

# Biomedical Engineering

## 3<sup>rd</sup> Cycle



<b>Advanced Course on Biomedical Imaging 2021</b> <b>Faculdade de Medicina, Aulas remotas - zoom</b>	
Monday 3/5/2021	<p> <b>14:00 –14:30: Introduction to the Course.</b> <i>M Filomena Botelho, Francisco Caramelo</i>  <b>14:30 –15:00: Articles delivering and discussion about examination.</b> <i>M Filomena Botelho, Francisco Caramelo</i>  <b>15:00 – 16:30: Methods of Microscopic Imaging.</b> <i>Rui Oliveira</i>  <b>16:30 –18:00: Confocal Microscopy.</b> <i>Henrique Girão</i>  <b>18:00 – 19:00: Electronic Microscopy.</b> <i>Maria Fátima Martins</i>  <b>19:00 – 20:00: Work groups.</b> <i>M Filomena Botelho, Francisco Caramelo</i> </p> <p>           Zoom:  <a href="https://videoconf-colibri.zoom.us/j/82932734806?pwd=bmdPNzi5SElkc3lPSiN3NEhHWUp2QT09">https://videoconf-colibri.zoom.us/j/82932734806?pwd=bmdPNzi5SElkc3lPSiN3NEhHWUp2QT09</a>            ID da reunião: 829 3273 4806            Senha de acesso: 784850         </p>
Tuesday 4/5/2021	<p> <b>14:00 –15:00: Conventional radiology and Mammography: Physical Basis.</b> <i>Francisco Caramelo, Nuno Ferreira</i>  <b>15:00 – 16:30: Conventional radiology and Mammography: Clinical Applications.</b> <i>Maria Alcide Marques, Manuela Gonçalves</i>  <b>16:30 –17:30: Interventional radiology.</b> <i>Paulo Donato</i>  <b>17:30 – 18:30: OCT: physical basis.</b> <i>Rui Bernardes</i>  <b>18:30 – 19:30: OCT: applications.</b> <i>Rui Bernardes</i>  <b>19:30 – 20:00: Work groups.</b> <i>M Filomena Botelho, Francisco Caramelo</i> </p> <p>           Zoom  <a href="https://videoconf-colibri.zoom.us/j/89108985069?pwd=V1pWTm1LdHkvVIM2eVVjTUdzK2Nwdz09">https://videoconf-colibri.zoom.us/j/89108985069?pwd=V1pWTm1LdHkvVIM2eVVjTUdzK2Nwdz09</a>            ID da reunião: 891 0898 5069            Senha de acesso: 843983         </p>
Wednesday 5/5/2021	<p> <b>14:00 –15:00: CT: Physical Basis.</b> <i>Augusto Silva</i>  <b>15:00 –16:00: CT technical update for clinical applications.</b> <i>Filipe Caseiro Alves</i>  <b>16:00 –17:00: Ultrasonography: Physical basis.</b> <i>Francisco Caramelo</i>  <b>17:00 – 19:00: Ultrasonography. Applications and Ultrasound contrast.</b> <i>Pedro Belo Soares</i>  <b>19:00 – 20:00: Work groups.</b> <i>M Filomena Botelho, Francisco Caramelo</i> </p> <p>           Entrar na reunião Zoom  <a href="https://videoconf-colibri.zoom.us/j/89308340284?pwd=YlpFYjVKYndDYUITT29seUxMQW14QT09">https://videoconf-colibri.zoom.us/j/89308340284?pwd=YlpFYjVKYndDYUITT29seUxMQW14QT09</a>            ID da reunião: 893 0834 0284            Senha de acesso: 581851         </p>

