial Board and Scientific Committee of “Energy for Health”
- 2005-2010: Member of the Executive Board of the Italian Society of Histochemistry.
- 2001- 2011: Person in charge of the Histochemistry and Cytometry Section of IGM /CNR – Pavia.
- 2001 -2011: CNR Director of Research.
- 2001 – 2005: Member of the Editorial Board of “Photochemistry & Photobiology. Sciences” (Royal Society of Chemistry)
- 1998-2002: President of the Italian Society of Photobiology.
- 1992 to date: Member of the Executive Board of the Italian Society for Laser Medicine and Surgery.
- 1992-1998: Member of the Executive Board of the Italian Society for Photobiology.
- 1979 – 2001: Director of the CNR Centre of Study for Histochemistry.
- 1995 – 2001: CNR Senior Researcher.
- 1978-1979: Member of the CNR Centre of Study for Histochemistry Scientific Council.
- 1974-1995: CNR Researcher.

- Person in charge of the IGM research program ME.P05.006 “Sviluppi metodologici in Citometria e Applicazioni alla Sperimentazione Biomedica – In vivo Imaging”.
- Person in charge of the IGM sub-project of the Regione Lombardia Project n. 14388 (decr. 5899 11.06.2010) “Piattaforma tecnologica per l'utilizzo del suino in campo medico e biotecnologico” (2011)
- Person in charge of the IGM project of the Cariplo2011-0439 “Real time monitoring of liver oxidative stress injuries by means of an innovative methodology based on integrated autofluorescence optical biopsy. Application to transplantation procedure” (2011)

- Basic and Applied Biomedical Research
- Artwork Restoration
- Paper and Ink Forensic Analysis

ISTRUZIONE E FORMAZIONE

- Date (da – a)
- Nome e tipo di istituto di istruzione o formazione
 - International School of Quantum Electronics, Course "Lasers in Biology and Medicine", organized Proff. F. T. Arecchi e D. Roess. Milano, 1979
 - 8th International course of Biophysics NATO-NSG-EMBO-IMPI-IMSTR-SRG Advanced Study Institute of the "Structure and Function of Chromatin", organized by Prof. Claudio Nicolini. Erice, 1978.
 - PhD in Biochemistry at University of Pavia, 1978.
 - School of Biospectroscopy, organized by Prof. Giancarlo Baldini at University of Sassari, 1974.
 - Graduated in Chemistry at University of Pavia, 1971.
- Principali materie / abilità professionali oggetto dello studio
 - Imaging
 - Optical microscopy
 - Photomicrography
 - Microspectrofluorometry
 - Spectroscopy
 - Analytical Chemistry
- Qualifica conseguita
 - Doctor in Chemistry
 - PhD

ATTIVITA' DIDATTICA

UNIVERSITA' DEGLI STUDI DI PAVIA
Corsa di Laurea in Scienze Biologiche – Metodologie Cellulari
Tecniche di Microscopia Ottica
AA 2011/12 – up today

ACCADEMIA DI BELLE ARTI DI BRERA
Chimica Applicata al Restauro (Documenti cartacei, Fotografie, Dipinti)
AA 2003/04 – 2011/12

ATTIVITA' DI RICERCA

Campi di ricerca

Biomedical diagnosis by means of optical techniques
Artwork restoration
Forensic analysis

Attività scientifiche

- Development of innovative instrumentation;
- Development of methodologies based on the fluorescence resonance energy transfer (FRET);
- Application of analytical cytology techniques to the in situ study of drug action mechanism;
- Development of micro-spectrofluorometric techniques for characterization of autofluorescence properties as cell/tissue intrinsic diagnostic parameter;
- Development of autofluorescence-based Optical Biopsy techniques for discrimination of normal and pathological tissue conditions, exploitable in the clinical practice, with particular reference to oncological diagnosis and organ transplantation procedure.
- Spectroscopic techniques for characterization of painting materials.
- Spectroscopic and chromatographic techniques for paper and ink characterization.
- Analytical chemistry and Microscopy applied to Forensic Investigation.