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<p>Thursday 6/5/2021</p>	<p><b>14:00 –15:00: PET-CT: Instrumentation and Image processing.</b> <i>Nuno Ferreira</i>  <b>15:00 – 16:00: Basis of Super-resolution.</b> <i>Francisco Caramelo</i>  <b>16:00 –17:00: The gamma Camera.</b> <i>Salomé Pires</i>  <b>17:00 – 18:00: Nuclear Medicine particularities.</b> <i>João Lima</i>  <b>18:00 – 19:00: PET-CT applications.</b> <i>Paula Lapa</i>  <b>19:00 – 20:00: Work groups.</b> <i>M Filomena Botelho, Francisco Caramelo</i></p> <p>Zoom  <a href="https://videoconf-colibri.zoom.us/j/84749664493?pwd=OFhDMlpSK2twRGVqUnU0QWFabFZsZz09">https://videoconf-colibri.zoom.us/j/84749664493?pwd=OFhDMlpSK2twRGVqUnU0QWFabFZsZz09</a>            ID da reunião: 847 4966 4493            Senha de acesso: 557775</p>
<p>Friday 7/5/2021</p>	<p><b>14:00 –15:00: Cyclotron.</b> <i>Francisco Alves</i>  <b>15:00 – 16:00: PET Radiopharmaceuticals.</b> <i>Ângela Neves</i>  <b>16:00 –17:00: Quality control in Radiopharmacy.</b> <i>Ana Almeida</i>  <b>17:00 – 20:00: Hands-on session: SPECT.</b> <i>Margarida Abrantes, Salomé Pires (Biophysics Institute, iCBR, Faculty of Medicine)</i></p> <p>Zoom  <a href="https://videoconf-colibri.zoom.us/j/89260748986?pwd=eVNhV1ZmTGMrRVBCSGNFQklyRm14Zz09">https://videoconf-colibri.zoom.us/j/89260748986?pwd=eVNhV1ZmTGMrRVBCSGNFQklyRm14Zz09</a>            ID da reunião: 892 6074 8986            Senha de acesso: 142014</p>
<p>Monday 10/5/2021</p>	<p><b>14:00 –15:00: Optical imaging Physics.</b> <i>Miguel Morgado</i>  <b>15:00 – 16:00: Optical imaging applications.</b> <i>Mafalda Laranjo</i>  <b>16:00 – 20:00: Work groups.</b> <i>M Filomena Botelho, Francisco Caramelo</i>  <b>Papers 1, 2 e 3</b></p> <p>Zoom  <a href="https://videoconf-colibri.zoom.us/j/83353640200?pwd=dSszaVFEL085ZHpEVlpYVEZieDY2Zz09">https://videoconf-colibri.zoom.us/j/83353640200?pwd=dSszaVFEL085ZHpEVlpYVEZieDY2Zz09</a>            ID da reunião: 833 5364 0200            Senha de acesso: 977509</p>
<p>Tuesday 11/5/2021</p>	<p><b>14:00 –15:00: Physics of MRI imaging. Pulse sequence and main artifacts.</b> <i>Sónia Gonçalves</i>  <b>15:00 – 16:00: MRI applications.</b> <i>Luís Curvo Semedo</i>  <b>16:00 –17:00: RMN spectroscopy. Biochemical basis.</b> <i>Rui Brito</i>  <b>17:00 – 18:00: RMN spectroscopy applications.</b> <i>Marco Alves</i>  <b>18:00 – 20:00: Work groups.</b> <i>M Filomena Botelho, Francisco Caramelo</i></p> <p>Zoom  <a href="https://videoconf-colibri.zoom.us/j/87655755021?pwd=Y2dDcjF0VTR1U3E4b2E4MHVmUXVJQT09">https://videoconf-colibri.zoom.us/j/87655755021?pwd=Y2dDcjF0VTR1U3E4b2E4MHVmUXVJQT09</a>            ID da reunião: 876 5575 5021            Senha de acesso: 980356</p>

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<p>Wednesday 12/5/2021</p>	<p><b>14:00 –15:00: SPECT animal systems. Maria Filomena Botelho</b>  <b>15:00 – 16:00: PET animal systems. Ana Cristina Santos</b>  <b>16:00 –17:00: MRI animal systems. José Sereno</b>  <b>17:00 – 20:00: Work groups. M Filomena Botelho, Francisco Caramelo</b>  <b>Papers 4 e 5</b></p> <p>Zoom  <a href="https://videoconf-colibri.zoom.us/j/88982400473?pwd=cmhGZGVETXp1N2NqRXQzRWZKT2hpQT09">https://videoconf-colibri.zoom.us/j/88982400473?pwd=cmhGZGVETXp1N2NqRXQzRWZKT2hpQT09</a>            ID da reunião: 889 8240 0473            Senha de acesso: 994368</p>
<p>Thursday 13/5/2021</p>	<p><b>14:00 –15:00: Physical Basis of Radiotherapy (LINAC). Paulo César Simões</b>  <b>15:00 – 16:00: Hadrontherapy. Paulo Crespo</b>  <b>16:00 –17:30: SEMINAR: New methods in Radiotherapy: Physical Basis and Potential Clinical Applications of FLASH Radiation Therapy. Emil Schuler (UT MD Anderson Cancer Center upon invitation of UT Austin Portugal)</b>  <b>17:30 – 19:00: Advances on target organs delineation (IMRT...) and Clinical application. Inês Nobre Gois</b></p> <p>Zoom  <a href="https://videoconf-colibri.zoom.us/j/88694779717?pwd=Zmlyb1MvS1ptWnh2U1plaW5vdjlvZz09">https://videoconf-colibri.zoom.us/j/88694779717?pwd=Zmlyb1MvS1ptWnh2U1plaW5vdjlvZz09</a>            ID da reunião: 886 9477 9717            Senha de acesso: 911678</p>
<p>Friday 14/5/2021</p>	<p><b>14:00 – 15:00: MRI contrast agentes. Biochemistry. Isabel Prata</b>  <b>15:00 – 16:00: Recent trends in MRI. Filipe Caseiro Alves</b>  <b>16:00 – 20:00: Work groups. M Filomena Botelho, Francisco Caramelo</b></p> <p>Zoom  <a href="https://videoconf-colibri.zoom.us/j/84875948517?pwd=d2wyd0t5UEgwQkpJT2U2cGZWUDA5Zz09">https://videoconf-colibri.zoom.us/j/84875948517?pwd=d2wyd0t5UEgwQkpJT2U2cGZWUDA5Zz09</a>            ID da reunião: 848 7594 8517            Senha de acesso: 981175</p>